

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P14206

Luminaire Tested: **ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14206
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK
Description: STREETWORKS POST TOP WITH A TYPE III PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 4000K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12740.7 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U5 - G4

Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

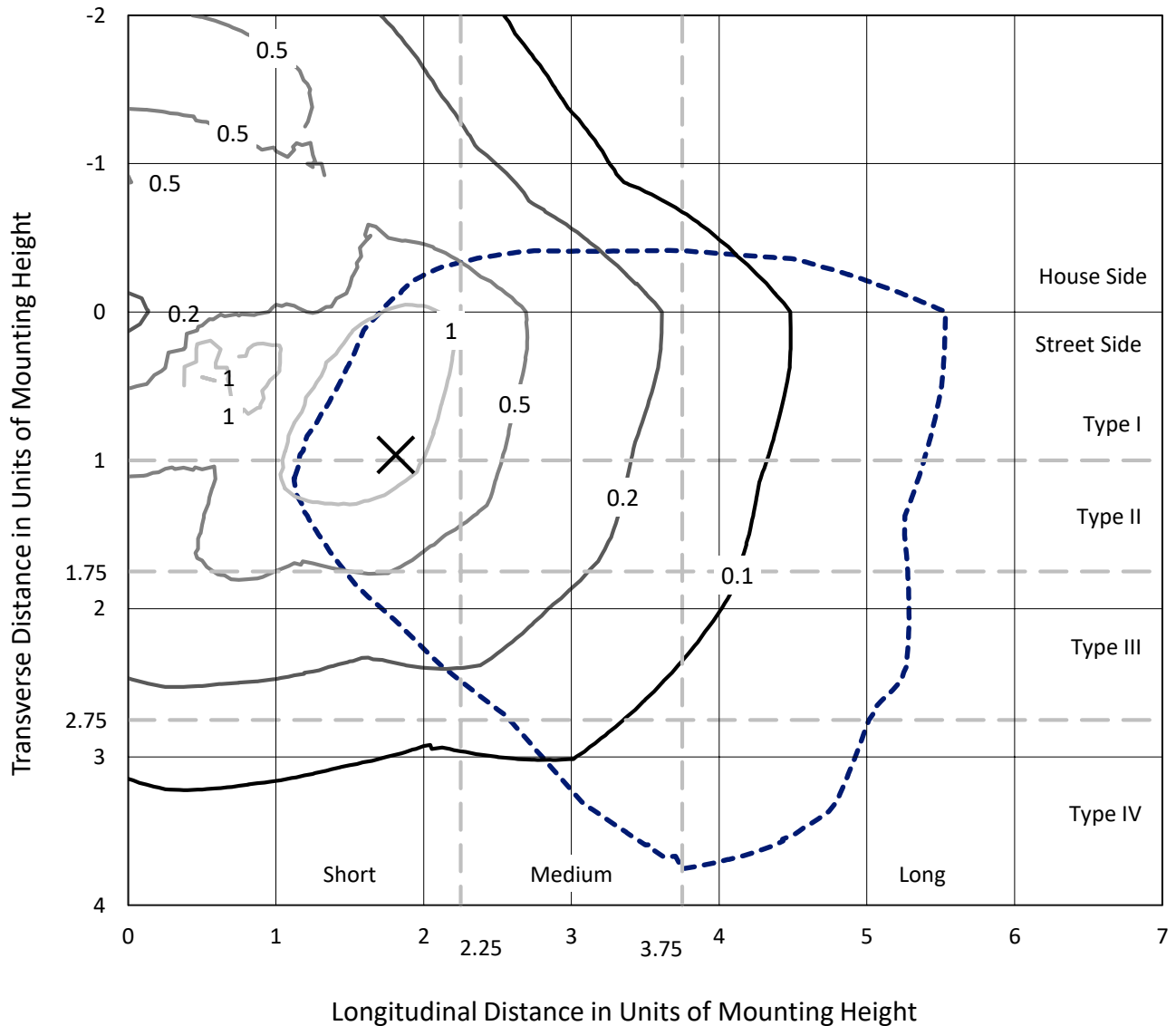


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

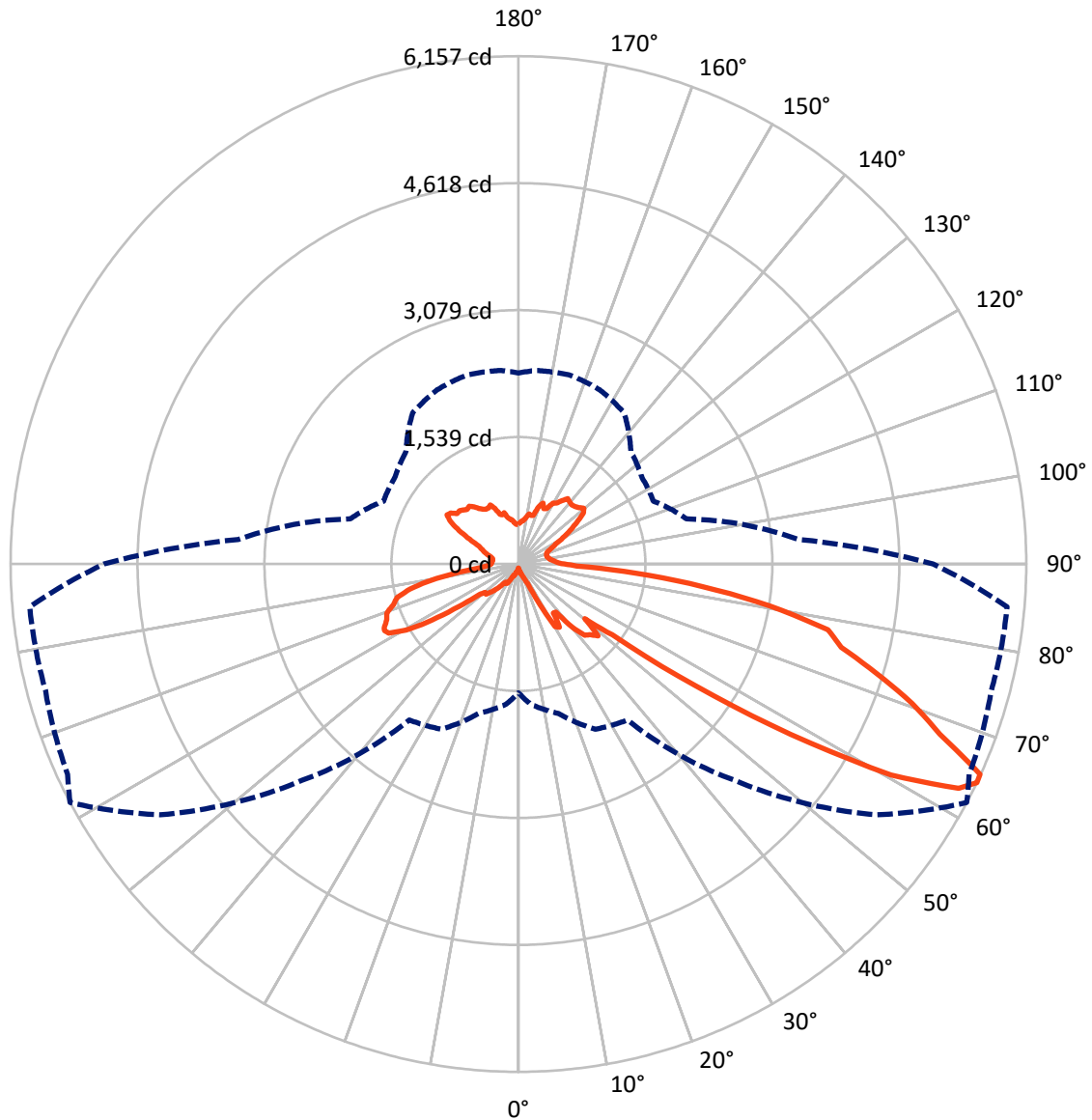


Based on 20 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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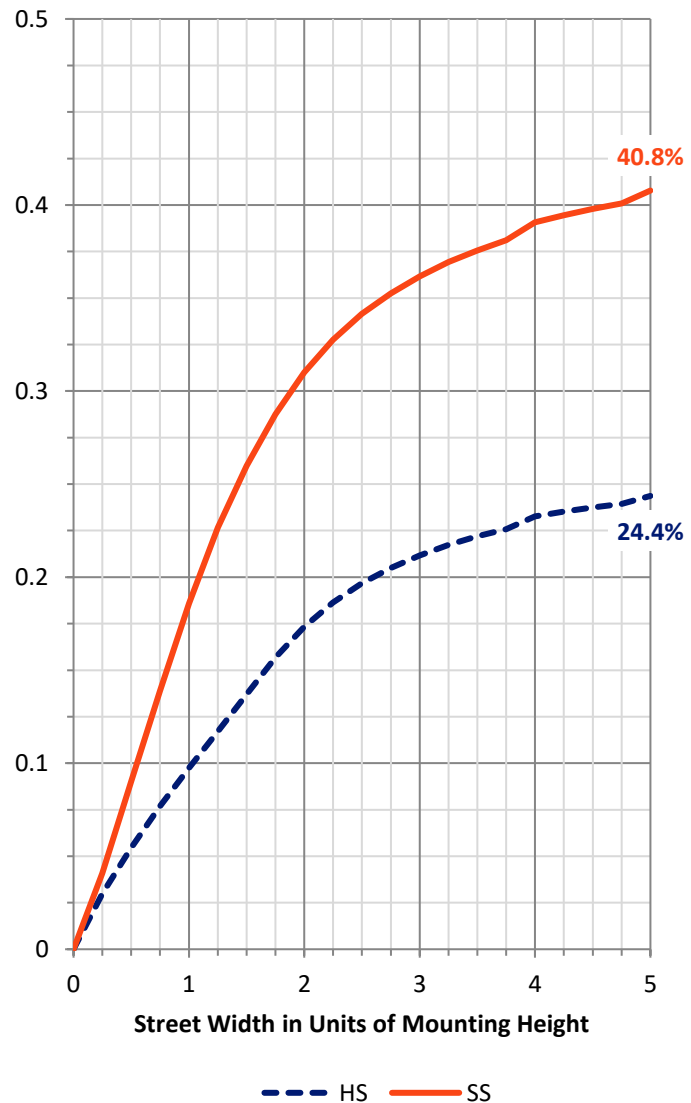
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3217.2	2049.4	5266.6
	% Fixture	25.3	16.1	41.3
Street Side	Lumens	5429.1	2045.0	7474.2
	% Fixture	42.6	16.1	58.7
Total	Lumens	8646.3	4094.4	12740.7
	% Fixture	67.9	32.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.1
10°-20°	35.3	0.3
20°-30°	115.5	0.9
30°-40°	277.9	2.2
40°-50°	550.2	4.3
50°-60°	1322.9	10.4
60°-70°	2894.4	22.7
70°-80°	2470.4	19.4
80°-90°	972.1	7.6
90°-100°	391.1	3.1
100°-110°	385.9	3.0
110°-120°	558.8	4.4
120°-130°	834.7	6.6
130°-140°	777.7	6.1
140°-150°	567.5	4.5
150°-160°	351.1	2.8
160°-170°	177.3	1.4
170°-180°	50.4	0.4
0°-90°	8646.3	67.9
0°-180°	12740.7	100.0

Coefficient of Utilization



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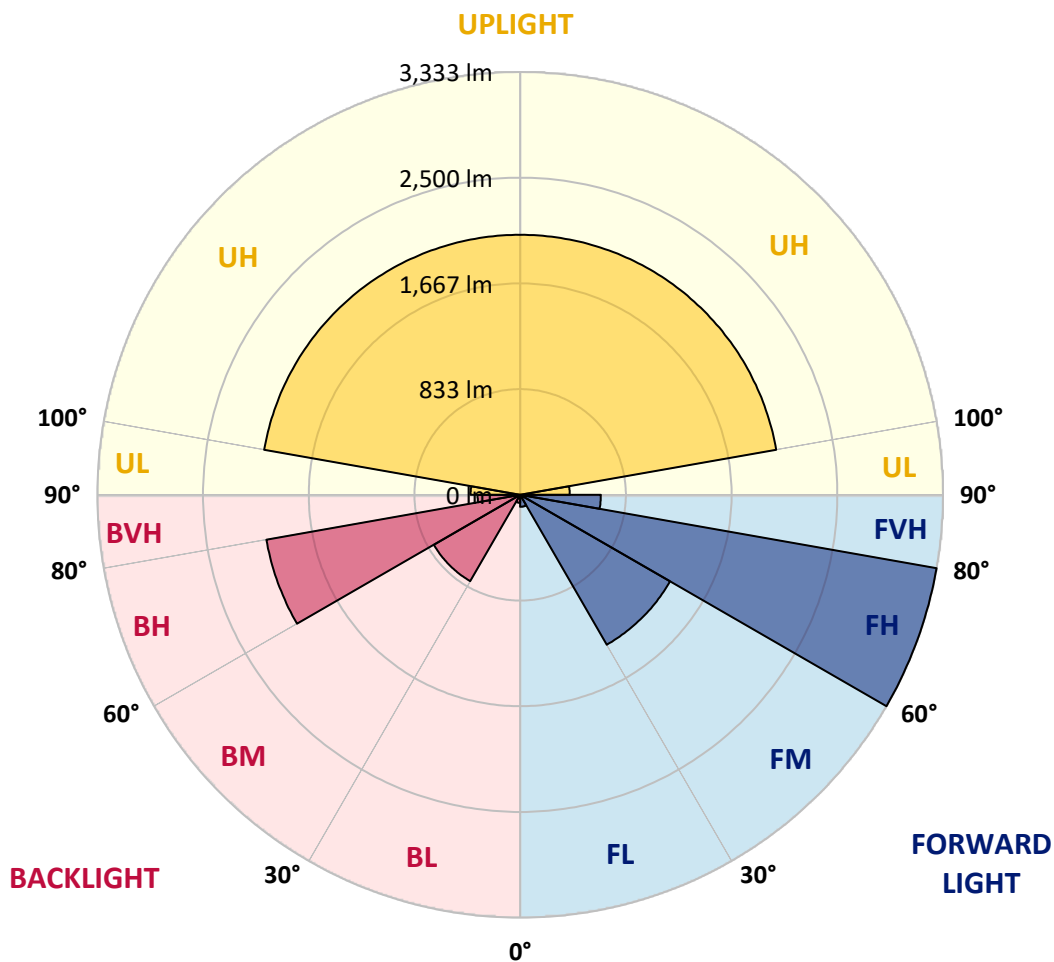
CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.1	0.7			
FM	(30°-60°)	1364.8	10.7			
FH	(60°-80°)	3333.2	26.2			G2/5000
FVH	(80°-90°)	636.1	5.0			G4/750
BL	(0°-30°)	63.2	0.5	B0/110		
BM	(30°-60°)	786.2	6.2	B1/1000		
BH	(60°-80°)	2031.7	15.9	B3/2500		G3/2500
BVH	(80°-90°)	336.0	2.6			G3/500
UL	(90°-100°)	391.1	3.1		U3/500	
UH	(100°-180°)	2049.4	16.1		U5	

BUG Rating: B3-U5-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	60.6	59.0	63.9	60.6	59.0	57.4	59.0	59.0	57.4	59.0	60.6
5°	72.1	72.1	72.1	72.1	68.8	68.8	68.8	68.8	70.5	72.1	77.0
7.5°	81.9	80.3	81.9	83.6	81.9	83.6	81.9	83.6	80.3	78.7	81.9
10°	100.0	100.0	100.0	101.6	103.2	103.2	101.6	98.3	98.3	98.3	96.7
12.5°	109.8	108.2	113.1	118.0	116.4	113.1	111.4	108.2	109.8	108.2	106.5
15°	122.9	122.9	126.2	127.8	134.4	132.7	126.2	126.2	124.5	121.3	119.6
17.5°	132.7	134.4	137.7	145.9	155.7	157.3	149.1	144.2	140.9	136.0	129.5
20°	147.5	149.1	149.1	160.6	183.5	196.7	190.1	175.4	168.8	157.3	145.9
22.5°	172.1	170.4	170.4	186.8	214.7	245.8	226.2	201.6	198.3	178.6	170.4
25°	196.7	198.3	204.8	232.7	290.1	304.8	278.6	275.3	263.8	214.7	177.0
27.5°	313.0	313.0	304.8	363.8	476.9	545.7	585.1	560.5	512.9	336.0	232.7
30°	431.0	431.0	399.9	442.5	621.1	703.0	840.7	880.0	798.1	468.7	316.3
32.5°	432.6	440.8	424.4	491.6	640.8	714.5	822.7	916.1	858.7	535.9	391.7
35°	404.8	393.3	378.6	427.7	521.1	567.0	642.4	729.3	729.3	511.3	395.0
37.5°	390.0	396.6	413.0	522.8	668.6	626.0	640.8	739.1	801.4	590.0	424.4
40°	570.3	560.5	508.0	575.2	747.3	837.4	932.5	1009.5	1052.1	811.2	486.7
42.5°	688.3	686.7	604.7	663.7	921.0	1034.1	1091.4	1179.9	1255.3	1102.9	594.9
45°	711.2	714.5	642.4	704.7	943.9	1168.5	1252.0	1222.5	1263.5	1301.2	730.9
47.5°	709.6	721.1	663.7	735.8	953.8	1194.7	1345.5	1301.2	1319.2	1366.8	860.4
50°	557.2	563.7	596.5	649.0	812.8	983.3	1106.2	1042.3	1030.8	1132.4	948.9
52.5°	514.6	557.2	650.6	857.1	1042.3	1139.0	1496.2	1425.8	1453.6	1397.9	1112.7
55°	680.1	757.1	893.1	1145.5	1335.6	1945.3	2528.7	2602.4	2658.1	2343.5	1630.6
57.5°	1004.6	1081.6	1209.4	1461.8	1696.2	3020.3	4054.4	3897.1	3675.8	3423.5	2831.8
60°	1386.4	1448.7	1573.2	1886.3	2151.7	3513.6	5257.3	5190.1	4718.1	4847.6	4449.3
62.5°	1630.6	1709.3	1828.9	2220.6	2397.6	3538.2	5483.4	5989.8	5676.8	5791.5	5675.2
64°	1560.1	1706.0	1874.8	2209.1	2307.4	3708.6	5299.9	6157.0	6030.8	5935.7	5947.2
65°	1597.8	1701.1	1848.6	2178.0	2323.8	3784.0	5254.0	6150.4	5988.2	5865.3	5912.8
67.5°	1524.1	1647.0	1773.2	2063.2	2255.0	3911.8	4619.8	5508.0	5391.7	5195.0	5332.7
70°	1447.1	1568.3	1661.7	1874.8	2163.2	3684.0	4283.8	5063.9	4923.0	4609.9	4755.8
72.5°	1442.1	1571.6	1650.3	1815.8	2099.3	3575.9	4020.0	4541.1	4510.0	4151.1	4367.4
75°	1343.8	1445.4	1545.4	1666.7	1981.3	3308.7	3611.9	4042.9	4101.9	3879.0	4174.0
77.5°	1329.1	1427.4	1522.4	1678.1	1938.7	3372.7	3654.5	3838.1	3929.8	3710.2	3898.7
80°	1166.8	1255.3	1355.3	1561.8	1727.3	2961.3	3156.3	3090.8	3154.7	2936.7	2979.3
82.5°	855.5	927.6	1025.9	1202.9	1281.5	2187.8	2364.8	2255.0	2228.8	2038.7	1928.9
85°	539.2	596.5	660.4	840.7	852.2	1327.4	1488.0	1425.8	1371.7	1161.9	976.7
87.5°	339.2	360.5	406.4	501.5	501.5	691.6	719.4	706.3	694.9	622.7	624.4
90°	290.1	301.5	329.4	375.3	378.6	499.8	514.6	519.5	540.8	519.5	547.4
92.5°	293.3	301.5	321.2	355.6	357.3	447.4	457.2	458.9	476.9	462.1	494.9
95°	290.1	298.3	321.2	349.1	347.4	408.1	414.6	426.1	439.2	413.0	442.5
97.5°	288.4	295.0	311.4	336.0	336.0	386.8	385.1	391.7	406.4	381.8	411.3
100°	308.1	309.7	331.0	354.0	344.1	383.5	372.0	376.9	381.8	368.7	393.3
102.5°	317.9	316.3	336.0	365.5	350.7	368.7	354.0	362.2	370.4	354.0	373.6
105°	319.6	319.6	342.5	376.9	362.2	362.2	352.3	357.3	362.2	355.6	383.5
107.5°	334.3	336.0	357.3	391.7	376.9	367.1	350.7	357.3	358.9	362.2	408.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
110°	355.6	355.6	378.6	414.6	404.8	386.8	360.5	362.2	365.5	380.2	435.9
112.5°	376.9	375.3	413.0	457.2	449.0	417.9	386.8	386.8	393.3	413.0	472.0
115°	413.0	408.1	445.8	521.1	521.1	468.7	434.3	439.2	450.7	455.6	524.4
117.5°	544.1	516.2	550.6	639.1	634.2	578.5	521.1	509.7	514.6	540.8	637.5
120°	617.8	591.6	650.6	721.1	722.7	691.6	637.5	626.0	626.0	663.7	752.2
122.5°	629.3	639.1	719.4	789.9	819.4	783.3	755.5	745.7	757.1	821.0	888.2
125°	724.3	722.7	793.2	916.1	939.0	909.5	871.8	868.6	889.9	957.1	988.2
127.5°	881.7	875.1	917.7	1037.4	1053.7	1024.2	1004.6	998.0	1019.3	1078.3	1107.8
130°	1024.2	1017.7	1050.5	1098.0	1112.7	1088.2	1070.1	1042.3	1043.9	1112.7	1168.5
132.5°	1070.1	1075.1	1098.0	1120.9	1124.2	1093.1	1029.2	1002.9	1006.2	1035.7	1094.7
135°	1021.0	1024.2	1050.5	1096.4	1117.7	1060.3	986.6	976.7	984.9	1001.3	1058.7
137.5°	960.3	971.8	1016.1	1053.7	1081.6	1039.0	991.5	965.3	980.0	1024.2	1039.0
140°	986.6	993.1	1029.2	1043.9	1063.6	1030.8	988.2	975.1	981.6	991.5	988.2
142.5°	978.4	991.5	999.7	1002.9	1004.6	981.6	975.1	993.1	1004.6	1004.6	1011.1
145°	1011.1	998.0	988.2	973.4	989.8	973.4	943.9	930.8	934.1	955.4	962.0
147.5°	932.5	929.2	943.9	932.5	927.6	919.4	903.0	870.2	875.1	901.3	894.8
150°	834.1	832.5	819.4	816.1	793.2	814.5	830.9	848.9	853.8	842.3	840.7
152.5°	768.6	771.9	794.8	812.8	835.8	829.2	799.7	752.2	735.8	752.2	763.7
155°	750.6	753.8	750.6	791.5	793.2	763.7	739.1	739.1	730.9	747.3	726.0
157.5°	740.7	742.4	722.7	739.1	739.1	748.9	791.5	796.5	785.0	747.3	744.0
160°	753.8	755.5	739.1	714.5	711.2	712.9	729.3	735.8	732.5	689.9	699.8
162.5°	681.7	678.5	658.8	662.1	667.0	640.8	616.2	617.8	616.2	591.6	601.4
165°	560.5	562.1	586.7	606.4	622.7	621.1	611.3	608.0	616.2	586.7	580.1
167.5°	616.2	614.6	612.9	612.9	621.1	626.0	621.1	622.7	624.4	627.7	622.7
170°	594.9	596.5	599.8	588.3	580.1	575.2	570.3	573.6	570.3	573.6	573.6
172.5°	534.2	534.2	539.2	544.1	547.4	542.4	537.5	535.9	531.0	527.7	524.4
175°	522.8	521.1	522.8	524.4	524.4	521.1	522.8	522.8	524.4	519.5	516.2
177.5°	512.9	512.9	509.7	509.7	508.0	503.1	501.5	498.2	496.6	496.6	491.6
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	62.3	59.0	63.9	63.9	63.9	60.6	57.4	62.3	60.6	62.3	59.0
5°	77.0	73.7	73.7	73.7	72.1	77.0	72.1	72.1	72.1	75.4	77.0
7.5°	80.3	81.9	83.6	83.6	85.2	81.9	81.9	80.3	80.3	80.3	81.9
10°	96.7	98.3	96.7	95.1	96.7	96.7	96.7	95.1	95.1	95.1	93.4
12.5°	106.5	104.9	103.2	103.2	101.6	100.0	101.6	103.2	103.2	109.8	106.5
15°	121.3	118.0	114.7	111.4	113.1	114.7	114.7	113.1	118.0	116.4	118.0
17.5°	127.8	126.2	126.2	124.5	124.5	122.9	122.9	124.5	126.2	126.2	127.8
20°	140.9	140.9	137.7	136.0	137.7	134.4	134.4	136.0	136.0	137.7	137.7
22.5°	155.7	149.1	149.1	150.8	149.1	149.1	145.9	147.5	147.5	150.8	150.8
25°	173.7	167.2	162.2	163.9	170.4	165.5	168.8	167.2	170.4	168.8	165.5
27.5°	214.7	199.9	199.9	209.8	221.2	213.0	206.5	206.5	216.3	224.5	226.2
30°	262.2	249.1	244.2	257.3	272.0	260.6	250.7	254.0	268.8	280.2	283.5
32.5°	314.6	296.6	281.9	277.0	281.9	277.0	278.6	290.1	299.9	303.2	308.1
35°	334.3	316.3	288.4	268.8	258.9	257.3	278.6	298.3	299.9	288.4	291.7
37.5°	376.9	347.4	308.1	290.1	299.9	311.4	336.0	355.6	345.8	331.0	332.7
40°	409.7	385.1	357.3	354.0	365.5	383.5	395.0	398.2	413.0	426.1	435.9
42.5°	485.1	465.4	422.8	419.5	435.9	450.7	437.6	449.0	478.5	498.2	511.3
45°	583.4	550.6	498.2	467.1	494.9	517.9	508.0	524.4	537.5	547.4	560.5
47.5°	681.7	627.7	550.6	531.0	553.9	555.6	534.2	542.4	560.5	576.9	593.2
50°	752.2	691.6	578.5	529.3	527.7	571.9	599.8	622.7	581.8	542.4	540.8
52.5°	852.2	757.1	627.7	591.6	616.2	701.4	775.2	798.1	760.4	722.7	717.8
55°	1157.0	934.1	803.0	850.5	952.1	1037.4	1089.8	1106.2	1150.4	1178.3	1181.6
57.5°	1917.4	1401.2	1163.5	1230.7	1293.0	1293.0	1361.8	1466.7	1592.9	1617.5	1620.8
60°	3259.6	2279.6	1640.4	1576.5	1581.4	1570.0	1833.8	2040.3	2125.5	1971.5	1932.1
62.5°	4529.6	3097.3	1991.1	1769.9	1809.2	1874.8	2258.3	2441.8	2430.3	2289.4	2248.4
64°	5024.6	3410.3	2110.8	1804.3	1828.9	1927.2	2235.3	2330.4	2374.6	2355.0	2314.0
65°	5096.7	3493.9	2140.3	1799.4	1812.5	1910.8	2166.5	2251.7	2318.9	2328.7	2299.2
67.5°	4978.7	3600.4	2191.1	1745.3	1706.0	1799.4	1938.7	2063.2	2174.7	2258.3	2256.6
70°	4672.2	3582.4	2192.7	1728.9	1648.6	1712.5	1776.5	1945.3	2079.6	2135.4	2159.9
72.5°	4349.4	3425.1	1953.4	1617.5	1535.6	1604.4	1671.6	1853.5	1971.5	2004.3	2043.6
75°	4178.9	3290.7	1717.5	1542.1	1494.6	1558.5	1558.5	1707.6	1845.3	1883.0	1937.1
77.5°	3862.7	2997.4	1488.0	1355.3	1324.2	1358.6	1304.5	1412.6	1529.0	1556.9	1599.5
80°	2984.3	2320.5	1183.2	1091.4	1042.3	1040.6	958.7	1034.1	1120.9	1165.2	1193.0
82.5°	1930.5	1501.1	798.1	744.0	703.0	685.0	622.7	647.3	685.0	708.0	716.2
85°	968.5	798.1	498.2	473.6	442.5	434.3	413.0	434.3	442.5	437.6	439.2
87.5°	627.7	539.2	385.1	373.6	339.2	336.0	332.7	358.9	370.4	368.7	376.9
90°	529.3	458.9	352.3	345.8	321.2	317.9	322.8	349.1	360.5	357.3	358.9
92.5°	473.6	429.4	340.9	332.7	304.8	308.1	309.7	331.0	339.2	337.6	327.8
95°	439.2	401.5	342.5	336.0	299.9	306.5	311.4	321.2	316.3	309.7	303.2
97.5°	404.8	368.7	321.2	317.9	306.5	306.5	321.2	308.1	293.3	280.2	270.4
100°	388.4	358.9	321.2	317.9	313.0	313.0	334.3	322.8	296.6	280.2	278.6
102.5°	376.9	360.5	336.0	324.5	316.3	319.6	344.1	357.3	321.2	304.8	296.6
105°	388.4	386.8	365.5	349.1	334.3	345.8	373.6	375.3	355.6	326.1	316.3
107.5°	422.8	427.7	408.1	396.6	383.5	395.0	416.3	398.2	368.7	365.5	360.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	462.1	467.1	453.9	440.8	437.6	452.3	488.4	457.2	411.3	421.2	427.7
112.5°	503.1	514.6	499.8	475.3	475.3	508.0	575.2	590.0	527.7	498.2	496.6
115°	563.7	576.9	558.8	522.8	534.2	586.7	660.4	699.8	647.3	608.0	619.5
117.5°	680.1	701.4	676.8	660.4	668.6	726.0	822.7	852.2	811.2	781.7	798.1
120°	793.2	824.3	814.5	821.0	837.4	903.0	988.2	958.7	914.5	911.2	921.0
122.5°	925.9	930.8	924.3	957.1	999.7	1039.0	1047.2	984.9	937.4	896.4	894.8
125°	1017.7	1032.4	1045.6	1057.0	1034.1	1027.5	1032.4	998.0	947.2	855.5	840.7
127.5°	1124.2	1127.5	1102.9	1047.2	976.7	989.8	1022.6	940.7	898.1	891.5	896.4
130°	1173.4	1148.8	1061.9	968.5	945.6	998.0	1012.8	942.3	924.3	896.4	903.0
132.5°	1091.4	1088.2	1016.1	973.4	942.3	978.4	1014.4	981.6	922.6	822.7	798.1
135°	1076.7	1070.1	1014.4	948.9	899.7	906.3	934.1	960.3	939.0	862.0	840.7
137.5°	1043.9	1037.4	980.0	901.3	916.1	927.6	943.9	955.4	966.9	963.6	952.1
140°	986.6	965.3	930.8	916.1	929.2	971.8	962.0	947.2	957.1	948.9	940.7
142.5°	998.0	978.4	925.9	883.3	870.2	898.1	893.1	896.4	871.8	829.2	824.3
145°	952.1	937.4	899.7	844.0	786.6	806.3	824.3	819.4	806.3	821.0	821.0
147.5°	871.8	853.8	819.4	803.0	767.0	807.9	826.0	809.6	799.7	770.2	762.0
150°	837.4	824.3	785.0	775.2	765.3	768.6	762.0	785.0	780.1	762.0	762.0
152.5°	771.9	775.2	806.3	780.1	748.9	747.3	762.0	776.8	794.8	794.8	796.5
155°	727.6	737.5	768.6	806.3	765.3	794.8	752.2	740.7	765.3	773.5	771.9
157.5°	721.1	712.9	716.2	737.5	719.4	721.1	711.2	712.9	706.3	688.3	681.7
160°	691.6	680.1	670.3	650.6	632.6	624.4	624.4	642.4	668.6	686.7	694.9
162.5°	616.2	622.7	642.4	624.4	632.6	663.7	644.0	653.9	667.0	665.4	668.6
165°	585.1	598.2	614.6	644.0	652.2	637.5	630.9	612.9	591.6	591.6	590.0
167.5°	616.2	604.7	586.7	576.9	576.9	586.7	590.0	575.2	563.7	562.1	560.5
170°	570.3	565.4	557.2	550.6	557.2	557.2	563.7	563.7	570.3	573.6	573.6
172.5°	526.1	527.7	532.6	539.2	539.2	534.2	532.6	532.6	526.1	524.4	526.1
175°	512.9	511.3	506.4	501.5	496.6	490.0	485.1	478.5	473.6	473.6	472.0
177.5°	490.0	486.7	485.1	481.8	480.2	475.3	473.6	468.7	467.1	463.8	462.1
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

(END OF REPORT)