

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: P14207

Luminaire Tested: **ACN/CLB/ARC-080-LED-E-U-33-X-6-X-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14207
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-X-6-X-BK
Description: MCGRAW-EDISON GENERATIONS POST TOP WITH A TYPE III SOLID TOP PRISMATIC REFRACTOR
Light Source: [6] 4000K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13872.2 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U5 - G5

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

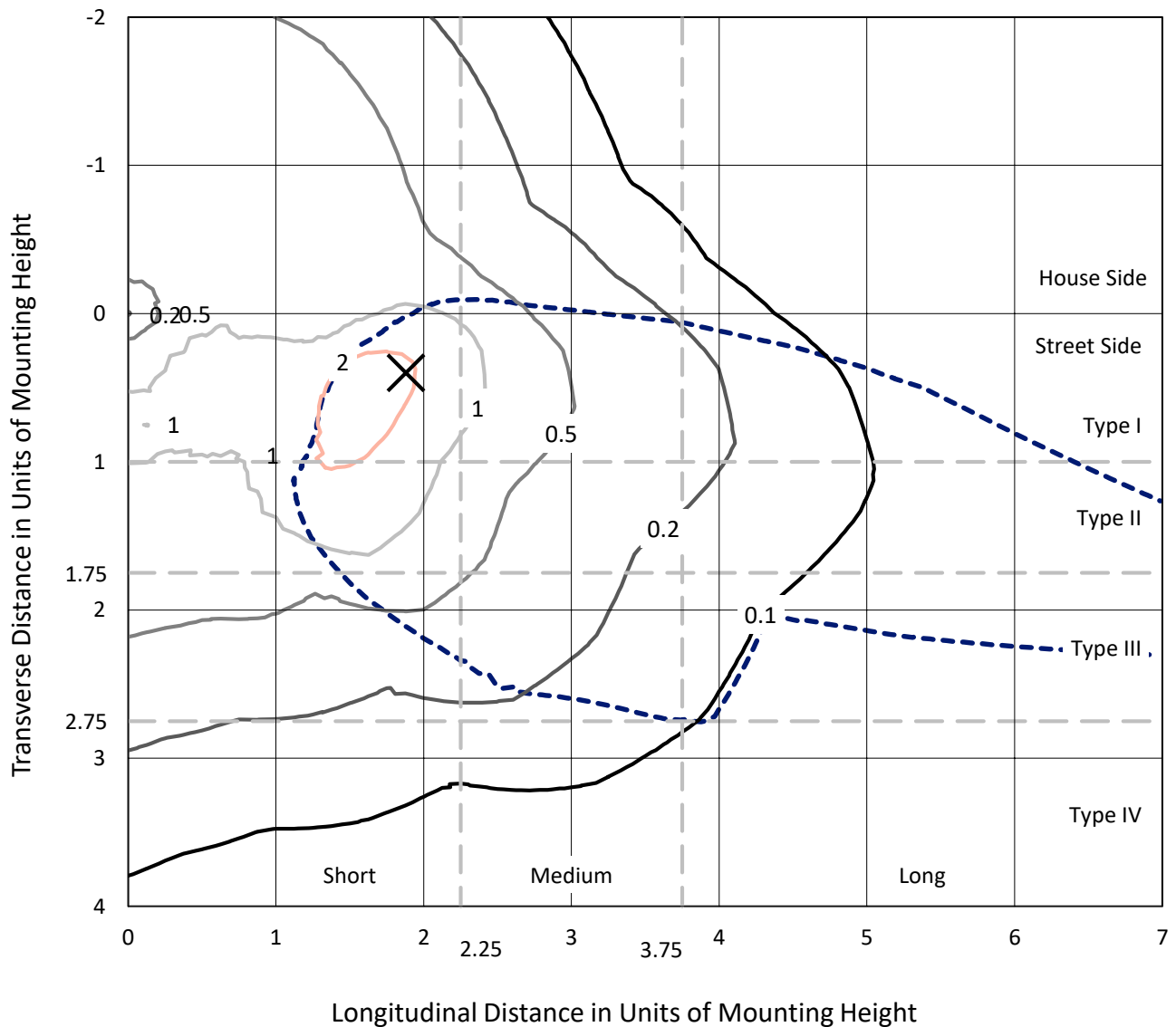


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

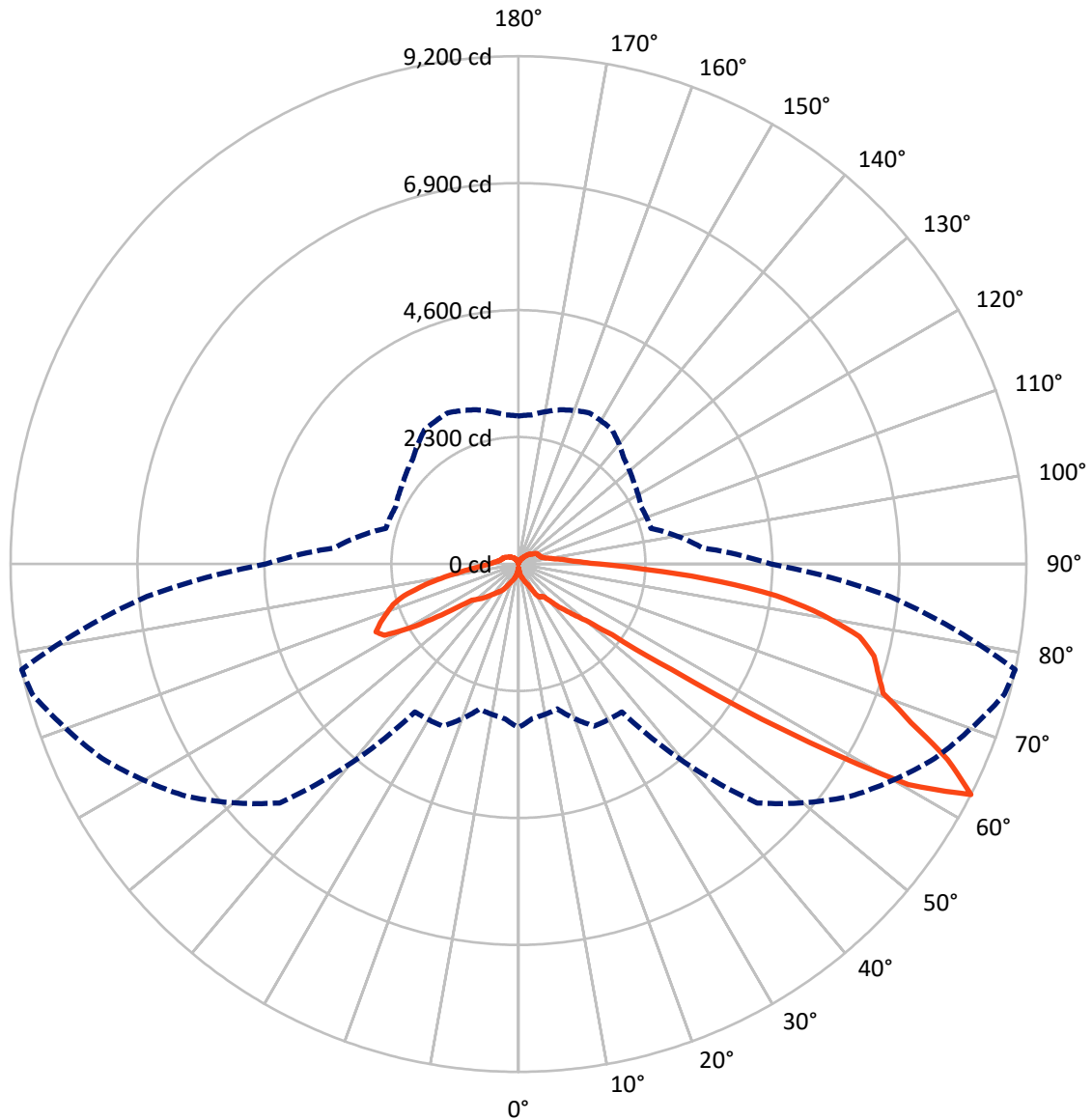


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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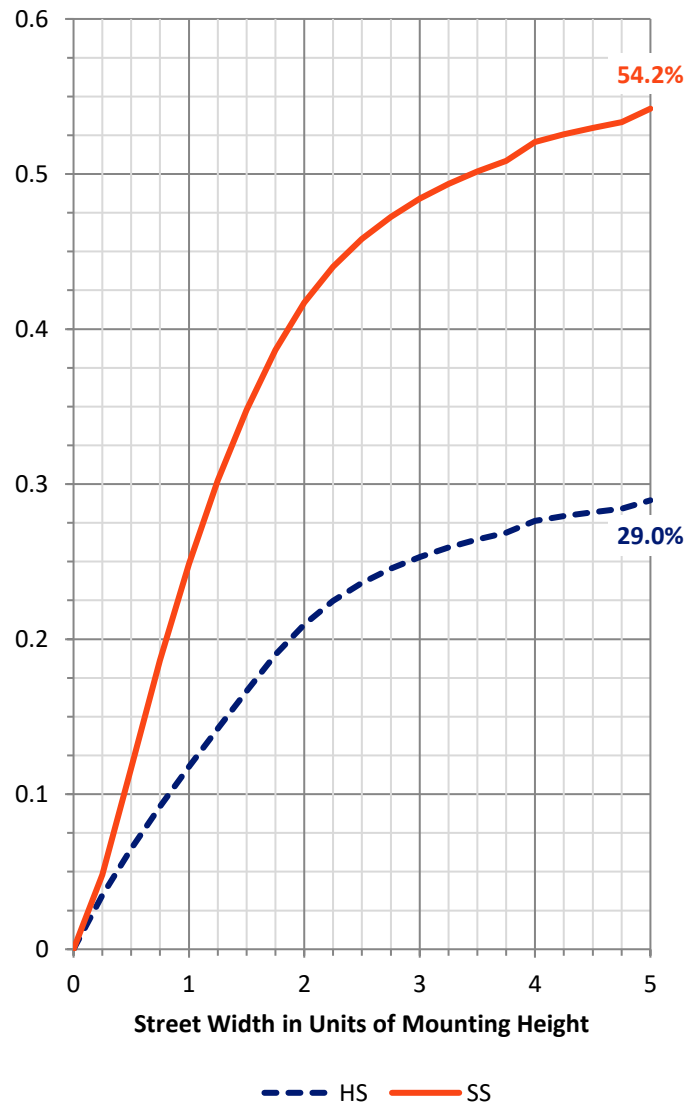
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4225.5	766.6	4992.1
	% Fixture	30.5	5.5	36.0
Street Side	Lumens	7914.4	965.6	8880.1
	% Fixture	57.1	7.0	64.0
Total	Lumens	12140.0	1732.2	13872.2
	% Fixture	87.5	12.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.1
10°-20°	78.7	0.6
20°-30°	219.4	1.6
30°-40°	467.6	3.4
40°-50°	833.3	6.0
50°-60°	1977.4	14.3
60°-70°	3891.9	28.1
70°-80°	3128.8	22.6
80°-90°	1528.8	11.0
90°-100°	569.8	4.1
100°-110°	370.1	2.7
110°-120°	306.7	2.2
120°-130°	216.2	1.6
130°-140°	140.1	1.0
140°-150°	81.2	0.6
150°-160°	36.7	0.3
160°-170°	10.5	0.1
170°-180°	1.0	0.0
0°-90°	12140.0	87.5
0°-180°	13872.2	100.0



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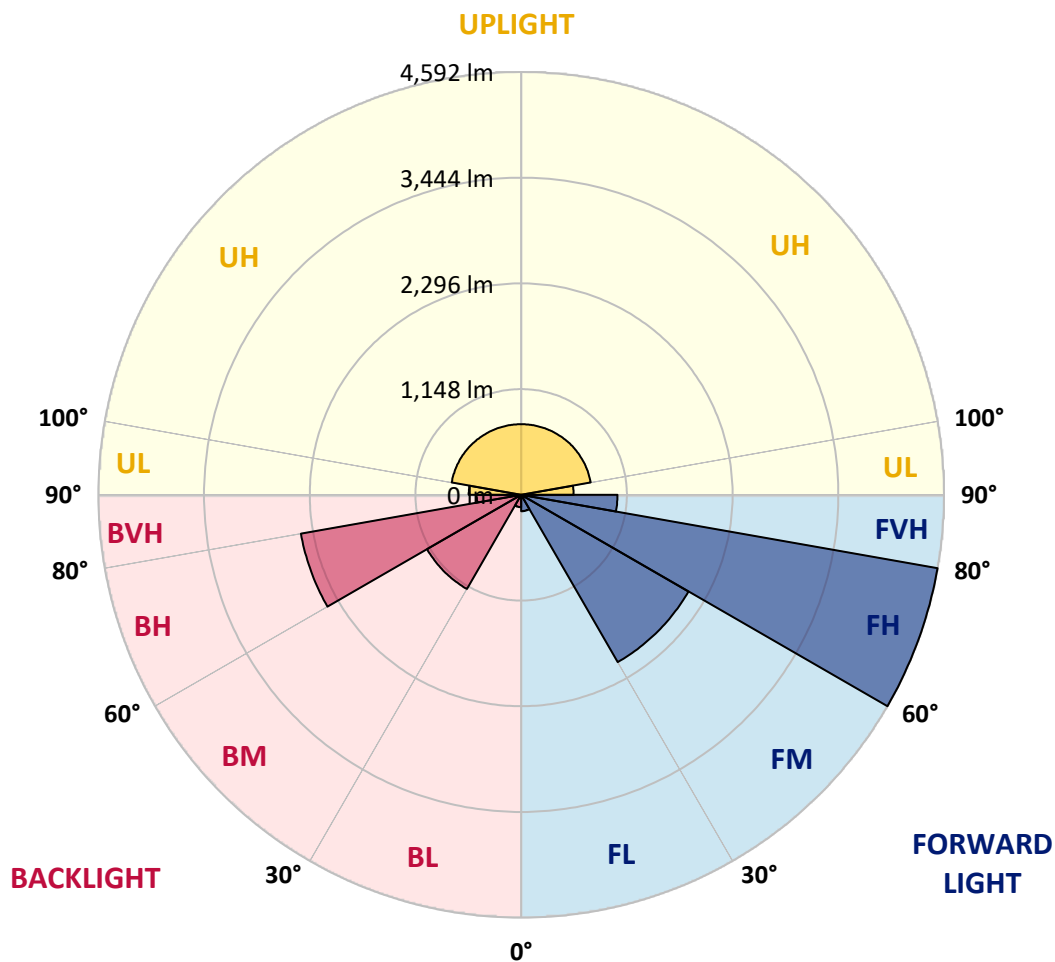
CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-X-6-X-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.2	1.3			
FM (30°-60°)	2098.1	15.1			
FH (60°-80°)	4592.3	33.1			G2/5000
FVH (80°-90°)	1045.8	7.5			G5
BL (0°-30°)	133.9	1.0	B1/500		
BM (30°-60°)	1180.2	8.5	B2/2500		
BH (60°-80°)	2428.4	17.5	B3/2500		G3/2500
BVH (80°-90°)	483.0	3.5			G3/500
UL (90°-100°)	569.8	4.1		U4/1000	
UH (100°-180°)	766.6	5.5		U4/1000	

BUG Rating: B3-U5-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2.5°	91.8	91.8	93.4	91.8	90.1	90.1	88.5	86.9	86.9	85.2	88.5
5°	124.5	124.5	126.2	124.5	124.5	124.5	119.6	116.4	116.4	116.4	121.3
7.5°	173.7	173.7	177.0	172.1	175.4	173.7	173.7	167.2	160.6	160.6	159.0
10°	229.4	227.8	229.4	231.1	226.2	222.9	216.3	213.0	208.1	209.8	203.2
12.5°	265.5	268.8	268.8	268.8	263.8	257.3	247.5	244.2	237.6	236.0	236.0
15°	299.9	301.5	299.9	303.2	301.5	288.4	281.9	273.7	268.8	265.5	263.8
17.5°	339.2	345.8	339.2	344.1	349.1	352.3	355.6	326.1	306.5	301.5	301.5
20°	370.4	368.7	375.3	385.1	411.3	408.1	388.4	376.9	354.0	349.1	344.1
22.5°	426.1	422.8	422.8	434.3	485.1	522.8	476.9	424.4	385.1	378.6	370.4
25°	463.8	455.6	468.7	509.7	542.4	580.1	527.7	473.6	429.4	427.7	422.8
27.5°	571.9	570.3	558.8	603.1	729.3	798.1	758.8	675.2	544.1	522.8	475.3
30°	729.3	724.3	691.6	735.8	875.1	1025.9	1145.5	948.9	703.0	657.2	558.8
32.5°	789.9	788.3	763.7	799.7	939.0	1094.7	1275.0	1012.8	753.8	719.4	644.0
35°	796.5	781.7	768.6	817.8	862.0	998.0	1211.1	965.3	740.7	717.8	691.6
37.5°	789.9	788.3	798.1	878.4	958.7	1006.2	1179.9	1027.5	783.3	753.8	729.3
40°	955.4	945.6	898.1	925.9	1048.8	1096.4	1373.3	1381.5	953.8	875.1	763.7
42.5°	1078.3	1078.3	1029.2	1068.5	1252.0	1294.7	1556.9	1735.5	1155.4	1045.6	871.8
45°	1145.5	1155.4	1107.8	1155.4	1376.6	1381.5	1548.7	1997.7	1347.1	1194.7	971.8
47.5°	1230.7	1222.5	1165.2	1225.8	1517.5	1583.1	1683.0	2440.2	1637.2	1399.5	1091.4
50°	1143.9	1132.4	1132.4	1175.0	1417.6	1529.0	1568.3	2212.4	1878.1	1632.2	1230.7
52.5°	1160.3	1196.3	1229.1	1376.6	1650.3	1958.4	1948.5	2546.7	2481.1	2128.8	1484.8
55°	1512.6	1548.7	1514.3	1706.0	2027.2	2935.1	3120.3	4156.0	3990.5	3362.8	2038.7
57.5°	2158.3	2184.5	2027.2	2250.1	2414.0	4452.6	5255.6	6920.7	6717.4	5706.3	3141.6
60°	2704.0	2618.8	2479.5	2807.3	2904.0	5434.3	6792.8	8197.3	8716.8	8117.0	4865.6
62.5°	2964.6	2812.2	2718.8	3241.5	3269.4	6120.9	7338.5	8326.7	9116.6	9200.2	6755.1
65°	2790.9	2630.3	2572.9	3110.4	3148.1	6429.0	7148.4	7286.1	8274.3	8541.4	7407.4
67.5°	2558.2	2418.9	2355.0	2858.1	2995.7	6265.1	6914.1	6337.2	7497.5	7671.2	6940.3
70°	2453.3	2287.8	2189.4	2563.1	2810.5	5532.6	6252.0	5545.7	6814.1	7007.5	6194.7
72.5°	2366.4	2196.0	2102.6	2438.5	2681.1	4819.7	5535.9	5045.9	6522.4	6817.4	6001.3
75°	2418.9	2202.5	2074.7	2394.3	2566.4	4419.8	5063.9	4816.4	6283.2	6653.5	5862.0
77.5°	2350.0	2123.9	1940.3	2225.5	2277.9	3841.3	4719.7	4642.7	6068.5	6319.2	5275.3
80°	2097.7	1914.1	1722.4	1974.8	1886.3	3118.6	4060.9	4203.5	5503.1	5583.4	4267.4
82.5°	1753.5	1643.7	1442.1	1655.2	1519.2	2355.0	3359.5	3677.5	4837.7	4708.3	3177.6
85°	1216.0	1198.0	1061.9	1243.8	1139.0	1622.4	2217.3	2643.4	3611.9	3402.1	2053.4
87.5°	807.9	816.1	747.3	853.8	829.2	1089.8	1306.1	1574.9	2277.9	2105.9	1327.4
90°	621.1	612.9	580.1	649.0	671.9	852.2	960.3	1016.1	1365.1	1307.8	973.4
92.5°	544.1	532.6	504.8	557.2	581.8	727.6	811.2	794.8	1011.1	993.1	775.2
95°	498.2	486.7	465.4	511.3	516.2	634.2	717.8	685.0	832.5	826.0	670.3
97.5°	445.8	435.9	416.3	450.7	453.9	555.6	617.8	583.4	663.7	662.1	552.3
100°	403.1	398.2	380.2	406.4	408.1	488.4	544.1	506.4	562.1	568.7	493.3
102.5°	363.8	360.5	347.4	367.1	368.7	427.7	475.3	435.9	485.1	491.6	439.2
105°	337.6	331.0	321.2	342.5	344.1	396.6	429.4	390.0	442.5	452.3	406.4
107.5°	313.0	309.7	308.1	334.3	329.4	372.0	391.7	358.9	408.1	419.5	385.1
110°	295.0	291.7	293.3	313.0	313.0	358.9	372.0	354.0	401.5	408.1	381.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
112.5°	281.9	280.2	277.0	295.0	296.6	362.2	372.0	360.5	403.1	411.3	381.8
115°	277.0	270.4	262.2	278.6	272.0	344.1	350.7	345.8	383.5	388.4	357.3
117.5°	260.6	258.9	255.7	263.8	267.1	336.0	342.5	342.5	380.2	388.4	358.9
120°	242.5	244.2	242.5	257.3	254.0	319.6	322.8	327.8	365.5	376.9	350.7
122.5°	229.4	227.8	226.2	236.0	239.3	293.3	296.6	308.1	340.9	345.8	321.2
125°	211.4	209.8	209.8	213.0	226.2	270.4	272.0	280.2	308.1	311.4	286.8
127.5°	201.6	199.9	199.9	206.5	216.3	257.3	258.9	262.2	283.5	288.4	273.7
130°	191.7	190.1	188.5	193.4	208.1	247.5	245.8	252.4	272.0	277.0	255.7
132.5°	178.6	178.6	175.4	183.5	198.3	232.7	227.8	236.0	255.7	252.4	234.3
135°	165.5	167.2	165.5	168.8	181.9	208.1	208.1	213.0	229.4	224.5	209.8
137.5°	150.8	149.1	149.1	150.8	162.2	183.5	186.8	191.7	196.7	191.7	181.9
140°	147.5	150.8	145.9	147.5	157.3	175.4	178.6	183.5	181.9	178.6	167.2
142.5°	140.9	137.7	132.7	134.4	145.9	162.2	167.2	167.2	160.6	155.7	147.5
145°	122.9	122.9	121.3	124.5	137.7	147.5	154.0	150.8	140.9	136.0	132.7
147.5°	111.4	108.2	108.2	116.4	126.2	137.7	137.7	132.7	122.9	121.3	118.0
150°	100.0	100.0	98.3	106.5	116.4	122.9	122.9	121.3	111.4	106.5	103.2
152.5°	88.5	90.1	90.1	100.0	104.9	114.7	108.2	101.6	95.1	90.1	86.9
155°	77.0	73.7	75.4	83.6	90.1	88.5	86.9	80.3	75.4	73.7	73.7
157.5°	70.5	67.2	70.5	77.0	80.3	80.3	75.4	70.5	65.6	63.9	67.2
160°	57.4	59.0	60.6	65.6	67.2	65.6	63.9	59.0	54.1	55.7	55.7
162.5°	47.5	49.2	49.2	52.4	54.1	50.8	49.2	44.2	42.6	45.9	42.6
165°	37.7	39.3	39.3	41.0	42.6	37.7	34.4	31.1	32.8	31.1	32.8
167.5°	27.9	27.9	29.5	29.5	29.5	26.2	21.3	22.9	22.9	21.3	22.9
170°	18.0	19.7	19.7	18.0	18.0	14.7	13.1	11.5	13.1	11.5	13.1
172.5°	13.1	11.5	13.1	11.5	11.5	9.8	9.8	9.8	8.2	8.2	8.2
175°	14.7	13.1	11.5	13.1	11.5	11.5	8.2	8.2	8.2	9.8	8.2
177.5°	13.1	9.8	11.5	11.5	9.8	8.2	8.2	6.6	6.6	8.2	8.2
180°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2.5°	85.2	88.5	86.9	86.9	86.9	83.6	85.2	86.9	85.2	83.6	88.5
5°	116.4	119.6	118.0	118.0	118.0	114.7	113.1	111.4	111.4	113.1	111.4
7.5°	157.3	155.7	154.0	150.8	149.1	147.5	145.9	145.9	144.2	144.2	147.5
10°	201.6	196.7	195.0	190.1	186.8	185.2	183.5	183.5	183.5	185.2	180.3
12.5°	231.1	226.2	224.5	219.6	214.7	211.4	209.8	209.8	209.8	211.4	213.0
15°	262.2	260.6	255.7	249.1	242.5	242.5	239.3	239.3	242.5	244.2	240.9
17.5°	295.0	293.3	288.4	280.2	277.0	273.7	273.7	272.0	275.3	278.6	278.6
20°	331.0	321.2	314.6	309.7	306.5	301.5	303.2	301.5	306.5	308.1	306.5
22.5°	367.1	362.2	352.3	345.8	344.1	334.3	334.3	336.0	339.2	342.5	344.1
25°	408.1	396.6	386.8	380.2	368.7	367.1	370.4	370.4	376.9	376.9	373.6
27.5°	457.2	452.3	445.8	437.6	427.7	424.4	422.8	427.7	431.0	429.4	429.4
30°	517.9	511.3	514.6	509.7	503.1	485.1	480.2	486.7	494.9	499.8	498.2
32.5°	594.9	583.4	562.1	552.3	539.2	534.2	531.0	535.9	545.7	555.6	555.6
35°	647.3	629.3	601.4	563.7	549.0	549.0	560.5	568.7	576.9	575.2	578.5
37.5°	694.9	681.7	640.8	591.6	581.8	591.6	614.6	626.0	624.4	608.0	603.1
40°	744.0	734.2	691.6	655.5	653.9	655.5	660.4	676.8	686.7	691.6	691.6
42.5°	817.8	803.0	747.3	721.1	721.1	712.9	721.1	739.1	765.3	785.0	786.6
45°	907.9	891.5	809.6	763.7	763.7	763.7	789.9	817.8	834.1	829.2	826.0
47.5°	1007.9	986.6	885.0	845.6	852.2	834.1	860.4	885.0	922.6	929.2	934.1
50°	1102.9	1068.5	943.9	881.7	871.8	881.7	924.3	952.1	960.3	955.4	957.1
52.5°	1270.1	1189.8	1009.5	960.3	968.5	1006.2	1060.3	1083.2	1080.0	1057.0	1055.4
55°	1625.7	1443.8	1260.2	1263.5	1294.7	1348.7	1412.6	1432.3	1461.8	1437.2	1456.9
57.5°	2261.5	1912.5	1689.6	1786.3	1825.6	1828.9	1874.8	1930.5	2032.1	2081.3	2099.3
60°	3279.2	2592.6	2148.5	2227.1	2276.3	2307.4	2458.2	2554.9	2561.4	2509.0	2509.0
62.5°	4573.9	3346.4	2487.7	2453.3	2556.5	2702.4	2964.6	3023.6	2892.5	2710.6	2681.1
65°	5296.6	3716.8	2492.6	2472.9	2664.7	2843.3	3072.8	3023.6	2866.3	2705.7	2684.4
67.5°	5224.5	3654.5	2305.8	2345.1	2558.2	2668.0	2792.5	2718.8	2661.4	2533.6	2545.1
70°	4813.2	3449.7	2158.3	2163.2	2251.7	2307.4	2427.1	2412.3	2443.5	2304.2	2312.3
72.5°	4541.1	3225.2	2035.4	1987.9	1996.1	2073.1	2233.7	2274.7	2315.6	2164.9	2161.6
75°	4247.8	2884.3	1832.2	1773.2	1804.3	1866.6	2007.5	2060.0	2123.9	2001.0	2001.0
77.5°	3505.4	2292.7	1568.3	1591.3	1637.2	1642.1	1694.5	1765.0	1853.5	1786.3	1781.4
80°	2628.6	1720.7	1296.3	1360.2	1414.3	1345.5	1340.5	1394.6	1494.6	1483.1	1491.3
82.5°	1848.6	1217.6	1017.7	1101.3	1161.9	1071.8	1040.6	1055.4	1132.4	1145.5	1152.1
85°	1235.7	889.9	778.4	811.2	837.4	788.3	775.2	778.4	798.1	783.3	785.0
87.5°	916.1	699.8	621.1	626.0	619.5	594.9	596.5	601.4	599.8	580.1	576.9
90°	708.0	563.7	531.0	531.0	516.2	503.1	504.8	512.9	511.3	499.8	501.5
92.5°	588.3	483.4	475.3	472.0	453.9	447.4	457.2	463.8	460.5	450.7	445.8
95°	527.7	445.8	432.6	422.8	406.4	403.1	409.7	414.6	414.6	404.8	404.8
97.5°	455.6	395.0	385.1	373.6	352.3	352.3	357.3	358.9	360.5	355.6	350.7
100°	406.4	362.2	358.9	342.5	327.8	327.8	332.7	336.0	336.0	327.8	326.1
102.5°	375.3	337.6	336.0	321.2	309.7	308.1	313.0	316.3	313.0	308.1	313.0
105°	355.6	321.2	319.6	308.1	299.9	298.3	303.2	304.8	304.8	296.6	295.0
107.5°	342.5	313.0	304.8	299.9	290.1	290.1	299.9	301.5	301.5	290.1	290.1
110°	336.0	306.5	296.6	295.0	295.0	296.6	308.1	314.6	317.9	306.5	308.1



REPORT NUMBER: P14207

CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-X-6-X-BK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	339.2	306.5	293.3	301.5	306.5	316.3	329.4	337.6	342.5	331.0	329.4
115°	316.3	280.2	272.0	281.9	301.5	309.7	319.6	317.9	321.2	313.0	313.0
117.5°	309.7	275.3	262.2	272.0	286.8	286.8	290.1	286.8	288.4	280.2	280.2
120°	298.3	270.4	244.2	250.7	254.0	255.7	255.7	254.0	254.0	247.5	244.2
122.5°	283.5	255.7	232.7	237.6	237.6	236.0	237.6	236.0	236.0	229.4	226.2
125°	262.2	237.6	216.3	221.2	221.2	218.0	216.3	216.3	216.3	213.0	216.3
127.5°	249.1	226.2	204.8	203.2	206.5	206.5	206.5	204.8	203.2	201.6	201.6
130°	237.6	216.3	193.4	193.4	191.7	193.4	191.7	190.1	190.1	188.5	188.5
132.5°	221.2	203.2	178.6	178.6	178.6	177.0	177.0	175.4	173.7	173.7	172.1
135°	203.2	186.8	167.2	165.5	167.2	165.5	163.9	162.2	162.2	160.6	162.2
137.5°	173.7	165.5	150.8	145.9	144.2	145.9	144.2	142.6	144.2	140.9	140.9
140°	165.5	157.3	147.5	140.9	139.3	139.3	137.7	140.9	139.3	140.9	140.9
142.5°	145.9	145.9	136.0	131.1	131.1	132.7	126.2	126.2	126.2	126.2	126.2
145°	136.0	136.0	129.5	121.3	119.6	116.4	114.7	114.7	114.7	113.1	118.0
147.5°	119.6	121.3	118.0	111.4	104.9	101.6	101.6	100.0	100.0	101.6	100.0
150°	106.5	108.2	104.9	98.3	93.4	90.1	90.1	86.9	88.5	86.9	88.5
152.5°	90.1	91.8	90.1	85.2	83.6	80.3	78.7	77.0	78.7	75.4	75.4
155°	72.1	73.7	75.4	72.1	67.2	63.9	62.3	62.3	63.9	62.3	62.3
157.5°	65.6	65.6	67.2	65.6	62.3	59.0	60.6	59.0	57.4	59.0	59.0
160°	55.7	54.1	57.4	55.7	54.1	50.8	54.1	50.8	49.2	47.5	50.8
162.5°	44.2	42.6	44.2	44.2	44.2	42.6	41.0	39.3	39.3	37.7	36.1
165°	32.8	32.8	34.4	34.4	34.4	32.8	31.1	29.5	31.1	31.1	29.5
167.5°	21.3	22.9	22.9	22.9	22.9	21.3	22.9	19.7	21.3	19.7	19.7
170°	13.1	13.1	14.7	14.7	14.7	13.1	13.1	11.5	11.5	11.5	11.5
172.5°	8.2	8.2	11.5	13.1	11.5	9.8	8.2	6.6	8.2	8.2	9.8
175°	9.8	11.5	13.1	11.5	13.1	11.5	8.2	8.2	8.2	8.2	9.8
177.5°	6.6	9.8	8.2	9.8	11.5	9.8	8.2	6.6	8.2	6.6	6.6
180°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8

(END OF REPORT)