

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: INVUE

Report Number: P401275

Luminaire Tested: **ENV-SA1C-730-U-SLL-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-730-U-SLL-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3089 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

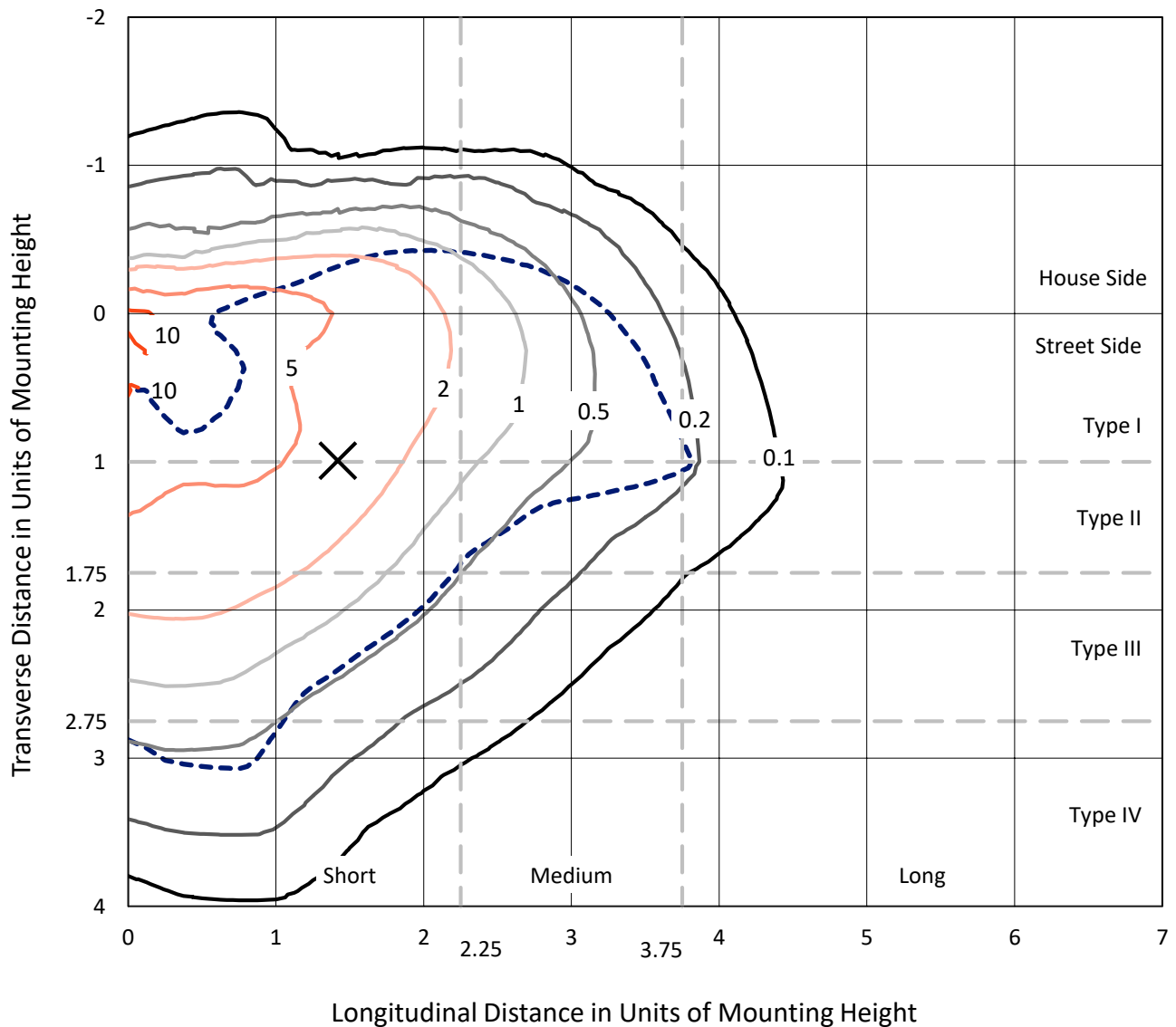
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

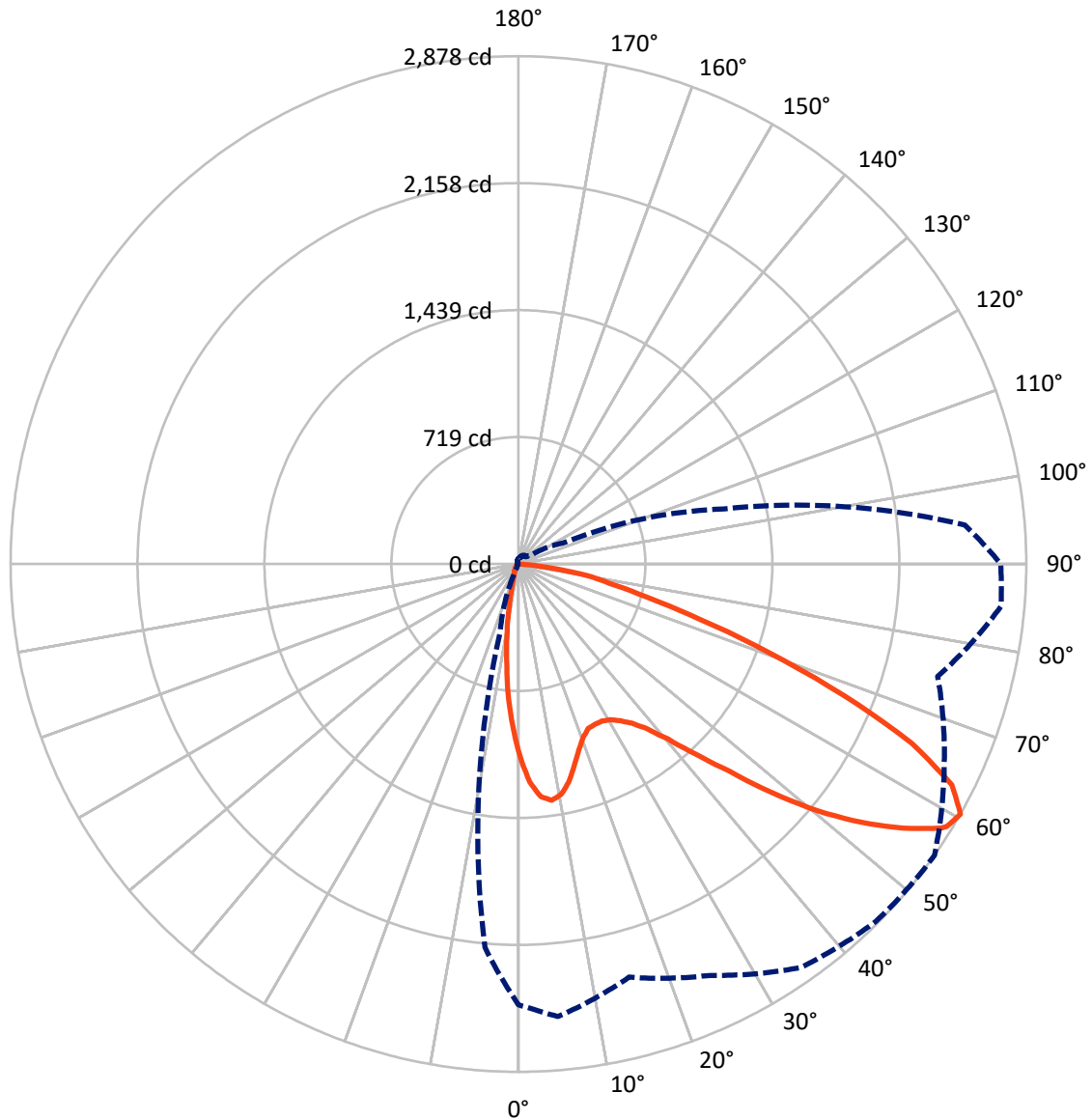
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.0	0.0	547.0
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	2542.0	0.0	2542.0
	% Fixture	82.3	0.0	82.3
Total	Lumens	3089.0	0.0	3089.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	2.7
10°-20°	156.1	5.1
20°-30°	222.7	7.2
30°-40°	326.7	10.6
40°-50°	481.7	15.6
50°-60°	713.6	23.1
60°-70°	760.4	24.6
70°-80°	315.4	10.2
80°-90°	30.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3089.0	100.0
0°-180°	3089.0	100.0



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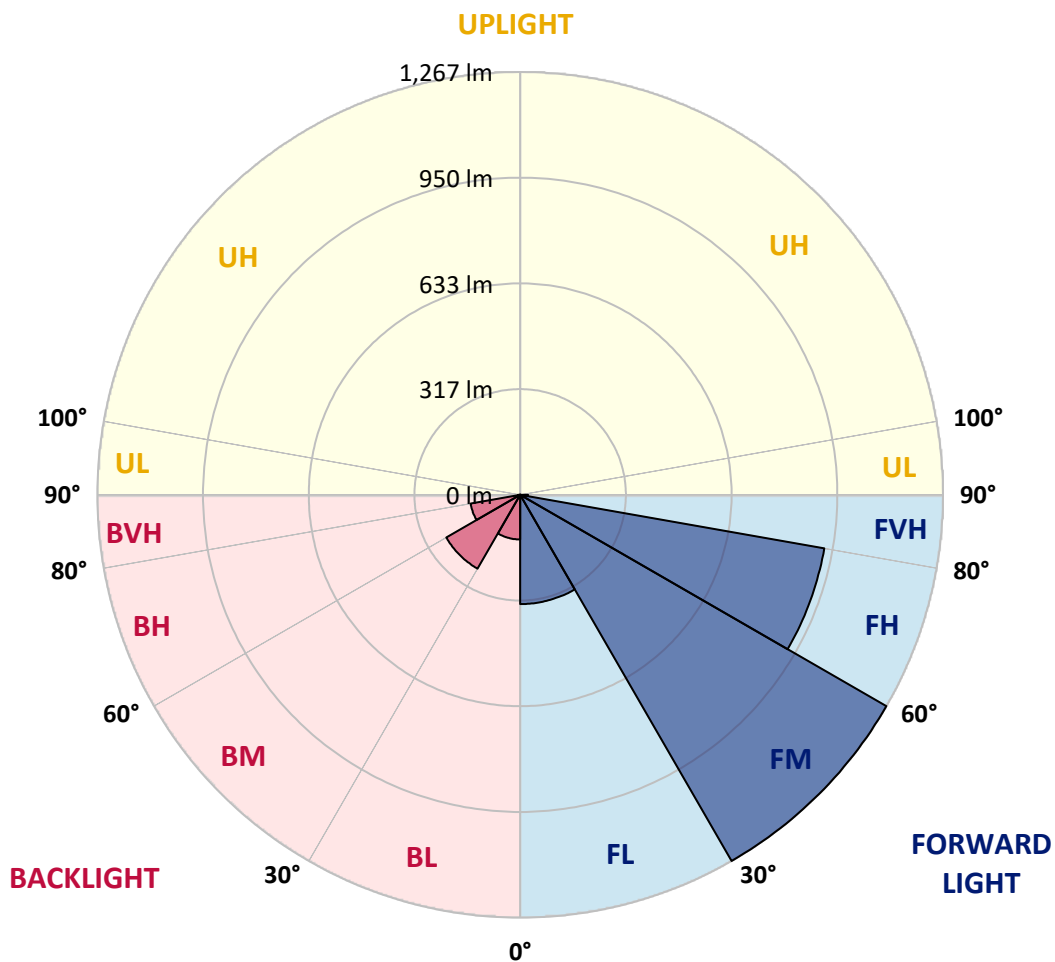
CATALOG NUMBER: ENV-SA1C-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.2	10.6			
FM	(30°-60°)	1266.5	41.0			
FH	(60°-80°)	925.0	29.9			G1/1800
FVH	(80°-90°)	23.2	0.8			G1/100
BL	(0°-30°)	133.7	4.3	B1/500		
BM	(30°-60°)	255.4	8.3	B1/1000		
BH	(60°-80°)	150.8	4.9	B1/500		G1/500
BVH	(80°-90°)	7.1	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1139.4	1137.6	1154.0	1187.8	1208.9	1221.7	1224.0	1237.5	1224.0	1217.0	1191.9
5°	1106.1	1105.5	1137.0	1211.2	1271.9	1317.5	1339.7	1324.5	1301.1	1255.0	1198.9
7.5°	1013.8	1013.8	1073.4	1172.7	1274.3	1353.1	1380.0	1351.9	1296.5	1203.6	1103.2
10°	938.5	945.5	1002.7	1121.3	1234.0	1320.4	1350.2	1328.6	1256.2	1135.9	1017.9
12.5°	893.5	897.6	961.2	1080.4	1185.5	1255.6	1273.7	1267.3	1214.7	1083.9	958.9
15°	897.6	903.4	976.4	1074.0	1142.3	1170.3	1176.7	1184.9	1163.3	1062.9	939.6
17.5°	961.8	965.9	1039.5	1102.6	1099.7	1090.9	1093.2	1106.7	1132.4	1080.4	978.8
20°	1064.6	1075.1	1149.3	1150.5	1077.5	1036.6	1026.1	1048.3	1117.8	1126.5	1062.3
22.5°	1196.6	1200.7	1276.0	1231.1	1079.8	999.2	986.9	1012.1	1122.4	1201.3	1177.9
25°	1349.6	1364.2	1405.1	1335.6	1113.7	994.0	985.8	1006.8	1139.4	1280.7	1297.0
27.5°	1453.0	1464.6	1503.8	1406.8	1144.0	996.9	981.7	1007.4	1159.8	1355.4	1424.4
30°	1545.2	1553.4	1568.0	1444.2	1178.5	1011.5	986.9	1023.7	1170.9	1371.2	1506.7
32.5°	1632.3	1642.2	1633.4	1489.2	1216.5	1038.9	996.9	1058.2	1194.8	1402.7	1578.5
35°	1744.4	1745.0	1715.2	1534.1	1259.7	1071.6	1026.1	1107.2	1241.6	1451.8	1655.6
37.5°	1877.5	1878.7	1803.4	1580.3	1308.7	1126.5	1095.0	1183.2	1309.3	1508.4	1766.0
40°	1993.7	1998.4	1898.6	1633.4	1368.9	1233.4	1230.5	1303.5	1396.3	1583.8	1884.5
42.5°	2094.8	2108.2	1986.2	1677.8	1454.1	1397.5	1404.5	1471.1	1502.0	1646.9	1958.1
45°	2197.0	2196.4	2058.0	1722.2	1596.6	1608.9	1675.5	1672.5	1621.7	1680.7	2015.9
47.5°	2260.6	2257.7	2101.8	1794.6	1788.8	1906.1	1976.8	1938.3	1754.3	1716.9	2088.4
50°	2285.2	2284.0	2136.2	1886.9	1984.4	2175.4	2276.4	2199.3	1916.7	1777.7	2174.8
52.5°	2354.7	2348.8	2215.7	1992.0	2161.3	2434.7	2518.2	2432.3	2078.4	1886.9	2275.2
55°	2463.3	2465.0	2352.3	2115.2	2303.3	2617.4	2719.6	2643.1	2243.7	2037.0	2413.1
57.5°	2536.3	2541.5	2503.6	2252.5	2455.1	2745.3	2844.6	2823.0	2463.9	2216.2	2574.8
58°	2543.3	2547.4	2527.5	2278.7	2477.9	2759.9	2861.6	2846.4	2512.3	2273.5	2613.4
60°	2498.3	2510.6	2574.2	2423.6	2571.9	2790.9	2864.5	2877.9	2662.4	2459.2	2745.3
62.5°	2376.3	2380.3	2496.0	2585.9	2636.1	2714.4	2721.4	2756.4	2724.3	2677.0	2863.3
65°	2226.8	2226.8	2351.7	2593.5	2469.7	2456.8	2416.0	2451.0	2543.9	2813.7	2855.1
67.5°	1966.9	1968.6	2128.1	2310.3	2047.5	2003.1	1976.8	1989.7	2187.6	2699.8	2696.3
70°	1589.6	1588.5	1752.6	1870.5	1519.5	1481.6	1513.1	1509.0	1777.1	2399.0	2354.1
72.5°	1124.2	1134.1	1302.9	1444.8	1031.9	889.4	1028.4	1082.1	1336.8	2022.4	1821.5
75°	633.0	646.5	784.3	1003.9	651.1	601.5	672.8	749.3	966.5	1610.1	1223.5
77.5°	317.7	322.9	401.8	483.0	394.8	458.4	454.3	527.3	662.8	1086.2	699.6
80°	183.4	193.9	220.7	249.4	220.7	290.8	337.5	397.1	408.2	561.8	390.1
82.5°	73.6	82.3	103.4	117.4	91.7	86.4	59.0	185.7	245.9	271.6	149.5
85°	0.0	0.0	0.6	1.2	1.8	1.8	2.9	32.7	60.2	13.4	24.5
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	2.3	4.1	5.3	6.4	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1182.6	1176.2	1154.5	1121.8	1101.4	1069.9	1057.0	1027.2	1012.1	986.9	986.9
5°	1170.9	1144.6	1090.3	1019.6	969.4	916.9	899.9	864.9	839.8	810.0	797.7
7.5°	1064.6	1027.8	943.1	860.8	780.8	727.7	675.1	639.5	605.6	581.1	584.6
10°	967.1	914.5	821.7	717.1	634.2	578.7	531.4	490.0	454.9	420.5	415.2
12.5°	903.4	843.3	732.3	620.2	558.3	517.4	473.6	428.1	384.8	346.9	331.7
15°	876.6	811.2	687.4	581.7	525.0	472.4	421.6	365.6	315.9	270.4	258.1
17.5°	905.8	827.5	683.3	556.0	477.1	411.1	340.5	279.1	220.7	188.0	178.1
20°	985.2	883.6	696.7	530.3	424.0	338.7	252.3	182.8	150.1	130.2	123.8
22.5°	1100.2	976.4	719.5	505.2	370.3	252.3	174.0	132.0	112.7	102.2	99.3
25°	1225.2	1096.2	761.5	484.1	316.5	187.5	129.1	108.0	96.4	88.8	85.8
27.5°	1366.0	1214.7	812.9	468.4	266.9	150.1	111.0	95.2	85.8	80.6	78.3
30°	1454.1	1300.0	852.0	440.3	233.0	136.7	105.7	89.9	80.0	75.9	74.2
32.5°	1535.3	1367.1	889.4	408.2	207.3	120.9	102.8	94.6	82.9	74.8	71.2
35°	1624.7	1436.0	907.5	388.9	190.4	105.1	84.7	73.6	67.2	66.0	64.2
37.5°	1757.8	1517.8	919.2	378.4	179.9	95.8	78.8	66.6	59.0	52.0	49.1
40°	1884.0	1602.5	925.0	368.5	174.6	89.9	75.3	63.1	54.9	48.5	45.6
42.5°	1982.6	1679.6	928.5	361.5	165.3	86.4	72.4	60.7	52.0	45.6	42.6
45°	2063.2	1768.9	925.6	359.2	157.7	88.8	71.2	59.0	49.6	43.2	40.3
47.5°	2142.1	1865.9	936.7	356.2	150.1	85.3	71.8	58.4	47.9	41.5	38.5
50°	2245.4	1983.2	977.0	348.1	144.8	80.0	77.7	59.0	47.3	40.3	38.0
52.5°	2379.2	2145.6	1050.0	339.3	138.4	75.3	81.2	59.0	46.1	39.1	36.2
55°	2541.5	2327.8	1130.6	326.5	127.3	69.5	77.7	59.0	45.0	38.5	35.0
57.5°	2674.1	2490.1	1194.3	311.3	106.9	62.5	71.2	56.6	42.0	36.2	33.3
58°	2685.8	2508.8	1203.0	307.2	104.5	61.3	69.5	56.1	40.9	35.6	32.7
60°	2733.1	2539.2	1206.5	285.0	87.0	58.4	60.2	54.3	38.5	33.3	31.0
62.5°	2716.7	2438.7	1132.4	245.9	77.7	53.1	50.2	55.5	35.6	30.4	28.0
65°	2635.6	2241.4	992.2	220.2	78.3	47.3	43.2	48.5	32.7	27.4	25.1
67.5°	2442.2	1941.8	805.9	206.1	81.8	42.0	37.4	36.2	29.2	24.5	22.8
70°	2083.1	1591.4	610.9	193.9	86.4	37.4	34.5	32.1	26.9	22.8	20.4
72.5°	1534.1	1178.5	444.4	181.6	84.1	33.3	32.1	29.2	24.5	20.4	19.3
75°	957.2	684.4	304.3	148.3	75.3	29.2	29.8	27.4	22.2	19.3	17.5
77.5°	558.9	480.6	150.1	110.4	52.0	25.7	26.3	25.1	22.8	18.1	16.9
80°	334.6	299.0	64.2	47.3	28.6	22.8	22.2	23.4	21.6	16.9	15.8
82.5°	144.8	129.6	31.0	26.3	23.4	19.9	19.3	19.9	18.7	14.0	13.4
85°	8.2	21.6	14.6	19.3	17.5	14.6	14.6	15.2	13.4	11.1	11.1
87.5°	7.6	16.4	9.3	11.7	12.8	11.1	11.7	11.7	11.1	9.9	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	973.5	967.1	947.8	940.8	910.4	918.0	920.4	917.4	918.6	921.0	929.7
5°	806.5	796.0	770.9	754.5	745.8	739.9	712.5	713.1	717.1	701.4	721.8
7.5°	572.9	584.6	586.9	571.7	562.4	542.5	517.4	503.4	479.5	492.9	495.8
10°	410.0	404.1	415.2	410.0	395.4	387.8	360.9	358.6	356.2	354.5	371.4
12.5°	312.4	294.9	282.1	285.0	273.9	255.2	250.5	251.1	253.5	253.5	258.1
15°	247.6	220.7	200.3	188.0	189.8	171.1	165.9	148.3	146.0	140.7	141.9
17.5°	173.4	162.3	150.1	136.1	130.2	113.3	92.9	83.5	76.5	77.7	81.2
20°	119.7	115.0	111.5	104.5	98.7	78.8	66.0	61.9	61.3	62.5	63.7
22.5°	96.4	91.7	88.2	85.8	78.3	63.7	56.6	53.7	53.7	53.7	54.3
25°	82.9	78.3	73.6	73.6	66.6	55.5	50.2	47.9	47.3	46.7	47.9
27.5°	77.1	70.7	66.0	63.1	57.8	49.1	44.4	42.0	41.5	41.5	42.0
30°	71.2	64.8	60.2	56.1	50.2	43.8	39.1	37.4	36.2	36.2	36.8
32.5°	67.7	61.3	55.5	50.2	43.8	38.5	34.5	32.1	31.0	31.5	32.1
35°	60.2	54.9	49.6	44.4	38.5	33.9	29.8	27.4	26.9	26.9	27.4
37.5°	47.3	43.2	42.0	39.1	33.9	29.2	25.1	22.8	22.2	22.2	22.8
40°	42.6	37.4	35.0	33.9	31.0	25.1	20.4	18.1	18.1	17.5	18.7
42.5°	39.1	33.9	29.8	28.6	26.9	21.6	16.4	14.6	14.0	14.0	14.6
45°	36.8	31.0	25.7	22.8	22.8	17.5	13.4	11.1	10.5	10.5	11.1
47.5°	35.6	29.2	22.8	18.7	18.1	14.6	10.5	8.2	7.6	7.6	7.6
50°	34.5	26.9	20.4	15.8	14.0	12.3	8.2	6.4	5.8	5.8	5.8
52.5°	32.7	25.7	18.7	14.0	11.1	9.3	6.4	4.7	4.1	3.5	4.1
55°	31.5	23.9	18.1	12.8	9.3	7.0	4.7	3.5	2.9	2.9	2.9
57.5°	29.8	22.2	16.4	12.3	8.8	5.3	3.5	2.3	1.8	1.8	2.3
58°	29.2	22.2	15.8	11.7	8.2	5.3	3.5	2.3	1.8	1.8	2.3
60°	27.4	20.4	15.2	10.5	7.6	4.7	2.9	1.8	1.2	1.2	1.8
62.5°	25.7	18.7	13.4	9.3	6.4	4.1	2.3	1.2	0.6	0.6	0.6
65°	22.8	16.9	11.7	8.8	5.3	2.9	1.8	0.6	0.0	0.0	0.0
67.5°	20.4	15.8	10.5	7.6	4.7	2.3	1.2	0.0	0.0	0.0	0.0
70°	18.7	14.6	9.3	6.4	4.1	1.8	0.6	0.0	0.0	0.0	0.0
72.5°	17.5	13.4	8.8	5.8	2.9	1.8	0.6	0.0	0.0	0.0	0.0
75°	16.9	12.8	8.8	5.3	2.9	1.8	1.2	0.6	0.0	0.0	0.6
77.5°	16.4	12.8	8.8	5.3	3.5	1.8	1.8	1.2	1.2	0.6	1.8
80°	15.2	11.7	7.6	4.7	2.9	2.3	1.8	1.2	0.0	0.0	0.0
82.5°	12.8	9.3	6.4	4.7	2.9	1.8	0.6	0.0	0.0	0.0	0.0
85°	10.5	7.6	5.3	2.9	1.8	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	5.8	4.1	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	937.3	964.2	975.3	1012.6	1029.0	1062.9	1092.1	1117.2	1129.4	1139.4
5°	727.1	752.8	780.2	835.7	883.6	935.0	999.2	1065.8	1085.1	1106.1
7.5°	507.5	545.4	591.6	641.2	709.5	787.2	879.5	961.8	1003.3	1013.8
10°	394.2	439.2	488.2	537.3	593.9	676.8	769.7	876.0	920.4	938.5
12.5°	296.1	356.2	414.6	472.4	521.5	593.3	694.4	821.1	870.1	893.5
15°	178.1	245.9	317.7	395.4	463.7	547.8	661.7	809.4	871.3	897.6
17.5°	88.8	121.5	187.5	304.3	405.3	509.8	661.1	851.5	928.0	961.8
20°	66.0	74.8	99.9	189.8	337.0	478.3	668.1	923.3	1036.0	1064.6
22.5°	56.6	63.1	71.8	111.0	252.3	449.1	692.6	1018.5	1158.6	1196.6
25°	49.6	54.9	61.9	76.5	172.9	414.6	738.7	1152.8	1297.6	1349.6
27.5°	43.8	48.5	54.3	64.2	115.6	349.8	765.0	1265.5	1409.8	1453.0
30°	38.5	42.0	47.9	54.9	85.3	270.4	789.6	1364.8	1511.4	1545.2
32.5°	33.9	36.8	41.5	46.7	64.8	205.0	790.7	1450.0	1600.1	1632.3
35°	28.6	32.1	35.6	40.3	51.4	160.0	766.8	1534.7	1705.3	1744.4
37.5°	23.9	26.9	31.0	35.0	46.7	123.8	717.1	1634.0	1833.1	1877.5
40°	20.4	23.4	26.9	31.5	41.5	89.9	637.7	1723.9	1952.9	1993.7
42.5°	16.4	19.3	23.4	31.0	34.5	64.8	557.7	1810.4	2056.8	2094.8
45°	12.8	16.4	21.6	29.8	28.6	45.6	488.8	1886.9	2146.2	2197.0
47.5°	9.3	13.4	21.6	26.9	23.4	32.7	453.8	1960.5	2226.2	2260.6
50°	7.0	11.1	23.4	22.8	19.9	28.0	459.0	2042.2	2263.0	2285.2
52.5°	5.3	9.3	18.1	16.4	16.9	24.5	479.5	2150.3	2338.9	2354.7
55°	4.7	7.0	11.1	12.3	15.2	23.4	474.2	2252.5	2435.8	2463.3
57.5°	4.1	5.8	8.8	9.9	13.4	22.2	444.4	2297.4	2498.3	2536.3
58°	3.5	5.8	8.2	9.9	13.4	21.6	436.8	2285.2	2495.4	2543.3
60°	2.9	5.3	7.6	8.8	11.7	19.3	400.0	2181.2	2431.2	2498.3
62.5°	2.3	3.5	5.8	6.4	9.3	15.8	329.4	2013.0	2293.3	2376.3
65°	1.2	2.3	3.5	4.7	6.4	11.7	234.2	1813.9	2145.6	2226.8
67.5°	0.0	1.2	2.3	2.9	4.1	8.8	134.9	1539.4	1902.6	1966.9
70°	0.0	0.6	1.2	1.8	2.3	5.8	71.2	1130.0	1474.0	1589.6
72.5°	0.6	0.6	0.6	0.0	1.2	4.7	31.5	670.4	1005.0	1124.2
75°	0.6	0.6	0.0	0.0	0.0	2.3	13.4	353.3	576.4	633.0
77.5°	2.3	1.2	0.0	0.0	0.0	0.6	6.4	190.4	299.0	317.7
80°	0.6	0.0	0.0	0.0	0.0	0.0	2.3	63.7	179.3	183.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	77.1	73.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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