

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: McGRAW-EDISON

Report Number: P271614

Luminaire Tested: **ISS-AF-1200-LED-E1-SL4-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1200-LED-E1-SL4-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6454.4 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

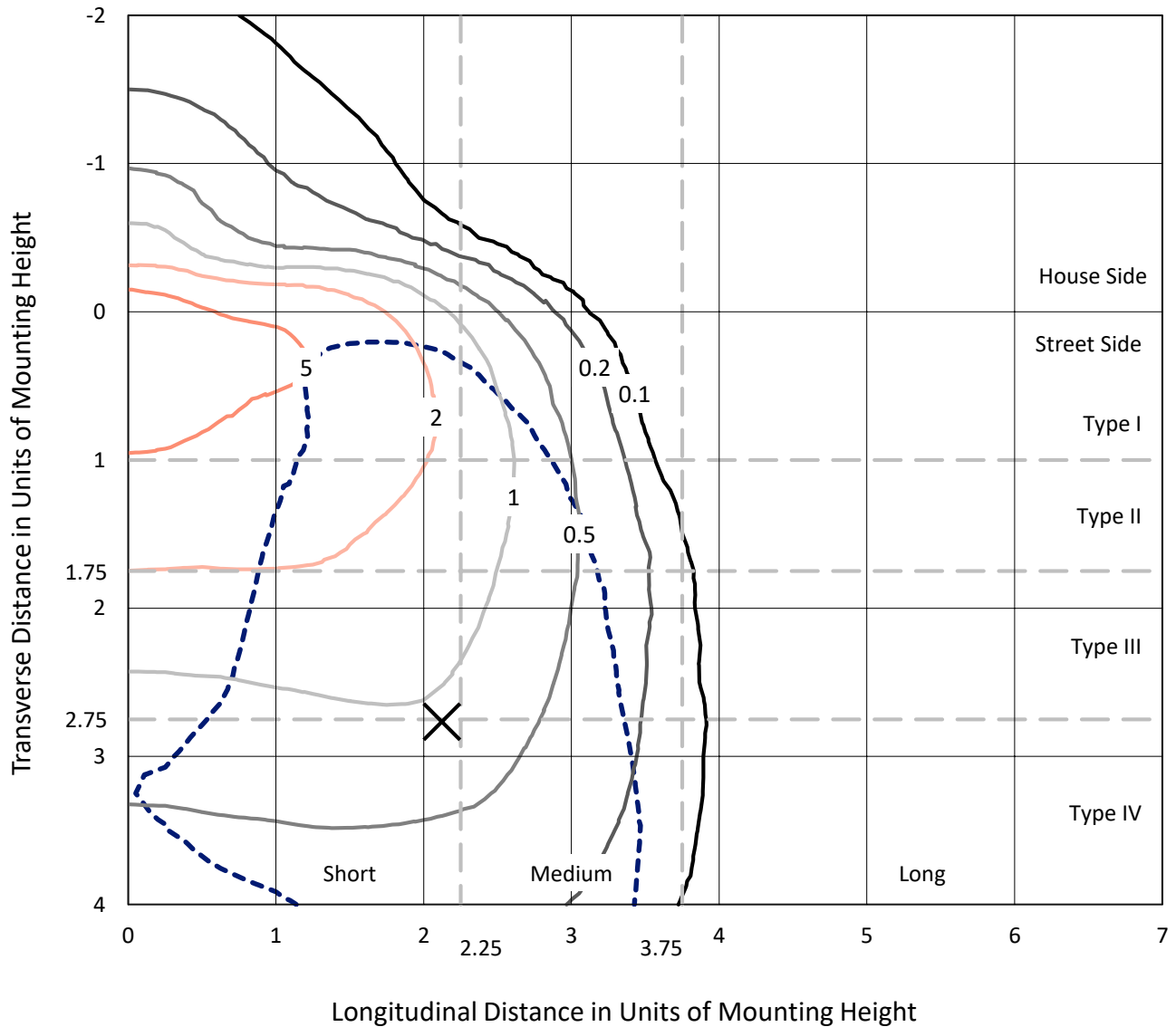
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

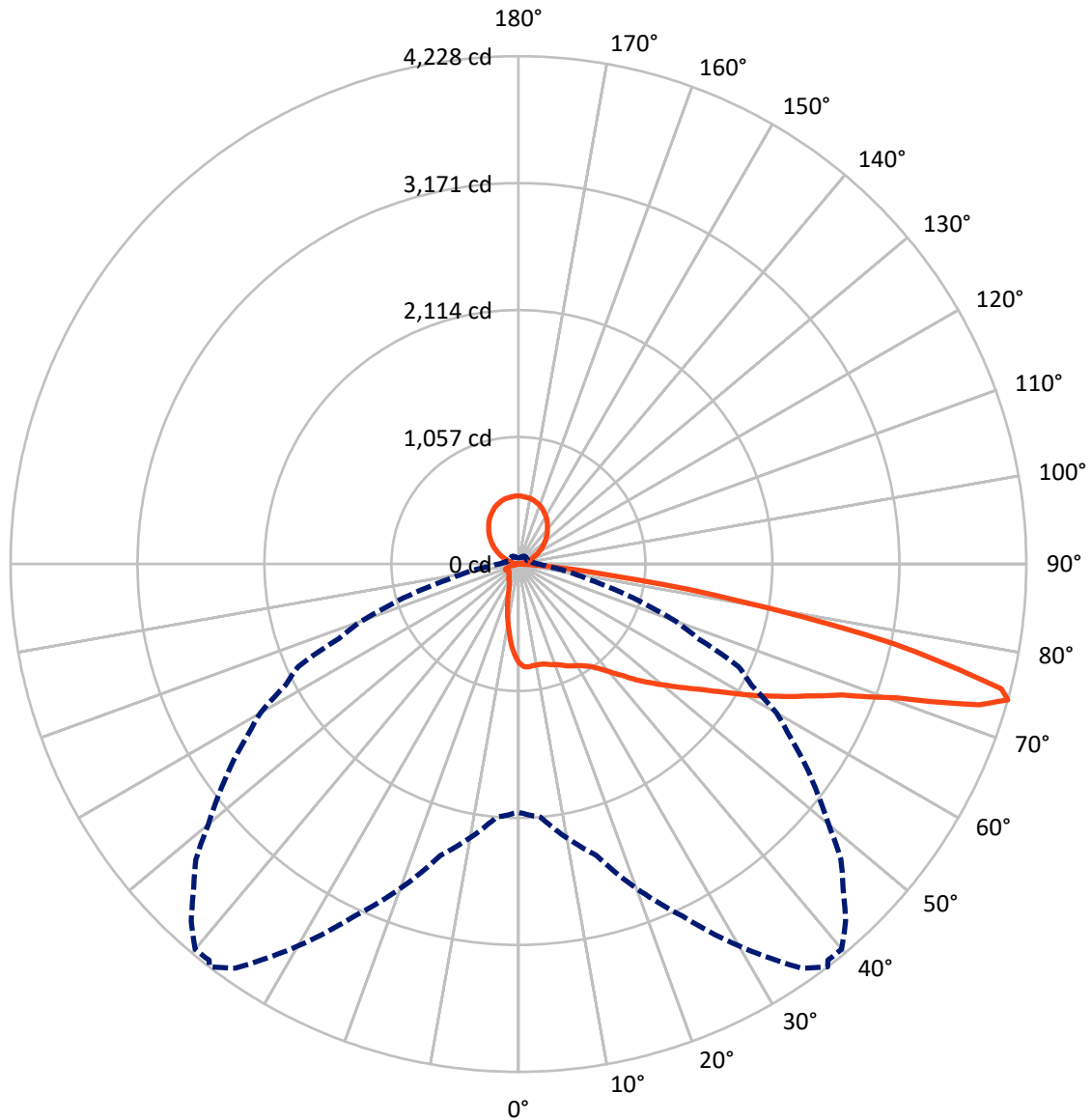
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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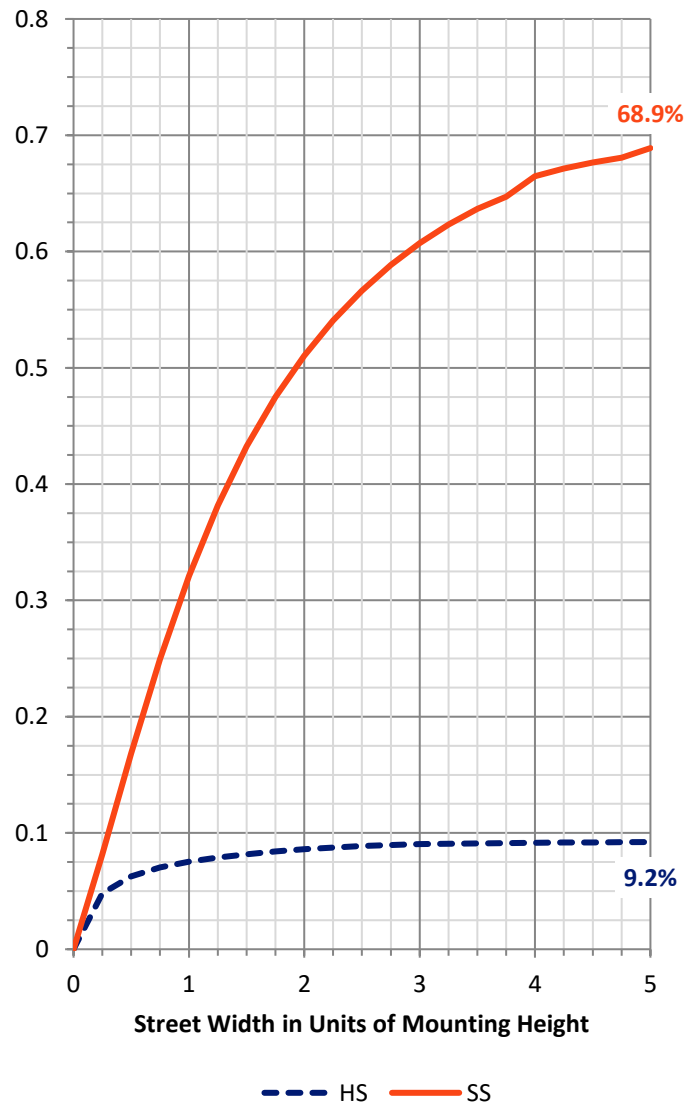
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.4	699.9	1299.2
	% Fixture	9.3	10.8	20.1
Street Side	Lumens	4455.3	699.9	5155.2
	% Fixture	69.0	10.8	79.9
Total	Lumens	5054.6	1399.8	6454.4
	% Fixture	78.3	21.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.1
10°-20°	182.9	2.8
20°-30°	283.5	4.4
30°-40°	420.5	6.5
40°-50°	646.9	10.0
50°-60°	956.1	14.8
60°-70°	1274.5	19.7
70°-80°	1100.1	17.0
80°-90°	118.3	1.8
90°-100°	4.7	0.1
100°-110°	67.7	1.0
110°-120°	150.2	2.3
120°-130°	219.7	3.4
130°-140°	260.7	4.0
140°-150°	264.3	4.1
150°-160°	226.8	3.5
160°-170°	152.2	2.4
170°-180°	53.3	0.8
0°-90°	5054.6	78.3
0°-180°	6454.4	100.0



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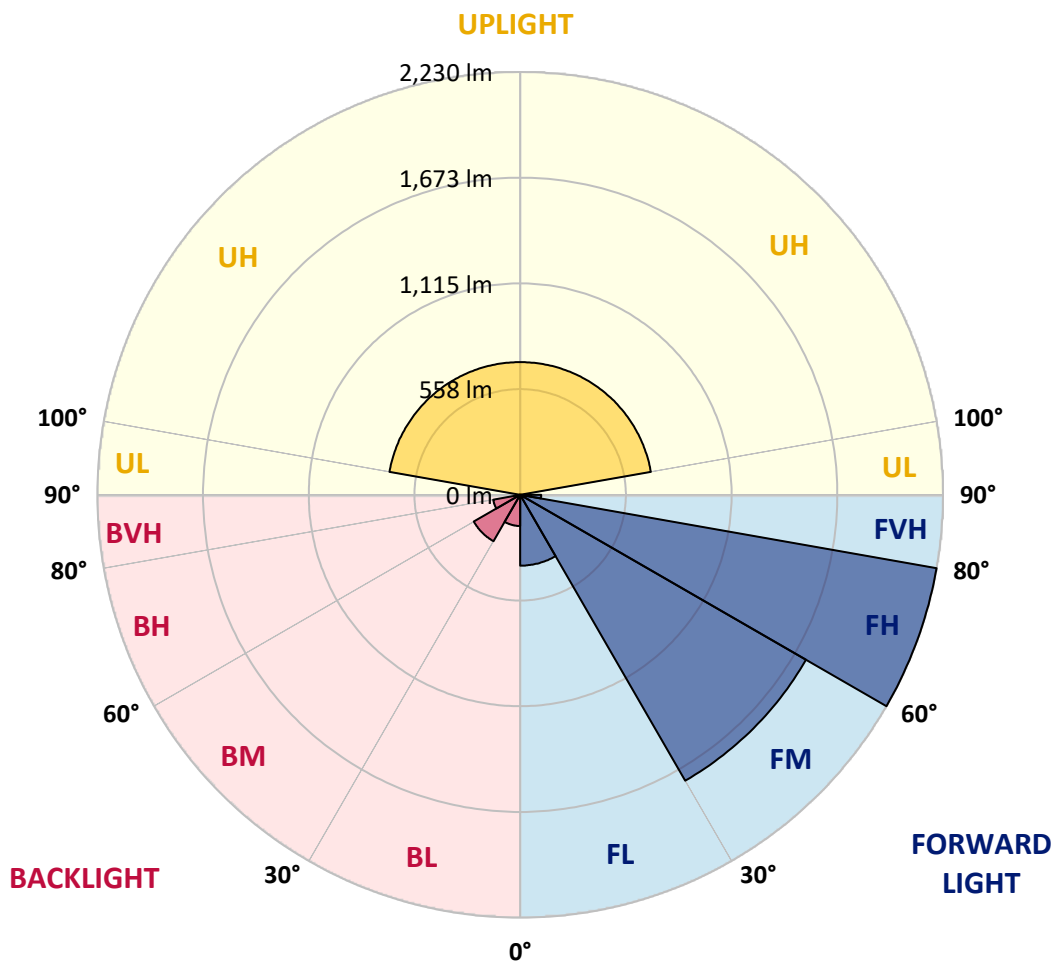
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.7	5.8			
FM (30°-60°)	1740.9	27.0			
FH (60°-80°)	2230.1	34.6			G2/5000
FVH (80°-90°)	110.5	1.7			G2/225
BL (0°-30°)	164.6	2.5	B1/500		
BM (30°-60°)	282.5	4.4	B1/1000		
BH (60°-80°)	144.5	2.2	B1/500		G1/500
BVH (80°-90°)	7.8	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	699.9	10.8		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	872.1	870.2	866.3	864.5	860.7	855.1	860.7	853.1	849.3	853.1	845.7
5°	887.2	885.2	881.5	873.9	870.2	860.7	866.3	856.9	855.1	858.8	849.3
7.5°	889.1	885.2	879.6	870.2	866.3	855.1	858.8	847.6	843.7	847.6	841.8
10°	883.3	881.5	875.8	860.7	856.9	853.1	851.2	843.7	841.8	839.9	838.1
12.5°	873.9	873.9	870.2	864.5	862.6	855.1	856.9	849.3	851.2	847.6	843.7
15°	870.2	868.2	872.1	875.8	875.8	864.5	872.1	866.3	862.6	864.5	858.8
17.5°	866.3	868.2	881.5	889.1	892.7	881.5	892.7	881.5	873.9	883.3	873.9
20°	864.5	870.2	892.7	909.7	911.7	892.7	911.7	892.7	892.7	904.1	887.2
22.5°	873.9	883.3	915.5	934.2	938.1	913.6	936.2	911.7	911.7	921.1	904.1
25°	904.1	913.6	949.4	970.2	966.4	940.0	960.7	936.2	934.2	945.6	923.0
27.5°	943.8	957.0	990.9	1009.9	996.6	960.7	990.9	955.1	955.1	972.1	941.9
30°	1000.4	1009.9	1040.0	1041.9	1024.9	981.5	1015.4	975.8	970.2	1000.4	962.6
32.5°	1062.7	1070.2	1092.9	1079.7	1055.1	1009.9	1049.4	1002.3	1000.4	1032.4	989.0
35°	1128.7	1136.3	1143.8	1121.2	1098.4	1049.4	1092.9	1045.6	1043.8	1079.7	1038.1
37.5°	1196.7	1196.7	1196.7	1170.2	1155.1	1108.0	1147.7	1109.9	1106.0	1143.8	1104.2
40°	1251.4	1255.2	1249.5	1225.0	1217.5	1183.4	1217.5	1183.4	1189.2	1223.1	1191.1
42.5°	1296.7	1300.5	1302.4	1281.6	1289.2	1270.3	1296.7	1272.2	1274.1	1311.9	1292.9
45°	1342.0	1340.1	1355.3	1349.5	1372.3	1374.0	1389.2	1379.8	1383.5	1411.9	1406.2
47.5°	1389.2	1379.8	1396.8	1421.3	1462.8	1476.1	1485.4	1489.2	1504.3	1517.6	1530.7
50°	1434.5	1425.0	1436.4	1491.2	1557.2	1585.5	1587.3	1606.3	1623.2	1642.1	1668.5
52.5°	1481.7	1474.1	1485.4	1562.8	1668.5	1708.1	1702.5	1734.5	1759.2	1779.9	1823.3
55°	1530.7	1523.2	1534.6	1649.6	1787.4	1842.2	1836.6	1881.8	1929.0	1936.6	1985.6
57.5°	1578.0	1568.5	1600.6	1751.5	1929.0	2012.0	1985.6	2055.5	2100.8	2097.0	2164.9
60°	1628.9	1621.4	1672.4	1876.2	2106.4	2214.1	2174.3	2267.0	2298.9	2285.7	2350.0
62.5°	1677.9	1676.1	1761.0	2021.5	2321.6	2425.4	2389.6	2470.7	2493.3	2476.4	2508.4
65°	1723.3	1734.5	1857.2	2166.8	2529.3	2648.1	2599.1	2680.3	2706.6	2693.5	2748.2
67.5°	1798.8	1812.0	1976.2	2351.9	2785.9	2908.6	2867.1	2952.0	2991.6	2987.9	3048.3
70°	1910.2	1934.7	2151.7	2614.2	3176.7	3333.3	3310.6	3414.5	3510.8	3503.2	3563.6
72.5°	2104.5	2144.3	2440.5	3021.9	3818.3	4009.0	3982.6	4041.1	4024.1	3886.3	3774.9
74°	2066.8	2115.9	2512.3	3235.2	4107.2	4228.1	4184.6	4186.6	4031.8	3822.2	3642.9
75°	1929.0	1980.0	2408.4	3208.7	4086.4	4152.4	4090.3	4012.8	3825.9	3612.6	3391.8
77.5°	1323.1	1389.2	1770.5	2591.5	3290.0	3199.3	3184.2	3037.0	2789.8	2550.0	2267.0
80°	677.6	724.8	915.5	1355.3	1951.7	1861.1	1891.3	1772.4	1566.6	1393.0	1104.2
82.5°	162.3	173.6	269.9	524.7	845.7	773.9	785.2	694.6	575.6	470.0	364.4
85°	84.9	96.3	132.1	145.3	222.7	230.2	224.6	217.1	177.4	149.1	130.3
87.5°	0.0	0.0	0.0	3.8	1.9	0.0	1.9	0.0	0.0	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.1	5.4	6.4	7.6	8.8	9.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	24.0	25.5	27.5	29.5	29.9
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	45.6	46.6	47.9	49.0	49.2
105°	53.0	53.0	55.0	59.8	64.8	65.8	65.9	66.7	67.7	68.7	68.9
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.2	87.9	88.6	89.3	89.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
110°	99.2	100.1	101.1	104.0	108.0	108.4	108.5	109.0	109.4	110.0	110.4
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.2	130.5	131.1	131.5	132.1
115°	143.3	144.3	146.2	148.2	151.2	151.6	151.7	152.2	152.6	153.1	153.6
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.3	174.7	175.2	175.7	175.9
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.5	197.8	198.1	198.3	198.7
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.2	222.3	222.6	222.8	223.0
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.7	246.9	247.1	247.3	247.6
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.5	269.9	270.4	270.9	271.4
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.8	292.9	293.3	293.5	293.9
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.3	315.6	315.8	316.0	316.8
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	338.6	339.4
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.2	360.7
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.2	381.3	381.6	381.8	382.0
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.4	402.9
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.3	423.6	423.8	424.0	424.4
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	443.9	444.1	444.4	444.6	444.8
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.7	460.8	461.1	461.3	461.5
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.3	476.6	476.8	477.0	477.2
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.7	493.9
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.0	531.2
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.8	541.9
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.3	550.1	549.9	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.2	556.1	555.7	555.5	555.3
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	558.2	557.9	557.7	557.5	557.7
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.4	561.6
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	567.0	566.8	566.5	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	851.2	847.6	851.2	839.9	845.7	836.1	839.9	830.6	834.3	826.7	828.6
5°	855.1	845.7	851.2	841.8	843.7	836.1	834.3	830.6	828.6	822.9	819.2
7.5°	845.7	838.1	836.1	832.4	826.7	828.6	821.1	819.2	813.5	813.5	802.2
10°	836.1	838.1	826.7	830.6	821.1	822.9	809.7	813.5	804.1	811.6	794.6
12.5°	843.7	845.7	836.1	841.8	824.8	828.6	817.3	822.9	809.7	819.2	798.4
15°	860.7	858.8	855.1	855.1	838.1	845.7	832.4	836.1	822.9	834.3	811.6
17.5°	875.8	873.9	868.2	866.3	855.1	856.9	843.7	851.2	836.1	845.7	822.9
20°	892.7	883.3	881.5	879.6	866.3	866.3	856.9	860.7	845.7	856.9	830.6
22.5°	906.0	898.5	896.6	889.1	879.6	883.3	870.2	872.1	856.9	868.2	845.7
25°	926.7	917.3	917.3	906.0	900.3	898.5	890.8	896.6	881.5	889.1	868.2
27.5°	955.1	934.2	941.9	930.6	926.7	924.9	921.1	924.9	913.6	919.2	898.5
30°	981.5	955.1	966.4	951.2	958.9	951.2	957.0	951.2	951.2	951.2	941.9
32.5°	1017.4	985.4	1007.9	985.4	1000.4	989.0	1007.9	996.6	1004.1	1002.3	998.5
35°	1068.4	1030.5	1062.7	1032.4	1058.9	1043.8	1070.2	1064.5	1079.7	1072.0	1079.7
37.5°	1136.3	1096.7	1134.4	1106.0	1138.2	1115.5	1153.2	1149.5	1181.6	1170.2	1181.6
40°	1221.2	1192.9	1221.2	1200.5	1234.5	1225.0	1264.6	1266.5	1302.4	1296.7	1309.9
42.5°	1315.6	1294.9	1323.1	1311.9	1345.8	1353.4	1398.6	1410.0	1443.9	1453.4	1455.3
45°	1417.5	1413.8	1436.4	1447.7	1481.7	1504.3	1544.0	1572.2	1610.0	1630.9	1627.0
47.5°	1536.4	1551.6	1566.6	1594.9	1625.1	1672.4	1712.0	1747.8	1791.2	1804.4	1810.2
50°	1670.5	1696.9	1710.0	1749.7	1779.9	1838.4	1893.2	1938.5	1985.6	1980.0	1983.7
52.5°	1812.0	1845.9	1864.8	1912.0	1951.7	2019.6	2066.8	2110.2	2168.8	2153.7	2147.9
55°	1968.6	2019.6	2034.8	2087.6	2121.5	2191.3	2232.8	2308.5	2333.0	2317.9	2285.7
57.5°	2134.7	2195.2	2212.2	2283.9	2300.9	2376.4	2412.2	2463.2	2483.9	2459.4	2417.9
60°	2323.5	2378.3	2391.5	2455.7	2478.2	2548.1	2574.5	2619.9	2635.0	2574.5	2516.1
62.5°	2512.3	2569.0	2576.4	2633.0	2655.7	2716.1	2746.3	2772.7	2765.3	2676.5	2602.9
65°	2727.4	2782.2	2801.1	2857.7	2870.8	2916.2	2940.7	2910.5	2893.5	2759.5	2676.5
67.5°	3069.1	3127.6	3135.2	3148.3	3146.4	3123.8	3112.4	3008.6	2933.1	2685.9	2567.0
70°	3518.3	3474.8	3389.9	3291.7	3220.1	3091.8	3016.1	2802.9	2644.4	2366.9	2166.8
72.5°	3599.5	3457.8	3248.5	3080.4	2906.7	2704.8	2542.5	2219.7	1996.9	1706.3	1494.9
74°	3369.1	3138.9	2918.1	2682.1	2482.1	2187.6	2023.4	1615.7	1394.9	1100.4	843.7
75°	3091.8	2821.8	2572.7	2272.5	2085.7	1732.7	1578.0	1138.2	917.3	653.1	439.8
77.5°	1972.4	1649.6	1411.9	1064.5	919.2	634.2	464.3	288.7	213.3	186.8	162.3
80°	885.2	630.4	500.2	345.4	288.7	220.8	186.8	150.9	137.8	120.8	115.2
82.5°	283.1	226.6	215.1	192.6	192.6	154.8	132.1	103.8	94.4	81.2	73.6
85°	122.7	115.2	118.9	109.4	111.4	84.9	67.9	50.9	50.9	35.8	32.1
87.5°	3.8	0.0	1.9	0.0	3.8	0.0	1.9	0.0	1.9	0.0	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	10.8	11.8	12.8	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9
100°	30.5	30.9	31.4	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5
102.5°	49.6	49.9	50.0	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1
105°	69.2	69.5	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7
107.5°	90.3	90.8	91.3	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	110.9	111.4	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9
112.5°	132.5	132.9	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5
115°	154.1	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
117.5°	176.2	176.4	176.7	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7
120°	199.2	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
122.5°	223.3	223.6	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8
125°	247.8	248.1	248.3	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3
127.5°	271.8	272.4	272.8	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8
130°	294.5	294.9	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4
132.5°	317.6	318.2	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0
135°	340.1	340.7	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5
137.5°	361.2	361.7	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2
140°	382.3	382.6	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7
142.5°	403.4	403.9	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3
145°	425.0	425.4	426.0	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0
147.5°	445.1	445.4	445.6	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6
150°	461.8	462.1	462.3	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3
152.5°	477.4	477.8	478.0	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0
155°	494.2	494.4	494.7	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7
157.5°	509.4	509.4	509.4	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4
160°	522.2	522.2	522.2	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2
162.5°	531.4	531.8	532.0	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0
165°	542.3	542.6	542.8	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8
167.5°	549.7	549.7	549.7	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7
170°	555.1	554.7	554.5	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5
172.5°	557.9	558.3	558.5	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5
175°	561.9	562.2	562.4	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5
177.5°	566.3	566.3	566.3	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	821.1	824.8	822.9	815.4	813.5	807.8	794.6	796.5	789.0	794.6	785.2
5°	813.5	811.6	804.1	794.6	785.2	773.9	764.5	760.7	753.0	749.4	743.7
7.5°	802.2	794.6	781.4	766.3	753.0	738.0	730.4	717.3	713.4	700.3	698.4
10°	798.4	785.2	770.0	751.3	728.5	705.9	704.0	681.4	679.5	658.7	653.1
12.5°	806.0	789.0	770.0	747.5	721.0	688.9	688.9	655.0	653.1	624.7	615.2
15°	821.1	800.3	775.8	749.4	715.4	675.7	673.8	634.2	630.4	596.5	585.2
17.5°	834.3	806.0	783.3	747.5	707.9	662.5	653.1	613.5	605.9	566.2	551.1
20°	843.7	811.6	785.2	743.7	694.6	641.7	628.5	587.0	570.1	530.4	509.6
22.5°	855.1	824.8	789.0	741.8	687.0	624.7	596.5	558.7	534.1	492.6	464.3
25°	872.1	845.7	802.2	747.5	681.4	607.7	570.1	530.4	496.4	454.9	413.4
27.5°	898.5	872.1	821.1	754.9	679.5	590.7	549.2	500.2	458.7	413.4	366.1
30°	936.2	907.8	853.1	775.8	681.4	577.6	526.6	473.8	424.7	371.9	322.9
32.5°	985.4	962.6	894.7	798.4	688.9	566.2	505.8	445.5	385.0	334.1	290.7
35°	1053.3	1038.1	953.2	841.8	707.9	560.6	485.1	419.0	351.1	300.1	253.0
37.5°	1153.2	1132.5	1038.1	904.1	738.0	556.8	470.0	386.9	322.9	268.1	228.3
40°	1279.7	1251.4	1138.2	979.6	785.2	558.7	456.8	362.4	298.2	239.7	207.6
42.5°	1430.7	1389.2	1260.8	1072.0	832.4	562.5	449.2	339.8	279.4	217.1	192.6
45°	1600.6	1553.3	1406.2	1187.2	900.3	572.0	443.5	320.9	262.3	200.1	183.1
47.5°	1766.7	1719.5	1555.2	1302.4	970.2	588.9	447.4	309.6	251.1	190.6	171.8
50°	1929.0	1880.0	1687.5	1406.2	1030.5	611.6	462.4	311.4	249.2	186.8	166.1
52.5°	2072.5	2012.0	1800.7	1487.3	1073.9	626.7	475.7	317.1	251.1	185.1	164.2
55°	2215.8	2138.5	1891.3	1551.6	1100.4	628.5	475.7	319.0	253.0	185.1	162.3
57.5°	2323.5	2234.8	1961.1	1589.3	1109.9	619.1	464.3	309.6	241.6	183.1	158.6
60°	2391.5	2297.1	2010.1	1613.9	1096.7	579.5	403.9	273.7	213.3	169.9	147.2
62.5°	2448.2	2351.9	2025.3	1572.2	985.4	460.5	315.2	222.7	177.4	150.9	135.9
65°	2461.3	2346.1	1919.6	1389.2	770.0	319.0	228.3	175.5	145.3	133.9	122.7
67.5°	2261.2	2123.4	1613.9	1087.2	524.7	219.0	169.9	143.5	124.5	118.9	115.2
70°	1838.4	1687.5	1181.6	711.5	292.6	152.9	130.3	118.9	107.5	107.5	101.9
72.5°	1185.3	1028.6	605.9	303.9	149.1	117.0	105.7	101.9	92.4	94.4	88.8
74°	605.9	471.9	247.2	160.4	122.7	103.8	94.4	92.4	83.0	84.9	79.3
75°	307.7	243.5	173.6	133.9	113.3	98.2	86.9	86.9	75.5	77.3	71.8
77.5°	143.5	137.8	118.9	105.7	96.3	83.0	71.8	69.9	58.5	62.3	54.8
80°	100.0	100.0	92.4	88.8	79.3	67.9	54.8	54.8	43.4	45.4	39.6
82.5°	56.6	52.8	52.8	60.4	62.3	50.9	39.6	37.8	32.1	32.1	26.4
85°	24.5	28.3	34.0	41.5	45.4	39.6	28.3	26.4	17.0	17.0	9.4
87.5°	0.0	1.9	1.9	3.8	7.5	7.5	0.0	3.8	0.0	1.9	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.7	4.4	4.0	4.0	4.0	4.4	4.7	4.9	5.4	5.9	6.4
100°	26.3	26.1	25.5	24.5	25.5	26.1	26.3	26.5	27.3	27.9	28.7
102.5°	47.3	47.6	48.1	47.1	48.1	47.6	47.3	47.1	47.6	48.1	48.6
105°	68.2	68.7	69.7	67.7	69.7	68.7	68.2	67.7	68.2	68.7	69.2
107.5°	89.5	89.8	90.3	89.3	90.3	89.8	89.5	89.3	89.5	89.8	90.1



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	111.1	111.4	111.9	110.9	111.9	111.4	111.1	110.9	111.1	111.4	111.7	0°
112.5°	132.9	133.5	134.5	132.5	134.5	133.5	132.9	132.5	132.7	132.9	133.3	2.5°
115°	155.6	156.0	157.0	156.0	157.0	156.0	155.6	155.0	155.0	155.0	155.0	5°
117.5°	177.1	177.7	178.7	176.7	178.7	177.7	177.1	176.7	176.9	177.1	177.4	7.5°
120°	200.7	201.2	202.2	200.2	202.2	201.2	200.7	200.2	200.2	200.2	200.2	10°
122.5°	225.7	226.7	228.7	227.7	228.7	226.7	225.7	224.8	224.6	224.3	223.9	12.5°
125°	250.1	250.8	252.2	251.3	252.2	250.8	250.1	249.3	249.3	249.3	249.3	15°
127.5°	273.6	274.3	275.8	272.8	275.8	274.3	273.6	272.8	272.6	272.4	272.1	17.5°
130°	297.2	297.9	299.3	297.4	299.3	297.9	297.2	296.4	296.2	295.9	295.6	20°
132.5°	320.8	321.4	322.9	321.0	322.9	321.4	320.8	320.0	319.8	319.4	319.2	22.5°
135°	343.1	343.5	344.5	343.5	344.5	343.5	343.1	342.5	342.3	342.1	341.7	25°
137.5°	364.2	365.1	367.0	365.1	367.0	365.1	364.2	363.2	362.9	362.6	362.4	27.5°
140°	385.7	386.7	388.7	386.7	388.7	386.7	385.7	384.7	384.3	383.8	383.3	30°
142.5°	406.1	406.8	408.3	407.3	408.3	406.8	406.1	405.3	405.1	404.9	404.6	32.5°
145°	426.8	427.4	428.9	427.0	428.9	427.4	426.8	426.0	425.8	425.4	425.2	35°
147.5°	445.4	446.1	447.5	444.6	447.5	446.1	445.4	444.6	444.4	444.1	443.9	37.5°
150°	461.3	462.3	464.2	461.3	464.2	462.3	461.3	460.3	460.3	460.3	460.3	40°
152.5°	477.8	478.4	480.0	477.0	480.0	478.4	477.8	477.0	477.0	477.0	477.0	42.5°
155°	495.4	496.1	497.6	495.7	497.6	496.1	495.4	494.7	494.4	494.2	493.9	45°
157.5°	509.6	510.9	513.3	510.3	513.3	510.9	509.6	508.4	508.2	507.9	507.6	47.5°
160°	520.9	521.6	523.2	521.2	523.2	521.6	520.9	520.2	520.2	520.2	520.2	50°
162.5°	528.6	529.0	530.0	527.0	530.0	529.0	528.6	528.0	528.6	529.0	529.6	52.5°
165°	538.4	538.8	539.8	537.8	539.8	538.8	538.4	537.8	538.4	538.8	539.3	55°
167.5°	549.7	550.6	552.5	550.6	552.5	550.6	549.7	548.7	548.4	548.1	547.9	57.5°
170°	556.7	557.9	560.5	558.5	560.5	557.9	556.7	555.5	555.1	554.5	554.1	60°
172.5°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.3	556.9	556.7	62.5°
175°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.9	558.5	558.9	65°
177.5°	564.1	564.9	566.3	563.3	566.3	564.9	564.1	563.3	563.3	563.3	563.3	67.5°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°
												72.5°
												74°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	110°	111.9
789.0	779.5	785.2	775.8	779.5	770.0	773.9	768.2	762.5	754.9	753.0	112.5°	133.5
738.0	730.4	728.5	719.1	721.0	713.4	705.9	696.5	685.1	670.0	664.4	115°	155.0
681.4	679.5	666.4	660.6	653.1	645.5	632.2	617.2	594.6	573.7	560.6	117.5°	177.7
632.2	626.7	607.7	598.3	587.0	577.6	558.7	537.9	505.8	473.8	456.8	120°	200.2
590.7	583.2	558.7	547.3	530.4	519.1	496.4	470.0	424.7	379.4	358.6	122.5°	223.8
556.8	545.5	517.2	500.2	477.4	466.2	441.7	403.9	349.2	302.0	273.7	125°	249.3
517.2	502.1	471.9	451.1	428.4	407.7	383.1	343.5	281.2	237.8	209.6	127.5°	271.8
473.8	454.9	422.8	394.4	369.9	351.1	326.5	286.9	224.6	190.6	175.5	130°	295.5
428.4	398.3	369.9	345.4	317.1	298.2	273.7	237.8	190.6	171.8	166.1	132.5°	319.0
381.3	347.4	319.0	294.5	268.1	251.1	230.2	202.0	173.6	168.1	168.1	135°	341.5
334.1	300.1	273.7	249.2	226.6	215.1	196.3	177.4	164.2	166.1	168.1	137.5°	362.2
290.7	256.6	232.1	213.3	192.6	185.1	169.9	158.6	156.7	162.3	164.2	140°	382.8
253.0	222.7	200.1	185.1	168.1	164.2	150.9	145.3	150.9	158.6	156.7	142.5°	404.3
220.8	196.3	173.6	164.2	149.1	147.2	137.8	133.9	141.6	150.9	150.9	145°	425.0
196.3	173.6	156.7	149.1	137.8	135.9	128.4	124.5	130.3	143.5	147.2	147.5°	443.7
175.5	162.3	145.3	137.8	130.3	126.4	122.7	118.9	120.8	137.8	139.7	150°	460.3
162.3	152.9	137.8	133.9	124.5	122.7	117.0	113.3	115.2	128.4	133.9	152.5°	477.0
152.9	145.3	132.1	130.3	120.8	118.9	113.3	109.4	111.4	122.7	128.4	155°	493.7
145.3	137.8	126.4	122.7	117.0	115.2	111.4	107.5	107.5	118.9	124.5	157.5°	507.5
141.6	133.9	122.7	118.9	113.3	111.4	107.5	103.8	105.7	115.2	118.9	160°	520.2
139.7	130.3	120.8	115.2	111.4	107.5	103.8	100.0	101.9	111.4	115.2	162.5°	530.0
139.7	128.4	120.8	115.2	109.4	103.8	101.9	96.3	100.0	107.5	113.3	165°	539.8
139.7	128.4	120.8	115.2	111.4	105.7	101.9	98.2	100.0	107.5	113.3	167.5°	547.7
135.9	126.4	122.7	117.0	115.2	109.4	107.5	103.8	103.8	113.3	122.7	170°	553.5
130.3	124.5	122.7	118.9	118.9	115.2	115.2	111.4	111.4	122.7	132.1	172.5°	556.5
122.7	118.9	120.8	118.9	118.9	118.9	117.0	117.0	117.0	126.4	137.8	175°	559.5
115.2	113.3	115.2	115.2	117.0	115.2	117.0	115.2	115.2	124.5	135.9	177.5°	563.3
103.8	103.8	105.7	103.8	105.7	105.7	107.5	107.5	107.5	113.3	124.5	180°	565.3
90.5	88.8	90.5	88.8	92.4	88.8	92.4	94.4	92.4	94.4	100.0		
81.2	79.3	81.2	79.3	83.0	79.3	81.2	81.2	79.3	64.2	54.8		
73.6	71.8	73.6	71.8	75.5	71.8	75.5	73.6	69.9	47.3	45.4		
58.5	52.8	58.5	52.8	56.6	50.9	54.8	47.3	35.8	34.0	34.0		
43.4	37.8	41.5	35.8	34.0	26.4	28.3	26.4	24.5	26.4	26.4		
26.4	18.9	22.6	17.0	20.8	15.1	18.9	17.0	15.1	15.1	15.1		
13.3	9.4	13.3	7.5	11.3	7.5	9.4	9.4	5.7	5.7	5.7		
1.9	0.0	3.8	0.0	3.8	0.0	1.9	1.9	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0	3.0	2.0		
29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6	13.7	9.8		
49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2	37.3	31.4		
69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8	59.8	55.0		
90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3	82.5	78.5		

271614
 ISS-AF-1200-LED-E1-SL4-7027-ULG

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	104.0	101.1	0°	824.8	824.8
133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	126.6	123.7	2.5°	747.5	749.4
155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	148.2	146.2	5°	655.0	660.6
177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	170.8	168.8	7.5°	553.1	556.8
200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	194.3	192.3	10°	445.5	449.2
223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	218.8	216.9	12.5°	343.5	347.4
249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	243.4	242.5	15°	258.6	254.8
272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	267.0	265.0	17.5°	198.2	194.4
295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	288.5	287.5	20°	168.1	168.1
319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	312.1	311.2	22.5°	164.2	162.3
341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	334.7	332.7	25°	166.1	164.2
362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	357.3	356.3	27.5°	166.1	164.2
382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	378.8	377.8	30°	162.3	160.4
404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	399.5	400.5	32.5°	156.7	154.8
425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	420.0	420.0	35°	150.9	150.9
444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	439.7	438.7	37.5°	147.2	149.1
460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	456.4	455.4	40°	141.6	143.5
477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	473.0	474.0	42.5°	135.9	137.8
493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	491.7	492.7	45°	130.3	132.1
507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	506.5	507.5	47.5°	124.5	124.5
520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	519.2	519.2	50°	117.0	117.0
530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	528.0	529.0	52.5°	115.2	115.2
540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	537.8	538.8	55°	115.2	115.2
548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	547.7	548.7	57.5°	118.9	118.9
553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	554.5	555.5	60°	130.3	132.1
556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	556.5	558.5	62.5°	152.9	154.8
560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	558.5	559.5	65°	175.5	179.3
564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	563.3	564.3	67.5°	177.4	183.1
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°	171.8	177.4
										72.5°	118.9	118.9
										74°	52.8	50.9
										75°	45.4	43.4
										77.5°	34.0	34.0
										80°	24.5	22.6
										82.5°	13.3	13.3
										85°	3.8	3.8
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	7.8	7.8
										102.5°	27.5	27.5
										105°	53.0	53.0
										107.5°	75.5	76.5



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	100.1	99.2
112.5°	121.7	121.7
115°	144.3	143.3
117.5°	166.8	165.8
120°	191.4	189.5
122.5°	216.0	215.0
125°	241.5	239.5
127.5°	264.0	262.0
130°	286.6	284.7
132.5°	308.2	307.2
135°	330.8	329.8
137.5°	353.3	352.3
140°	375.9	375.0
142.5°	398.5	396.5
145°	418.1	417.2
147.5°	435.8	435.8
150°	453.5	452.5
152.5°	471.1	470.2
155°	490.7	489.8
157.5°	505.5	503.5
160°	517.2	515.3
162.5°	526.0	525.1
165°	536.8	535.9
167.5°	545.7	544.7
170°	552.5	551.6
172.5°	555.5	554.5
175°	558.5	556.5
177.5°	562.4	561.4
180°	565.3	565.3

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

