

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: P271620

Luminaire Tested: **ISS-AF-1200-LED-E1-T4W-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-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-T4W-7027-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, 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: 7116.9 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Medium - 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

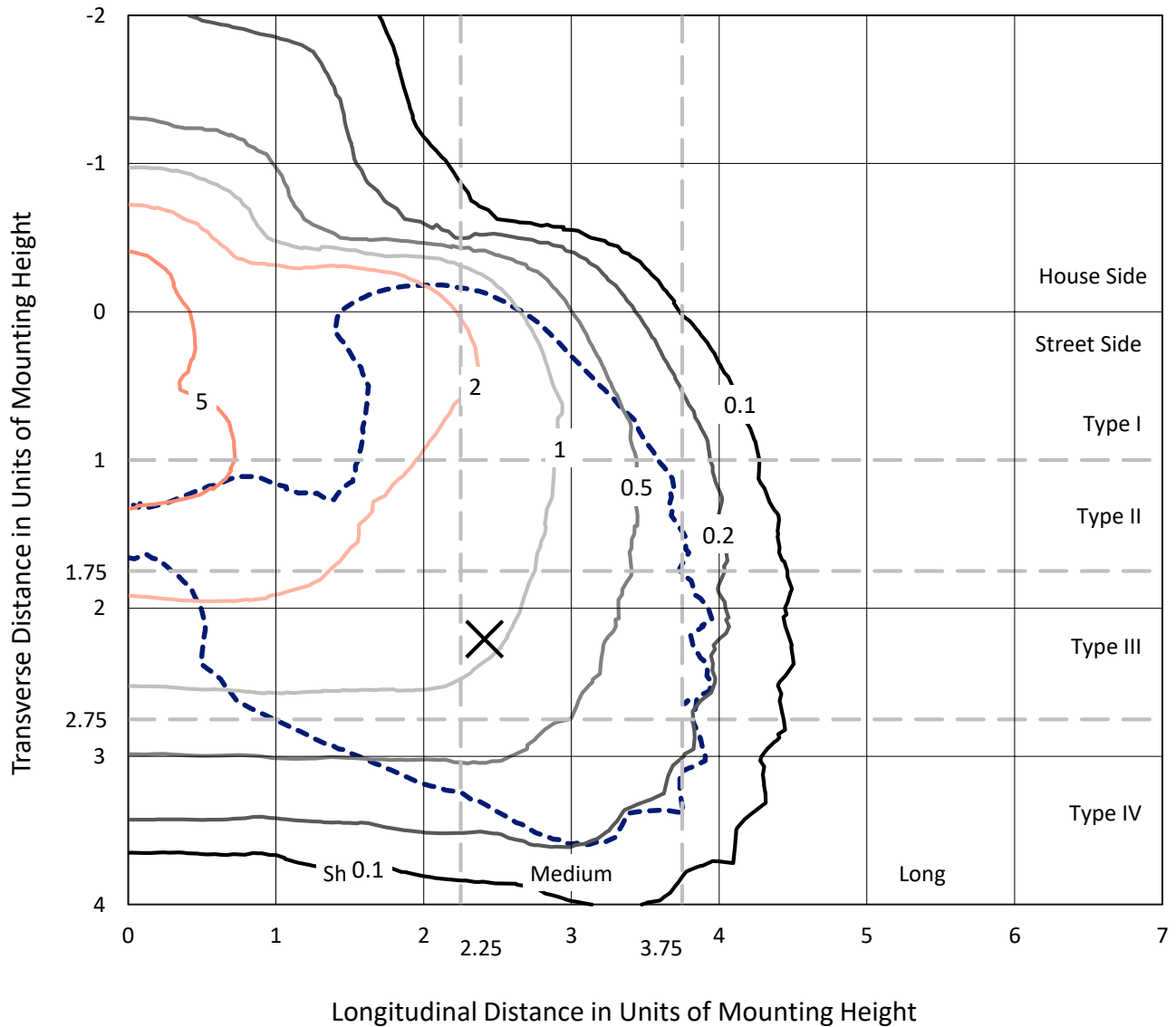


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### Iso-Footcandle Lines of Horizontal Illumination

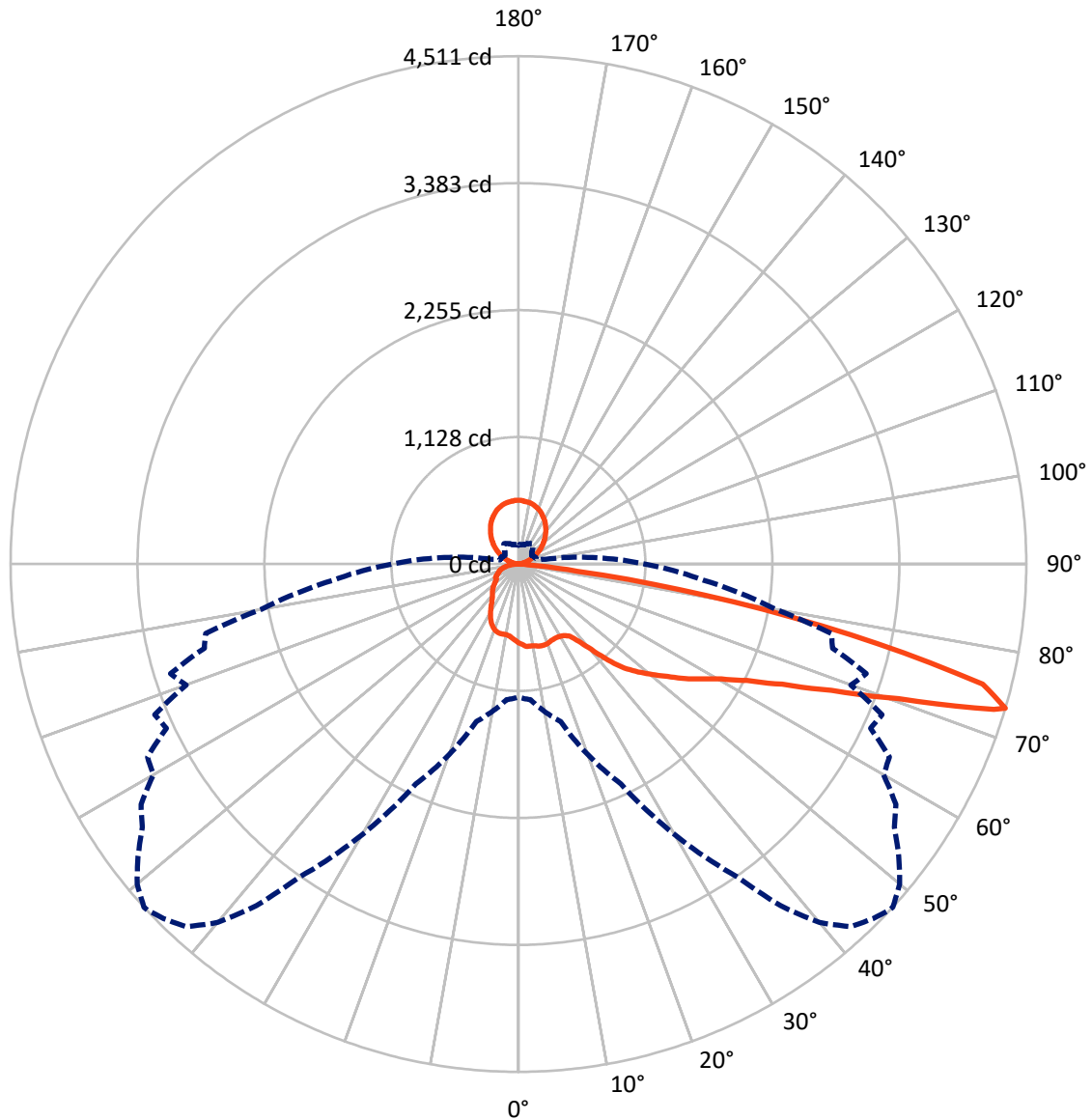
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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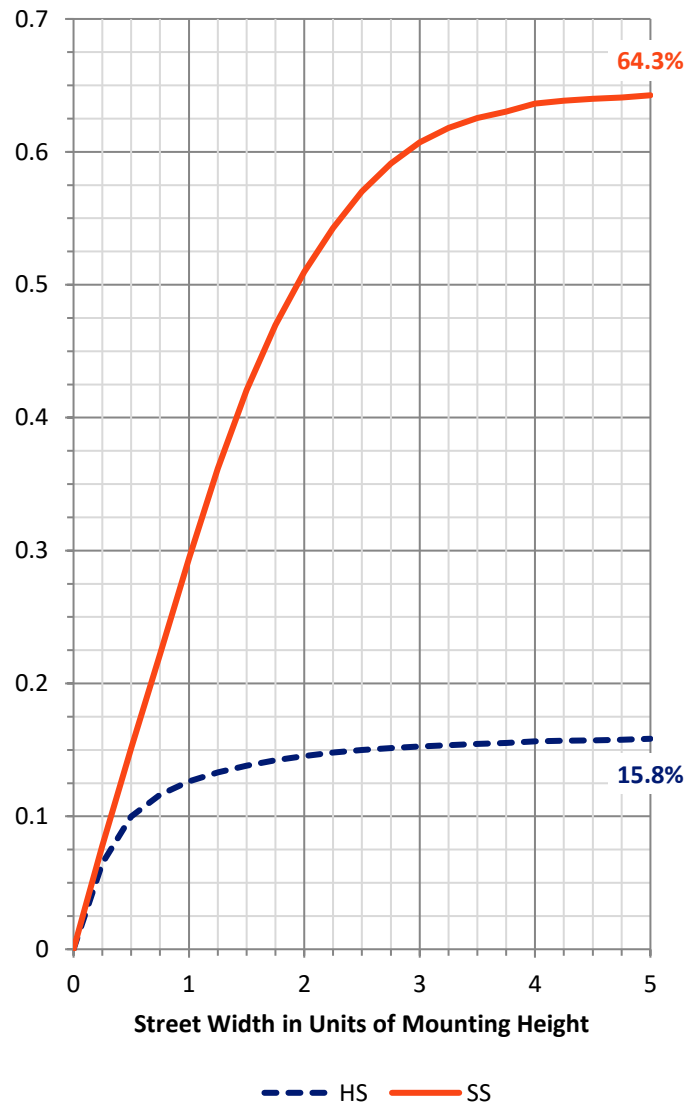
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1142.2	699.9	1842.1
	% Fixture	16.0	9.8	25.9
<b>Street Side</b>	Lumens	4574.9	699.9	5274.8
	% Fixture	64.3	9.8	74.1
<b>Total</b>	Lumens	5717.1	1399.8	7116.9
	% Fixture	80.3	19.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	0.9
10°-20°	198.9	2.8
20°-30°	305.8	4.3
30°-40°	446.1	6.3
40°-50°	735.5	10.3
50°-60°	1151.6	16.2
60°-70°	1562.2	22.0
70°-80°	1156.8	16.3
80°-90°	93.5	1.3
90°-100°	4.7	0.1
100°-110°	67.7	1.0
110°-120°	150.2	2.1
120°-130°	219.7	3.1
130°-140°	260.7	3.7
140°-150°	264.3	3.7
150°-160°	226.8	3.2
160°-170°	152.2	2.1
170°-180°	53.3	0.7
0°-90°	5717.1	80.3
0°-180°	7116.9	100.0



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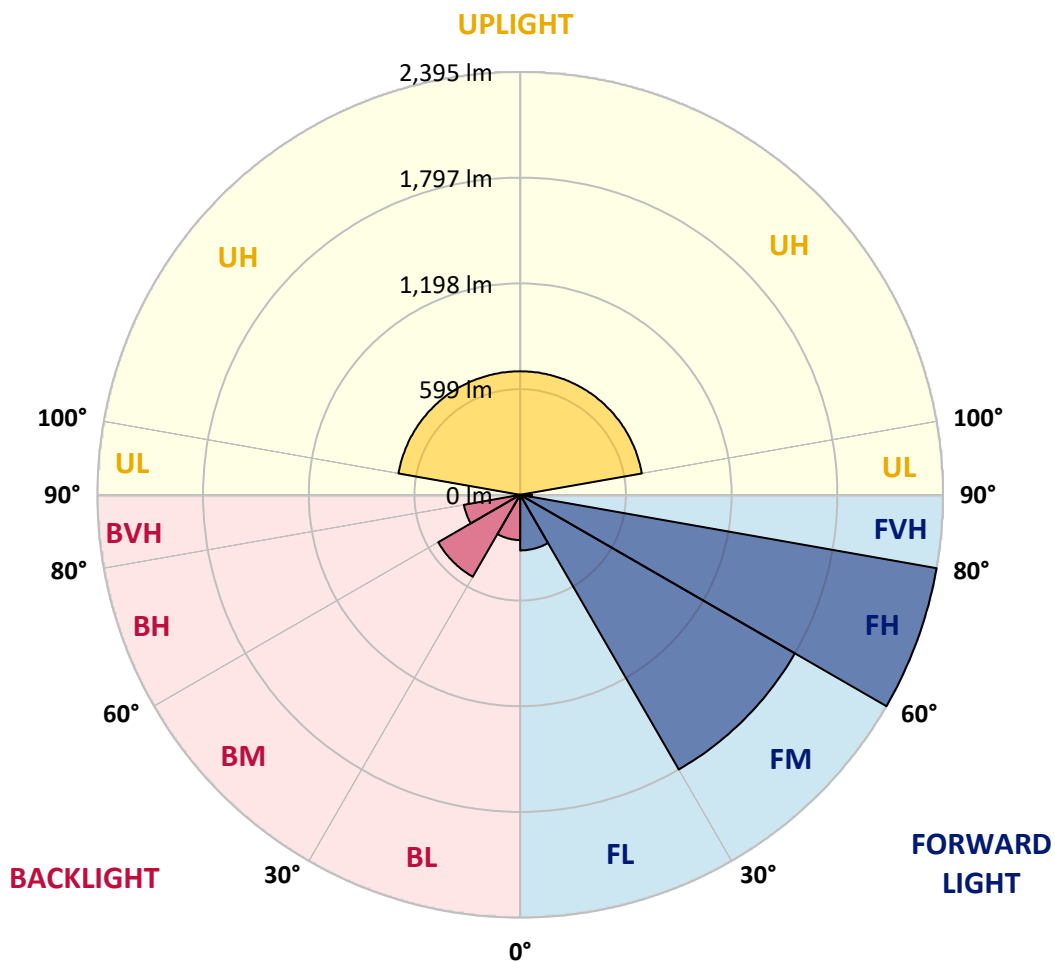
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.1	4.4			
FM (30°-60°)	1796.8	25.2			
FH (60°-80°)	2395.5	33.7			G2/5000
FVH (80°-90°)	67.4	0.9			G1/100
BL (0°-30°)	256.4	3.6	B1/500		
BM (30°-60°)	536.4	7.5	B1/1000		
BH (60°-80°)	323.5	4.5	B1/500		G1/500
BVH (80°-90°)	26.0	0.4			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	699.9	9.8		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
2.5°	743.5	741.7	736.0	734.2	728.4	724.8	722.9	720.9	726.5	722.9	717.2
5°	790.8	786.9	779.4	768.1	756.8	749.3	747.4	743.5	743.5	739.8	736.0
7.5°	824.7	822.8	811.5	794.6	775.7	762.4	754.9	749.3	751.2	747.4	736.0
10°	856.8	853.0	834.2	813.4	785.1	769.9	760.5	751.2	758.7	753.0	737.9
12.5°	881.3	877.6	851.1	824.7	792.7	775.7	766.3	760.5	768.1	764.4	747.4
15°	894.5	890.8	864.3	832.3	798.3	779.4	775.7	771.9	777.6	769.9	754.9
17.5°	887.1	887.1	862.6	828.5	800.2	781.3	775.7	771.9	779.4	771.9	754.9
20°	858.7	862.6	845.5	809.6	788.9	775.7	769.9	762.4	769.9	762.4	751.2
22.5°	822.8	826.6	817.2	785.1	769.9	760.5	758.7	751.2	756.8	751.2	739.8
25°	790.8	790.8	786.9	758.7	756.8	749.3	751.2	747.4	751.2	743.5	736.0
27.5°	792.7	792.7	777.6	749.3	747.4	747.4	747.4	747.4	749.3	743.5	736.0
30°	904.1	907.7	864.3	785.1	756.8	753.0	754.9	753.0	754.9	753.0	743.5
32.5°	1071.9	1071.9	1030.4	907.7	807.8	783.2	773.8	771.9	766.3	764.4	756.8
35°	1238.0	1236.2	1194.7	1058.7	932.4	885.1	855.0	826.6	813.4	800.2	786.9
37.5°	1377.7	1372.0	1366.4	1211.6	1079.5	1024.8	988.9	947.4	921.0	898.3	868.1
40°	1508.0	1517.3	1538.1	1353.2	1226.7	1175.8	1139.9	1087.1	1060.7	1032.3	996.5
42.5°	1687.3	1700.4	1702.3	1506.1	1360.8	1326.8	1298.4	1258.9	1230.5	1196.5	1164.5
45°	1860.9	1862.7	1868.5	1670.2	1525.0	1481.6	1460.7	1423.1	1387.2	1343.8	1317.4
47.5°	1979.8	1974.0	1998.5	1859.0	1717.4	1668.3	1638.1	1581.6	1526.8	1472.1	1432.4
50°	2125.1	2119.4	2119.4	2074.1	1940.1	1883.5	1830.7	1724.9	1666.4	1598.5	1541.9
52.5°	2253.4	2232.6	2245.9	2272.3	2174.2	2102.4	2010.0	1891.0	1813.7	1730.7	1658.9
55°	2428.8	2321.3	2351.5	2444.0	2406.3	2294.9	2172.2	2045.8	1957.0	1862.7	1796.7
57.5°	2368.5	2294.9	2383.7	2546.0	2544.0	2440.2	2336.4	2181.6	2093.1	2004.3	1923.1
60°	2151.5	2189.2	2381.8	2615.8	2625.2	2544.0	2459.1	2315.7	2245.9	2153.3	2072.2
62.5°	1983.5	2038.3	2302.4	2610.0	2717.6	2642.2	2572.4	2487.5	2438.4	2360.9	2277.9
65°	1974.0	2006.2	2262.8	2604.5	2847.9	2808.2	2776.2	2736.6	2727.2	2670.5	2574.3
67.5°	2064.7	2094.8	2330.8	2749.7	3040.4	3023.4	3070.6	3063.0	3104.5	3076.2	2996.9
70°	1887.2	1904.2	2194.9	2800.7	3480.1	3555.6	3661.3	3655.7	3744.3	3676.4	3583.9
72.5°	1324.9	1358.9	1615.5	2313.8	3489.6	3893.4	4138.9	4346.4	4442.7	4459.6	4416.2
73°	1183.2	1209.7	1447.5	2155.2	3395.2	3825.5	4155.8	4369.1	4454.0	4506.8	4510.6
75°	411.4	424.6	632.2	1306.0	2713.9	3338.6	3763.2	3955.8	3934.9	4089.7	4259.5
77.5°	132.1	133.9	164.2	337.9	1309.8	2072.2	2546.0	2723.3	2621.4	2789.3	3015.9
80°	81.2	84.9	107.5	152.9	343.5	628.5	1064.4	1332.5	1277.7	1434.3	1675.9
82.5°	49.0	50.9	66.0	94.3	137.8	152.9	200.1	271.7	334.0	402.0	526.6
85°	22.6	24.5	32.1	43.4	56.6	58.5	56.6	52.8	60.4	69.8	81.2
87.5°	0.0	0.0	1.9	3.8	1.9	0.0	0.0	0.0	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°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.6	9.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.8	29.9
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.2
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	68.9
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.7	89.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.3	110.4
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	131.9	132.1
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.5	153.6
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	175.9
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.6	198.7
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.0
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.6
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.3	271.4
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.8	293.9
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.7	316.8
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.2	339.4
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.6	360.7
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.0
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.8	402.9
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	424.4
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	444.8
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.5
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.2
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	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	531.2	531.2
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	541.9
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.3
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.7
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.6
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	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°	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
2.5°	722.9	717.2	717.2	709.6	713.3	705.9	709.6	702.0	705.9	696.4	702.0
5°	734.2	724.8	724.8	713.3	715.3	702.0	707.8	692.6	700.2	683.3	694.5
7.5°	739.8	722.9	730.4	709.6	719.0	696.4	707.8	683.3	698.3	671.8	690.8
10°	747.4	722.9	736.0	713.3	724.8	698.3	713.3	683.3	702.0	670.0	686.9
12.5°	758.7	732.3	743.5	717.2	732.3	702.0	717.2	686.9	705.9	670.0	690.8
15°	766.3	739.8	751.2	724.8	736.0	702.0	720.9	685.0	705.9	668.1	690.8
17.5°	764.4	739.8	751.2	720.9	734.2	700.2	719.0	683.3	702.0	662.4	686.9
20°	756.8	736.0	743.5	717.2	728.4	694.5	711.5	675.6	696.4	656.8	681.4
22.5°	747.4	726.5	736.0	711.5	722.9	688.9	703.9	671.8	692.6	653.0	675.6
25°	741.7	724.8	730.4	705.9	720.9	690.8	705.9	670.0	692.6	653.0	679.4
27.5°	739.8	724.8	736.0	713.3	726.5	700.2	715.3	683.3	702.0	660.5	686.9
30°	751.2	737.9	747.4	728.4	739.8	713.3	728.4	698.3	717.2	677.5	707.8
32.5°	764.4	751.2	760.5	743.5	760.5	734.2	753.0	722.9	745.4	705.9	734.2
35°	792.7	777.6	790.8	771.9	790.8	769.9	790.8	758.7	786.9	747.4	777.6
37.5°	866.2	824.7	838.0	817.2	836.1	809.6	845.5	813.4	845.5	807.8	849.3
40°	983.3	909.6	922.9	879.5	907.7	868.1	911.6	887.1	930.5	883.2	936.0
42.5°	1136.2	1066.3	1053.2	987.1	1011.6	964.4	1007.8	964.4	1022.9	977.6	1043.7
45°	1275.9	1202.2	1181.5	1117.2	1134.3	1071.9	1126.7	1066.3	1143.7	1090.8	1173.8
47.5°	1390.9	1304.1	1287.1	1213.5	1243.7	1185.2	1253.1	1189.0	1283.4	1230.5	1326.8
50°	1496.6	1389.0	1385.3	1306.0	1357.0	1298.4	1394.7	1351.3	1443.8	1390.9	1504.1
52.5°	1617.4	1481.6	1500.3	1428.7	1509.8	1460.7	1572.1	1509.8	1630.6	1574.0	1698.5
55°	1745.8	1602.3	1651.4	1608.0	1704.3	1672.1	1766.4	1709.8	1828.8	1772.2	1904.2
57.5°	1887.2	1764.6	1851.4	1830.7	1915.5	1875.9	1981.6	1930.6	2049.6	2002.4	2134.6
60°	2072.2	1991.0	2076.1	2074.1	2147.7	2145.8	2213.7	2183.6	2296.8	2276.0	2396.9
62.5°	2311.9	2247.6	2338.3	2313.8	2402.4	2387.3	2470.4	2470.4	2551.5	2579.9	2700.7
65°	2634.5	2549.7	2657.3	2619.5	2708.2	2712.1	2764.8	2774.2	2872.4	2904.5	3008.3
67.5°	3072.5	2974.4	3059.3	2987.5	3089.5	3083.8	3129.1	3148.0	3161.1	3238.6	3249.9
70°	3702.8	3555.6	3632.9	3534.9	3553.8	3566.9	3482.0	3544.4	3393.3	3516.0	3349.9
72.5°	4384.1	4216.1	4082.2	3984.1	3789.6	3761.3	3514.1	3566.9	3246.1	3351.8	3015.9
73°	4420.0	4257.7	4076.5	3974.6	3744.3	3714.1	3449.9	3495.2	3140.5	3240.5	2887.5
75°	4018.0	4061.3	3625.5	3667.0	3266.9	3314.0	2900.8	2953.5	2517.6	2593.0	2138.2
77.5°	2708.2	2853.6	2364.8	2547.9	2051.5	2234.5	1674.0	1691.0	1234.3	1153.2	783.2
80°	1341.9	1466.4	1039.9	1136.2	762.4	749.3	456.7	379.4	322.7	330.3	339.6
82.5°	386.9	435.9	269.9	268.0	190.6	181.2	181.2	192.5	196.3	219.0	213.3
85°	73.6	88.8	77.3	103.8	92.4	101.9	94.3	109.4	101.9	126.4	109.4
87.5°	1.9	0.0	1.9	5.7	5.7	13.3	9.4	15.1	15.1	26.4	24.5
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°	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
2.5°	694.5	703.9	700.2	696.4	692.6	690.8	683.3	686.9	677.5	685.0	677.5
5°	679.4	690.8	685.0	677.5	673.8	670.0	656.8	666.3	651.1	664.4	653.0
7.5°	662.4	681.4	675.6	668.1	660.5	656.8	630.3	651.1	628.5	647.3	628.5
10°	656.8	677.5	670.0	660.5	653.0	649.3	617.1	641.7	617.1	637.9	613.4
12.5°	653.0	677.5	666.3	656.8	649.3	643.5	607.7	637.9	605.7	636.0	607.7
15°	649.3	677.5	662.4	651.1	643.5	637.9	600.2	634.1	598.3	632.2	600.2
17.5°	645.4	671.8	658.6	645.4	637.9	634.1	592.6	628.5	590.7	628.5	596.4
20°	639.9	666.3	651.1	637.9	630.3	624.7	583.2	620.9	581.2	619.0	583.2
22.5°	632.2	660.5	647.3	634.1	626.6	617.1	571.8	611.5	570.0	607.7	573.7
25°	634.1	664.4	647.3	634.1	622.9	613.4	564.2	607.7	560.5	598.3	560.5
27.5°	643.5	670.0	653.0	641.7	626.6	615.2	564.2	603.9	556.7	588.7	549.2
30°	662.4	688.9	673.8	656.8	643.5	628.5	573.7	605.7	556.7	577.5	537.8
32.5°	694.5	719.0	703.9	690.8	675.6	653.0	592.6	615.2	560.5	570.0	528.5
35°	736.0	766.3	758.7	749.3	730.4	690.8	624.7	628.5	568.1	562.4	515.2
37.5°	803.9	845.5	843.6	841.7	821.1	749.3	660.5	654.9	575.6	556.7	498.2
40°	892.6	941.7	955.0	968.1	924.7	819.1	702.0	681.4	579.4	545.5	471.8
42.5°	996.5	1062.5	1102.2	1126.7	1047.4	896.5	749.3	711.5	579.4	528.5	441.7
45°	1124.8	1202.2	1277.7	1304.1	1183.2	979.5	798.3	736.0	571.8	502.1	402.0
47.5°	1281.4	1372.0	1475.8	1489.1	1330.5	1068.2	832.3	753.0	547.2	466.2	366.1
50°	1455.1	1564.6	1717.4	1707.9	1487.1	1160.7	855.0	764.4	503.9	424.6	322.7
52.5°	1649.5	1787.3	2004.3	1960.9	1677.8	1275.9	875.7	779.4	451.1	375.6	279.4
55°	1892.9	2057.1	2328.9	2236.4	1889.1	1402.3	905.9	781.3	381.2	317.0	247.2
57.5°	2155.2	2330.8	2678.0	2510.0	2087.3	1500.3	892.6	720.9	311.4	268.0	222.7
60°	2470.4	2683.7	3027.2	2764.8	2253.4	1534.3	800.2	594.5	266.1	241.6	211.4
62.5°	2823.4	3034.7	3314.0	2942.3	2347.8	1477.7	594.5	411.4	228.3	215.1	194.4
65°	3199.0	3399.0	3451.7	2957.4	2285.5	1228.6	368.0	269.9	198.2	192.5	179.3
67.5°	3544.4	3563.1	3321.7	2712.1	1983.5	856.8	251.0	215.1	183.1	181.2	173.6
70°	3632.9	3306.5	2761.1	2111.8	1432.4	509.6	203.8	186.8	175.5	175.5	169.9
72.5°	3034.7	2517.6	1845.7	1279.5	781.3	271.7	173.6	169.9	166.1	166.1	162.3
73°	2846.0	2319.4	1653.2	1117.2	660.5	243.5	169.9	166.1	164.2	162.3	160.3
75°	1891.0	1457.1	938.0	566.2	307.6	175.5	150.9	150.9	149.1	150.9	149.1
77.5°	728.4	549.2	362.4	243.5	175.5	137.8	128.4	130.3	128.4	132.1	130.3
80°	320.9	317.0	239.7	171.8	128.4	103.8	103.8	103.8	105.7	107.5	107.5
82.5°	219.0	184.9	141.6	105.7	77.3	75.5	77.3	77.3	79.3	81.2	79.3
85°	120.8	101.9	75.5	47.3	41.5	50.9	50.9	50.9	49.0	49.0	47.3
87.5°	37.8	28.3	20.8	5.7	9.4	9.4	13.3	11.3	11.3	13.3	13.3
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°
												73°
												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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REPORT NUMBER: P  
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**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	110°	111.9
685.0	679.4	685.0	675.6	683.3	675.6	681.4	681.4	679.4	679.4	679.4	112.5°	133.5
662.4	653.0	662.4	656.8	662.4	654.9	660.5	662.4	664.4	670.0	668.1	115°	155.0
645.4	626.6	647.3	628.5	645.4	628.5	643.5	645.4	651.1	658.6	664.4	117.5°	177.7
637.9	613.4	637.9	615.2	636.0	617.1	636.0	637.9	643.5	653.0	662.4	120°	200.2
634.1	607.7	634.1	611.5	634.1	615.2	634.1	639.9	643.5	651.1	662.4	122.5°	223.8
630.3	603.9	634.1	609.6	634.1	615.2	636.0	639.9	645.4	653.0	662.4	125°	249.3
628.5	598.3	630.3	607.7	630.3	611.5	634.1	634.1	641.7	651.1	656.8	127.5°	271.8
620.9	592.6	620.9	598.3	620.9	603.9	622.9	622.9	630.3	634.1	643.5	130°	295.5
609.6	579.4	605.7	585.1	605.7	588.7	603.9	603.9	609.6	615.2	620.9	132.5°	319.0
592.6	564.2	587.0	568.1	583.2	568.1	579.4	577.5	581.2	585.1	588.7	135°	341.5
573.7	545.5	564.2	543.6	553.0	537.8	545.5	541.7	543.6	545.5	547.2	137.5°	362.2
553.0	524.7	534.1	515.2	517.2	502.1	505.7	500.2	498.2	496.3	492.6	140°	382.8
530.3	500.2	500.2	481.2	477.4	464.2	464.2	456.7	451.1	443.5	435.9	142.5°	404.3
502.1	475.7	462.4	447.3	439.7	426.5	424.6	415.2	402.0	388.8	381.2	145°	425.0
473.7	443.5	424.6	409.5	402.0	392.6	390.7	383.0	368.0	352.9	341.5	147.5°	443.7
435.9	405.8	385.0	379.4	373.7	366.1	368.0	358.5	343.5	326.5	317.0	150°	460.3
398.2	371.8	354.8	352.9	349.1	347.3	349.1	341.5	324.6	309.6	298.1	152.5°	477.0
366.1	339.6	322.7	320.9	319.0	326.5	328.4	326.5	307.6	292.5	277.5	155°	493.7
334.0	302.0	290.6	286.9	288.7	300.0	303.9	309.6	292.5	275.5	254.8	157.5°	507.5
296.4	266.1	262.3	258.5	260.5	269.9	279.4	290.6	275.5	251.0	222.7	160°	520.2
262.3	236.0	237.8	234.0	237.8	245.3	253.0	271.7	253.0	228.3	215.1	162.5°	530.0
236.0	215.1	219.0	215.1	219.0	228.3	234.0	249.1	249.1	243.5	232.1	165°	539.8
217.0	201.8	205.7	201.8	207.6	215.1	220.8	253.0	271.7	256.6	234.0	167.5°	547.7
205.7	192.5	194.4	190.6	194.4	205.7	217.0	254.8	285.0	254.8	237.8	170°	553.5
188.7	177.4	175.5	175.5	179.3	198.2	203.8	237.8	281.2	253.0	239.7	172.5°	556.5
177.4	167.9	166.1	164.2	167.9	181.2	186.8	220.8	271.7	239.7	217.0	175°	559.5
171.8	164.2	160.3	156.7	160.3	171.8	177.4	207.6	256.6	228.3	203.8	177.5°	563.3
166.1	158.6	156.7	152.9	154.8	162.3	169.9	190.6	243.5	215.1	190.6	180°	565.3
158.6	150.9	149.1	143.4	145.3	152.9	156.7	179.3	226.5	201.8	177.4		
156.7	149.1	147.2	141.6	143.4	149.1	152.9	175.5	222.7	200.1	175.5		
147.2	139.7	137.8	133.9	135.8	135.8	139.7	160.3	211.4	188.7	164.2		
130.3	124.5	122.7	118.8	117.0	115.2	120.8	141.6	192.5	169.9	132.1		
107.5	101.9	100.0	92.4	92.4	92.4	100.0	120.8	143.4	122.7	101.9		
79.3	75.5	75.5	69.8	67.9	66.0	71.8	83.0	113.3	96.3	79.3		
47.3	45.3	47.3	41.5	43.4	41.5	47.3	58.5	62.3	49.0	37.8		
11.3	13.3	13.3	13.3	11.3	11.3	9.4	7.5	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		

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 ISS-AF-1200-LED-E1-T4W-7027-ULG

REPORT NUMBER: P271620  
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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°	702.0	702.0
133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	126.6	123.7	2.5°	677.5	675.6
155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	148.2	146.2	5°	668.1	668.1
177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	170.8	168.8	7.5°	664.4	664.4
200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	194.3	192.3	10°	666.3	666.3
223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	218.8	216.9	12.5°	666.3	670.0
249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	243.4	242.5	15°	671.8	670.0
272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	267.0	265.0	17.5°	666.3	666.3
295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	288.5	287.5	20°	651.1	654.9
319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	312.1	311.2	22.5°	630.3	630.3
341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	334.7	332.7	25°	596.4	598.3
362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	357.3	356.3	27.5°	551.1	554.8
382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	378.8	377.8	30°	494.4	498.2
404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	399.5	400.5	32.5°	430.3	434.2
425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	420.0	420.0	35°	379.4	381.2
444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	439.7	438.7	37.5°	345.4	345.4
460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	456.4	455.4	40°	317.0	317.0
477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	473.0	474.0	42.5°	290.6	288.7
493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	491.7	492.7	45°	264.2	260.5
507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	506.5	507.5	47.5°	237.8	236.0
520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	519.2	519.2	50°	215.1	215.1
530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	528.0	529.0	52.5°	219.0	219.0
540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	537.8	538.8	55°	236.0	236.0
548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	547.7	548.7	57.5°	237.8	236.0
553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	554.5	555.5	60°	258.5	256.6
556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	556.5	558.5	62.5°	269.9	275.5
560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	558.5	559.5	65°	236.0	228.3
564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	563.3	564.3	67.5°	224.6	213.3
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°	201.8	184.9
										72.5°	179.3	169.9
										73°	173.6	166.1
										75°	154.8	150.9
										77.5°	117.0	115.2
										80°	98.2	96.3
										82.5°	66.0	62.3
										85°	28.3	26.4
										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  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

