

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: P227941

Luminaire Tested: **ISS-AF-1200-LED-E1-T4W-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227941  
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-8030-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6796.2 lumens  
Efficiency: N/A  
Efficacy: 82.2 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

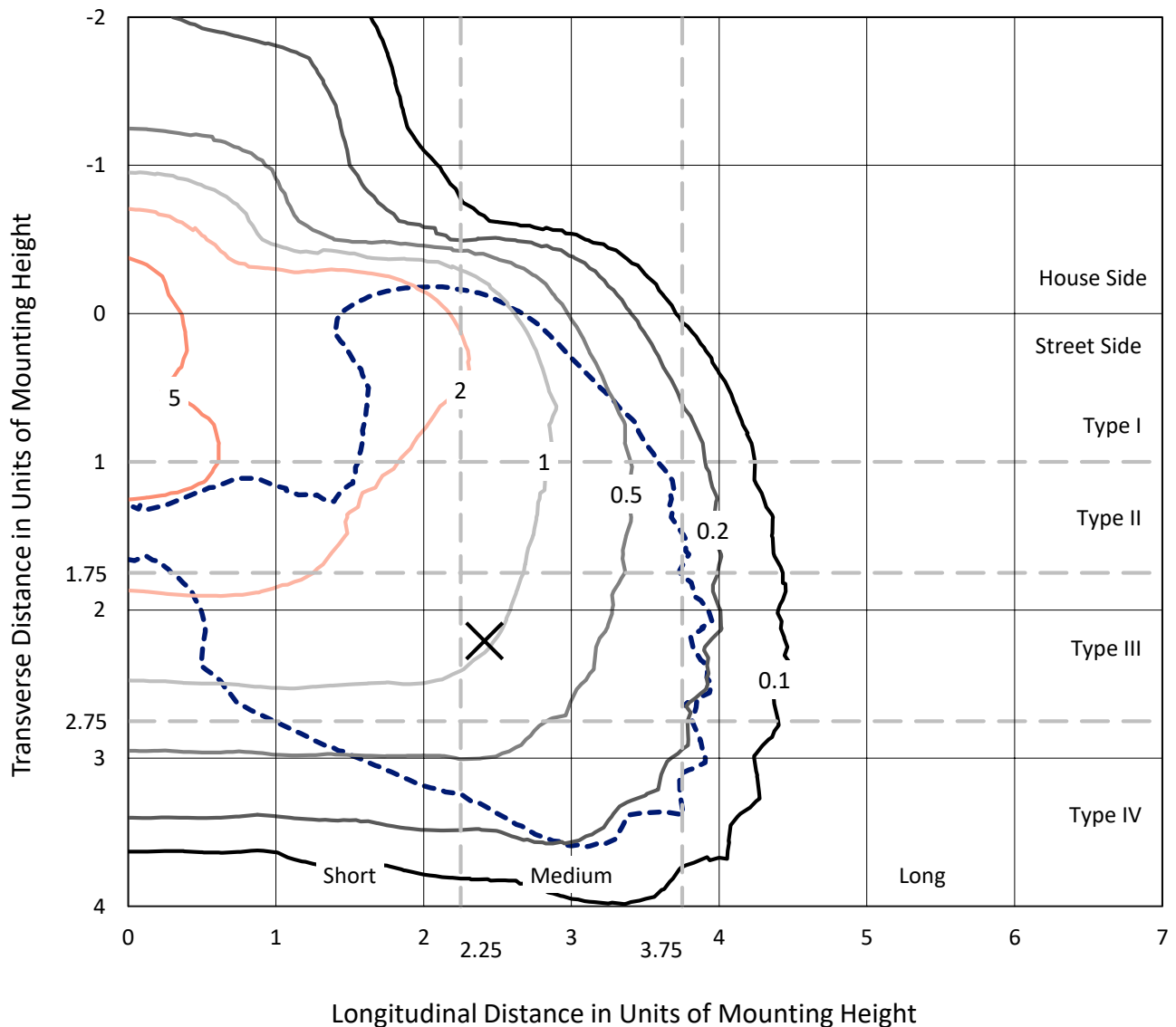


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### Iso-Footcandle Lines of Horizontal Illumination

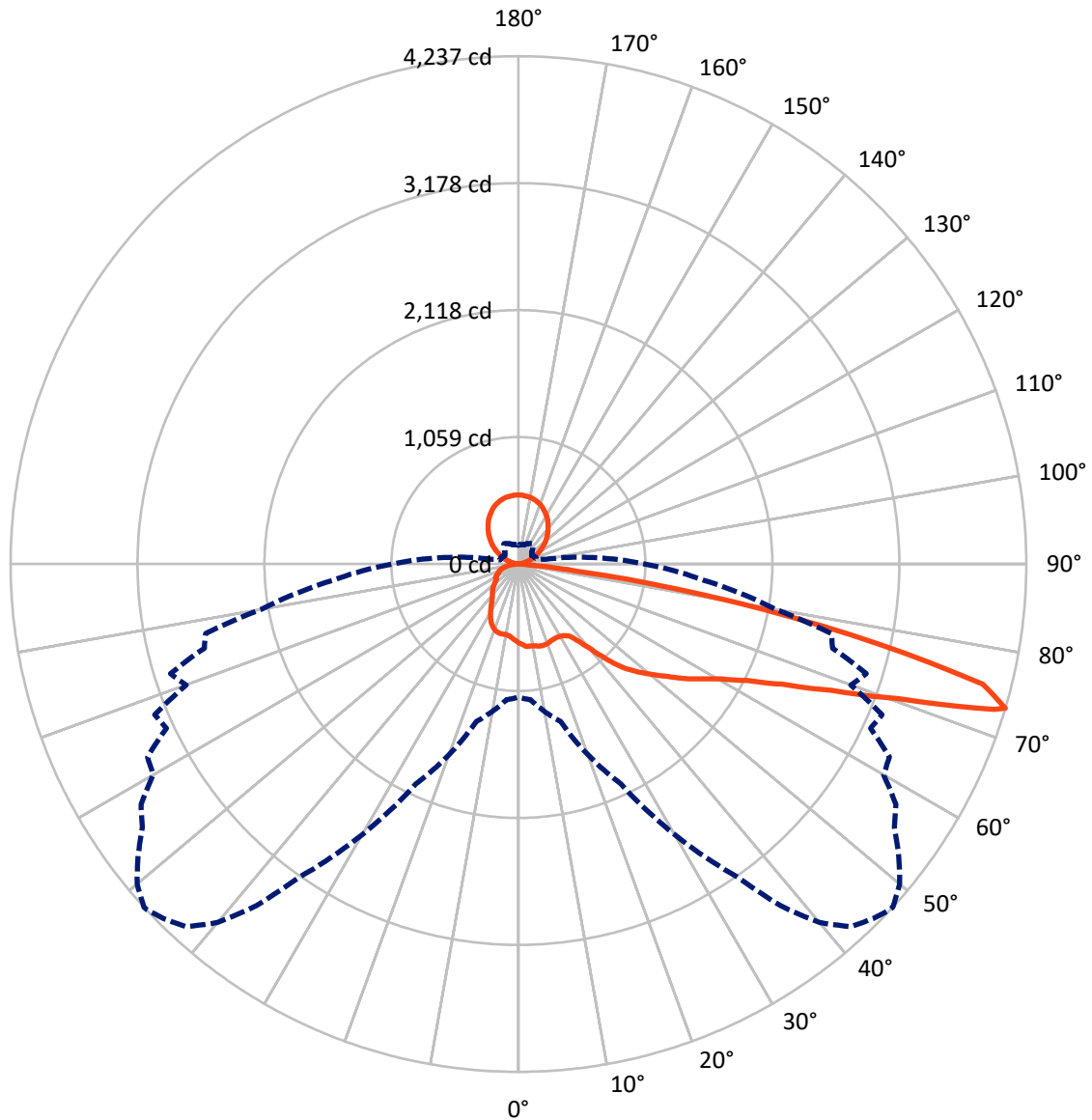
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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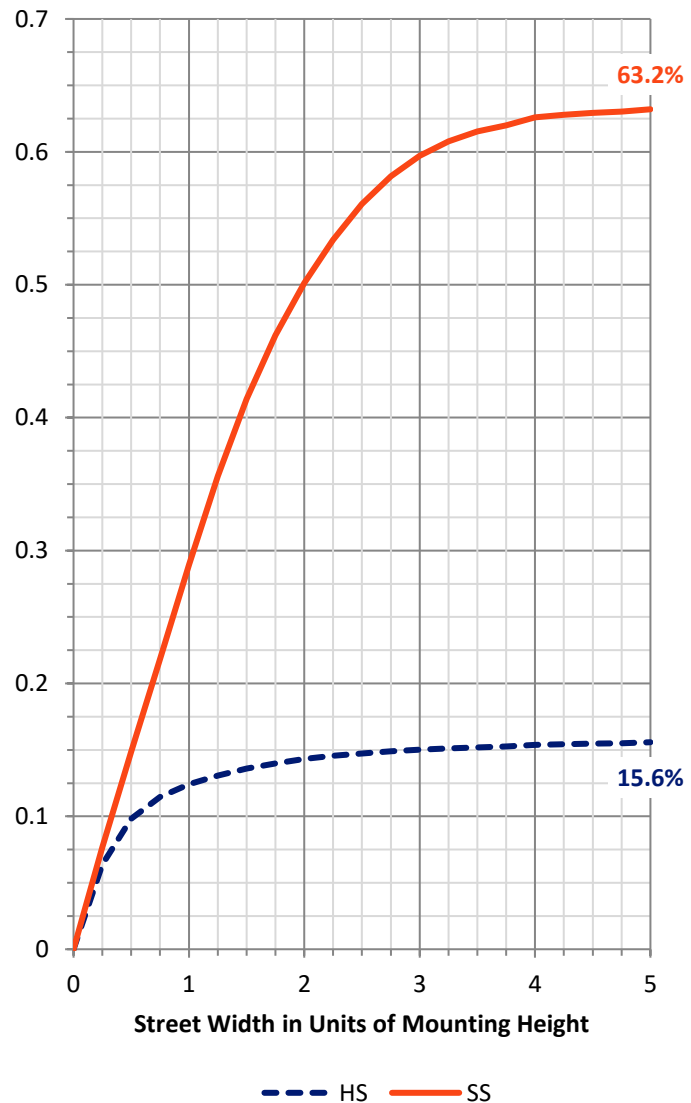
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1072.9	713.1	1786.0
	% Fixture	15.8	10.5	26.3
<b>Street Side</b>	Lumens	4297.1	713.1	5010.2
	% Fixture	63.2	10.5	73.7
<b>Total</b>	Lumens	5370.0	1426.2	6796.2
	% Fixture	79.0	21.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	0.9
10°-20°	186.8	2.7
20°-30°	287.2	4.2
30°-40°	419.0	6.2
40°-50°	690.9	10.2
50°-60°	1081.7	15.9
60°-70°	1467.3	21.6
70°-80°	1086.5	16.0
80°-90°	87.8	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.3
120°-130°	223.9	3.3
130°-140°	265.6	3.9
140°-150°	269.3	4.0
150°-160°	231.1	3.4
160°-170°	155.1	2.3
170°-180°	54.3	0.8
0°-90°	5370.0	79.0
0°-180°	6796.2	100.0



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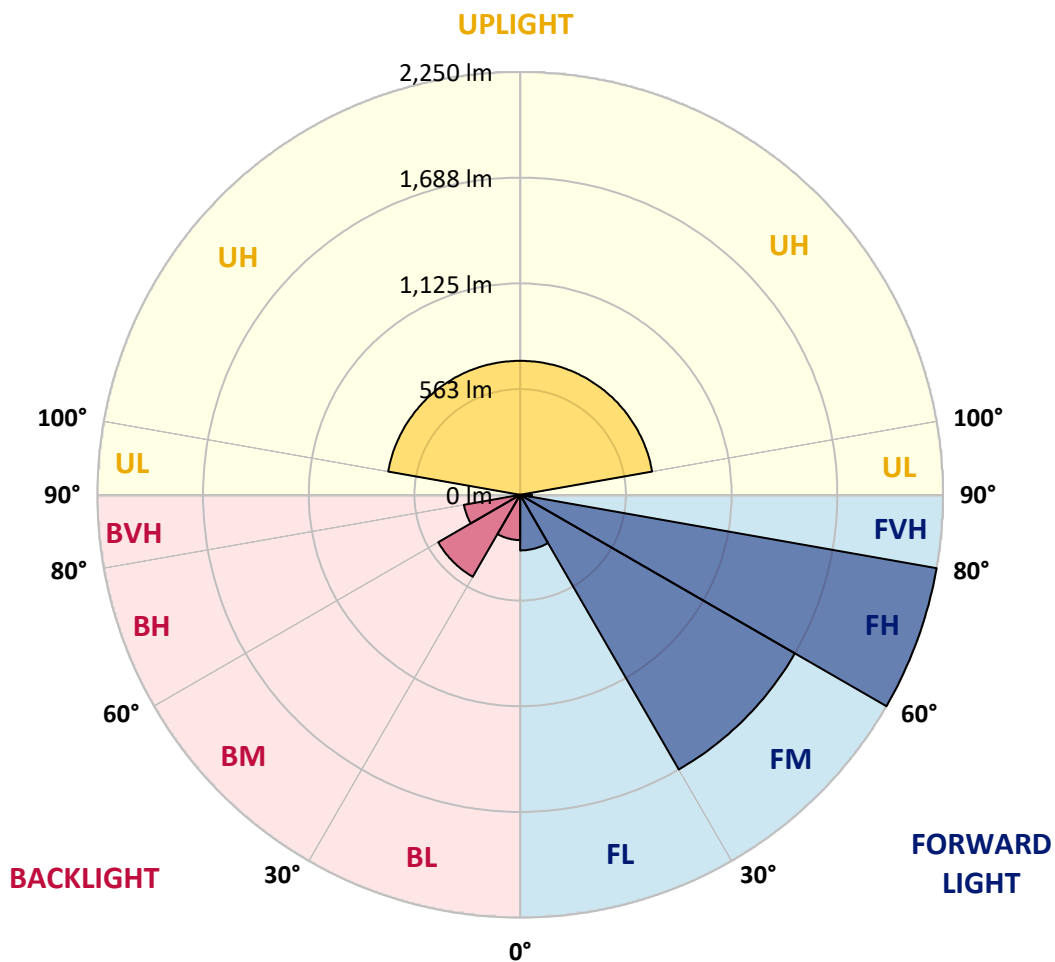
CATALOG NUMBER: ISS-AF-1200-LED-E1-T4W-8030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.0	4.4			
FM (30°-60°)	1687.7	24.8			
FH (60°-80°)	2250.1	33.1			G2/5000
FVH (80°-90°)	63.3	0.9			G1/100
BL (0°-30°)	240.8	3.5	B1/500		
BM (30°-60°)	503.8	7.4	B1/1000		
BH (60°-80°)	303.8	4.5	B1/500		G1/500
BVH (80°-90°)	24.5	0.4			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	10.5		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°	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4
2.5°	698.4	696.7	691.3	689.6	684.3	680.7	678.9	677.2	682.5	678.9	673.6
5°	742.8	739.2	732.1	721.5	710.8	703.8	702.0	698.4	698.4	694.9	691.3
7.5°	774.7	772.9	762.3	746.3	728.6	716.2	709.1	703.8	705.5	702.0	691.3
10°	804.8	801.3	783.5	764.0	737.4	723.3	714.4	705.5	712.6	707.3	693.1
12.5°	827.8	824.3	799.5	774.7	744.5	728.6	719.7	714.4	721.5	717.9	702.0
15°	840.3	836.7	811.9	781.8	749.8	732.1	728.6	725.0	730.3	723.3	709.1
17.5°	833.2	833.2	810.1	778.2	751.6	733.9	728.6	725.0	732.1	725.0	709.1
20°	806.6	810.1	794.2	760.5	741.0	728.6	723.3	716.2	723.3	716.2	705.5
22.5°	772.9	776.4	767.6	737.4	723.3	714.4	712.6	705.5	710.8	705.5	694.9
25°	742.8	742.8	739.2	712.6	710.8	703.8	705.5	702.0	705.5	698.4	691.3
27.5°	744.5	744.5	730.3	703.8	702.0	702.0	702.0	702.0	703.8	698.4	691.3
30°	849.1	852.7	811.9	737.4	710.8	707.3	709.1	707.3	709.1	707.3	698.4
32.5°	1006.9	1006.9	967.9	852.7	758.7	735.7	726.8	725.0	719.7	717.9	710.8
35°	1162.9	1161.1	1122.1	994.5	875.7	831.4	803.0	776.4	764.0	751.6	739.2
37.5°	1294.1	1288.7	1283.4	1138.1	1014.0	962.6	928.9	889.9	865.1	843.8	815.4
40°	1416.4	1425.2	1444.7	1271.0	1152.2	1104.4	1070.7	1021.1	996.2	969.7	936.0
42.5°	1584.8	1597.2	1599.0	1414.6	1278.1	1246.2	1219.6	1182.4	1155.8	1123.9	1093.7
45°	1747.9	1749.6	1755.0	1568.8	1432.3	1391.6	1372.1	1336.6	1302.9	1262.1	1237.3
47.5°	1859.5	1854.2	1877.3	1746.1	1613.1	1567.0	1538.7	1485.5	1434.1	1382.7	1345.5
50°	1996.0	1990.7	1990.7	1948.2	1822.3	1769.1	1719.5	1620.2	1565.3	1501.5	1448.3
52.5°	2116.6	2097.1	2109.5	2134.3	2042.1	1974.8	1887.9	1776.2	1703.5	1625.5	1558.2
55°	2281.4	2180.4	2208.8	2295.6	2260.2	2155.6	2040.4	1921.6	1838.3	1749.6	1687.6
57.5°	2224.7	2155.6	2238.9	2391.3	2389.6	2292.1	2194.6	2049.2	1965.9	1882.6	1806.4
60°	2020.9	2056.3	2237.1	2456.9	2465.8	2389.6	2309.8	2175.1	2109.5	2022.6	1946.4
62.5°	1863.1	1914.5	2162.7	2451.6	2552.7	2481.8	2416.2	2336.4	2290.3	2217.6	2139.6
65°	1854.2	1884.4	2125.4	2446.3	2675.0	2637.7	2607.6	2570.4	2561.5	2508.3	2417.9
67.5°	1939.3	1967.7	2189.3	2582.8	2855.8	2839.8	2884.2	2877.1	2916.1	2889.5	2815.0
70°	1772.7	1788.6	2061.6	2630.7	3268.8	3339.7	3439.0	3433.7	3517.0	3453.2	3366.3
72.5°	1244.4	1276.3	1517.4	2173.3	3277.7	3657.0	3887.5	4082.5	4172.9	4188.8	4148.1
73°	1111.5	1136.3	1359.6	2024.4	3189.1	3593.2	3903.4	4103.8	4183.5	4233.2	4236.7
75°	386.4	398.9	593.8	1226.7	2549.1	3135.9	3534.7	3715.5	3696.0	3841.4	4000.9
77.5°	124.1	125.9	154.2	317.3	1230.2	1946.4	2391.3	2558.0	2462.3	2620.0	2832.7
80°	76.2	79.8	101.0	143.6	322.6	590.3	999.8	1251.5	1200.1	1347.2	1574.1
82.5°	46.1	47.9	62.0	88.6	129.4	143.6	187.9	255.3	313.8	377.6	494.6
85°	21.3	23.0	30.1	40.8	53.2	55.0	53.2	49.6	56.7	65.6	76.2
87.5°	0.0	0.0	1.8	3.5	1.8	0.0	0.0	0.0	0.0	1.8	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	5.2	6.5	7.8	9.0	9.8	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.4	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.4	91.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.4	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.4	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.4	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.4	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.4	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.4	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.6	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.6	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.4	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.4	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.4	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.2
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0





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**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4
2.5°	678.9	673.6	673.6	666.5	670.1	663.0	666.5	659.4	663.0	654.1	659.4
5°	689.6	680.7	680.7	670.1	671.8	659.4	664.8	650.6	657.7	641.7	652.3
7.5°	694.9	678.9	686.0	666.5	675.4	654.1	664.8	641.7	655.9	631.1	648.8
10°	702.0	678.9	691.3	670.1	680.7	655.9	670.1	641.7	659.4	629.3	645.3
12.5°	712.6	687.8	698.4	673.6	687.8	659.4	673.6	645.3	663.0	629.3	648.8
15°	719.7	694.9	705.5	680.7	691.3	659.4	677.2	643.5	663.0	627.5	648.8
17.5°	717.9	694.9	705.5	677.2	689.6	657.7	675.4	641.7	659.4	622.2	645.3
20°	710.8	691.3	698.4	673.6	684.3	652.3	668.3	634.6	654.1	616.9	639.9
22.5°	702.0	682.5	691.3	668.3	678.9	647.0	661.2	631.1	650.6	613.3	634.6
25°	696.7	680.7	686.0	663.0	677.2	648.8	663.0	629.3	650.6	613.3	638.2
27.5°	694.9	680.7	691.3	670.1	682.5	657.7	671.8	641.7	659.4	620.4	645.3
30°	705.5	693.1	702.0	684.3	694.9	670.1	684.3	655.9	673.6	636.4	664.8
32.5°	717.9	705.5	714.4	698.4	714.4	689.6	707.3	678.9	700.2	663.0	689.6
35°	744.5	730.3	742.8	725.0	742.8	723.3	742.8	712.6	739.2	702.0	730.3
37.5°	813.7	774.7	787.1	767.6	785.3	760.5	794.2	764.0	794.2	758.7	797.7
40°	923.6	854.4	866.8	826.1	852.7	815.4	856.2	833.2	873.9	829.6	879.2
42.5°	1067.2	1001.6	989.2	927.1	950.2	905.8	946.6	905.8	960.8	918.2	980.3
45°	1198.3	1129.2	1109.7	1049.4	1065.4	1006.9	1058.3	1001.6	1074.2	1024.6	1102.6
47.5°	1306.5	1224.9	1209.0	1139.8	1168.2	1113.2	1177.1	1116.8	1205.4	1155.8	1246.2
50°	1405.7	1304.7	1301.1	1226.7	1274.6	1219.6	1310.0	1269.2	1356.1	1306.5	1412.8
52.5°	1519.2	1391.6	1409.3	1341.9	1418.1	1372.1	1476.6	1418.1	1531.6	1478.4	1595.4
55°	1639.7	1505.0	1551.1	1510.3	1600.7	1570.6	1659.2	1606.0	1717.7	1664.5	1788.6
57.5°	1772.7	1657.5	1739.0	1719.5	1799.3	1762.0	1861.3	1813.5	1925.1	1880.8	2004.9
60°	1946.4	1870.2	1949.9	1948.2	2017.3	2015.5	2079.4	2051.0	2157.4	2137.9	2251.3
62.5°	2171.5	2111.3	2196.4	2173.3	2256.6	2242.4	2320.4	2320.4	2396.7	2423.3	2536.7
65°	2474.7	2394.9	2495.9	2460.5	2543.8	2547.3	2597.0	2605.8	2698.0	2728.2	2825.7
67.5°	2885.9	2793.7	2873.5	2806.2	2901.9	2896.6	2939.1	2956.8	2969.2	3041.9	3052.6
70°	3478.0	3339.7	3412.4	3320.2	3338.0	3350.4	3270.6	3329.1	3187.3	3302.5	3146.5
72.5°	4117.9	3960.2	3834.3	3742.1	3559.5	3533.0	3300.7	3350.4	3049.0	3148.3	2832.7
73°	4151.6	3999.2	3829.0	3733.3	3517.0	3488.6	3240.5	3283.0	2949.7	3043.7	2712.2
75°	3774.0	3814.8	3405.3	3444.3	3068.5	3112.8	2724.6	2774.2	2364.8	2435.7	2008.4
77.5°	2543.8	2680.3	2221.2	2393.1	1926.9	2098.9	1572.4	1588.3	1159.3	1083.1	735.7
80°	1260.4	1377.4	976.7	1067.2	716.2	703.8	429.0	356.3	303.1	310.2	319.1
82.5°	363.4	409.5	253.5	251.7	179.0	170.2	170.2	180.8	184.4	205.6	200.3
85°	69.1	83.3	72.7	97.5	86.9	95.7	88.6	102.8	95.7	118.8	102.8
87.5°	1.8	0.0	1.8	5.3	5.3	12.4	8.9	14.2	14.2	24.8	23.0
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°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4
2.5°	652.3	661.2	657.7	654.1	650.6	648.8	641.7	645.3	636.4	643.5	636.4
5°	638.2	648.8	643.5	636.4	632.8	629.3	616.9	625.8	611.6	624.0	613.3
7.5°	622.2	639.9	634.6	627.5	620.4	616.9	592.1	611.6	590.3	608.0	590.3
10°	616.9	636.4	629.3	620.4	613.3	609.8	579.7	602.7	579.7	599.2	576.1
12.5°	613.3	636.4	625.8	616.9	609.8	604.5	570.8	599.2	569.0	597.4	570.8
15°	609.8	636.4	622.2	611.6	604.5	599.2	563.7	595.6	561.9	593.8	563.7
17.5°	606.3	631.1	618.7	606.3	599.2	595.6	556.6	590.3	554.8	590.3	560.2
20°	600.9	625.8	611.6	599.2	592.1	586.8	547.8	583.2	546.0	581.4	547.8
22.5°	593.8	620.4	608.0	595.6	588.5	579.7	537.1	574.3	535.3	570.8	538.9
25°	595.6	624.0	608.0	595.6	585.0	576.1	530.0	570.8	526.5	561.9	526.5
27.5°	604.5	629.3	613.3	602.7	588.5	577.9	530.0	567.3	522.9	553.1	515.8
30°	622.2	647.0	632.8	616.9	604.5	590.3	538.9	569.0	522.9	542.4	505.2
32.5°	652.3	675.4	661.2	648.8	634.6	613.3	556.6	577.9	526.5	535.3	496.4
35°	691.3	719.7	712.6	703.8	686.0	648.8	586.8	590.3	533.6	528.3	483.9
37.5°	755.2	794.2	792.4	790.6	771.1	703.8	620.4	615.1	540.7	522.9	468.0
40°	838.5	884.6	897.0	909.4	868.6	769.3	659.4	639.9	544.2	512.3	443.2
42.5°	936.0	998.0	1035.2	1058.3	983.8	842.0	703.8	668.3	544.2	496.4	414.8
45°	1056.5	1129.2	1200.1	1224.9	1111.5	920.0	749.8	691.3	537.1	471.5	377.6
47.5°	1203.6	1288.7	1386.2	1398.6	1249.7	1003.3	781.8	707.3	514.1	437.9	343.9
50°	1366.7	1469.6	1613.1	1604.3	1396.9	1090.2	803.0	717.9	473.3	398.9	303.1
52.5°	1549.3	1678.7	1882.6	1841.8	1575.9	1198.3	822.5	732.1	423.7	352.8	262.4
55°	1778.0	1932.2	2187.5	2100.6	1774.5	1317.1	850.9	733.9	358.1	297.8	232.2
57.5°	2024.4	2189.3	2515.4	2357.7	1960.6	1409.3	838.5	677.2	292.5	251.7	209.2
60°	2320.4	2520.8	2843.4	2597.0	2116.6	1441.2	751.6	558.4	249.9	226.9	198.5
62.5°	2651.9	2850.5	3112.8	2763.6	2205.2	1388.0	558.4	386.4	214.5	202.1	182.6
65°	3004.7	3192.6	3242.2	2777.8	2146.7	1154.0	345.7	253.5	186.1	180.8	168.4
67.5°	3329.1	3346.8	3119.9	2547.3	1863.1	804.8	235.8	202.1	171.9	170.2	163.1
70°	3412.4	3105.7	2593.4	1983.6	1345.5	478.6	191.4	175.5	164.9	164.9	159.5
72.5°	2850.5	2364.8	1733.7	1201.9	733.9	255.3	163.1	159.5	156.0	156.0	152.5
73°	2673.2	2178.6	1552.9	1049.4	620.4	228.7	159.5	156.0	154.2	152.5	150.7
75°	1776.2	1368.5	881.0	531.8	288.9	164.9	141.8	141.8	140.0	141.8	140.0
77.5°	684.3	515.8	340.4	228.7	164.9	129.4	120.5	122.3	120.5	124.1	122.3
80°	301.4	297.8	225.1	161.3	120.5	97.5	97.5	97.5	99.3	101.0	101.0
82.5°	205.6	173.7	133.0	99.3	72.7	70.9	72.7	72.7	74.5	76.2	74.5
85°	113.5	95.7	70.9	44.3	39.0	47.9	47.9	47.9	46.1	46.1	44.3
87.5°	35.5	26.6	19.5	5.3	8.9	8.9	12.4	10.6	10.6	12.4	12.4
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°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



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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°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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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**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	110°	114.0
643.5	638.2	643.5	634.6	641.7	634.6	639.9	639.9	638.2	638.2	638.2	112.5°	136.0
622.2	613.3	622.2	616.9	622.2	615.1	620.4	622.2	624.0	629.3	627.5	115°	158.0
606.3	588.5	608.0	590.3	606.3	590.3	604.5	606.3	611.6	618.7	624.0	117.5°	181.0
599.2	576.1	599.2	577.9	597.4	579.7	597.4	599.2	604.5	613.3	622.2	120°	204.0
595.6	570.8	595.6	574.3	595.6	577.9	595.6	600.9	604.5	611.6	622.2	122.5°	228.0
592.1	567.3	595.6	572.6	595.6	577.9	597.4	600.9	606.3	613.3	622.2	125°	254.0
590.3	561.9	592.1	570.8	592.1	574.3	595.6	595.6	602.7	611.6	616.9	127.5°	277.0
583.2	556.6	583.2	561.9	583.2	567.3	585.0	585.0	592.1	595.6	604.5	130°	301.0
572.6	544.2	569.0	549.5	569.0	553.1	567.3	567.3	572.6	577.9	583.2	132.5°	325.0
556.6	530.0	551.3	533.6	547.8	533.6	544.2	542.4	546.0	549.5	553.1	135°	348.0
538.9	512.3	530.0	510.5	519.4	505.2	512.3	508.8	510.5	512.3	514.1	137.5°	369.0
519.4	492.8	501.7	483.9	485.7	471.5	475.1	469.8	468.0	466.2	462.7	140°	390.0
498.1	469.8	469.8	452.0	448.5	436.1	436.1	429.0	423.7	416.6	409.5	142.5°	412.0
471.5	446.7	434.3	420.1	413.0	400.6	398.9	390.0	377.6	365.2	358.1	145°	433.0
444.9	416.6	398.9	384.7	377.6	368.7	366.9	359.9	345.7	331.5	320.9	147.5°	452.0
409.5	381.1	361.6	356.3	351.0	343.9	345.7	336.8	322.6	306.7	297.8	150°	469.0
374.0	349.2	333.3	331.5	327.9	326.2	327.9	320.9	304.9	290.7	280.1	152.5°	486.0
343.9	319.1	303.1	301.4	299.6	306.7	308.4	306.7	288.9	274.8	260.6	155°	503.0
313.8	283.6	273.0	269.4	271.2	281.9	285.4	290.7	274.8	258.8	239.3	157.5°	517.0
278.3	249.9	246.4	242.9	244.6	253.5	262.4	273.0	258.8	235.8	209.2	160°	530.0
246.4	221.6	223.4	219.8	223.4	230.4	237.5	255.3	237.5	214.5	202.1	162.5°	540.0
221.6	202.1	205.6	202.1	205.6	214.5	219.8	234.0	234.0	228.7	218.0	165°	550.0
203.9	189.7	193.2	189.7	195.0	202.1	207.4	237.5	255.3	241.1	219.8	167.5°	558.0
193.2	180.8	182.6	179.0	182.6	193.2	203.9	239.3	267.7	239.3	223.4	170°	564.0
177.3	166.6	164.9	164.9	168.4	186.1	191.4	223.4	264.1	237.5	225.1	172.5°	567.0
166.6	157.8	156.0	154.2	157.8	170.2	175.5	207.4	255.3	225.1	203.9	175°	570.0
161.3	154.2	150.7	147.1	150.7	161.3	166.6	195.0	241.1	214.5	191.4	177.5°	574.0
156.0	148.9	147.1	143.6	145.4	152.5	159.5	179.0	228.7	202.1	179.0	180°	576.0
148.9	141.8	140.0	134.7	136.5	143.6	147.1	168.4	212.7	189.7	166.6		
147.1	140.0	138.3	133.0	134.7	140.0	143.6	164.9	209.2	187.9	164.9		
138.3	131.2	129.4	125.9	127.6	127.6	131.2	150.7	198.5	177.3	154.2		
122.3	117.0	115.2	111.7	109.9	108.1	113.5	133.0	180.8	159.5	124.1		
101.0	95.7	94.0	86.9	86.9	86.9	94.0	113.5	134.7	115.2	95.7		
74.5	70.9	70.9	65.6	63.8	62.0	67.4	78.0	106.4	90.4	74.5		
44.3	42.5	44.3	39.0	40.8	39.0	44.3	55.0	58.5	46.1	35.5		
10.6	12.4	12.4	12.4	10.6	10.6	8.9	7.1	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		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

'227941  
 ISS-AF-1200-LED-E1-T4W-8030-ULG

REPORT NUMBER: P227941  
 CATALOG NUMBER: ISS-AF-12

**TION (continued):**

**CANDELA DISTRIBUTION (con**

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	659.4	659.4
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	636.4	634.6
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	627.5	627.5
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	624.0	624.0
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	625.8	625.8
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	625.8	629.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	631.1	629.3
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	625.8	625.8
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	611.6	615.1
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	592.1	592.1
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	560.2	561.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	517.6	521.2
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	464.4	468.0
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	404.2	407.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	356.3	358.1
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	324.4	324.4
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	297.8	297.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	273.0	271.2
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	248.2	244.6
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	223.4	221.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	202.1	202.1
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	205.6	205.6
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	221.6	221.6
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	223.4	221.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	242.9	241.1
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	253.5	258.8
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	221.6	214.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	210.9	200.3
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	189.7	173.7
										72.5°	168.4	159.5
										73°	163.1	156.0
										75°	145.4	141.8
										77.5°	109.9	108.1
										80°	92.2	90.4
										82.5°	62.0	58.5
										85°	26.6	24.8
										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°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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**CANDELA DISTRIBUTION (continued):**

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

