

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: P228314

Luminaire Tested: **ISS-AF-800-LED-E1-SL4-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228314  
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-800-LED-E1-SL4-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5255.2 lumens  
Efficiency: N/A  
Efficacy: 87.3 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 - G1  
  
Input Watts (W): 60.2  
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

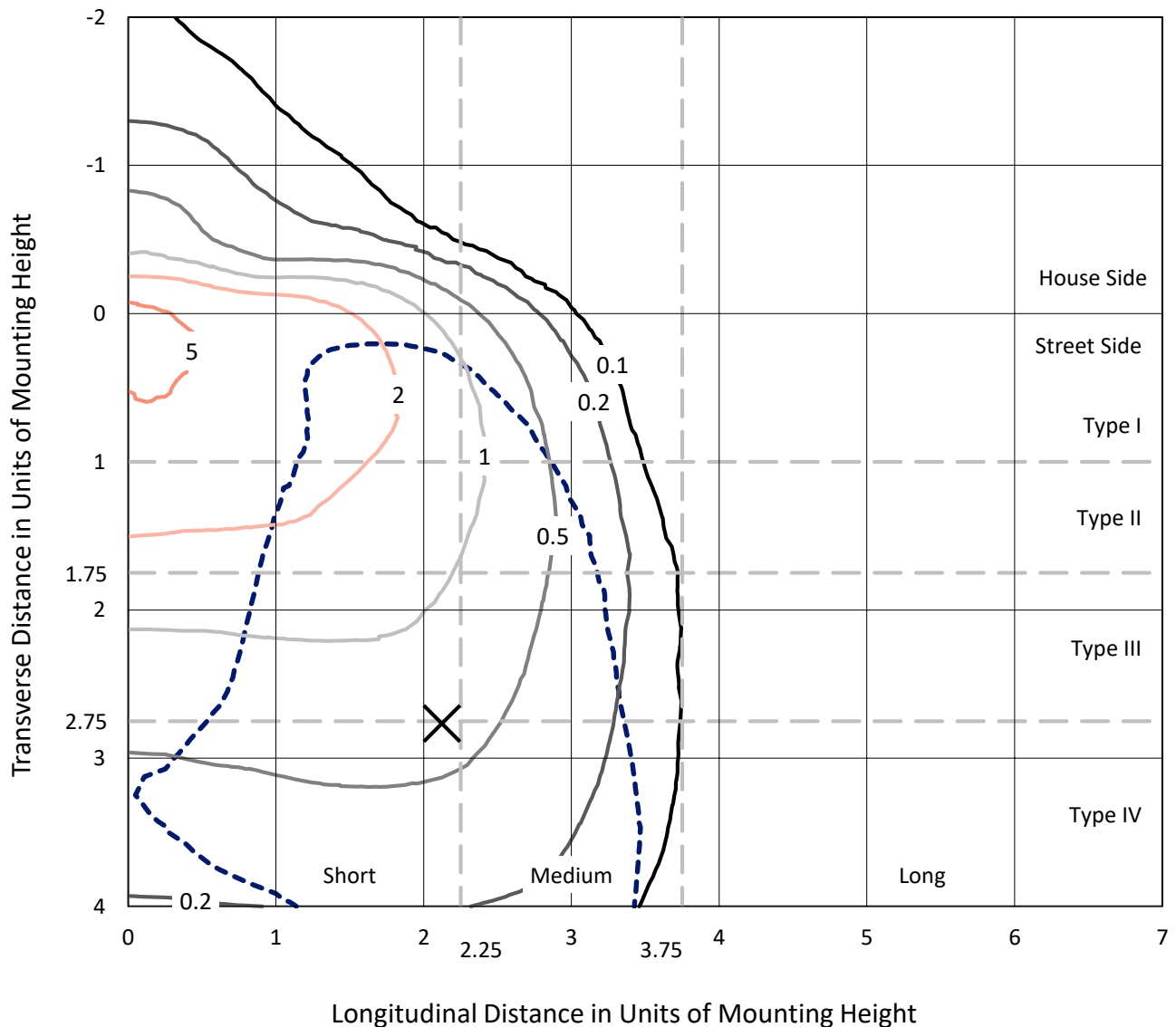


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

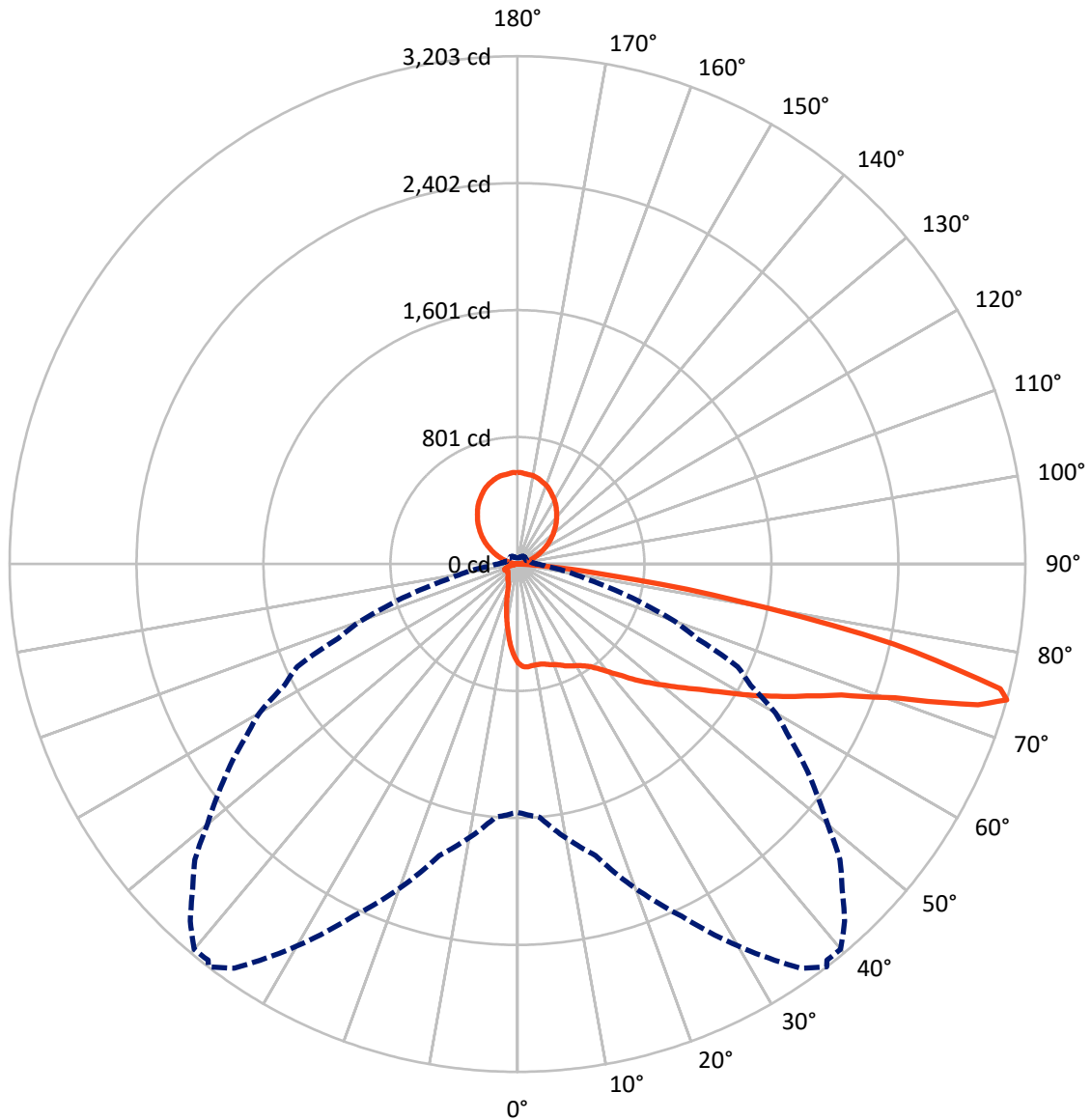


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - Non-Cutoff

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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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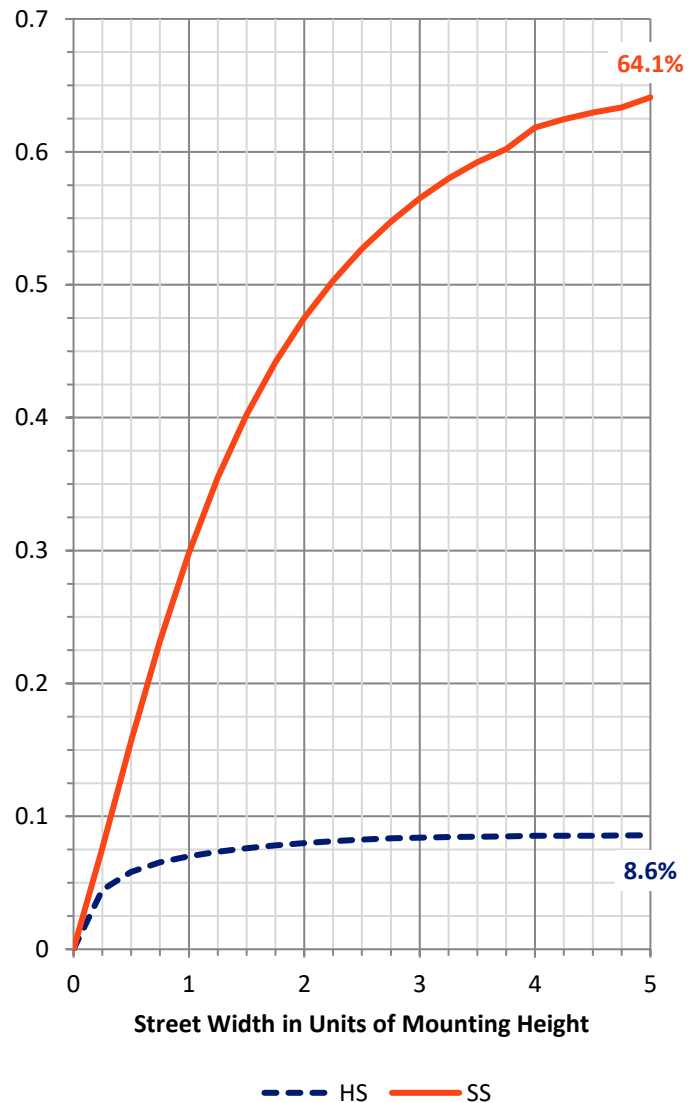
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	454.0	713.1	1167.1
	% Fixture	8.6	13.6	22.2
<b>Street Side</b>	Lumens	3375.0	713.1	4088.1
	% Fixture	64.2	13.6	77.8
<b>Total</b>	Lumens	3829.0	1426.2	5255.2
	% Fixture	72.9	27.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	1.0
10°-20°	138.6	2.6
20°-30°	214.8	4.1
30°-40°	318.5	6.1
40°-50°	490.0	9.3
50°-60°	724.3	13.8
60°-70°	965.5	18.4
70°-80°	833.4	15.9
80°-90°	89.6	1.7
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.9
120°-130°	223.9	4.3
130°-140°	265.6	5.1
140°-150°	269.3	5.1
150°-160°	231.1	4.4
160°-170°	155.1	3.0
170°-180°	54.3	1.0
0°-90°	3829.0	72.9
0°-180°	5255.2	100.0



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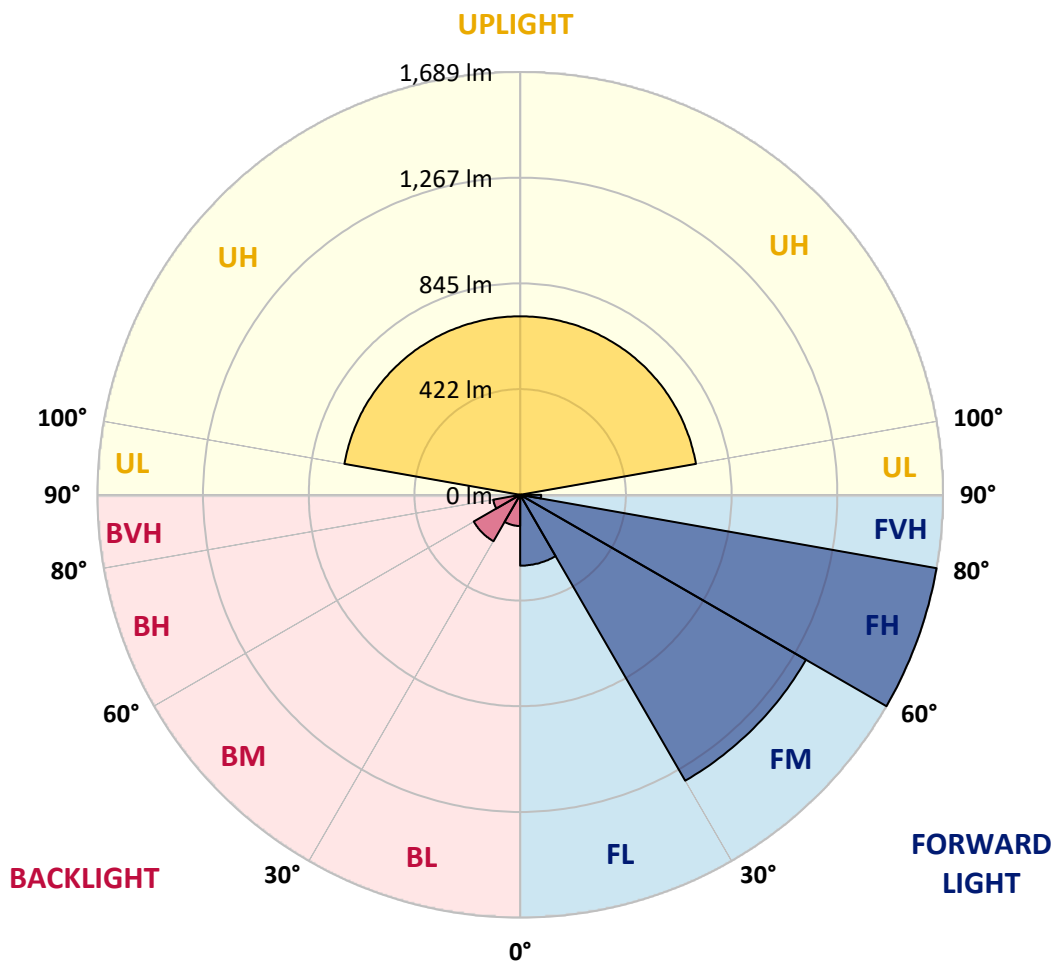
CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-7030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.1	5.4			
FM	(30°-60°)	1318.8	25.1			
FH	(60°-80°)	1689.4	32.1			G1/1800
FVH	(80°-90°)	83.7	1.6			G1/100
BL	(0°-30°)	124.7	2.4	B1/500		
BM	(30°-60°)	214.0	4.1	B0/220		
BH	(60°-80°)	109.5	2.1	B0/110		G0/110
BVH	(80°-90°)	5.9	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	13.6		U4/1000	

**BUG Rating: B1-U5-G1**

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°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	660.6	659.1	656.3	654.9	652.0	647.7	652.0	646.3	643.4	646.3	640.6
5°	672.0	670.6	667.7	662.0	659.1	652.0	656.3	649.1	647.7	650.6	643.4
7.5°	673.4	670.6	666.3	659.1	656.3	647.7	650.6	642.0	639.1	642.0	637.7
10°	669.2	667.7	663.4	652.0	649.1	646.3	644.8	639.1	637.7	636.3	634.8
12.5°	662.0	662.0	659.1	654.9	653.4	647.7	649.1	643.4	644.8	642.0	639.1
15°	659.1	657.7	660.6	663.4	663.4	654.9	660.6	656.3	653.4	654.9	650.6
17.5°	656.3	657.7	667.7	673.4	676.3	667.7	676.3	667.7	662.0	669.2	662.0
20°	654.9	659.1	676.3	689.2	690.6	676.3	690.6	676.3	676.3	684.9	672.0
22.5°	662.0	669.2	693.5	707.8	710.6	692.0	709.2	690.6	690.6	697.8	684.9
25°	684.9	692.0	719.2	734.9	732.1	712.1	727.8	709.2	707.8	716.3	699.2
27.5°	714.9	724.9	750.7	765.0	754.9	727.8	750.7	723.5	723.5	736.4	713.5
30°	757.8	765.0	787.8	789.3	776.4	743.5	769.2	739.2	734.9	757.8	729.2
32.5°	805.0	810.7	827.9	817.9	799.3	765.0	795.0	759.2	757.8	782.1	749.2
35°	855.0	860.8	866.5	849.3	832.2	795.0	827.9	792.1	790.7	817.9	786.4
37.5°	906.5	906.5	906.5	886.5	875.1	839.3	869.3	840.7	837.9	866.5	836.4
40°	948.0	950.8	946.5	928.0	922.2	896.5	922.2	896.5	900.8	926.5	902.2
42.5°	982.3	985.1	986.6	970.8	976.6	962.3	982.3	963.7	965.1	993.7	979.4
45°	1016.6	1015.2	1026.6	1022.3	1039.5	1040.9	1052.3	1045.2	1048.1	1069.5	1065.2
47.5°	1052.3	1045.2	1058.1	1076.7	1108.1	1118.1	1125.3	1128.1	1139.6	1149.6	1159.6
50°	1086.7	1079.5	1088.1	1129.6	1179.6	1201.1	1202.5	1216.8	1229.6	1243.9	1264.0
52.5°	1122.4	1116.7	1125.3	1183.9	1264.0	1294.0	1289.7	1314.0	1332.6	1348.3	1381.2
55°	1159.6	1153.9	1162.4	1249.7	1354.0	1395.5	1391.2	1425.5	1461.3	1467.0	1504.2
57.5°	1195.3	1188.2	1212.5	1326.9	1461.3	1524.2	1504.2	1557.1	1591.4	1588.5	1640.0
60°	1233.9	1228.2	1266.8	1421.2	1595.7	1677.2	1647.2	1717.2	1741.5	1731.5	1780.1
62.5°	1271.1	1269.7	1334.0	1531.3	1758.7	1837.3	1810.2	1871.6	1888.8	1875.9	1900.2
65°	1305.4	1314.0	1406.9	1641.4	1916.0	2006.0	1968.9	2030.3	2050.4	2040.4	2081.8
67.5°	1362.6	1372.6	1497.0	1781.6	2110.4	2203.4	2171.9	2236.2	2266.3	2263.4	2309.2
70°	1447.0	1465.6	1630.0	1980.3	2406.4	2525.1	2507.9	2586.5	2659.5	2653.7	2699.5
72.5°	1594.3	1624.3	1848.8	2289.1	2892.5	3036.9	3016.9	3061.2	3048.4	2944.0	2859.6
74°	1565.7	1602.8	1903.1	2450.7	3111.3	3202.8	3169.9	3171.3	3054.1	2895.4	2759.6
75°	1461.3	1499.9	1824.5	2430.7	3095.6	3145.6	3098.4	3039.8	2898.2	2736.7	2569.4
77.5°	1002.3	1052.3	1341.2	1963.1	2492.2	2423.5	2412.1	2300.6	2113.3	1931.7	1717.2
80°	513.3	549.1	693.5	1026.6	1478.4	1409.8	1432.7	1342.6	1186.8	1055.2	836.4
82.5°	123.0	131.5	204.5	397.5	640.6	586.2	594.8	526.2	436.1	356.0	276.0
85°	64.3	72.9	100.1	110.1	168.7	174.4	170.1	164.4	134.4	113.0	98.7
87.5°	0.0	0.0	0.0	2.9	1.4	0.0	1.4	0.0	0.0	1.4	2.9
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°	2.0	2.0	2.0	3.0	4.0	5.2	5.5	6.5	7.8	9.0	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	24.4	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	46.5	47.5	48.8	50.0	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	67.2	68.0	69.0	70.0	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	88.9	89.5	90.2	91.0	91.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	110.6	111.0	111.5	112.0	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	132.6	133.0	133.5	134.0	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	154.6	155.0	155.5	156.0	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	177.6	178.0	178.5	179.0	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.3	201.5	201.8	202.0	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.3	226.5	226.8	227.0	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.3	251.5	251.8	252.0	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	274.6	275.0	275.5	276.0	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.3	298.5	298.8	299.0	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.3	321.5	321.8	322.0	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.3	388.5	388.8	389.0	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.3	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.3	452.5	452.8	453.0	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.3	469.5	469.8	470.0	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.3	485.5	485.8	486.0	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.0	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	541.0	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.7	560.5	560.2	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.7	566.5	566.2	566.0	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.7	568.5	568.2	568.0	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.7	577.5	577.2	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°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	644.8	642.0	644.8	636.3	640.6	633.4	636.3	629.1	632.0	626.3	627.7
5°	647.7	640.6	644.8	637.7	639.1	633.4	632.0	629.1	627.7	623.4	620.5
7.5°	640.6	634.8	633.4	630.6	626.3	627.7	622.0	620.5	616.3	616.3	607.7
10°	633.4	634.8	626.3	629.1	622.0	623.4	613.4	616.3	609.1	614.8	602.0
12.5°	639.1	640.6	633.4	637.7	624.8	627.7	619.1	623.4	613.4	620.5	604.8
15°	652.0	650.6	647.7	647.7	634.8	640.6	630.6	633.4	623.4	632.0	614.8
17.5°	663.4	662.0	657.7	656.3	647.7	649.1	639.1	644.8	633.4	640.6	623.4
20°	676.3	669.2	667.7	666.3	656.3	656.3	649.1	652.0	640.6	649.1	629.1
22.5°	686.3	680.6	679.2	673.4	666.3	669.2	659.1	660.6	649.1	657.7	640.6
25°	702.0	694.9	694.9	686.3	682.0	680.6	674.9	679.2	667.7	673.4	657.7
27.5°	723.5	707.8	713.5	704.9	702.0	700.6	697.8	700.6	692.0	696.3	680.6
30°	743.5	723.5	732.1	720.6	726.3	720.6	724.9	720.6	720.6	720.6	713.5
32.5°	770.7	746.4	763.5	746.4	757.8	749.2	763.5	754.9	760.7	759.2	756.4
35°	809.3	780.7	805.0	782.1	802.1	790.7	810.7	806.4	817.9	812.1	817.9
37.5°	860.8	830.7	859.3	837.9	862.2	845.0	873.6	870.8	895.1	886.5	895.1
40°	925.1	903.6	925.1	909.4	935.1	928.0	958.0	959.4	986.6	982.3	992.3
42.5°	996.6	980.9	1002.3	993.7	1019.5	1025.2	1059.5	1068.1	1093.8	1101.0	1102.4
45°	1073.8	1070.9	1088.1	1096.7	1122.4	1139.6	1169.6	1191.0	1219.6	1235.4	1232.5
47.5°	1163.9	1175.3	1186.8	1208.2	1231.1	1266.8	1296.8	1324.0	1356.9	1366.9	1371.2
50°	1265.4	1285.4	1295.4	1325.4	1348.3	1392.6	1434.1	1468.4	1504.2	1499.9	1502.7
52.5°	1372.6	1398.4	1412.7	1448.4	1478.4	1529.9	1565.7	1598.5	1642.9	1631.4	1627.1
55°	1491.3	1529.9	1541.3	1581.4	1607.1	1660.0	1691.5	1748.7	1767.3	1755.8	1731.5
57.5°	1617.1	1662.9	1675.8	1730.1	1743.0	1800.1	1827.3	1865.9	1881.6	1863.1	1831.6
60°	1760.1	1801.6	1811.6	1860.2	1877.4	1930.3	1950.3	1984.6	1996.0	1950.3	1906.0
62.5°	1903.1	1946.0	1951.7	1994.6	2011.8	2057.5	2080.4	2100.4	2094.7	2027.5	1971.7
65°	2066.1	2107.6	2121.9	2164.8	2174.8	2209.1	2227.7	2204.8	2191.9	2090.4	2027.5
67.5°	2324.9	2369.2	2374.9	2384.9	2383.5	2366.4	2357.8	2279.1	2221.9	2034.6	1944.6
70°	2665.2	2632.3	2568.0	2493.6	2439.3	2342.0	2284.9	2123.3	2003.2	1793.0	1641.4
72.5°	2726.7	2619.4	2460.7	2333.5	2201.9	2048.9	1926.0	1681.5	1512.8	1292.6	1132.4
74°	2552.2	2377.8	2210.5	2031.8	1880.2	1657.2	1532.8	1223.9	1056.6	833.6	639.1
75°	2342.0	2137.6	1948.8	1721.5	1580.0	1312.6	1195.3	862.2	694.9	494.7	333.1
77.5°	1494.2	1249.7	1069.5	806.4	696.3	480.4	351.7	218.8	161.6	141.6	123.0
80°	670.6	477.6	378.9	261.7	218.8	167.3	141.6	114.4	104.4	91.5	87.2
82.5°	214.5	171.6	163.0	145.8	145.8	117.2	100.1	78.6	71.5	61.5	55.8
85°	92.9	87.2	90.1	82.9	84.4	64.3	51.5	38.6	38.6	27.2	24.3
87.5°	2.9	0.0	1.4	0.0	2.9	0.0	1.4	0.0	1.4	0.0	1.4
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°	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°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	622.0	624.8	623.4	617.7	616.3	612.0	602.0	603.4	597.7	602.0	594.8
5°	616.3	614.8	609.1	602.0	594.8	586.2	579.1	576.2	570.5	567.6	563.3
7.5°	607.7	602.0	591.9	580.5	570.5	559.1	553.3	543.3	540.5	530.5	529.0
10°	604.8	594.8	583.4	569.1	551.9	534.8	533.3	516.2	514.7	499.0	494.7
12.5°	610.5	597.7	583.4	566.2	546.2	521.9	521.9	496.1	494.7	473.3	466.1
15°	622.0	606.2	587.7	567.6	541.9	511.9	510.4	480.4	477.6	451.8	443.2
17.5°	632.0	610.5	593.4	566.2	536.2	501.9	494.7	464.7	459.0	428.9	417.5
20°	639.1	614.8	594.8	563.3	526.2	486.1	476.1	444.7	431.8	401.8	386.1
22.5°	647.7	624.8	597.7	561.9	520.5	473.3	451.8	423.2	404.6	373.2	351.7
25°	660.6	640.6	607.7	566.2	516.2	460.4	431.8	401.8	376.0	344.6	313.1
27.5°	680.6	660.6	622.0	571.9	514.7	447.5	416.1	378.9	347.4	313.1	277.4
30°	709.2	687.7	646.3	587.7	516.2	437.5	398.9	358.9	321.7	281.7	244.5
32.5°	746.4	729.2	677.7	604.8	521.9	428.9	383.2	337.4	291.7	253.1	220.2
35°	797.8	786.4	722.1	637.7	536.2	424.7	367.5	317.4	265.9	227.3	191.6
37.5°	873.6	857.9	786.4	684.9	559.1	421.8	356.0	293.1	244.5	203.0	173.0
40°	969.4	948.0	862.2	742.1	594.8	423.2	346.0	274.5	225.9	181.6	157.3
42.5°	1083.8	1052.3	955.1	812.1	630.6	426.1	340.3	257.4	211.6	164.4	145.8
45°	1212.5	1176.7	1065.2	899.4	682.0	433.2	336.0	243.1	198.7	151.6	138.7
47.5°	1338.3	1302.6	1178.2	986.6	734.9	446.1	338.9	234.5	190.2	144.4	130.1
50°	1461.3	1424.1	1278.3	1065.2	780.7	463.3	350.3	235.9	188.7	141.6	125.8
52.5°	1569.9	1524.2	1364.1	1126.7	813.6	474.7	360.3	240.2	190.2	140.1	124.4
55°	1678.6	1620.0	1432.7	1175.3	833.6	476.1	360.3	241.6	191.6	140.1	123.0
57.5°	1760.1	1692.9	1485.6	1203.9	840.7	469.0	351.7	234.5	183.0	138.7	120.1
60°	1811.6	1740.1	1522.8	1222.5	830.7	439.0	306.0	207.3	161.6	128.7	111.5
62.5°	1854.5	1781.6	1534.2	1191.0	746.4	348.9	238.8	168.7	134.4	114.4	102.9
65°	1864.5	1777.3	1454.1	1052.3	583.4	241.6	173.0	133.0	110.1	101.5	92.9
67.5°	1712.9	1608.5	1222.5	823.6	397.5	165.9	128.7	108.7	94.4	90.1	87.2
70°	1392.6	1278.3	895.1	539.0	221.6	115.8	98.7	90.1	81.5	81.5	77.2
72.5°	897.9	779.3	459.0	230.2	113.0	88.6	80.1	77.2	70.1	71.5	67.2
74°	459.0	357.5	187.3	121.5	92.9	78.6	71.5	70.1	62.9	64.3	60.1
75°	233.1	184.4	131.5	101.5	85.8	74.4	65.8	65.8	57.2	58.6	54.3
77.5°	108.7	104.4	90.1	80.1	72.9	62.9	54.3	52.9	44.3	47.2	41.5
80°	75.8	75.8	70.1	67.2	60.1	51.5	41.5	41.5	32.9	34.3	30.0
82.5°	42.9	40.0	40.0	45.8	47.2	38.6	30.0	28.6	24.3	24.3	20.0
85°	18.6	21.4	25.7	31.5	34.3	30.0	21.4	20.0	12.9	12.9	7.1
87.5°	0.0	1.4	1.4	2.9	5.7	5.7	0.0	2.9	0.0	1.4	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°	4.8	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°
												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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 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	110°	114.0
597.7	590.5	594.8	587.7	590.5	583.4	586.2	581.9	577.6	571.9	570.5	112.5°	136.0
559.1	553.3	551.9	544.8	546.2	540.5	534.8	527.6	519.0	507.6	503.3	115°	158.0
516.2	514.7	504.7	500.4	494.7	489.0	479.0	467.6	450.4	434.7	424.7	117.5°	181.0
479.0	474.7	460.4	453.3	444.7	437.5	423.2	407.5	383.2	358.9	346.0	120°	204.0
447.5	441.8	423.2	414.6	401.8	393.2	376.0	356.0	321.7	287.4	271.7	122.5°	228.0
421.8	413.2	391.8	378.9	361.7	353.2	334.6	306.0	264.5	228.8	207.3	125°	254.0
391.8	380.3	357.5	341.7	324.6	308.8	290.3	260.2	213.0	180.2	158.7	127.5°	277.0
358.9	344.6	320.3	298.8	280.2	265.9	247.4	217.3	170.1	144.4	133.0	130°	301.0
324.6	301.7	280.2	261.7	240.2	225.9	207.3	180.2	144.4	130.1	125.8	132.5°	325.0
288.8	263.1	241.6	223.1	203.0	190.2	174.4	153.0	131.5	127.3	127.3	135°	348.0
253.1	227.3	207.3	188.7	171.6	163.0	148.7	134.4	124.4	125.8	127.3	137.5°	369.0
220.2	194.5	175.9	161.6	145.8	140.1	128.7	120.1	118.7	123.0	124.4	140°	390.0
191.6	168.7	151.6	140.1	127.3	124.4	114.4	110.1	114.4	120.1	118.7	142.5°	412.0
167.3	148.7	131.5	124.4	113.0	111.5	104.4	101.5	107.2	114.4	114.4	145°	433.0
148.7	131.5	118.7	113.0	104.4	102.9	97.2	94.4	98.7	108.7	111.5	147.5°	452.0
133.0	123.0	110.1	104.4	98.7	95.8	92.9	90.1	91.5	104.4	105.8	150°	469.0
123.0	115.8	104.4	101.5	94.4	92.9	88.6	85.8	87.2	97.2	101.5	152.5°	486.0
115.8	110.1	100.1	98.7	91.5	90.1	85.8	82.9	84.4	92.9	97.2	155°	503.0
110.1	104.4	95.8	92.9	88.6	87.2	84.4	81.5	81.5	90.1	94.4	157.5°	517.0
107.2	101.5	92.9	90.1	85.8	84.4	81.5	78.6	80.1	87.2	90.1	160°	530.0
105.8	98.7	91.5	87.2	84.4	81.5	78.6	75.8	77.2	84.4	87.2	162.5°	540.0
105.8	97.2	91.5	87.2	82.9	78.6	77.2	72.9	75.8	81.5	85.8	165°	550.0
105.8	97.2	91.5	87.2	84.4	80.1	77.2	74.4	75.8	81.5	85.8	167.5°	558.0
102.9	95.8	92.9	88.6	87.2	82.9	81.5	78.6	78.6	85.8	92.9	170°	564.0
98.7	94.4	92.9	90.1	90.1	87.2	87.2	84.4	84.4	92.9	100.1	172.5°	567.0
92.9	90.1	91.5	90.1	90.1	90.1	88.6	88.6	88.6	95.8	104.4	175°	570.0
87.2	85.8	87.2	87.2	88.6	87.2	88.6	87.2	87.2	94.4	102.9	177.5°	574.0
78.6	78.6	80.1	78.6	80.1	80.1	81.5	81.5	81.5	85.8	94.4	180°	576.0
68.6	67.2	68.6	67.2	70.1	67.2	70.1	71.5	70.1	71.5	75.8		
61.5	60.1	61.5	60.1	62.9	60.1	61.5	61.5	60.1	48.6	41.5		
55.8	54.3	55.8	54.3	57.2	54.3	57.2	55.8	52.9	35.7	34.3		
44.3	40.0	44.3	40.0	42.9	38.6	41.5	35.7	27.2	25.7	25.7		
32.9	28.6	31.5	27.2	25.7	20.0	21.4	20.0	18.6	20.0	20.0		
20.0	14.3	17.2	12.9	15.7	11.4	14.3	12.9	11.4	11.4	11.4		
10.0	7.1	10.0	5.7	8.6	5.7	7.1	7.1	4.3	4.3	4.3		
1.4	0.0	2.9	0.0	2.9	0.0	1.4	1.4	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		

'228314  
 ISS-AF-800-LED-E1-SL4-7030-ULG

REPORT NUMBER: P228314  
 CATALOG NUMBER: ISS-AF-800

**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°	624.8	624.8
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	566.2	567.6
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	496.1	500.4
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	418.9	421.8
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	337.4	340.3
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	260.2	263.1
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	195.9	193.0
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	150.1	147.3
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	127.3	127.3
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	124.4	123.0
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	125.8	124.4
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	125.8	124.4
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	123.0	121.5
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	118.7	117.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	114.4	114.4
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	111.5	113.0
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	107.2	108.7
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	102.9	104.4
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	98.7	100.1
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	94.4	94.4
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	88.6	88.6
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	87.2	87.2
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	87.2	87.2
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	90.1	90.1
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	98.7	100.1
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	115.8	117.2
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	133.0	135.8
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	134.4	138.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	130.1	134.4
										72.5°	90.1	90.1
										74°	40.0	38.6
										75°	34.3	32.9
										77.5°	25.7	25.7
										80°	18.6	17.2
										82.5°	10.0	10.0
										85°	2.9	2.9
										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

