

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: P228312

Luminaire Tested: **ISS-AF-800-LED-E1-SL4-7060-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228312
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-SL4-7060-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 5700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5752.2 lumens
Efficiency: N/A
Efficacy: 95.6 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): 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

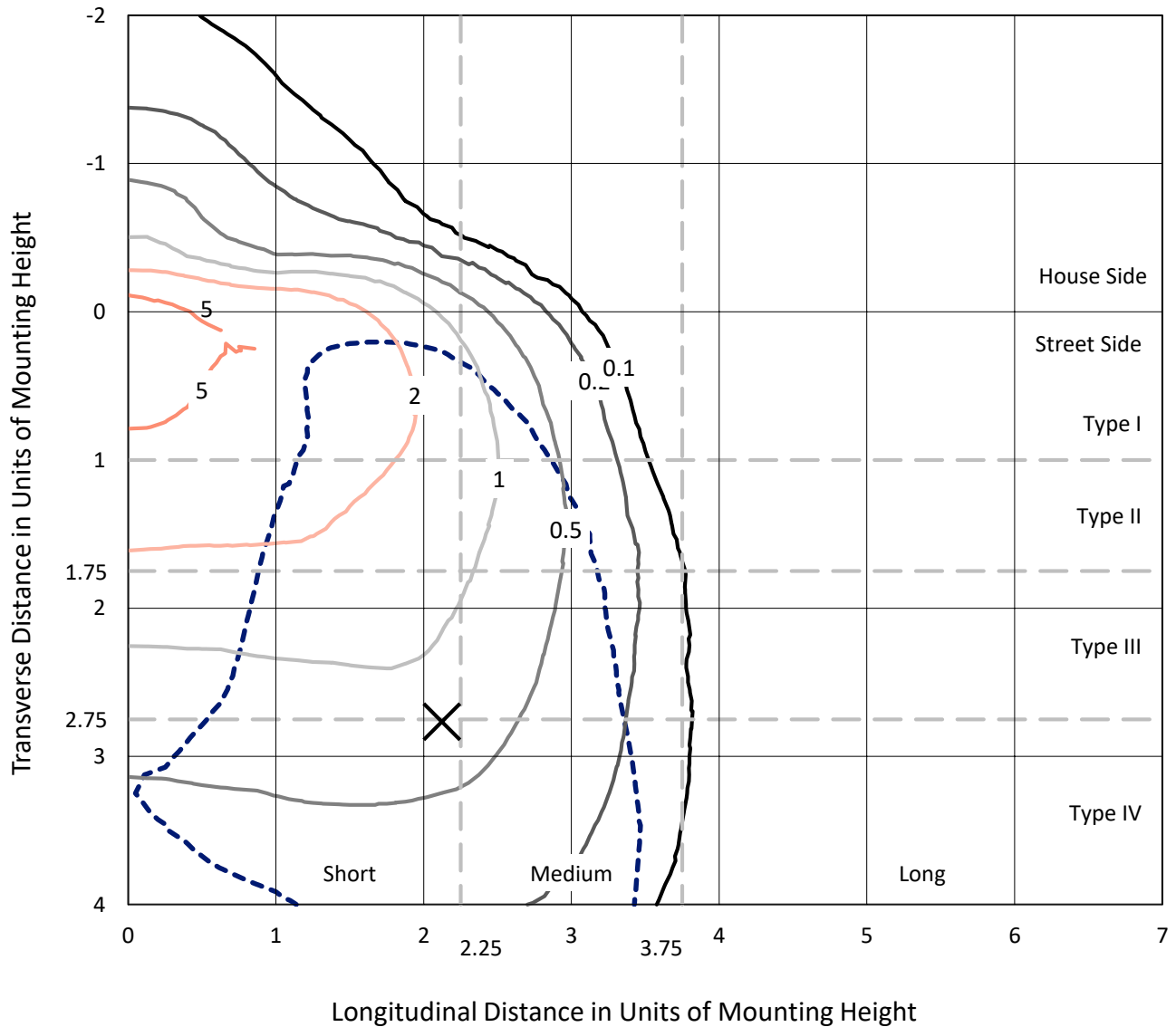


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

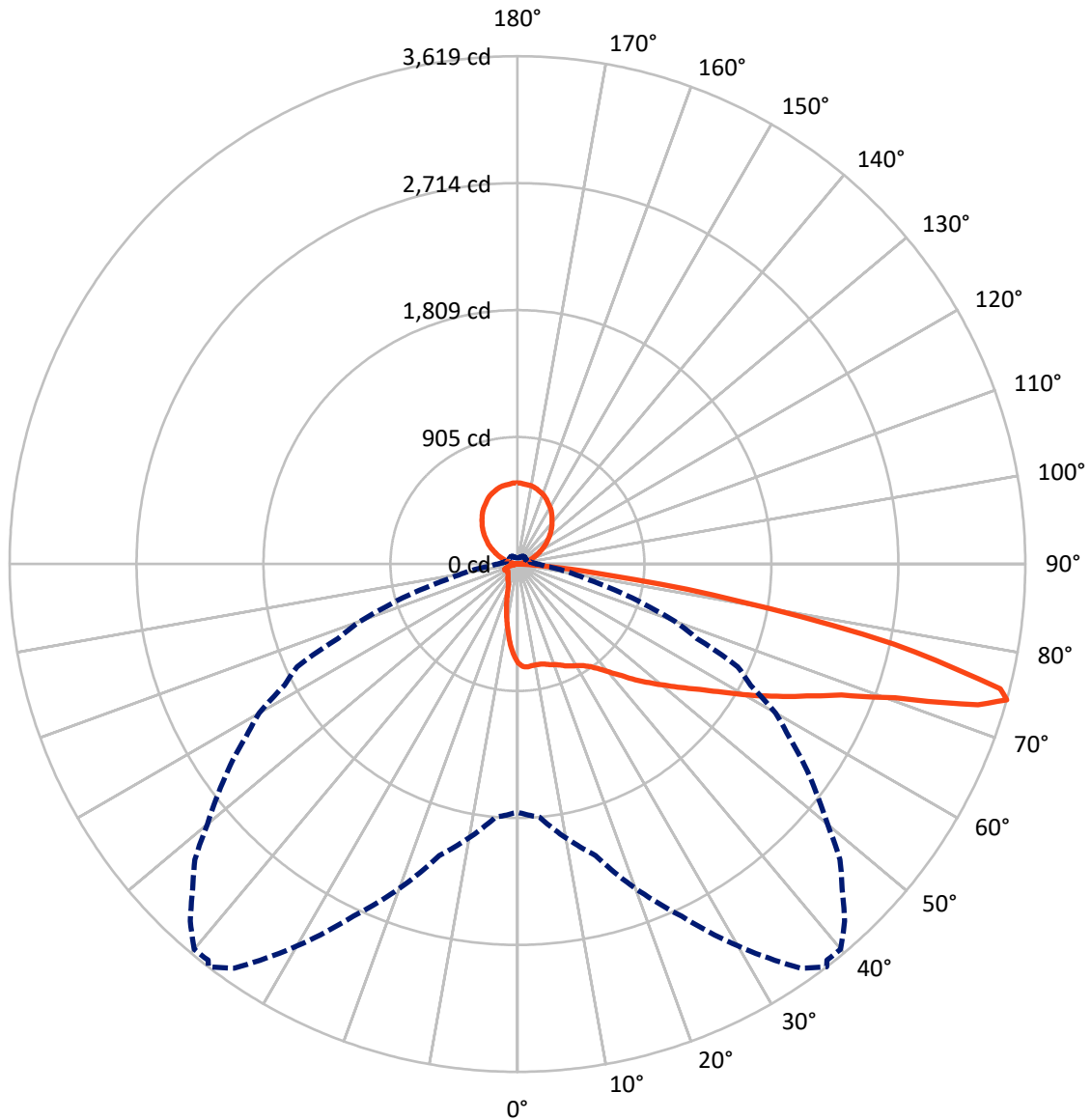


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Non-Cutoff

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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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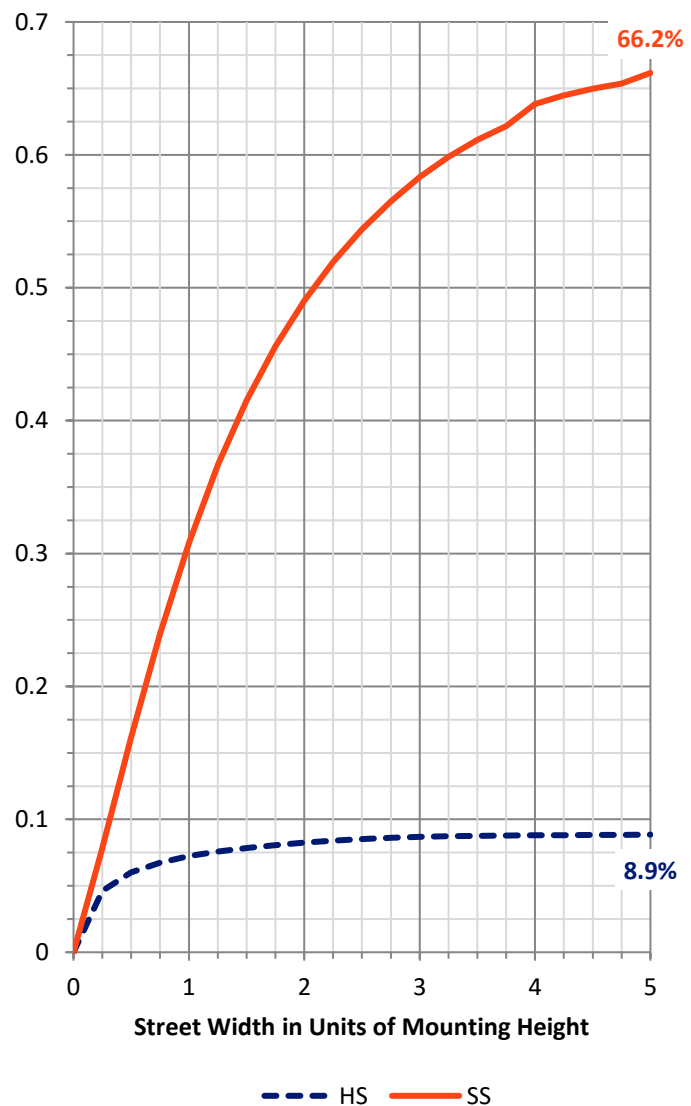
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.9	713.1	1226.0
	% Fixture	8.9	12.4	21.3
Street Side	Lumens	3813.0	713.1	4526.1
	% Fixture	66.3	12.4	78.7
Total	Lumens	4326.0	1426.2	5752.2
	% Fixture	75.2	24.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	1.1
10°-20°	156.6	2.7
20°-30°	242.6	4.2
30°-40°	359.9	6.3
40°-50°	553.6	9.6
50°-60°	818.3	14.2
60°-70°	1090.8	19.0
70°-80°	941.5	16.4
80°-90°	101.3	1.8
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.7
120°-130°	223.9	3.9
130°-140°	265.6	4.6
140°-150°	269.3	4.7
150°-160°	231.1	4.0
160°-170°	155.1	2.7
170°-180°	54.3	0.9
0°-90°	4326.0	75.2
0°-180°	5752.2	100.0

Coefficient of Utilization



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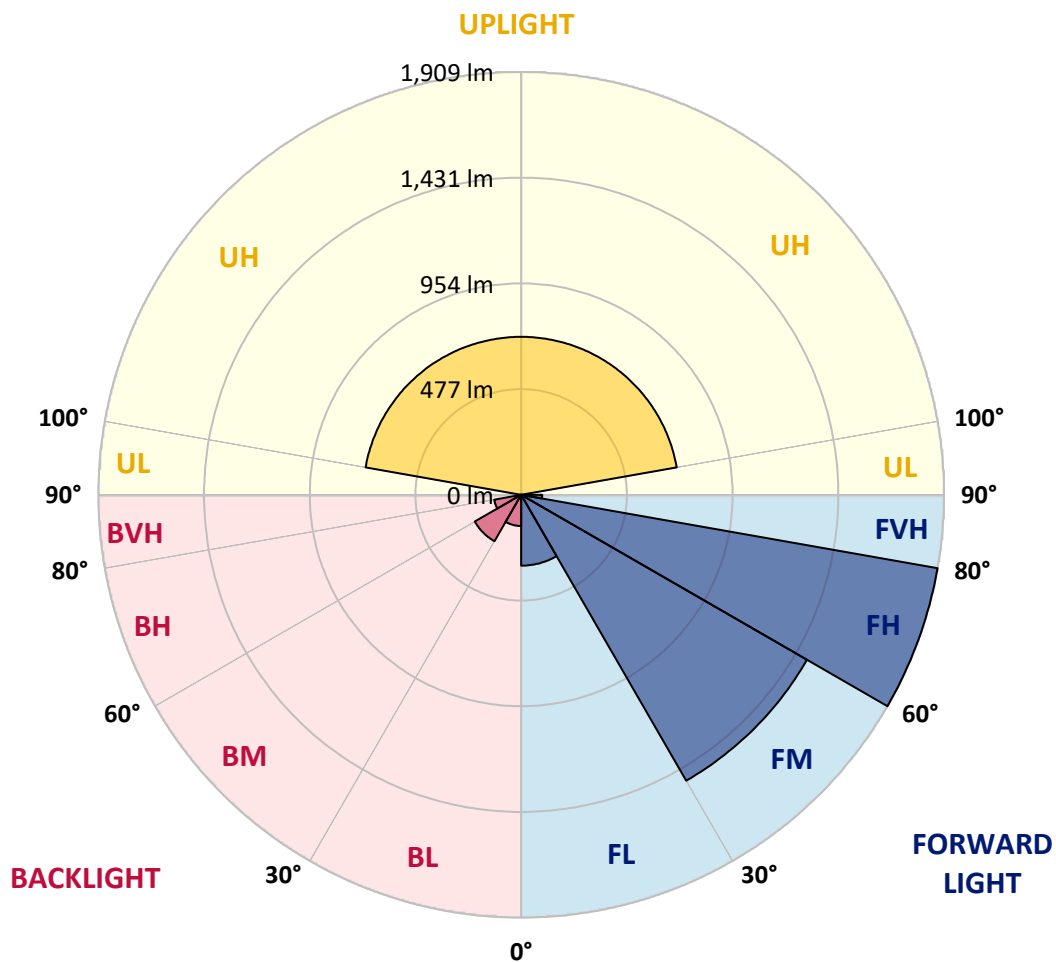
CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-7060-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.8	5.6			
FM (30°-60°)	1490.0	25.9			
FH (60°-80°)	1908.6	33.2			G2/5000
FVH (80°-90°)	94.6	1.6			G1/100
BL (0°-30°)	140.8	2.4	B1/500		
BM (30°-60°)	241.8	4.2	B1/1000		
BH (60°-80°)	123.7	2.2	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	12.4		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°	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9
2.5°	746.3	744.7	741.5	739.9	736.6	731.8	736.6	730.2	726.9	730.2	723.7
5°	759.2	757.6	754.4	747.9	744.7	736.6	741.5	733.4	731.8	735.0	726.9
7.5°	760.9	757.6	752.8	744.7	741.5	731.8	735.0	725.3	722.1	725.3	720.5
10°	756.0	754.4	749.6	736.6	733.4	730.2	728.6	722.1	720.5	718.9	717.2
12.5°	747.9	747.9	744.7	739.9	738.2	731.8	733.4	726.9	728.6	725.3	722.1
15°	744.7	743.1	746.3	749.6	749.6	739.9	746.3	741.5	738.2	739.9	735.0
17.5°	741.5	743.1	754.4	760.9	764.1	754.4	764.1	754.4	747.9	756.0	747.9
20°	739.9	744.7	764.1	778.6	780.2	764.1	780.2	764.1	764.1	773.8	759.2
22.5°	747.9	756.0	783.5	799.6	802.9	781.9	801.2	780.2	780.2	788.3	773.8
25°	773.8	781.9	812.6	830.3	827.1	804.5	822.2	801.2	799.6	809.3	789.9
27.5°	807.7	819.0	848.1	864.2	852.9	822.2	848.1	817.4	817.4	831.9	806.1
30°	856.2	864.2	890.1	891.7	877.2	840.0	869.1	835.2	830.3	856.2	823.9
32.5°	909.5	915.9	935.3	924.0	903.0	864.2	898.2	857.8	856.2	883.6	846.5
35°	966.0	972.5	978.9	959.6	940.2	898.2	935.3	894.9	893.3	924.0	888.5
37.5°	1024.2	1024.2	1024.2	1001.6	988.6	948.2	982.2	949.9	946.6	978.9	945.0
40°	1071.0	1074.2	1069.4	1048.4	1041.9	1012.9	1041.9	1012.9	1017.7	1046.8	1019.3
42.5°	1109.8	1113.0	1114.6	1096.9	1103.3	1087.2	1109.8	1088.8	1090.4	1122.7	1106.6
45°	1148.6	1146.9	1159.9	1155.0	1174.4	1176.0	1188.9	1180.9	1184.1	1208.3	1203.5
47.5°	1188.9	1180.9	1195.4	1216.4	1251.9	1263.3	1271.3	1274.6	1287.5	1298.8	1310.1
50°	1227.7	1219.6	1229.3	1276.2	1332.7	1356.9	1358.6	1374.7	1389.3	1405.4	1428.0
52.5°	1268.1	1261.6	1271.3	1337.6	1428.0	1461.9	1457.1	1484.6	1505.6	1523.3	1560.5
55°	1310.1	1303.6	1313.3	1411.9	1529.8	1576.6	1571.8	1610.6	1651.0	1657.4	1699.4
57.5°	1350.5	1342.4	1369.9	1499.1	1651.0	1722.0	1699.4	1759.2	1798.0	1794.7	1852.9
60°	1394.1	1387.6	1431.3	1605.7	1802.8	1894.9	1861.0	1940.1	1967.6	1956.3	2011.2
62.5°	1436.1	1434.5	1507.2	1730.1	1987.0	2075.8	2045.1	2114.6	2134.0	2119.4	2146.9
65°	1474.9	1484.6	1589.6	1854.5	2164.7	2266.4	2224.4	2293.9	2316.5	2305.2	2352.0
67.5°	1539.5	1550.8	1691.3	2012.8	2384.3	2489.3	2453.8	2526.5	2560.4	2557.2	2608.9
70°	1634.8	1655.8	1841.6	2237.3	2718.7	2852.8	2833.4	2922.3	3004.7	2998.2	3049.9
72.5°	1801.2	1835.1	2088.7	2586.3	3268.0	3431.1	3408.5	3458.6	3444.1	3326.1	3230.8
74°	1768.9	1810.9	2150.1	2768.8	3515.1	3618.5	3581.4	3583.0	3450.5	3271.2	3117.7
75°	1651.0	1694.6	2061.3	2746.2	3497.4	3553.9	3500.6	3434.4	3274.4	3091.9	2902.9
77.5°	1132.4	1188.9	1515.3	2218.0	2815.7	2738.1	2725.2	2599.2	2387.6	2182.4	1940.1
80°	579.9	620.3	783.5	1159.9	1670.3	1592.8	1618.6	1516.9	1340.8	1192.2	945.0
82.5°	138.9	148.6	231.0	449.1	723.7	662.3	672.0	594.5	492.7	402.2	311.8
85°	72.7	82.4	113.1	124.4	190.6	197.1	192.2	185.8	151.8	127.6	111.5
87.5°	0.0	0.0	0.0	3.2	1.6	0.0	1.6	0.0	0.0	1.6	3.2
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°	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9
2.5°	728.6	725.3	728.6	718.9	723.7	715.6	718.9	710.8	714.0	707.6	709.2
5°	731.8	723.7	728.6	720.5	722.1	715.6	714.0	710.8	709.2	704.3	701.1
7.5°	723.7	717.2	715.6	712.4	707.6	709.2	702.7	701.1	696.2	696.2	686.5
10°	715.6	717.2	707.6	710.8	702.7	704.3	693.0	696.2	688.2	694.6	680.1
12.5°	722.1	723.7	715.6	720.5	705.9	709.2	699.5	704.3	693.0	701.1	683.3
15°	736.6	735.0	731.8	731.8	717.2	723.7	712.4	715.6	704.3	714.0	694.6
17.5°	749.6	747.9	743.1	741.5	731.8	733.4	722.1	728.6	715.6	723.7	704.3
20°	764.1	756.0	754.4	752.8	741.5	741.5	733.4	736.6	723.7	733.4	710.8
22.5°	775.4	768.9	767.3	760.9	752.8	756.0	744.7	746.3	733.4	743.1	723.7
25°	793.2	785.1	785.1	775.4	770.6	768.9	762.5	767.3	754.4	760.9	743.1
27.5°	817.4	799.6	806.1	796.4	793.2	791.6	788.3	791.6	781.9	786.7	768.9
30°	840.0	817.4	827.1	814.2	820.6	814.2	819.0	814.2	814.2	814.2	806.1
32.5°	870.7	843.2	862.6	843.2	856.2	846.5	862.6	852.9	859.4	857.8	854.6
35°	914.3	882.0	909.5	883.6	906.2	893.3	915.9	911.1	924.0	917.6	924.0
37.5°	972.5	938.6	970.9	946.6	974.1	954.7	987.0	983.8	1011.2	1001.6	1011.2
40°	1045.2	1020.9	1045.2	1027.4	1056.5	1048.4	1082.3	1083.9	1114.6	1109.8	1121.1
42.5°	1125.9	1108.2	1132.4	1122.7	1151.8	1158.2	1197.0	1206.7	1235.8	1243.9	1245.5
45°	1213.2	1209.9	1229.3	1239.0	1268.1	1287.5	1321.4	1345.6	1377.9	1395.7	1392.5
47.5°	1314.9	1327.9	1340.8	1365.0	1390.9	1431.3	1465.2	1495.9	1533.0	1544.3	1549.2
50°	1429.6	1452.3	1463.6	1497.5	1523.3	1573.4	1620.3	1659.0	1699.4	1694.6	1697.8
52.5°	1550.8	1579.9	1596.0	1636.4	1670.3	1728.5	1768.9	1806.0	1856.1	1843.2	1838.3
55°	1684.9	1728.5	1741.4	1786.6	1815.7	1875.5	1911.0	1975.6	1996.6	1983.7	1956.3
57.5°	1827.0	1878.7	1893.3	1954.6	1969.2	2033.8	2064.5	2108.1	2125.9	2104.9	2069.3
60°	1988.6	2035.4	2046.7	2101.7	2121.0	2180.8	2203.4	2242.2	2255.1	2203.4	2153.3
62.5°	2150.1	2198.6	2205.0	2253.5	2272.9	2324.6	2350.4	2373.0	2366.6	2290.7	2227.7
65°	2334.3	2381.1	2397.3	2445.7	2457.0	2495.8	2516.8	2491.0	2476.4	2361.7	2290.7
67.5°	2626.7	2676.7	2683.2	2694.5	2692.9	2673.5	2663.8	2575.0	2510.3	2298.7	2197.0
70°	3011.1	2974.0	2901.3	2817.3	2755.9	2646.0	2581.4	2398.9	2263.2	2025.7	1854.5
72.5°	3080.6	2959.4	2780.1	2636.4	2487.7	2314.9	2176.0	1899.7	1709.1	1460.3	1279.4
74°	2883.5	2686.4	2497.4	2295.5	2124.3	1872.3	1731.7	1382.8	1193.8	941.8	722.1
75°	2646.0	2415.0	2201.8	1945.0	1785.0	1482.9	1350.5	974.1	785.1	558.9	376.4
77.5°	1688.1	1411.9	1208.3	911.1	786.7	542.8	397.4	247.2	182.5	159.9	138.9
80°	757.6	539.5	428.1	295.6	247.2	189.0	159.9	129.2	117.9	103.4	98.5
82.5°	242.3	193.8	184.2	164.8	164.8	132.5	113.1	88.8	80.8	69.5	63.0
85°	105.0	98.5	101.8	93.7	95.3	72.7	58.2	43.6	43.6	30.7	27.5
87.5°	3.2	0.0	1.6	0.0	3.2	0.0	1.6	0.0	1.6	0.0	1.6
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°	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9
2.5°	702.7	705.9	704.3	697.9	696.2	691.4	680.1	681.7	675.2	680.1	672.0
5°	696.2	694.6	688.2	680.1	672.0	662.3	654.2	651.0	644.5	641.3	636.5
7.5°	686.5	680.1	668.8	655.9	644.5	631.6	625.2	613.9	610.6	599.3	597.7
10°	683.3	672.0	659.1	642.9	623.5	604.2	602.5	583.2	581.5	563.8	558.9
12.5°	689.8	675.2	659.1	639.7	617.1	589.6	589.6	560.5	558.9	534.7	526.6
15°	702.7	684.9	663.9	641.3	612.2	578.3	576.7	542.8	539.5	510.5	500.8
17.5°	714.0	689.8	670.4	639.7	605.8	567.0	558.9	525.0	518.5	484.6	471.7
20°	722.1	694.6	672.0	636.5	594.5	549.2	537.9	502.4	487.9	453.9	436.2
22.5°	731.8	705.9	675.2	634.9	588.0	534.7	510.5	478.2	457.2	421.6	397.4
25°	746.3	723.7	686.5	639.7	583.2	520.2	487.9	453.9	424.9	389.3	353.8
27.5°	768.9	746.3	702.7	646.2	581.5	505.6	470.1	428.1	392.5	353.8	313.4
30°	801.2	777.0	730.2	663.9	583.2	494.3	450.7	405.5	363.5	318.2	276.2
32.5°	843.2	823.9	765.7	683.3	589.6	484.6	432.9	381.2	329.5	285.9	248.8
35°	901.4	888.5	815.8	720.5	605.8	479.8	415.2	358.6	300.5	256.9	216.5
37.5°	987.0	969.2	888.5	773.8	631.6	476.5	402.2	331.2	276.2	229.4	195.5
40°	1095.2	1071.0	974.1	838.4	672.0	478.2	390.9	310.2	255.2	205.2	177.7
42.5°	1224.5	1188.9	1079.1	917.6	712.4	481.4	384.5	290.8	239.1	185.8	164.8
45°	1369.9	1329.5	1203.5	1016.1	770.6	489.5	379.6	274.6	224.5	171.2	156.7
47.5°	1512.0	1471.6	1331.1	1114.6	830.3	504.0	382.9	264.9	214.8	163.2	147.0
50°	1651.0	1608.9	1444.2	1203.5	882.0	523.4	395.8	266.5	213.2	159.9	142.2
52.5°	1773.7	1722.0	1541.1	1272.9	919.2	536.3	407.1	271.4	214.8	158.3	140.5
55°	1896.5	1830.3	1618.6	1327.9	941.8	537.9	407.1	273.0	216.5	158.3	138.9
57.5°	1988.6	1912.6	1678.4	1360.2	949.9	529.9	397.4	264.9	206.8	156.7	135.7
60°	2046.7	1966.0	1720.4	1381.2	938.6	495.9	345.7	234.2	182.5	145.4	126.0
62.5°	2095.2	2012.8	1733.3	1345.6	843.2	394.2	269.8	190.6	151.8	129.2	116.3
65°	2106.5	2008.0	1642.9	1188.9	659.1	273.0	195.5	150.2	124.4	114.7	105.0
67.5°	1935.3	1817.3	1381.2	930.5	449.1	187.4	145.4	122.8	106.6	101.8	98.5
70°	1573.4	1444.2	1011.2	609.0	250.4	130.8	111.5	101.8	92.1	92.1	87.2
72.5°	1014.5	880.4	518.5	260.1	127.6	100.2	90.5	87.2	79.2	80.8	75.9
74°	518.5	403.9	211.6	137.3	105.0	88.8	80.8	79.2	71.1	72.7	67.8
75°	263.3	208.4	148.6	114.7	96.9	84.0	74.3	74.3	64.6	66.2	61.4
77.5°	122.8	117.9	101.8	90.5	82.4	71.1	61.4	59.8	50.1	53.3	46.8
80°	85.6	85.6	79.2	75.9	67.8	58.2	46.8	46.8	37.2	38.8	33.9
82.5°	48.5	45.2	45.2	51.7	53.3	43.6	33.9	32.3	27.5	27.5	22.6
85°	21.0	24.2	29.1	35.5	38.8	33.9	24.2	22.6	14.5	14.5	8.1
87.5°	0.0	1.6	1.6	3.2	6.5	6.5	0.0	3.2	0.0	1.6	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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	705.9	110°	114.0
675.2	667.2	672.0	663.9	667.2	659.1	662.3	657.5	652.6	646.2	644.5	112.5°	136.0
631.6	625.2	623.5	615.5	617.1	610.6	604.2	596.1	586.4	573.5	568.6	115°	158.0
583.2	581.5	570.2	565.4	558.9	552.5	541.2	528.2	508.9	491.1	479.8	117.5°	181.0
541.2	536.3	520.2	512.1	502.4	494.3	478.2	460.4	432.9	405.5	390.9	120°	204.0
505.6	499.2	478.2	468.5	453.9	444.2	424.9	402.2	363.5	324.7	306.9	122.5°	228.0
476.5	466.9	442.6	428.1	408.7	399.0	378.0	345.7	298.9	258.5	234.2	125°	254.0
442.6	429.7	403.9	386.1	366.7	348.9	327.9	294.0	240.7	203.5	179.3	127.5°	277.0
405.5	389.3	361.9	337.6	316.6	300.5	279.5	245.5	192.2	163.2	150.2	130°	301.0
366.7	340.9	316.6	295.6	271.4	255.2	234.2	203.5	163.2	147.0	142.2	132.5°	325.0
326.3	297.2	273.0	252.0	229.4	214.8	197.1	172.8	148.6	143.8	143.8	135°	348.0
285.9	256.9	234.2	213.2	193.8	184.2	168.0	151.8	140.5	142.2	143.8	137.5°	369.0
248.8	219.7	198.7	182.5	164.8	158.3	145.4	135.7	134.1	138.9	140.5	140°	390.0
216.5	190.6	171.2	158.3	143.8	140.5	129.2	124.4	129.2	135.7	134.1	142.5°	412.0
189.0	168.0	148.6	140.5	127.6	126.0	117.9	114.7	121.2	129.2	129.2	145°	433.0
168.0	148.6	134.1	127.6	117.9	116.3	109.8	106.6	111.5	122.8	126.0	147.5°	452.0
150.2	138.9	124.4	117.9	111.5	108.2	105.0	101.8	103.4	117.9	119.5	150°	469.0
138.9	130.8	117.9	114.7	106.6	105.0	100.2	96.9	98.5	109.8	114.7	152.5°	486.0
130.8	124.4	113.1	111.5	103.4	101.8	96.9	93.7	95.3	105.0	109.8	155°	503.0
124.4	117.9	108.2	105.0	100.2	98.5	95.3	92.1	92.1	101.8	106.6	157.5°	517.0
121.2	114.7	105.0	101.8	96.9	95.3	92.1	88.8	90.5	98.5	101.8	160°	530.0
119.5	111.5	103.4	98.5	95.3	92.1	88.8	85.6	87.2	95.3	98.5	162.5°	540.0
119.5	109.8	103.4	98.5	93.7	88.8	87.2	82.4	85.6	92.1	96.9	165°	550.0
119.5	109.8	103.4	98.5	95.3	90.5	87.2	84.0	85.6	92.1	96.9	167.5°	558.0
116.3	108.2	105.0	100.2	98.5	93.7	92.1	88.8	88.8	96.9	105.0	170°	564.0
111.5	106.6	105.0	101.8	101.8	98.5	98.5	95.3	95.3	105.0	113.1	172.5°	567.0
105.0	101.8	103.4	101.8	101.8	101.8	100.2	100.2	100.2	108.2	117.9	175°	570.0
98.5	96.9	98.5	98.5	100.2	98.5	100.2	98.5	98.5	106.6	116.3	177.5°	574.0
88.8	88.8	90.5	88.8	90.5	90.5	92.1	92.1	92.1	96.9	106.6	180°	576.0
77.5	75.9	77.5	75.9	79.2	75.9	79.2	80.8	79.2	80.8	85.6		
69.5	67.8	69.5	67.8	71.1	67.8	69.5	69.5	67.8	54.9	46.8		
63.0	61.4	63.0	61.4	64.6	61.4	64.6	63.0	59.8	40.4	38.8		
50.1	45.2	50.1	45.2	48.5	43.6	46.8	40.4	30.7	29.1	29.1		
37.2	32.3	35.5	30.7	29.1	22.6	24.2	22.6	21.0	22.6	22.6		
22.6	16.2	19.4	14.5	17.8	12.9	16.2	14.5	12.9	12.9	12.9		
11.3	8.1	11.3	6.5	9.7	6.5	8.1	8.1	4.8	4.8	4.8		
1.6	0.0	3.2	0.0	3.2	0.0	1.6	1.6	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		

'228312
 ISS-AF-800-LED-E1-SL4-7060-ULG

REPORT NUMBER: P228312
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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°	705.9	705.9
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	639.7	641.3
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	560.5	565.4
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	473.3	476.5
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	381.2	384.5
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	294.0	297.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	221.3	218.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	169.6	166.4
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	143.8	143.8
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	140.5	138.9
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	142.2	140.5
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	142.2	140.5
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	138.9	137.3
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	134.1	132.5
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	129.2	129.2
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	126.0	127.6
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	121.2	122.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	116.3	117.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	111.5	113.1
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	106.6	106.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	100.2	100.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	98.5	98.5
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	98.5	98.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	101.8	101.8
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	111.5	113.1
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	130.8	132.5
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	150.2	153.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	151.8	156.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	147.0	151.8
										72.5°	101.8	101.8
										74°	45.2	43.6
										75°	38.8	37.2
										77.5°	29.1	29.1
										80°	21.0	19.4
										82.5°	11.3	11.3
										85°	3.2	3.2
										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
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Scaled Data Report

