

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: P227923

Luminaire Tested: **ISS-AF-800-LED-E1-T4W-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227923
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-800-LED-E1-T4W-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6318.2 lumens
Efficiency: N/A
Efficacy: 105.0 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

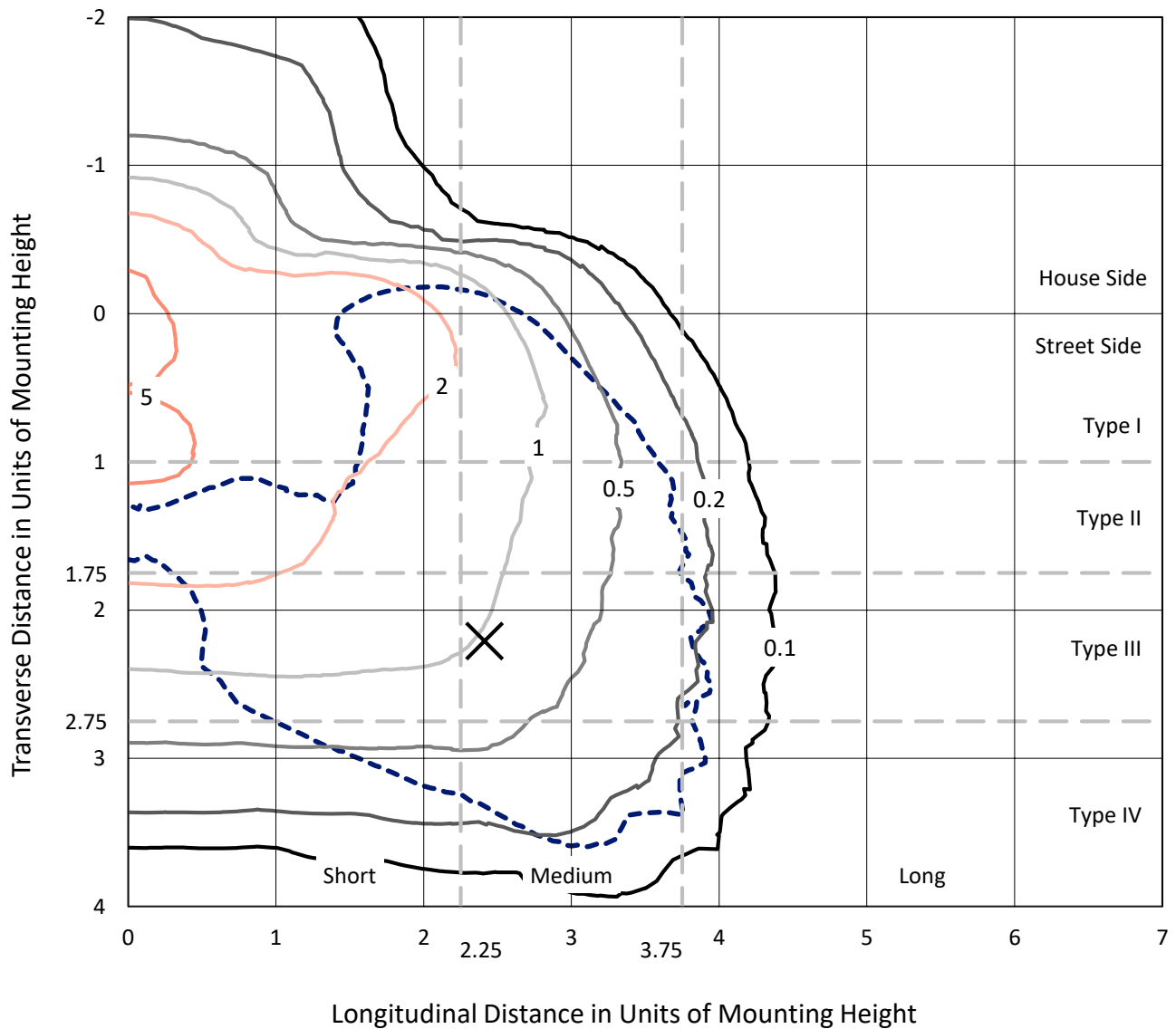
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

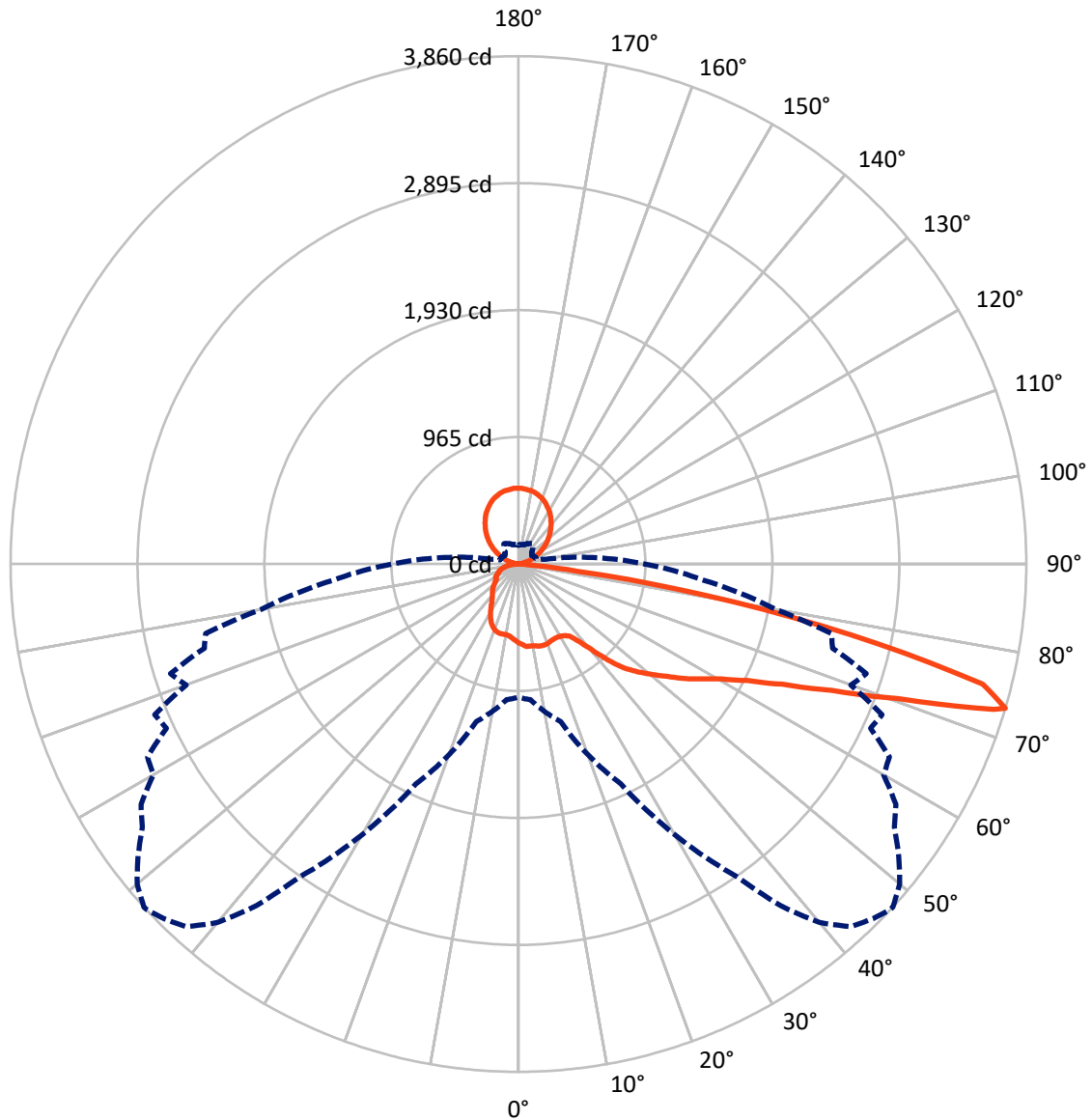
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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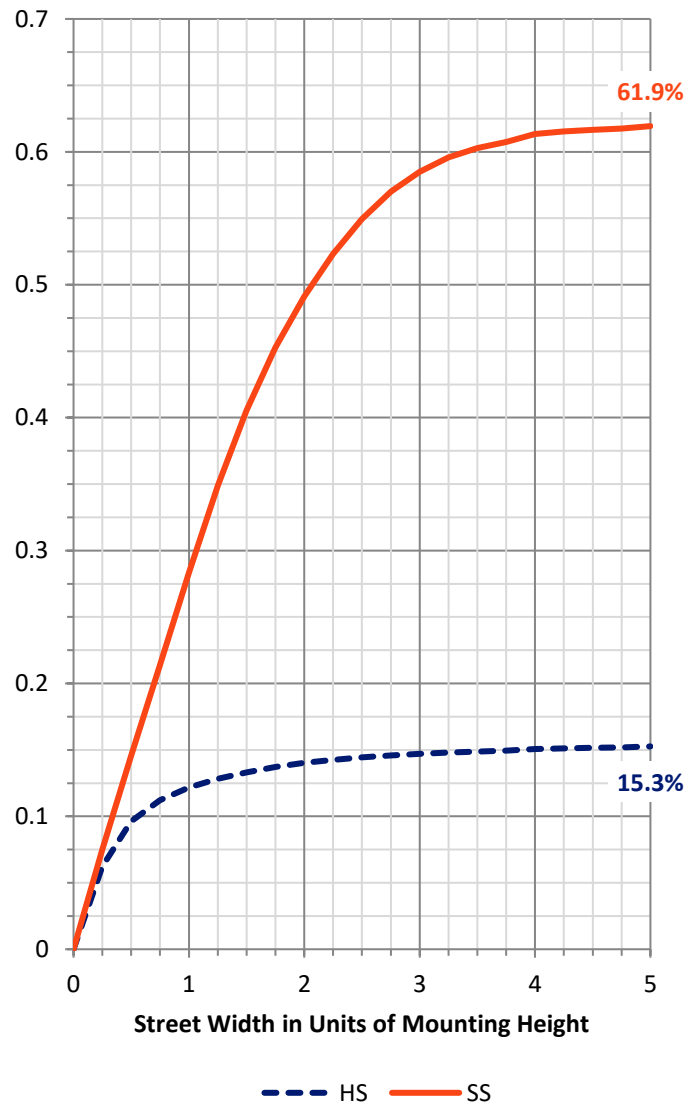
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	977.4	713.1	1690.5
	% Fixture	15.5	11.3	26.8
Street Side	Lumens	3914.6	713.1	4627.7
	% Fixture	62.0	11.3	73.2
Total	Lumens	4892.0	1426.2	6318.2
	% Fixture	77.4	22.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	0.9
10°-20°	170.2	2.7
20°-30°	261.7	4.1
30°-40°	381.7	6.0
40°-50°	629.4	10.0
50°-60°	985.4	15.6
60°-70°	1336.7	21.2
70°-80°	989.8	15.7
80°-90°	80.0	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.4
120°-130°	223.9	3.5
130°-140°	265.6	4.2
140°-150°	269.3	4.3
150°-160°	231.1	3.7
160°-170°	155.1	2.5
170°-180°	54.3	0.9
0°-90°	4892.0	77.4
0°-180°	6318.2	100.0



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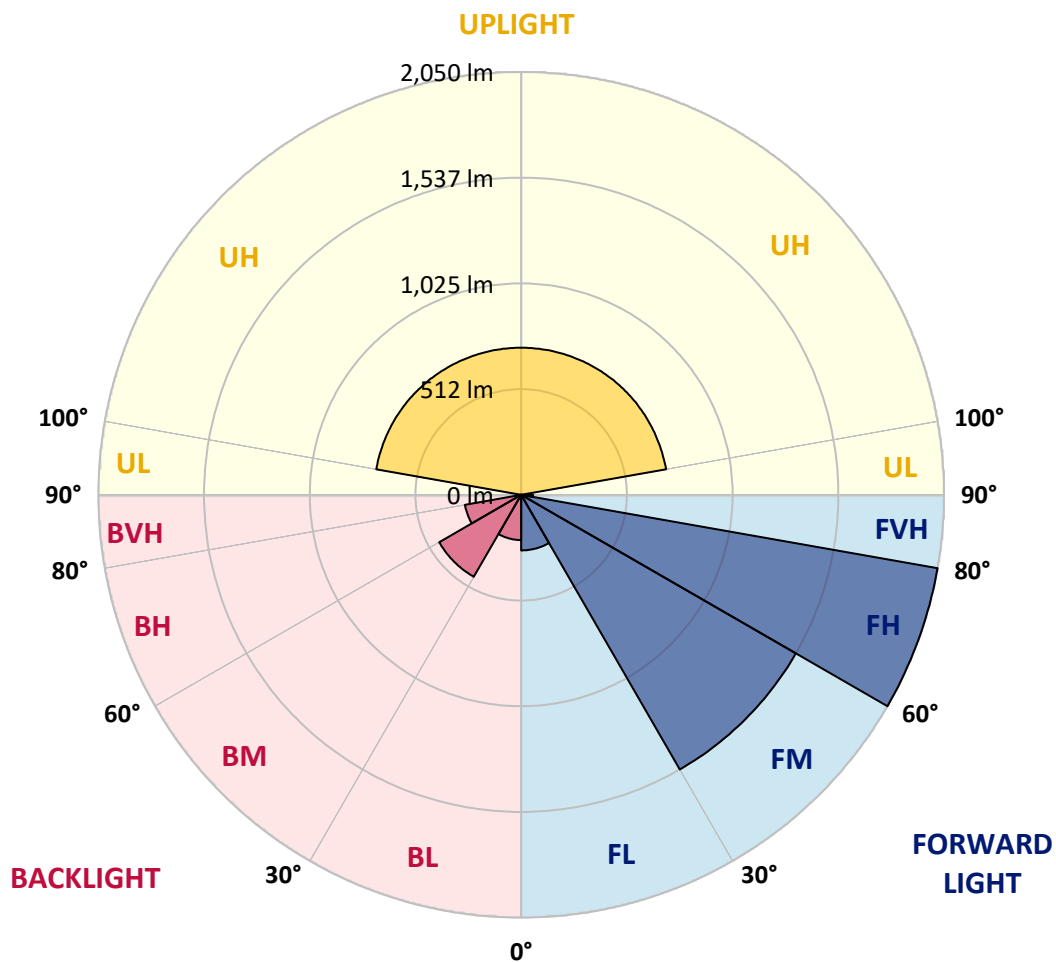
CATALOG NUMBER: ISS-AF-800-LED-E1-T4W-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.7	4.3			
FM	(30°-60°)	1537.5	24.3			
FH	(60°-80°)	2049.8	32.4			G2/5000
FVH	(80°-90°)	57.7	0.9			G1/100
BL	(0°-30°)	219.4	3.5	B1/500		
BM	(30°-60°)	458.9	7.3	B1/1000		
BH	(60°-80°)	276.8	4.4	B1/500		G1/500
BVH	(80°-90°)	22.3	0.4			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	11.3		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°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	636.3	634.7	629.8	628.2	623.3	620.1	618.5	616.9	621.7	618.5	613.7
5°	676.6	673.4	666.9	657.3	647.6	641.1	639.5	636.3	636.3	633.0	629.8
7.5°	705.7	704.1	694.4	679.9	663.7	652.4	646.0	641.1	642.7	639.5	629.8
10°	733.2	729.9	713.8	696.0	671.8	658.9	650.8	642.7	649.2	644.3	631.4
12.5°	754.2	750.9	728.3	705.7	678.3	663.7	655.6	650.8	657.3	654.0	639.5
15°	765.5	762.2	739.6	712.2	683.1	666.9	663.7	660.5	665.3	658.9	646.0
17.5°	759.0	759.0	738.0	708.9	684.7	668.6	663.7	660.5	666.9	660.5	646.0
20°	734.8	738.0	723.5	692.8	675.0	663.7	658.9	652.4	658.9	652.4	642.7
22.5°	704.1	707.3	699.2	671.8	658.9	650.8	649.2	642.7	647.6	642.7	633.0
25°	676.6	676.6	673.4	649.2	647.6	641.1	642.7	639.5	642.7	636.3	629.8
27.5°	678.3	678.3	665.3	641.1	639.5	639.5	639.5	639.5	641.1	636.3	629.8
30°	773.5	776.8	739.6	671.8	647.6	644.3	646.0	644.3	646.0	644.3	636.3
32.5°	917.3	917.3	881.7	776.8	691.2	670.2	662.1	660.5	655.6	654.0	647.6
35°	1059.4	1057.8	1022.2	906.0	797.8	757.4	731.5	707.3	696.0	684.7	673.4
37.5°	1178.9	1174.0	1169.2	1036.8	923.7	876.9	846.2	810.7	788.1	768.7	742.8
40°	1290.3	1298.4	1316.1	1157.9	1049.7	1006.1	975.4	930.2	907.6	883.3	852.7
42.5°	1443.7	1455.0	1456.6	1288.7	1164.3	1135.3	1111.0	1077.1	1052.9	1023.8	996.4
45°	1592.3	1593.9	1598.7	1429.2	1304.8	1267.7	1249.9	1217.6	1186.9	1149.8	1127.2
47.5°	1694.0	1689.2	1710.2	1590.7	1469.5	1427.6	1401.7	1353.3	1306.4	1259.6	1225.7
50°	1818.4	1813.5	1813.5	1774.8	1660.1	1611.7	1566.4	1476.0	1425.9	1367.8	1319.4
52.5°	1928.2	1910.4	1921.7	1944.3	1860.4	1799.0	1719.9	1618.1	1551.9	1480.9	1419.5
55°	2078.4	1986.3	2012.2	2091.3	2059.0	1963.7	1858.7	1750.5	1674.6	1593.9	1537.4
57.5°	2026.7	1963.7	2039.6	2178.5	2176.9	2088.1	1999.2	1866.8	1790.9	1715.0	1645.6
60°	1841.0	1873.3	2038.0	2238.2	2246.3	2176.9	2104.2	1981.5	1921.7	1842.6	1773.1
62.5°	1697.2	1744.1	1970.2	2233.4	2325.4	2260.8	2201.1	2128.4	2086.4	2020.2	1949.2
65°	1689.2	1716.6	1936.3	2228.5	2436.9	2403.0	2375.5	2341.6	2333.5	2285.1	2202.7
67.5°	1766.7	1792.5	1994.4	2352.9	2601.6	2587.1	2627.4	2621.0	2656.5	2632.3	2564.4
70°	1614.9	1629.4	1878.1	2396.5	2977.9	3042.4	3132.9	3128.0	3203.9	3145.8	3066.7
72.5°	1133.7	1162.7	1382.3	1979.9	2985.9	3331.5	3541.5	3719.1	3801.4	3816.0	3778.8
73°	1012.5	1035.1	1238.6	1844.2	2905.2	3273.4	3556.0	3738.5	3811.1	3856.4	3859.6
75°	352.0	363.3	541.0	1117.5	2322.2	2856.7	3220.1	3384.8	3367.0	3499.5	3644.8
77.5°	113.0	114.7	140.5	289.1	1120.7	1773.1	2178.5	2330.3	2243.1	2386.8	2580.6
80°	69.4	72.7	92.0	130.8	293.9	537.8	910.8	1140.1	1093.3	1227.3	1434.0
82.5°	42.0	43.6	56.5	80.7	117.9	130.8	171.2	232.5	285.8	344.0	450.6
85°	19.4	21.0	27.5	37.1	48.4	50.1	48.4	45.2	51.7	59.8	69.4
87.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0	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°	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°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	618.5	613.7	613.7	607.2	610.4	604.0	607.2	600.7	604.0	595.9	600.7
5°	628.2	620.1	620.1	610.4	612.0	600.7	605.6	592.7	599.1	584.6	594.3
7.5°	633.0	618.5	625.0	607.2	615.3	595.9	605.6	584.6	597.5	574.9	591.0
10°	639.5	618.5	629.8	610.4	620.1	597.5	610.4	584.6	600.7	573.3	587.8
12.5°	649.2	626.6	636.3	613.7	626.6	600.7	613.7	587.8	604.0	573.3	591.0
15°	655.6	633.0	642.7	620.1	629.8	600.7	616.9	586.2	604.0	571.7	591.0
17.5°	654.0	633.0	642.7	616.9	628.2	599.1	615.3	584.6	600.7	566.8	587.8
20°	647.6	629.8	636.3	613.7	623.3	594.3	608.8	578.1	595.9	562.0	583.0
22.5°	639.5	621.7	629.8	608.8	618.5	589.4	602.4	574.9	592.7	558.8	578.1
25°	634.7	620.1	625.0	604.0	616.9	591.0	604.0	573.3	592.7	558.8	581.4
27.5°	633.0	620.1	629.8	610.4	621.7	599.1	612.0	584.6	600.7	565.2	587.8
30°	642.7	631.4	639.5	623.3	633.0	610.4	623.3	597.5	613.7	579.7	605.6
32.5°	654.0	642.7	650.8	636.3	650.8	628.2	644.3	618.5	637.9	604.0	628.2
35°	678.3	665.3	676.6	660.5	676.6	658.9	676.6	649.2	673.4	639.5	665.3
37.5°	741.2	705.7	717.0	699.2	715.4	692.8	723.5	696.0	723.5	691.2	726.7
40°	841.4	778.4	789.7	752.5	776.8	742.8	780.0	759.0	796.1	755.8	801.0
42.5°	972.2	912.4	901.1	844.6	865.6	825.2	862.4	825.2	875.3	836.5	893.0
45°	1091.7	1028.7	1010.9	956.0	970.5	917.3	964.1	912.4	978.6	933.4	1004.5
47.5°	1190.2	1115.9	1101.4	1038.4	1064.2	1014.1	1072.3	1017.4	1098.1	1052.9	1135.3
50°	1280.6	1188.6	1185.3	1117.5	1161.1	1111.0	1193.4	1156.3	1235.4	1190.2	1287.1
52.5°	1384.0	1267.7	1283.8	1222.5	1291.9	1249.9	1345.2	1291.9	1395.3	1346.8	1453.4
55°	1493.8	1371.0	1413.0	1375.9	1458.2	1430.8	1511.5	1463.1	1564.8	1516.4	1629.4
57.5°	1614.9	1509.9	1584.2	1566.4	1639.1	1605.2	1695.6	1652.0	1753.8	1713.4	1826.4
60°	1773.1	1703.7	1776.4	1774.8	1837.7	1836.1	1894.3	1868.4	1965.3	1947.6	2050.9
62.5°	1978.2	1923.3	2000.8	1979.9	2055.8	2042.8	2113.9	2113.9	2183.3	2207.6	2310.9
65°	2254.4	2181.7	2273.8	2241.5	2317.4	2320.6	2365.8	2373.9	2457.9	2485.3	2574.1
67.5°	2629.0	2545.1	2617.7	2556.4	2643.6	2638.7	2677.5	2693.6	2704.9	2771.1	2780.8
70°	3168.4	3042.4	3108.7	3024.7	3040.8	3052.1	2979.5	3032.8	2903.6	3008.5	2866.4
72.5°	3751.4	3607.7	3493.0	3409.0	3242.7	3218.5	3006.9	3052.1	2777.6	2868.0	2580.6
73°	3782.1	3643.2	3488.2	3401.0	3203.9	3178.1	2952.0	2990.8	2687.2	2772.8	2470.8
75°	3438.1	3475.2	3102.2	3137.7	2795.4	2835.7	2482.1	2527.3	2154.3	2218.9	1829.7
77.5°	2317.4	2441.7	2023.5	2180.1	1755.4	1912.0	1432.4	1446.9	1056.1	986.7	670.2
80°	1148.2	1254.8	889.8	972.2	652.4	641.1	390.8	324.6	276.1	282.6	290.7
82.5°	331.1	373.0	230.9	229.3	163.1	155.0	155.0	164.7	167.9	187.3	182.5
85°	63.0	75.9	66.2	88.8	79.1	87.2	80.7	93.7	87.2	108.2	93.7
87.5°	1.6	0.0	1.6	4.8	4.8	11.3	8.1	12.9	12.9	22.6	21.0
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°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	594.3	602.4	599.1	595.9	592.7	591.0	584.6	587.8	579.7	586.2	579.7
5°	581.4	591.0	586.2	579.7	576.5	573.3	562.0	570.1	557.1	568.4	558.8
7.5°	566.8	583.0	578.1	571.7	565.2	562.0	539.4	557.1	537.8	553.9	537.8
10°	562.0	579.7	573.3	565.2	558.8	555.5	528.1	549.1	528.1	545.8	524.8
12.5°	558.8	579.7	570.1	562.0	555.5	550.7	520.0	545.8	518.4	544.2	520.0
15°	555.5	579.7	566.8	557.1	550.7	545.8	513.5	542.6	511.9	541.0	513.5
17.5°	552.3	574.9	563.6	552.3	545.8	542.6	507.1	537.8	505.5	537.8	510.3
20°	547.4	570.1	557.1	545.8	539.4	534.5	499.0	531.3	497.4	529.7	499.0
22.5°	541.0	565.2	553.9	542.6	536.1	528.1	489.3	523.2	487.7	520.0	490.9
25°	542.6	568.4	553.9	542.6	532.9	524.8	482.9	520.0	479.6	511.9	479.6
27.5°	550.7	573.3	558.8	549.1	536.1	526.5	482.9	516.8	476.4	503.8	469.9
30°	566.8	589.4	576.5	562.0	550.7	537.8	490.9	518.4	476.4	494.2	460.2
32.5°	594.3	615.3	602.4	591.0	578.1	558.8	507.1	526.5	479.6	487.7	452.2
35°	629.8	655.6	649.2	641.1	625.0	591.0	534.5	537.8	486.1	481.2	440.9
37.5°	687.9	723.5	721.9	720.2	702.5	641.1	565.2	560.4	492.5	476.4	426.3
40°	763.8	805.8	817.1	828.4	791.3	700.9	600.7	583.0	495.8	466.7	403.7
42.5°	852.7	909.2	943.1	964.1	896.3	767.1	641.1	608.8	495.8	452.2	377.9
45°	962.5	1028.7	1093.3	1115.9	1012.5	838.1	683.1	629.8	489.3	429.6	344.0
47.5°	1096.5	1174.0	1262.8	1274.1	1138.5	914.0	712.2	644.3	468.3	398.9	313.3
50°	1245.1	1338.7	1469.5	1461.5	1272.5	993.2	731.5	654.0	431.2	363.3	276.1
52.5°	1411.4	1529.3	1715.0	1677.9	1435.6	1091.7	749.3	666.9	386.0	321.4	239.0
55°	1619.7	1760.2	1992.8	1913.6	1616.5	1199.9	775.1	668.6	326.2	271.3	211.6
57.5°	1844.2	1994.4	2291.5	2147.8	1786.1	1283.8	763.8	616.9	266.5	229.3	190.6
60°	2113.9	2296.4	2590.3	2365.8	1928.2	1312.9	684.7	508.7	227.7	206.7	180.9
62.5°	2415.9	2596.7	2835.7	2517.6	2008.9	1264.5	508.7	352.0	195.4	184.1	166.3
65°	2737.2	2908.4	2953.6	2530.5	1955.6	1051.3	314.9	230.9	169.6	164.7	153.4
67.5°	3032.8	3048.9	2842.2	2320.6	1697.2	733.2	214.8	184.1	156.6	155.0	148.6
70°	3108.7	2829.3	2362.6	1807.1	1225.7	436.0	174.4	159.9	150.2	150.2	145.3
72.5°	2596.7	2154.3	1579.4	1094.9	668.6	232.5	148.6	145.3	142.1	142.1	138.9
73°	2435.3	1984.7	1414.6	956.0	565.2	208.3	145.3	142.1	140.5	138.9	137.3
75°	1618.1	1246.7	802.6	484.5	263.2	150.2	129.2	129.2	127.6	129.2	127.6
77.5°	623.3	469.9	310.1	208.3	150.2	117.9	109.8	111.4	109.8	113.0	111.4
80°	274.5	271.3	205.1	147.0	109.8	88.8	88.8	88.8	90.4	92.0	92.0
82.5°	187.3	158.3	121.1	90.4	66.2	64.6	66.2	66.2	67.8	69.4	67.8
85°	103.4	87.2	64.6	40.4	35.5	43.6	43.6	43.6	42.0	42.0	40.4
87.5°	32.3	24.2	17.8	4.8	8.1	8.1	11.3	9.7	9.7	11.3	11.3
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°	4.8	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°
600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	110°	114.0
586.2	581.4	586.2	578.1	584.6	578.1	583.0	583.0	581.4	581.4	581.4	112.5°	136.0
566.8	558.8	566.8	562.0	566.8	560.4	565.2	566.8	568.4	573.3	571.7	115°	158.0
552.3	536.1	553.9	537.8	552.3	537.8	550.7	552.3	557.1	563.6	568.4	117.5°	181.0
545.8	524.8	545.8	526.5	544.2	528.1	544.2	545.8	550.7	558.8	566.8	120°	204.0
542.6	520.0	542.6	523.2	542.6	526.5	542.6	547.4	550.7	557.1	566.8	122.5°	228.0
539.4	516.8	542.6	521.6	542.6	526.5	544.2	547.4	552.3	558.8	566.8	125°	254.0
537.8	511.9	539.4	520.0	539.4	523.2	542.6	542.6	549.1	557.1	562.0	127.5°	277.0
531.3	507.1	531.3	511.9	531.3	516.8	532.9	532.9	539.4	542.6	550.7	130°	301.0
521.6	495.8	518.4	500.6	518.4	503.8	516.8	516.8	521.6	526.5	531.3	132.5°	325.0
507.1	482.9	502.2	486.1	499.0	486.1	495.8	494.2	497.4	500.6	503.8	135°	348.0
490.9	466.7	482.9	465.1	473.2	460.2	466.7	463.5	465.1	466.7	468.3	137.5°	369.0
473.2	448.9	457.0	440.9	442.5	429.6	432.8	427.9	426.3	424.7	421.5	140°	390.0
453.8	427.9	427.9	411.8	408.6	397.3	397.3	390.8	386.0	379.5	373.0	142.5°	412.0
429.6	407.0	395.6	382.7	376.3	365.0	363.3	355.3	344.0	332.7	326.2	145°	433.0
405.3	379.5	363.3	350.4	344.0	335.9	334.3	327.8	314.9	302.0	292.3	147.5°	452.0
373.0	347.2	329.4	324.6	319.7	313.3	314.9	306.8	293.9	279.4	271.3	150°	469.0
340.7	318.1	303.6	302.0	298.8	297.1	298.8	292.3	277.8	264.8	255.2	152.5°	486.0
313.3	290.7	276.1	274.5	272.9	279.4	281.0	279.4	263.2	250.3	237.4	155°	503.0
285.8	258.4	248.7	245.5	247.1	256.8	260.0	264.8	250.3	235.8	218.0	157.5°	517.0
253.5	227.7	224.5	221.2	222.9	230.9	239.0	248.7	235.8	214.8	190.6	160°	530.0
224.5	201.9	203.5	200.2	203.5	209.9	216.4	232.5	216.4	195.4	184.1	162.5°	540.0
201.9	184.1	187.3	184.1	187.3	195.4	200.2	213.2	213.2	208.3	198.6	165°	550.0
185.7	172.8	176.0	172.8	177.6	184.1	188.9	216.4	232.5	219.6	200.2	167.5°	558.0
176.0	164.7	166.3	163.1	166.3	176.0	185.7	218.0	243.8	218.0	203.5	170°	564.0
161.5	151.8	150.2	150.2	153.4	169.6	174.4	203.5	240.6	216.4	205.1	172.5°	567.0
151.8	143.7	142.1	140.5	143.7	155.0	159.9	188.9	232.5	205.1	185.7	175°	570.0
147.0	140.5	137.3	134.0	137.3	147.0	151.8	177.6	219.6	195.4	174.4	177.5°	574.0
142.1	135.7	134.0	130.8	132.4	138.9	145.3	163.1	208.3	184.1	163.1	180°	576.0
135.7	129.2	127.6	122.7	124.3	130.8	134.0	153.4	193.8	172.8	151.8		
134.0	127.6	126.0	121.1	122.7	127.6	130.8	150.2	190.6	171.2	150.2		
126.0	119.5	117.9	114.7	116.3	116.3	119.5	137.3	180.9	161.5	140.5		
111.4	106.6	105.0	101.7	100.1	98.5	103.4	121.1	164.7	145.3	113.0		
92.0	87.2	85.6	79.1	79.1	79.1	85.6	103.4	122.7	105.0	87.2		
67.8	64.6	64.6	59.8	58.1	56.5	61.4	71.1	96.9	82.4	67.8		
40.4	38.8	40.4	35.5	37.1	35.5	40.4	50.1	53.3	42.0	32.3		
9.7	11.3	11.3	11.3	9.7	9.7	8.1	6.5	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		
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		

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 ISS-AF-800-LED-E1-T4W-7050-ULG

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	600.7	600.7
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	579.7	578.1
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	571.7	571.7
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	568.4	568.4
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	570.1	570.1
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	570.1	573.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	574.9	573.3
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	570.1	570.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	557.1	560.4
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	539.4	539.4
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	510.3	511.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	471.5	474.8
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	423.1	426.3
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	368.2	371.4
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	324.6	326.2
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	295.5	295.5
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	271.3	271.3
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	248.7	247.1
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	226.1	222.9
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	203.5	201.9
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	184.1	184.1
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	187.3	187.3
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	201.9	201.9
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	203.5	201.9
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	221.2	219.6
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	230.9	235.8
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	201.9	195.4
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	192.2	182.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	172.8	158.3
										72.5°	153.4	145.3
										73°	148.6	142.1
										75°	132.4	129.2
										77.5°	100.1	98.5
										80°	84.0	82.4
										82.5°	56.5	53.3
										85°	24.2	22.6
										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

