

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: P228078

Luminaire Tested: **ISS-AF-1000-LED-E1-SL2-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-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-1000-LED-E1-SL2-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, 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: 6896.2 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G2

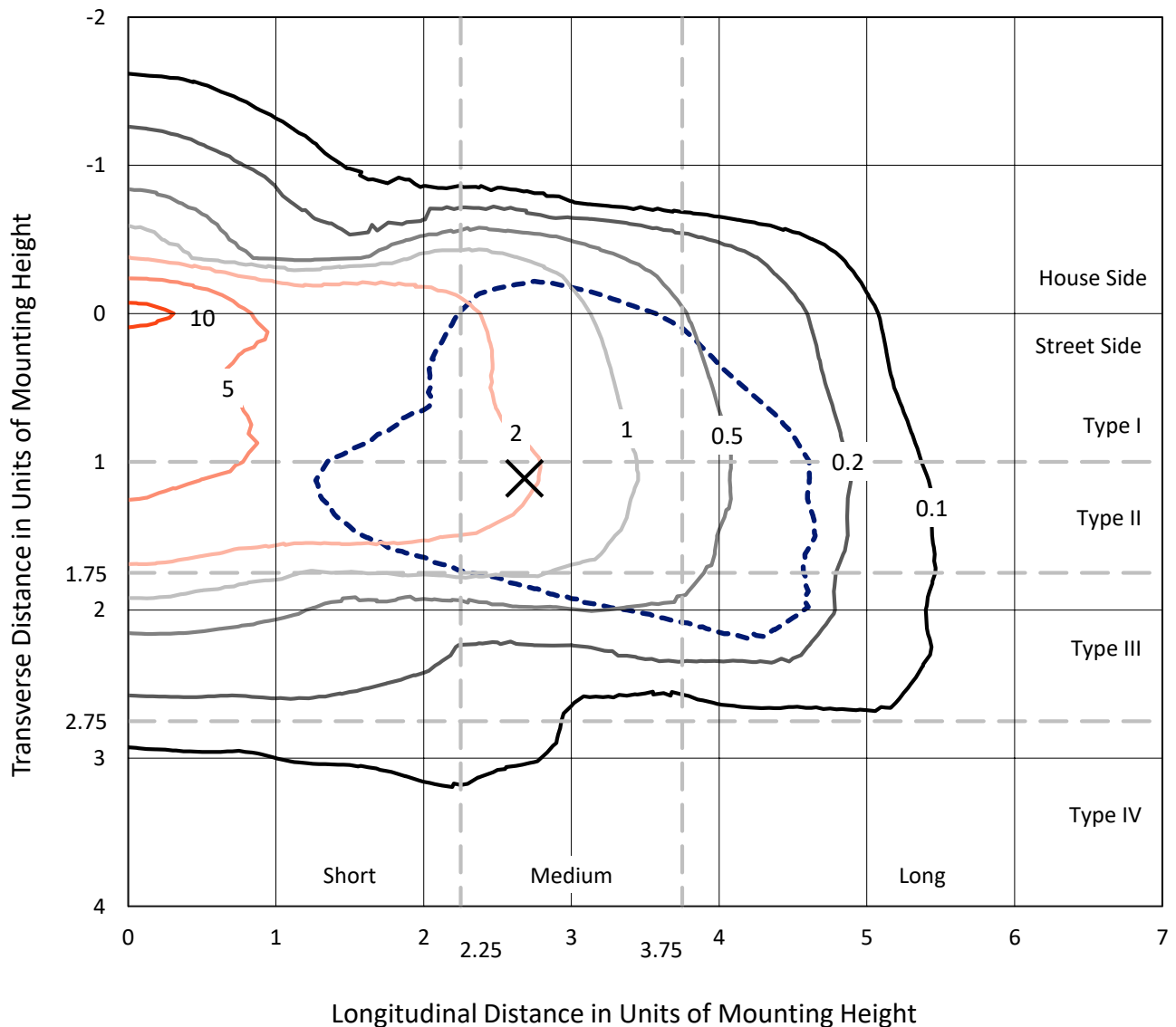
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

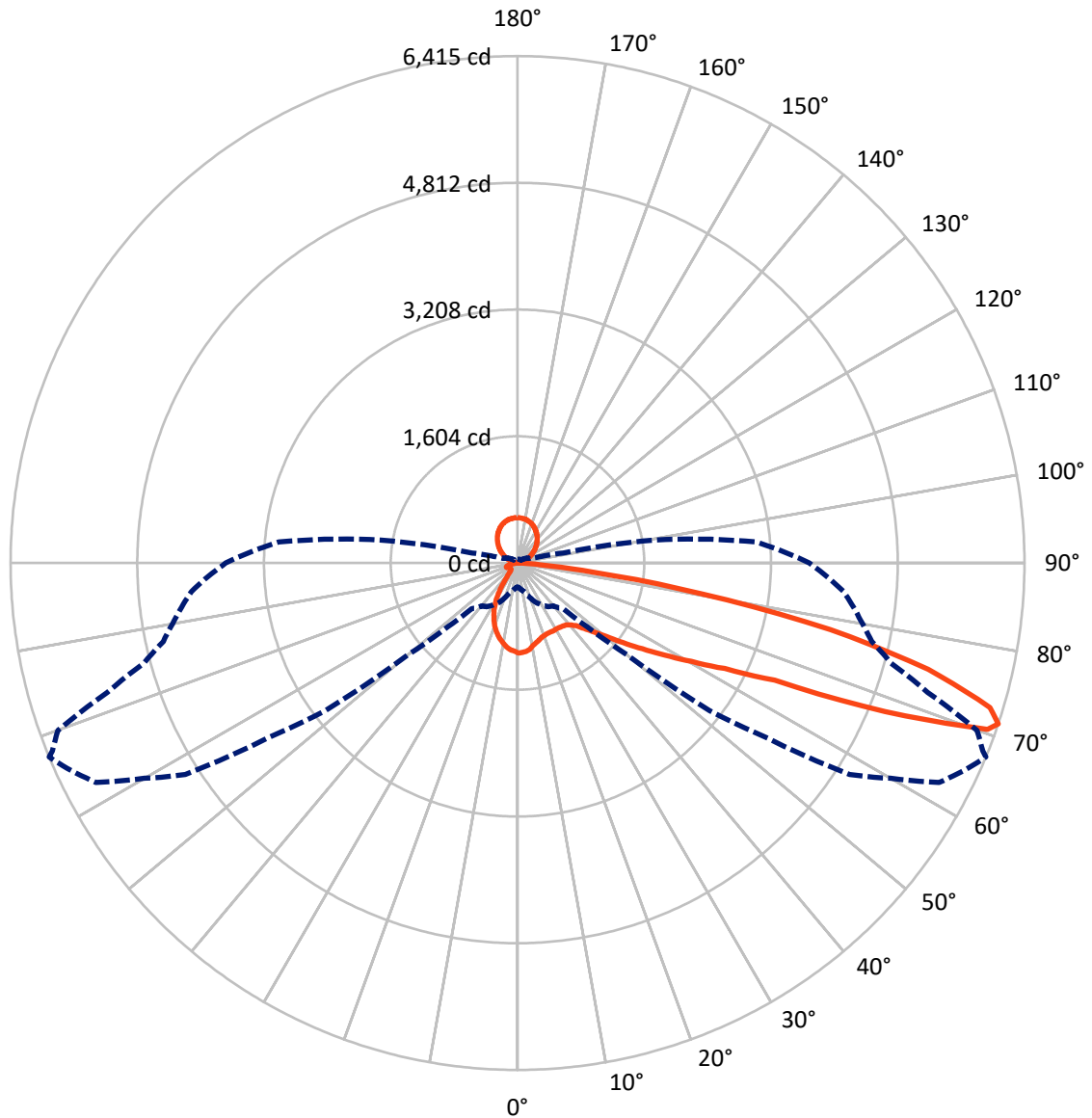
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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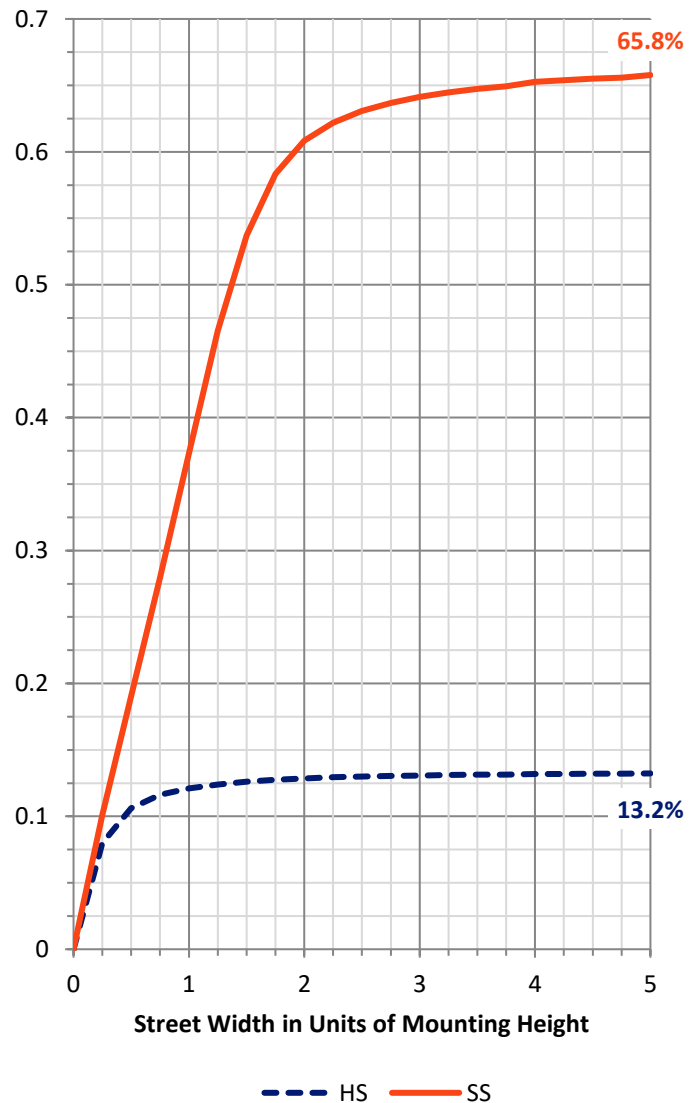
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	921.8	713.1	1634.8
	% Fixture	13.4	10.3	23.7
Street Side	Lumens	4548.2	713.1	5261.3
	% Fixture	66.0	10.3	76.3
Total	Lumens	5470.0	1426.2	6896.2
	% Fixture	79.3	20.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.4
10°-20°	238.0	3.5
20°-30°	323.6	4.7
30°-40°	442.3	6.4
40°-50°	666.4	9.7
50°-60°	1056.2	15.3
60°-70°	1398.2	20.3
70°-80°	1113.9	16.2
80°-90°	132.0	1.9
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.2
120°-130°	223.9	3.2
130°-140°	265.6	3.9
140°-150°	269.3	3.9
150°-160°	231.1	3.4
160°-170°	155.1	2.2
170°-180°	54.3	0.8
0°-90°	5470.0	79.3
0°-180°	6896.2	100.0



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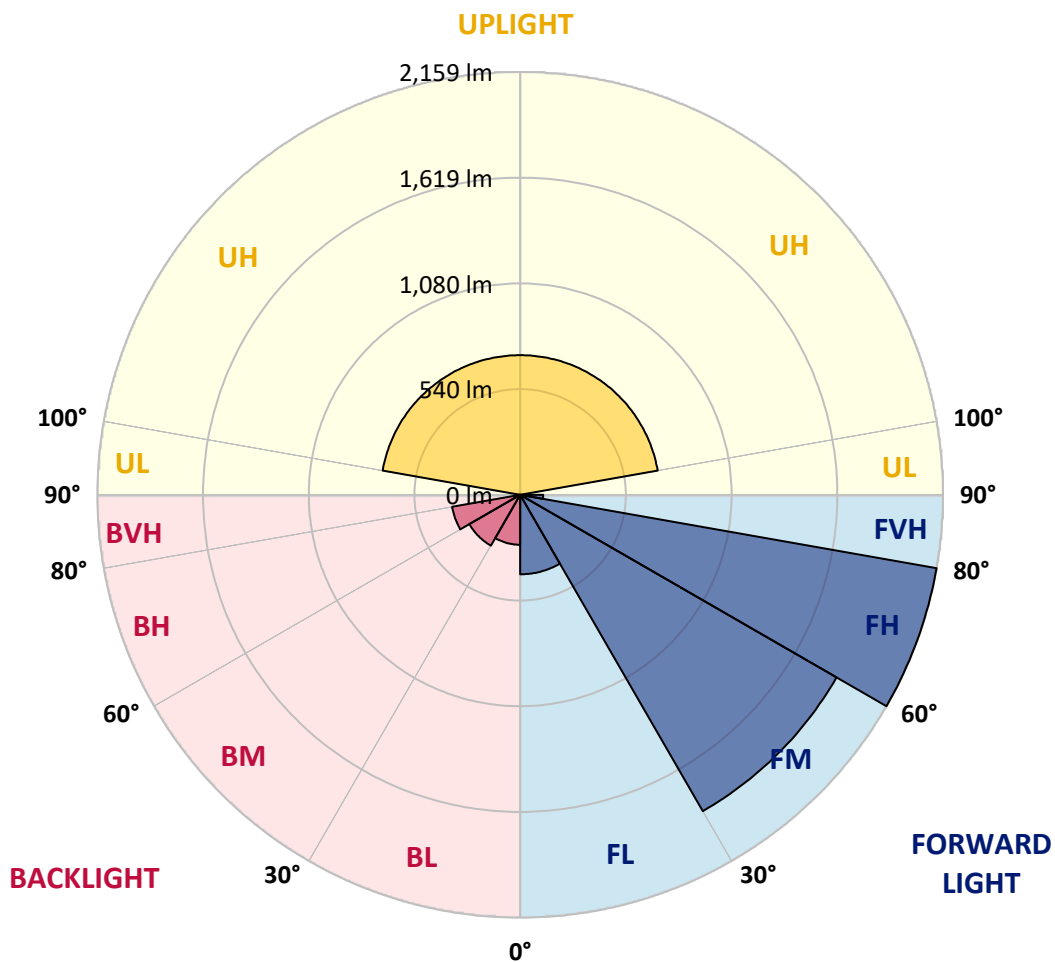
CATALOG NUMBER: ISS-AF-1000-LED-E1-SL2-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.9	5.9			
FM	(30°-60°)	1865.4	27.0			
FH	(60°-80°)	2159.3	31.3			G2/5000
FVH	(80°-90°)	117.8	1.7			G2/225
BL	(0°-30°)	255.2	3.7	B1/500		
BM	(30°-60°)	299.5	4.3	B1/1000		
BH	(60°-80°)	352.8	5.1	B1/500		G1/500
BVH	(80°-90°)	14.3	0.2			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	10.3		U4/1000	

BUG Rating: B1-U5-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1118.9	1115.1	1115.1	1120.8	1130.3	1122.7	1128.4	1128.4	1130.3	1136.1	1138.0
5°	1036.8	1029.1	1036.8	1044.4	1065.4	1061.6	1067.3	1073.1	1084.5	1086.4	1101.7
7.5°	962.3	958.5	964.2	979.5	1006.2	998.6	1006.2	1013.9	1027.2	1033.0	1048.2
10°	905.0	899.3	906.9	918.4	945.1	943.2	947.0	956.6	971.9	975.7	994.8
12.5°	863.0	863.0	866.8	882.1	905.0	903.1	914.6	920.3	933.7	937.5	958.5
15°	842.0	836.3	843.9	857.3	880.2	880.2	887.8	893.6	912.7	914.6	933.7
17.5°	822.9	824.8	826.8	842.0	863.0	859.2	868.8	872.6	893.6	889.8	912.7
20°	822.9	826.8	824.8	834.4	849.7	842.0	853.5	855.4	878.3	872.6	897.4
22.5°	845.8	849.7	843.9	842.0	847.8	842.0	847.8	851.6	868.8	864.9	887.8
25°	885.9	893.6	885.9	872.6	866.8	851.6	855.4	861.1	874.5	864.9	885.9
27.5°	948.9	954.7	941.3	927.9	901.2	884.0	878.3	876.4	891.7	876.4	893.6
30°	1021.5	1029.1	1017.7	992.9	954.7	926.0	914.6	908.9	918.4	895.5	912.7
32.5°	1099.8	1107.4	1099.8	1080.7	1029.1	987.1	971.9	958.5	966.1	935.6	943.2
35°	1180.0	1187.6	1195.3	1183.8	1117.0	1069.2	1044.4	1033.0	1031.1	992.9	994.8
37.5°	1250.6	1258.3	1283.1	1294.5	1233.4	1168.5	1145.6	1120.8	1122.7	1069.2	1069.2
40°	1336.5	1346.1	1378.6	1405.3	1365.2	1286.9	1260.2	1233.4	1233.4	1162.8	1164.7
42.5°	1453.0	1464.5	1485.5	1521.8	1508.4	1428.2	1399.6	1363.3	1367.1	1283.1	1281.2
45°	1617.2	1624.9	1624.9	1647.8	1649.7	1573.3	1554.2	1517.9	1525.6	1418.7	1424.4
47.5°	1831.1	1821.5	1783.3	1796.7	1812.0	1731.8	1714.6	1691.7	1701.2	1586.7	1598.1
50°	2029.6	2022.0	1943.7	1947.5	2002.9	1920.8	1915.1	1886.4	1899.8	1785.2	1802.4
52.5°	2104.1	2090.7	2012.5	2054.5	2209.1	2163.3	2172.8	2159.5	2167.1	2044.9	2041.1
55°	2020.1	2020.1	1972.4	2048.7	2363.8	2388.6	2466.9	2497.4	2529.9	2407.7	2381.0
57.5°	1787.2	1802.4	1810.1	1945.6	2339.0	2445.9	2594.8	2724.6	2890.8	2883.1	2923.2
60°	1401.5	1428.2	1472.1	1693.6	2232.0	2407.7	2600.5	2795.3	3024.4	3171.4	3389.1
62.5°	983.3	1006.2	1042.5	1195.3	1920.8	2222.5	2501.3	2801.0	3093.2	3324.2	3610.6
65°	668.3	691.2	767.6	851.6	1159.0	1598.1	2023.9	2520.3	2965.2	3394.8	3780.5
67.5°	481.2	494.5	553.7	695.0	771.4	851.6	1010.0	1594.3	2142.3	3007.2	3570.5
70°	360.9	374.2	427.7	584.3	677.8	698.8	737.0	840.1	979.5	1689.8	2428.7
71°	301.7	320.8	385.7	549.9	674.0	691.2	708.4	769.5	815.3	1195.3	1802.4
72.5°	211.9	225.3	286.4	507.9	647.3	687.4	727.5	725.6	721.7	815.3	1090.2
75°	135.6	135.6	135.6	286.4	691.2	666.4	681.6	763.7	721.7	685.5	717.9
77.5°	106.9	105.0	99.3	143.2	540.3	675.9	716.0	737.0	777.1	716.0	683.5
80°	80.2	78.3	78.3	89.7	250.1	437.2	605.3	672.1	700.7	761.8	695.0
82.5°	42.0	42.0	45.8	53.5	93.6	152.7	313.1	515.5	576.6	580.4	586.2
85°	13.4	11.5	15.3	24.8	40.1	49.6	87.8	208.1	309.3	374.2	395.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	7.6	13.4	17.2
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	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
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	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
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	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
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):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1132.2	1139.9	1134.2	1141.8	1132.2	1143.7	1134.2	1139.9	1141.8	1134.2	1143.7
5°	1092.2	1115.1	1107.4	1124.6	1117.0	1132.2	1124.6	1139.9	1139.9	1134.2	1147.5
7.5°	1042.5	1065.4	1067.3	1084.5	1084.5	1103.6	1103.6	1118.9	1126.5	1126.5	1145.6
10°	992.9	1013.9	1017.7	1036.8	1040.6	1063.5	1063.5	1084.5	1099.8	1105.5	1128.4
12.5°	954.7	981.4	981.4	1002.4	998.6	1033.0	1036.8	1055.9	1071.1	1084.5	1115.1
15°	931.8	956.6	956.6	977.6	973.8	1008.1	1013.9	1033.0	1055.9	1063.5	1105.5
17.5°	908.9	933.7	927.9	956.6	954.7	992.9	989.0	1017.7	1036.8	1048.2	1096.0
20°	889.8	918.4	914.6	943.2	935.6	977.6	977.6	1006.2	1025.3	1034.9	1090.2
22.5°	880.2	910.8	903.1	931.8	926.0	968.0	968.0	996.7	1017.7	1033.0	1088.3
25°	880.2	906.9	899.3	931.8	922.2	968.0	966.1	994.8	1015.8	1029.1	1090.2
27.5°	884.0	910.8	905.0	935.6	927.9	968.0	971.9	996.7	1017.7	1033.0	1094.1
30°	897.4	922.2	908.9	937.5	931.8	970.0	968.0	994.8	1015.8	1034.9	1094.1
32.5°	926.0	939.4	922.2	947.0	935.6	973.8	973.8	992.9	1017.7	1040.6	1094.1
35°	966.1	975.7	948.9	966.1	945.1	983.3	981.4	1002.4	1021.5	1040.6	1097.9
37.5°	1023.4	1034.9	992.9	1008.1	973.8	1004.3	996.7	1021.5	1040.6	1052.1	1117.0
40°	1109.3	1113.2	1057.8	1069.2	1021.5	1048.2	1029.1	1063.5	1073.1	1080.7	1145.6
42.5°	1214.3	1218.2	1147.5	1155.2	1094.1	1117.0	1084.5	1120.8	1134.2	1132.2	1202.9
45°	1344.2	1346.1	1265.9	1271.6	1201.0	1220.1	1180.0	1210.5	1220.1	1214.3	1286.9
47.5°	1485.5	1500.8	1411.0	1418.7	1344.2	1353.7	1304.1	1338.5	1338.5	1332.7	1407.2
50°	1672.6	1695.5	1590.5	1601.9	1516.0	1523.7	1466.4	1502.7	1498.8	1483.6	1567.6
52.5°	1905.5	1926.5	1815.8	1831.1	1739.4	1743.2	1672.6	1714.6	1703.1	1678.3	1775.7
55°	2190.0	2191.9	2088.8	2102.2	2010.5	2004.8	1917.0	1968.5	1951.4	1917.0	2006.7
57.5°	2646.4	2591.0	2421.1	2417.2	2318.0	2310.3	2197.7	2260.7	2232.0	2159.5	2277.9
60°	3381.5	3398.7	2965.2	2898.4	2713.2	2678.8	2529.9	2602.4	2568.1	2449.7	2566.2
62.5°	3795.8	4068.8	4042.1	3801.5	3324.2	3194.3	2942.3	3028.2	2938.5	2764.7	2873.6
65°	4103.2	4473.6	4687.5	4918.5	4704.6	4173.8	3578.1	3698.4	3478.8	3148.5	3253.5
67.5°	4217.8	4664.6	5115.2	5443.6	5667.0	5707.1	5017.8	5050.2	4509.9	3849.3	3862.6
70°	3618.2	4277.0	5159.1	5575.3	6018.3	6236.0	6308.5	6274.1	5924.7	4989.1	4632.1
71°	3066.4	3864.5	4983.4	5447.4	6014.5	6224.5	6415.4	6350.5	6188.2	5441.7	4893.7
72.5°	2077.4	3079.8	4469.8	5057.9	5814.0	5966.7	6253.1	6138.6	6104.2	5779.6	5138.1
75°	977.6	1535.1	2907.9	3797.7	4920.4	5067.4	5367.2	5225.9	5136.2	5246.9	4887.9
77.5°	719.8	838.2	1596.2	2360.0	3578.1	3786.2	4044.0	3870.3	3755.7	3866.4	3616.3
80°	654.9	658.7	826.8	1244.9	2134.7	2258.8	2356.1	2214.9	2041.1	2033.5	1802.4
82.5°	603.4	570.9	536.5	658.7	1094.1	1040.6	962.3	891.7	693.1	555.6	401.0
85°	383.8	420.1	381.9	360.9	435.3	359.0	284.5	273.0	192.8	129.8	120.3
87.5°	26.7	30.5	36.3	42.0	51.6	42.0	26.7	32.5	19.1	0.0	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.4	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	29.1	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.4	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.4	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.7	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.7	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.7	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.7	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.3	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.3	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.3	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.3	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.3	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.3	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	390.6	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.3	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.3	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.3	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.3	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.3	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.4	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.4	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.3	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	564.6	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.3	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.4	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	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°	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1130.3	1139.9	1143.7	1141.8	1138.0	1134.2	1120.8	1130.3	1117.0	1126.5	1115.1
5°	1136.1	1149.4	1151.3	1147.5	1143.7	1136.1	1113.2	1126.5	1111.2	1118.9	1101.7
7.5°	1134.2	1155.2	1157.1	1153.2	1145.6	1132.2	1109.3	1118.9	1094.1	1099.8	1076.9
10°	1124.6	1155.2	1157.1	1147.5	1136.1	1115.1	1088.3	1092.2	1067.3	1067.3	1036.8
12.5°	1115.1	1151.3	1160.9	1147.5	1128.4	1099.8	1069.2	1065.4	1036.8	1034.9	1000.5
15°	1115.1	1155.2	1168.5	1151.3	1122.7	1082.6	1046.3	1038.7	1006.2	996.7	958.5
17.5°	1113.2	1155.2	1174.3	1151.3	1117.0	1065.4	1019.6	1012.0	970.0	954.7	910.8
20°	1111.2	1159.0	1178.1	1147.5	1099.8	1044.4	992.9	977.6	931.8	906.9	855.4
22.5°	1109.3	1166.6	1181.9	1143.7	1088.3	1017.7	964.2	937.5	884.0	851.6	790.5
25°	1118.9	1176.2	1183.8	1139.9	1071.1	989.0	931.8	895.5	836.3	794.3	721.7
27.5°	1122.7	1185.7	1187.6	1132.2	1050.1	958.5	897.4	847.8	780.9	729.4	647.3
30°	1134.2	1187.6	1181.9	1117.0	1025.3	920.3	857.3	796.2	721.7	654.9	557.5
32.5°	1138.0	1193.3	1178.1	1099.8	1000.5	882.1	811.5	740.8	651.1	572.8	454.4
35°	1145.6	1197.2	1174.3	1090.2	973.8	842.0	763.7	683.5	580.4	481.2	345.6
37.5°	1157.1	1214.3	1183.8	1086.4	960.4	807.7	710.3	624.4	496.4	380.0	229.1
40°	1185.7	1248.7	1201.0	1092.2	950.9	779.0	658.7	563.3	401.0	280.7	158.5
42.5°	1243.0	1307.9	1244.9	1120.8	956.6	754.2	605.3	498.3	303.6	200.5	131.7
45°	1328.9	1384.3	1317.5	1168.5	979.5	740.8	555.6	431.5	217.7	160.4	120.3
47.5°	1454.9	1508.4	1424.4	1244.9	1019.6	735.1	504.1	360.9	168.0	145.1	116.5
50°	1621.0	1684.1	1579.0	1365.2	1094.1	740.8	448.7	294.0	147.0	141.3	114.6
52.5°	1825.3	1886.4	1781.4	1542.8	1216.3	773.3	389.5	255.9	139.4	139.4	112.7
55°	2056.4	2142.3	2039.2	1789.1	1405.3	843.9	353.2	242.5	139.4	141.3	110.7
57.5°	2329.4	2402.0	2310.3	2025.8	1632.5	960.4	357.0	255.9	139.4	141.3	108.8
60°	2596.7	2686.5	2581.4	2327.5	1892.2	1136.1	435.3	324.6	145.1	147.0	108.8
62.5°	2875.5	2944.2	2858.3	2591.0	2186.2	1353.7	591.9	469.7	168.0	173.8	116.5
65°	3181.0	3293.6	3203.9	2984.3	2602.4	1701.2	889.8	704.6	248.2	202.4	127.9
67.5°	3709.9	3755.7	3711.8	3511.3	3089.3	1987.6	1059.7	716.0	248.2	196.7	143.2
70°	4425.9	4322.8	4126.1	3751.9	3140.9	1783.3	759.9	437.2	211.9	187.1	150.8
71°	4592.0	4433.5	4143.3	3692.7	3034.0	1609.6	590.0	345.6	198.6	183.3	150.8
72.5°	4693.2	4456.4	4017.3	3518.9	2823.9	1267.8	389.5	271.1	181.4	173.8	145.1
75°	4561.4	4124.2	3547.6	3045.4	2312.2	658.7	244.4	206.2	154.7	150.8	126.0
77.5°	3622.0	3238.3	2617.7	2212.9	1487.4	292.1	175.7	156.6	122.2	118.4	97.4
80°	1689.8	1355.6	794.3	681.6	467.8	171.8	120.3	106.9	87.8	84.0	68.7
82.5°	307.4	231.0	179.5	173.8	156.6	101.2	70.6	64.9	55.4	53.5	43.9
85°	105.0	101.2	76.4	76.4	78.3	53.5	40.1	38.2	28.6	28.6	19.1
87.5°	1.9	9.5	9.5	13.4	11.5	9.5	3.8	5.7	1.9	5.7	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°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	110°	114.0
1124.6	1109.3	1122.7	1109.3	1117.0	1101.7	1111.2	1105.5	1105.5	1099.8	1096.0	112.5°	136.0
1107.4	1088.3	1097.9	1082.6	1090.2	1067.3	1073.1	1063.5	1044.4	1033.0	1017.7	115°	158.0
1082.6	1054.0	1061.6	1038.7	1044.4	1013.9	1019.6	1002.4	966.1	943.2	920.3	117.5°	181.0
1038.7	1012.0	1013.9	985.2	983.3	952.8	947.0	924.1	870.7	832.5	801.9	120°	204.0
994.8	964.2	960.4	926.0	920.3	884.0	876.4	840.1	761.8	687.4	639.6	122.5°	228.0
948.9	910.8	899.3	863.0	842.0	811.5	790.5	737.0	624.4	527.0	464.0	125°	254.0
897.4	847.8	830.6	788.6	758.0	712.2	681.6	609.1	464.0	359.0	315.0	127.5°	277.0
830.6	777.1	746.6	693.1	653.0	597.6	559.4	465.9	309.3	255.9	250.1	130°	301.0
756.1	693.1	654.9	588.1	538.4	479.2	418.1	315.0	219.6	208.1	215.8	132.5°	325.0
677.8	599.5	549.9	467.8	401.0	332.2	274.9	210.0	179.5	177.6	189.0	135°	348.0
584.3	494.5	423.9	326.5	265.4	211.9	187.1	166.1	152.7	154.7	166.1	137.5°	369.0
481.2	364.7	290.2	204.3	177.6	154.7	150.8	143.2	137.5	141.3	148.9	140°	390.0
359.0	232.9	187.1	147.0	145.1	131.7	135.6	131.7	129.8	131.7	137.5	142.5°	412.0
242.5	154.7	147.0	126.0	129.8	120.3	126.0	124.1	122.2	122.2	126.0	145°	433.0
168.0	127.9	131.7	116.5	122.2	114.6	120.3	118.4	116.5	114.6	116.5	147.5°	452.0
139.4	116.5	122.2	110.7	116.5	108.8	114.6	112.7	110.7	106.9	106.9	150°	469.0
127.9	110.7	116.5	105.0	112.7	103.1	110.7	106.9	103.1	99.3	101.2	152.5°	486.0
124.1	106.9	112.7	101.2	108.8	99.3	105.0	103.1	95.5	93.6	95.5	155°	503.0
120.3	105.0	110.7	99.3	105.0	95.5	101.2	97.4	89.7	87.8	89.7	157.5°	517.0
118.4	101.2	106.9	95.5	101.2	93.6	97.4	93.6	85.9	84.0	84.0	160°	530.0
116.5	99.3	105.0	91.6	97.4	85.9	91.6	87.8	80.2	78.3	78.3	162.5°	540.0
116.5	97.4	101.2	87.8	93.6	82.1	85.9	82.1	78.3	74.5	74.5	165°	550.0
114.6	93.6	99.3	84.0	87.8	78.3	82.1	78.3	72.6	70.6	70.6	167.5°	558.0
114.6	91.6	97.4	82.1	85.9	74.5	78.3	74.5	68.7	66.8	66.8	170°	564.0
120.3	95.5	99.3	84.0	85.9	74.5	76.4	70.6	64.9	64.9	63.0	172.5°	567.0
131.7	106.9	106.9	87.8	87.8	74.5	76.4	68.7	61.1	61.1	61.1	175°	570.0
143.2	118.4	116.5	93.6	91.6	74.5	74.5	64.9	57.3	57.3	57.3	177.5°	574.0
150.8	124.1	120.3	95.5	91.6	72.6	70.6	61.1	53.5	53.5	53.5	180°	576.0
148.9	124.1	118.4	93.6	87.8	68.7	68.7	59.2	51.6	51.6	49.6		
141.3	116.5	110.7	87.8	84.0	64.9	64.9	55.4	47.7	47.7	45.8		
120.3	99.3	93.6	74.5	70.6	57.3	55.4	45.8	42.0	40.1	40.1		
93.6	78.3	72.6	59.2	57.3	45.8	43.9	38.2	34.4	34.4	32.5		
66.8	55.4	51.6	40.1	36.3	30.5	32.5	28.6	26.7	26.7	24.8		
40.1	28.6	28.6	22.9	24.8	19.1	21.0	21.0	19.1	15.3	15.3		
21.0	13.4	17.2	9.5	13.4	5.7	9.5	7.6	7.6	5.7	5.7		
3.8	0.0	1.9	0.0	1.9	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	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-1000-LED-E1-SL2-7050-ULG

REPORT NUMBER: P228078
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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°	1139.9	1139.9
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	1084.5	1086.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	1010.0	1013.9
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	903.1	908.9
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	775.2	779.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	611.0	611.0
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	427.7	431.5
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	299.8	301.7
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	252.0	253.9
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	225.3	227.2
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	200.5	202.4
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	173.8	175.7
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	156.6	158.5
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	141.3	143.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	127.9	127.9
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	118.4	118.4
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	108.8	108.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	103.1	103.1
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	97.4	97.4
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	91.6	91.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	85.9	87.8
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	80.2	80.2
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	74.5	74.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	68.7	70.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	64.9	64.9
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	61.1	61.1
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	59.2	59.2
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	55.4	55.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	51.6	51.6
										71°	49.6	49.6
										72.5°	45.8	45.8
										75°	40.1	38.2
										77.5°	32.5	32.5
										80°	24.8	22.9
										82.5°	15.3	13.4
										85°	5.7	3.8
										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
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Scaled Data Report

