

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: P228205

Luminaire Tested: **ISS-AF-1000-LED-E1-SL3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)-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-SL3-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6962.4 lumens
Efficiency: N/A
Efficacy: 97.6 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

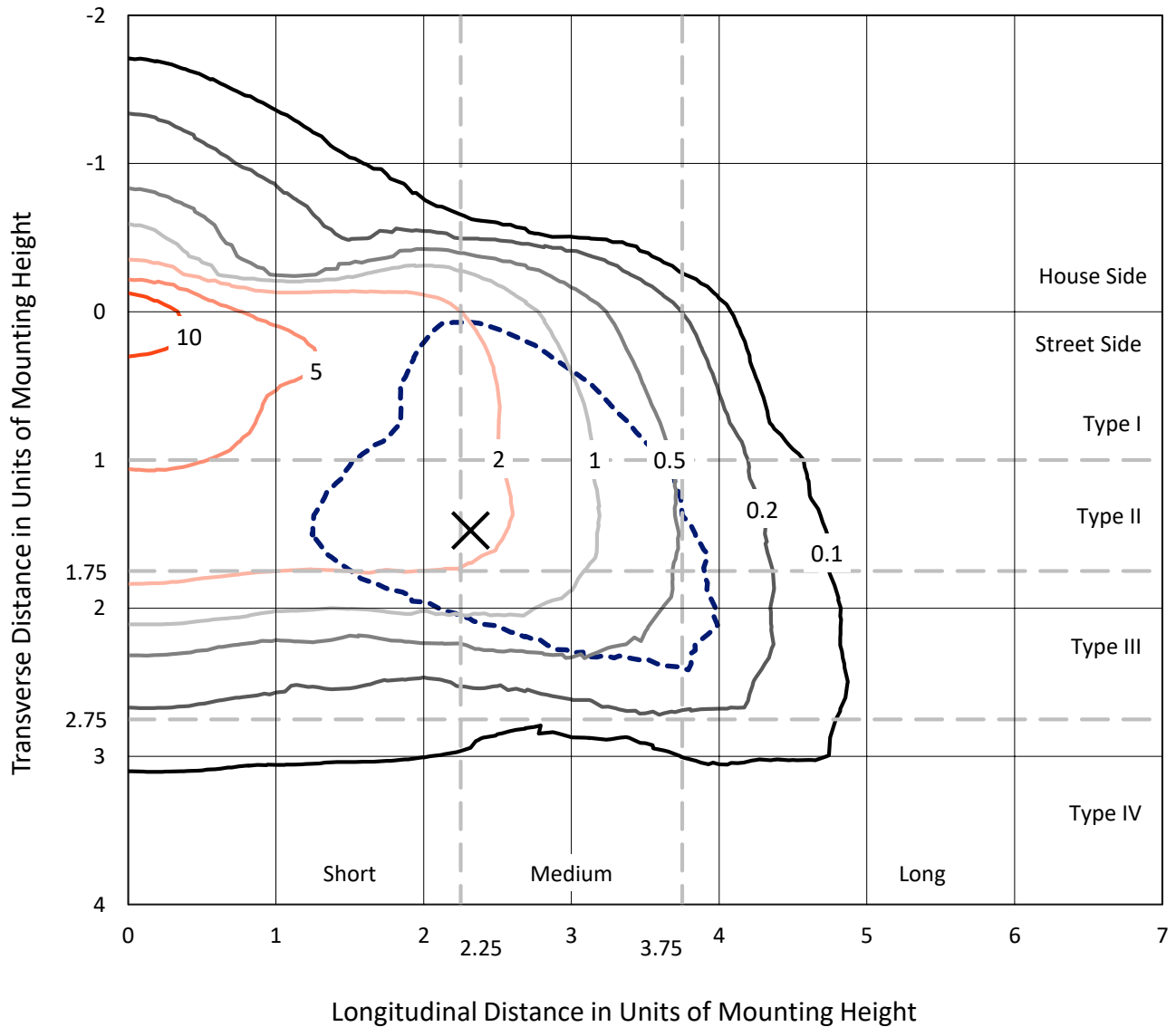
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

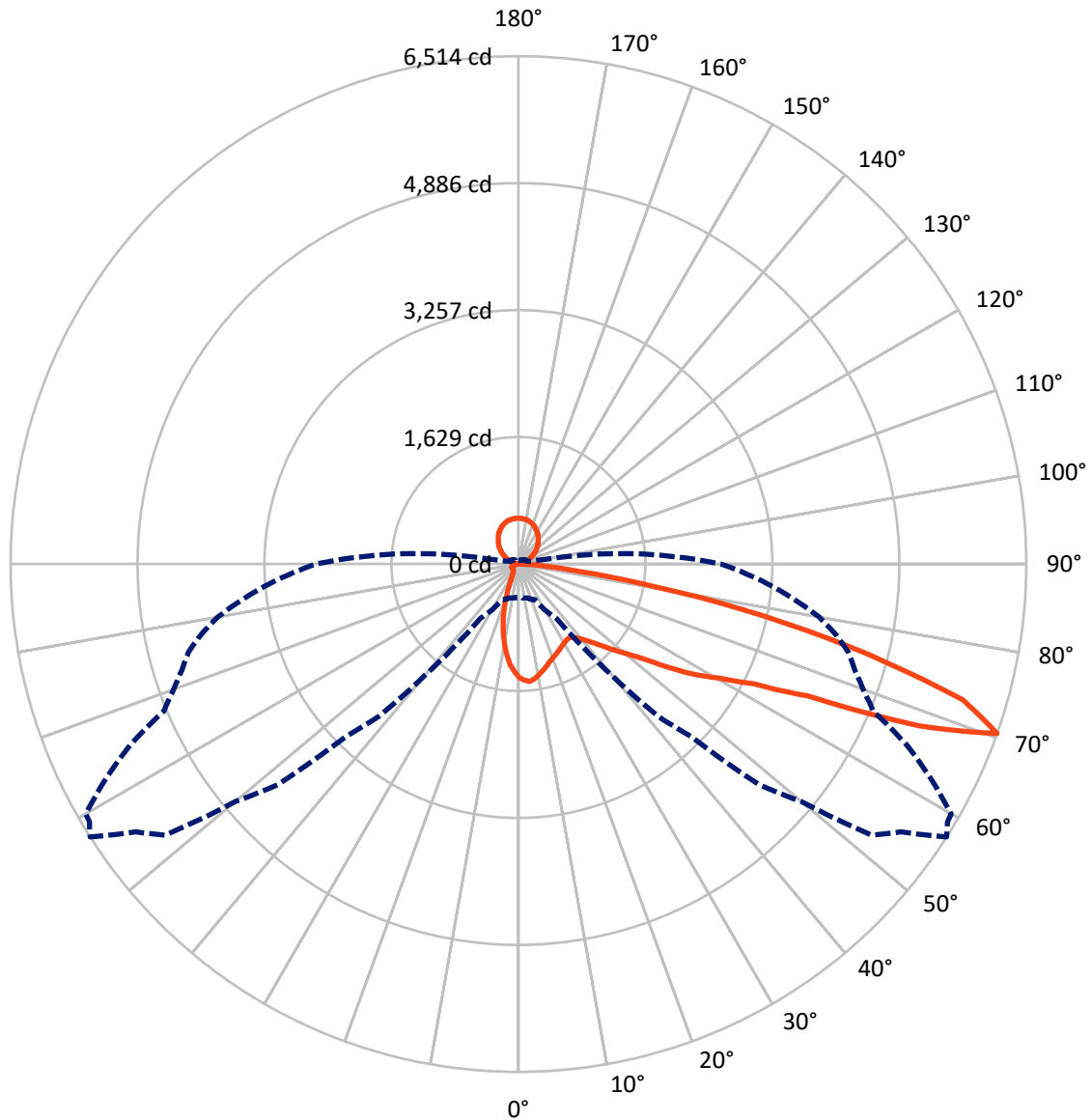
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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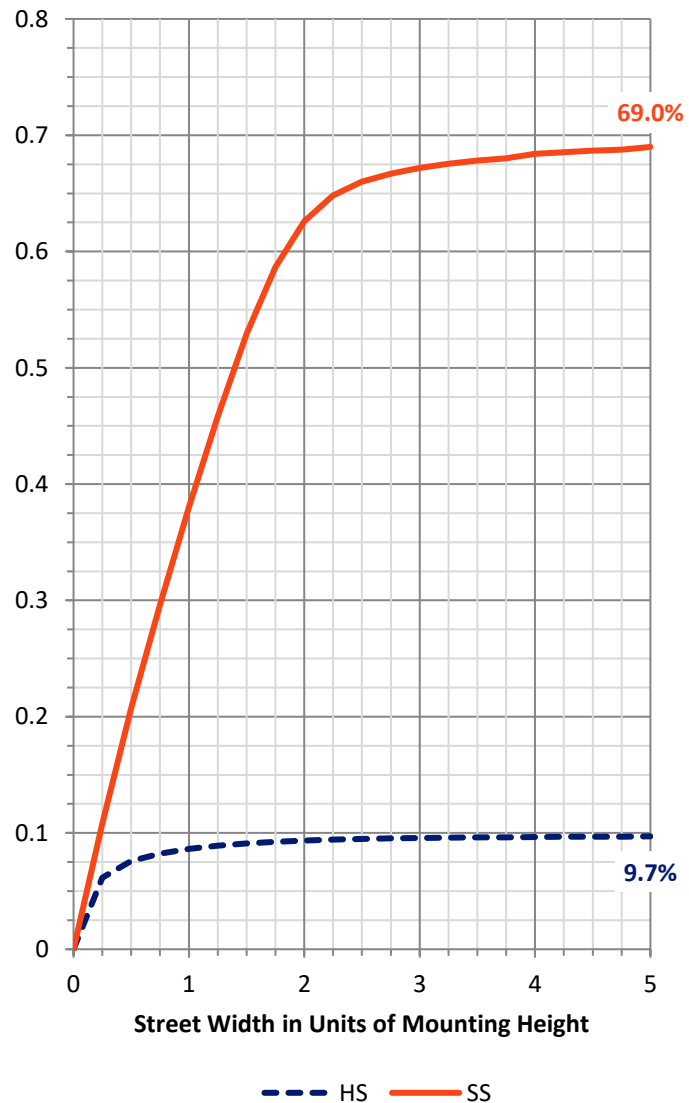
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	681.1	729.4	1410.5
	% Fixture	9.8	10.5	20.3
Street Side	Lumens	4822.4	729.4	5551.9
	% Fixture	69.3	10.5	79.7
Total	Lumens	5503.5	1458.9	6962.4
	% Fixture	79.0	21.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	1.8
10°-20°	273.1	3.9
20°-30°	343.2	4.9
30°-40°	448.5	6.4
40°-50°	672.9	9.7
50°-60°	1063.7	15.3
60°-70°	1533.3	22.0
70°-80°	949.0	13.6
80°-90°	94.1	1.4
90°-100°	4.8	0.1
100°-110°	70.6	1.0
110°-120°	156.6	2.2
120°-130°	229.0	3.3
130°-140°	271.7	3.9
140°-150°	275.5	4.0
150°-160°	236.4	3.4
160°-170°	158.7	2.3
170°-180°	55.6	0.8
0°-90°	5503.5	79.0
0°-180°	6962.4	100.0



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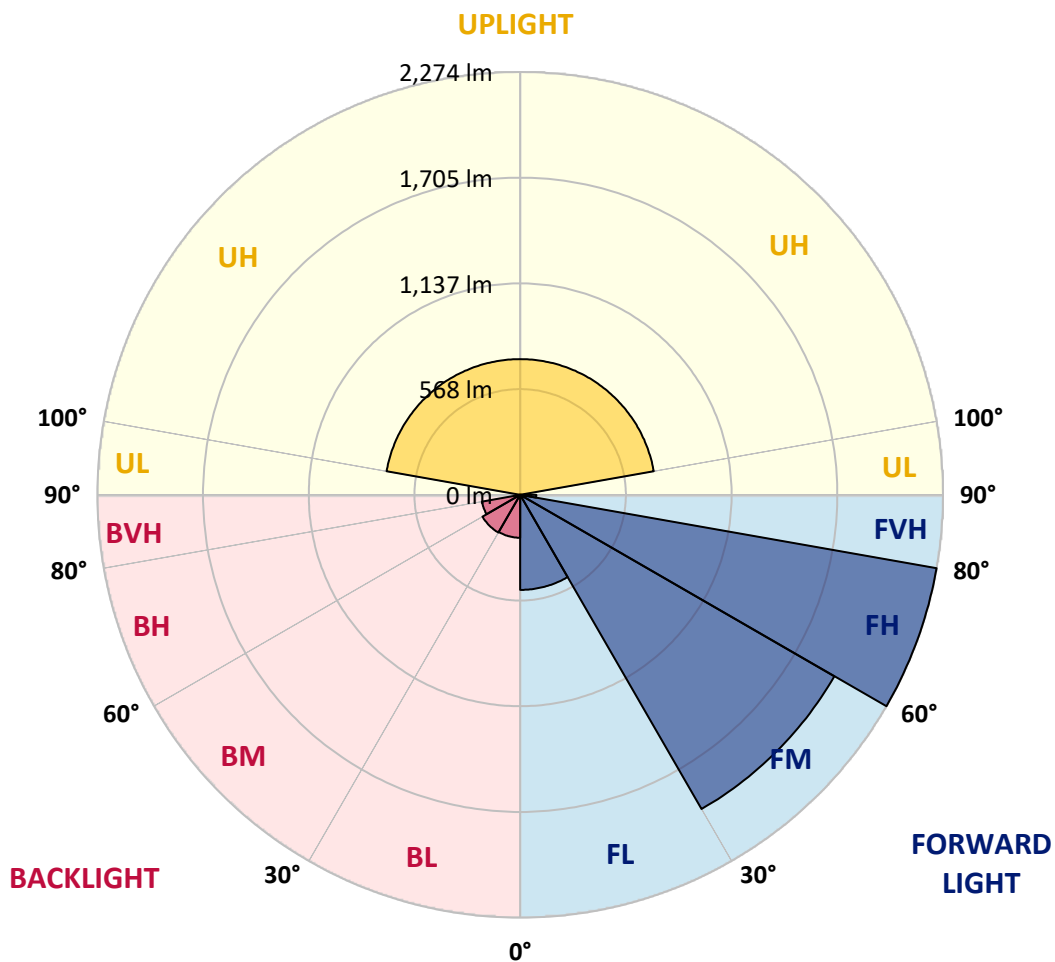
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.1	7.3			
FM	(30°-60°)	1950.9	28.0			
FH	(60°-80°)	2273.8	32.7			G2/5000
FVH	(80°-90°)	86.6	1.2			G1/100
BL	(0°-30°)	230.9	3.3	B1/500		
BM	(30°-60°)	234.2	3.4	B1/1000		
BH	(60°-80°)	208.5	3.0	B1/500		G1/500
BVH	(80°-90°)	7.5	0.1			G0/10
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	10.5		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°	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1528.9	1527.0	1523.1	1515.3	1511.3	1515.3	1511.3	1505.5	1497.7	1503.5	1499.6
5°	1525.0	1528.9	1521.1	1515.3	1525.0	1528.9	1521.1	1521.1	1513.4	1521.1	1517.2
7.5°	1448.9	1450.9	1452.8	1450.9	1476.2	1476.2	1472.3	1476.2	1478.2	1482.1	1484.0
10°	1353.2	1355.1	1359.1	1364.9	1396.1	1400.0	1402.0	1405.9	1411.8	1415.7	1427.4
12.5°	1257.5	1261.4	1269.2	1288.7	1322.0	1325.8	1331.7	1337.6	1347.3	1353.2	1374.6
15°	1177.4	1179.4	1187.2	1208.7	1257.5	1267.2	1271.2	1279.0	1298.5	1298.5	1322.0
17.5°	1103.3	1107.1	1113.0	1138.4	1187.2	1202.8	1214.5	1218.4	1243.8	1249.7	1277.1
20°	1046.6	1048.5	1050.6	1074.0	1118.9	1142.3	1152.0	1167.7	1187.2	1202.8	1226.3
22.5°	1015.4	1017.3	1013.4	1023.2	1062.2	1091.5	1103.3	1118.9	1126.7	1154.0	1167.7
25°	1017.3	1019.3	1009.6	1003.6	1023.2	1054.5	1064.2	1079.8	1075.9	1114.9	1114.9
27.5°	1036.9	1040.8	1031.0	1013.4	1015.4	1040.8	1046.6	1052.5	1040.8	1079.8	1072.1
30°	1075.9	1079.8	1068.1	1054.5	1033.0	1048.5	1048.5	1048.5	1027.0	1060.3	1046.6
32.5°	1117.0	1120.8	1117.0	1107.1	1079.8	1083.7	1075.9	1072.1	1042.7	1070.0	1048.5
35°	1177.4	1179.4	1181.3	1181.3	1142.3	1150.1	1128.6	1117.0	1089.5	1111.0	1081.8
37.5°	1249.7	1249.7	1263.3	1269.2	1226.3	1226.3	1202.8	1187.2	1161.9	1169.6	1140.4
40°	1314.1	1320.0	1351.2	1368.8	1329.7	1314.1	1294.6	1280.9	1261.4	1261.4	1232.1
42.5°	1388.3	1400.0	1437.1	1470.4	1448.9	1425.5	1405.9	1392.2	1382.5	1380.5	1349.3
45°	1480.1	1493.8	1534.7	1566.0	1571.9	1554.3	1538.7	1525.0	1517.2	1513.4	1485.9
47.5°	1583.6	1597.2	1634.4	1671.5	1698.8	1694.9	1677.3	1663.6	1669.6	1665.6	1648.1
50°	1698.8	1706.6	1730.0	1773.0	1835.5	1849.2	1845.3	1835.5	1847.2	1847.2	1831.6
52.5°	1790.6	1796.4	1814.0	1864.7	1968.3	1999.6	2024.9	2044.5	2063.9	2075.7	2066.0
55°	1874.6	1874.6	1876.5	1940.9	2095.2	2145.9	2202.6	2243.6	2269.0	2315.9	2335.4
57.5°	2011.2	2001.5	1999.6	2067.9	2247.5	2300.2	2382.2	2440.8	2476.0	2571.6	2569.7
60°	1972.1	1976.0	2046.4	2247.5	2559.9	2606.8	2680.9	2743.5	2809.8	2880.1	2886.1
62.5°	1700.8	1710.5	1815.9	2116.7	2759.1	3003.2	3231.6	3405.4	3503.1	3565.5	3479.7
65°	1191.1	1214.5	1357.0	1724.2	2540.4	2917.3	3278.5	3680.8	3989.3	4467.6	4606.3
67.5°	593.6	611.2	634.6	904.1	1898.0	2427.2	2925.0	3473.7	3883.8	4586.8	4979.2
70°	425.6	433.5	451.0	507.7	849.4	1271.2	1857.0	2642.0	3124.2	4184.5	4739.1
72.5°	330.0	337.8	361.2	441.3	562.3	620.9	738.1	1206.8	1794.5	2889.9	3639.8
75°	255.8	267.5	300.7	398.3	540.8	574.1	579.9	622.9	710.7	1282.9	2040.5
77.5°	179.6	181.6	214.8	343.7	525.3	589.7	579.9	579.9	591.7	654.2	872.9
80°	119.1	121.0	142.5	238.2	460.8	536.9	593.6	566.3	568.2	578.0	593.6
82.5°	62.5	66.4	84.0	144.5	269.4	363.1	494.0	515.5	507.7	517.4	513.5
85°	17.6	17.6	29.3	54.6	132.8	140.6	218.7	298.8	304.6	345.7	369.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	7.8	17.6	19.5
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°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1503.5	1495.8	1493.8	1489.8	1491.9	1485.9	1484.0	1476.2	1476.2	1472.3	1468.3
5°	1513.4	1505.5	1513.4	1499.6	1501.6	1495.8	1485.9	1485.9	1478.2	1472.3	1460.6
7.5°	1485.9	1485.9	1487.9	1480.1	1482.1	1480.1	1468.3	1466.4	1454.7	1454.7	1441.0
10°	1435.2	1435.2	1443.0	1437.1	1439.1	1437.1	1431.3	1429.4	1425.5	1425.5	1404.0
12.5°	1376.6	1388.3	1400.0	1394.2	1394.2	1398.1	1398.1	1400.0	1398.1	1396.1	1378.5
15°	1327.8	1345.4	1357.0	1355.1	1357.0	1366.9	1370.8	1372.7	1378.5	1376.6	1361.0
17.5°	1282.9	1302.4	1312.1	1320.0	1325.8	1333.6	1345.4	1351.2	1359.1	1357.0	1341.5
20°	1241.9	1259.5	1277.1	1286.8	1288.7	1304.4	1318.1	1335.6	1339.6	1343.4	1323.9
22.5°	1198.9	1214.5	1249.7	1243.8	1257.5	1286.8	1294.6	1320.0	1320.0	1333.6	1306.3
25°	1161.9	1163.8	1218.4	1208.7	1220.4	1273.2	1279.0	1323.9	1312.1	1331.7	1300.5
27.5°	1124.7	1122.8	1189.2	1177.4	1191.1	1263.3	1267.2	1329.7	1318.1	1341.5	1300.5
30°	1097.4	1091.5	1167.7	1144.3	1163.8	1253.6	1255.6	1335.6	1325.8	1357.0	1314.1
32.5°	1091.5	1081.8	1148.2	1130.6	1150.1	1243.8	1255.6	1357.0	1345.4	1384.5	1329.7
35°	1117.0	1101.3	1157.9	1142.3	1157.9	1247.7	1265.3	1390.3	1376.6	1421.5	1366.9
37.5°	1163.8	1152.0	1198.9	1183.3	1195.0	1275.1	1290.7	1433.3	1431.3	1485.9	1423.4
40°	1245.7	1234.1	1271.2	1249.7	1259.5	1333.6	1341.5	1493.8	1499.6	1566.0	1503.5
42.5°	1357.0	1337.6	1366.9	1341.5	1355.1	1421.5	1413.7	1568.0	1585.6	1677.3	1605.1
45°	1499.6	1474.3	1491.9	1464.5	1474.3	1530.8	1509.4	1667.5	1685.1	1798.3	1733.9
47.5°	1655.9	1624.7	1646.1	1610.9	1616.8	1677.3	1638.3	1786.7	1814.0	1956.6	1894.1
50°	1843.3	1802.3	1810.1	1776.9	1780.9	1841.3	1798.3	1933.2	1966.3	2124.5	2069.8
52.5°	2083.4	2024.9	2024.9	1980.0	1982.0	2042.4	1989.7	2106.9	2144.0	2304.1	2267.1
55°	2399.8	2353.0	2343.2	2296.3	2280.7	2292.4	2218.2	2300.2	2341.2	2491.6	2462.2
57.5°	2651.7	2645.9	2675.1	2608.7	2593.1	2597.1	2503.3	2509.2	2556.0	2673.2	2682.9
60°	2958.3	2968.0	2972.0	2917.3	2911.4	2856.7	2761.0	2745.4	2804.0	2884.1	2915.3
62.5°	3446.4	3436.7	3387.8	3346.9	3309.8	3163.3	3110.6	3024.7	3106.7	3151.6	3216.1
65°	4494.9	4393.5	4081.1	4108.4	4010.8	3692.4	3647.5	3473.7	3602.6	3604.6	3725.7
67.5°	5533.9	5733.0	5541.6	5545.5	5324.9	4748.8	4610.2	4264.6	4336.8	4252.9	4315.3
70°	5711.5	5990.7	6514.0	6420.3	6408.6	5965.3	5498.7	4922.6	4705.9	4526.3	4381.7
72.5°	4914.8	5194.0	5961.5	5748.6	5828.7	5963.4	5477.2	5045.6	4561.3	4332.9	4020.5
75°	3458.2	3860.4	4639.5	4528.2	4586.8	4809.4	4391.5	4340.8	3780.3	3628.0	3147.6
77.5°	1853.1	2350.9	3223.8	3087.2	3112.5	3239.5	2804.0	2714.2	2173.3	2023.0	1478.2
80°	833.8	1155.9	1810.1	1657.8	1612.9	1540.7	1134.5	894.3	546.8	363.1	251.9
82.5°	552.6	574.1	802.5	695.1	650.2	536.9	347.6	205.0	162.0	136.7	130.8
85°	371.0	339.7	337.8	298.8	277.3	218.7	162.0	101.6	84.0	70.3	64.4
87.5°	21.5	13.7	19.5	21.5	15.7	13.7	9.7	0.0	1.9	0.0	1.9
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°	12.3	13.3	11.8	10.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	32.2	32.7	32.2	31.9	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	51.8	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.7	94.6	94.3	94.1	93.9	93.6	93.3	93.1
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.5	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.2	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	284.0	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.6	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	464.2	464.4	463.9	463.6	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.6	481.8	481.3	481.0	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	497.8	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.2	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.4	530.1	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	543.7	543.4	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	553.9	553.6	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.5	565.7	564.9	564.5	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.3	572.0	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.6	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.9	582.1	581.5	581.2	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.9	586.2	585.3	584.9	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	589.4	589.0	588.7	588.0	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1458.6	1458.6	1456.7	1443.0	1435.2	1431.3	1417.6	1415.7	1409.8	1407.9	1407.9
5°	1456.7	1448.9	1439.1	1419.5	1400.0	1382.5	1376.6	1363.0	1353.2	1341.5	1341.5
7.5°	1429.4	1421.5	1400.0	1370.8	1345.4	1320.0	1306.3	1286.8	1271.2	1255.6	1251.7
10°	1398.1	1386.4	1357.0	1318.1	1284.8	1239.9	1222.3	1197.0	1179.4	1155.9	1132.5
12.5°	1364.9	1357.0	1322.0	1277.1	1226.3	1169.6	1142.3	1107.1	1083.7	1056.4	1021.2
15°	1351.2	1335.6	1290.7	1234.1	1171.6	1103.3	1064.2	1027.0	992.0	960.7	913.8
17.5°	1333.6	1314.1	1263.3	1197.0	1118.9	1036.9	986.1	945.1	898.3	865.0	812.3
20°	1314.1	1284.8	1230.2	1150.1	1062.2	964.6	900.2	859.2	796.7	763.5	701.0
22.5°	1298.5	1261.4	1195.0	1105.2	999.7	890.4	814.3	767.4	697.1	658.1	579.9
25°	1294.6	1249.7	1169.6	1068.1	947.0	818.2	726.4	679.5	591.7	546.8	455.0
27.5°	1296.6	1243.8	1154.0	1036.9	900.2	753.7	644.4	589.7	478.4	431.6	326.1
30°	1298.5	1245.7	1138.4	1009.6	857.2	687.3	558.4	494.0	361.2	320.2	226.5
32.5°	1318.1	1253.6	1134.5	988.1	818.2	620.9	460.8	402.2	255.8	232.4	168.0
35°	1341.5	1279.0	1142.3	984.2	788.9	554.5	361.2	300.7	183.5	177.7	136.7
37.5°	1390.3	1318.1	1173.5	993.9	771.3	486.2	269.4	230.4	144.5	148.4	119.1
40°	1464.5	1384.5	1224.3	1023.2	769.4	417.9	199.2	179.6	125.0	128.9	109.4
42.5°	1564.1	1476.2	1302.4	1085.7	779.1	353.4	160.1	154.3	115.2	119.1	105.5
45°	1694.9	1605.1	1411.8	1165.8	806.5	300.7	140.6	140.6	111.3	115.2	103.5
47.5°	1860.8	1761.3	1546.5	1273.2	849.4	271.4	132.8	134.7	109.4	115.2	103.5
50°	2048.4	1939.0	1718.4	1411.8	915.7	263.6	134.7	134.7	111.3	115.2	103.5
52.5°	2243.6	2142.1	1903.8	1569.9	1007.6	281.2	138.6	136.7	111.3	115.2	101.6
55°	2442.8	2350.9	2108.8	1755.4	1134.5	343.7	148.4	142.5	111.3	115.2	103.5
57.5°	2642.0	2577.5	2323.6	1954.6	1292.7	457.0	187.4	166.0	123.1	125.0	105.5
60°	2866.5	2819.7	2565.8	2216.2	1517.2	632.7	275.3	208.9	146.5	138.6	113.2
62.5°	3157.4	3145.7	2944.6	2593.1	1878.4	886.5	390.6	253.8	158.1	144.5	121.0
65°	3671.0	3702.3	3510.9	3034.4	2118.6	892.3	380.7	222.6	148.4	136.7	119.1
67.5°	4186.5	4094.7	3602.6	2968.0	1911.7	593.6	242.1	173.8	130.8	126.9	111.3
70°	4167.0	3917.0	3266.8	2595.0	1509.4	322.2	175.7	144.5	117.1	117.1	105.5
72.5°	3737.4	3366.3	2671.2	2054.2	1007.6	205.0	148.4	126.9	107.4	105.5	97.6
75°	2813.7	2376.4	1716.4	1183.3	449.1	132.8	113.2	103.5	93.7	93.7	85.9
77.5°	1323.9	745.9	414.0	275.3	150.4	89.8	78.2	78.2	76.1	78.2	70.3
80°	179.6	162.0	138.6	121.0	91.8	62.5	56.7	58.6	56.7	58.6	52.7
82.5°	109.4	97.6	80.1	76.1	56.7	43.0	41.0	43.0	39.1	41.0	31.2
85°	52.7	46.9	37.1	35.2	29.3	25.4	21.5	25.4	19.5	21.5	13.7
87.5°	0.0	3.9	1.9	3.9	3.9	3.9	0.0	3.9	0.0	3.9	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°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9
110°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4



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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°	
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	0°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	2.5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	7.5°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	10°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	12.5°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	15°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	17.5°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	20°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	22.5°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	25°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	27.5°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	30°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	32.5°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	35°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	37.5°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	40°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	42.5°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	45°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	47.5°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	50°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	52.5°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	55°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	57.5°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	60°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	62.5°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	65°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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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°	115°	115°
1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	112.5°	139.1
1398.1	1392.2	1390.3	1382.5	1380.5	1372.7	1370.8	1363.0	1349.3	1343.4	1333.6	115°	161.6
1323.9	1314.1	1306.3	1302.4	1286.8	1279.0	1267.2	1251.7	1222.3	1208.7	1185.3	117.5°	185.2
1220.4	1218.4	1195.0	1187.2	1167.7	1154.0	1136.4	1111.0	1068.1	1042.7	1005.7	120°	208.7
1107.1	1099.4	1072.1	1056.4	1031.0	1011.5	988.1	950.9	884.5	831.9	775.2	122.5°	233.2
1001.7	978.2	947.0	923.6	892.3	865.0	837.7	781.0	675.7	589.7	511.6	125°	259.8
892.3	857.2	824.0	785.0	751.8	708.8	677.6	603.3	464.7	359.3	310.5	127.5°	283.4
781.0	732.2	695.1	642.4	605.3	546.8	513.5	423.7	304.6	257.8	242.1	130°	307.9
663.9	599.4	558.4	494.0	457.0	382.7	357.3	292.9	234.4	216.8	212.9	132.5°	332.5
538.9	460.8	415.9	345.7	320.2	275.3	255.8	224.5	197.2	189.5	193.3	135°	356.0
408.1	324.2	294.8	244.1	234.4	210.9	203.1	187.4	173.8	173.8	179.6	137.5°	377.5
290.9	226.5	218.7	187.4	185.5	173.8	168.0	160.1	156.2	160.1	168.0	140°	399.0
212.9	171.9	171.9	154.3	154.3	146.5	144.5	140.6	140.6	148.4	156.2	142.5°	421.5
168.0	140.6	144.5	130.8	132.8	126.9	128.9	126.9	128.9	134.7	140.6	145°	442.9
140.6	121.0	126.9	115.2	119.1	113.2	117.1	117.1	121.0	123.1	125.0	147.5°	462.4
125.0	111.3	115.2	107.4	111.3	105.5	111.3	111.3	113.2	113.2	113.2	150°	479.8
115.2	103.5	109.4	101.6	107.4	101.6	107.4	107.4	105.5	103.5	105.5	152.5°	497.2
109.4	101.6	107.4	99.6	105.5	99.6	103.5	101.6	97.6	97.6	97.6	155°	514.5
107.4	99.6	103.5	97.6	101.6	95.6	99.6	97.6	91.8	89.8	93.7	157.5°	528.9
107.4	97.6	103.5	95.6	99.6	93.7	97.6	91.8	85.9	85.9	91.8	160°	542.2
107.4	97.6	103.5	95.6	99.6	91.8	93.7	87.9	80.1	82.0	89.8	162.5°	552.4
109.4	101.6	105.5	97.6	99.6	87.9	91.8	84.0	78.2	80.1	85.9	165°	562.6
111.3	101.6	105.5	93.7	95.6	87.9	87.9	84.0	78.2	78.2	84.0	167.5°	570.8
111.3	99.6	101.6	91.8	93.7	84.0	85.9	82.0	76.1	74.2	78.2	170°	576.9
115.2	103.5	103.5	89.8	91.8	82.0	84.0	80.1	74.2	70.3	72.2	172.5°	580.0
119.1	105.5	107.4	93.7	93.7	84.0	85.9	78.2	70.3	66.4	68.3	175°	583.1
119.1	105.5	107.4	95.6	95.6	85.9	85.9	78.2	66.4	62.5	62.5	177.5°	587.2
113.2	103.5	105.5	95.6	95.6	85.9	85.9	76.1	64.4	58.6	56.7	180°	589.2
109.4	99.6	101.6	89.8	91.8	82.0	82.0	72.2	60.6	54.6	50.7		
99.6	91.8	91.8	84.0	82.0	72.2	72.2	66.4	56.7	48.8	44.9		
85.9	78.2	76.1	68.3	68.3	62.5	60.6	54.6	46.9	41.0	39.1		
70.3	60.6	60.6	50.7	50.7	44.9	46.9	41.0	35.2	33.2	31.2		
50.7	41.0	41.0	33.2	33.2	27.3	29.3	27.3	25.4	25.4	23.4		
31.2	21.5	23.4	17.6	21.5	15.7	17.6	15.7	15.7	13.7	13.7		
15.7	7.8	11.8	5.8	9.7	1.9	5.8	3.9	3.9	3.9	3.9		
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	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		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		
116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4		

'228205
 ISS-AF-1000-LED-E1-SL3-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°
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	0°	1456.7	1456.7
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	2.5°	1323.9	1329.7
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	5°	1177.4	1179.4
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	7.5°	999.7	995.8
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	10°	763.5	753.7
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	12.5°	492.0	478.4
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	15°	296.8	292.9
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	17.5°	238.2	238.2
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	20°	212.9	212.9
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	22.5°	197.2	197.2
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	25°	185.5	187.4
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	27.5°	175.7	175.7
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	30°	164.0	164.0
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	32.5°	144.5	144.5
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	35°	128.9	126.9
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	37.5°	115.2	117.1
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	40°	105.5	107.4
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	42.5°	101.6	101.6
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	45°	97.6	97.6
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°	97.6	97.6
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	50°	95.6	97.6
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	52.5°	93.7	93.7
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	55°	87.9	89.8
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	57.5°	82.0	84.0
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	60°	76.1	76.1
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	62.5°	68.3	68.3
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	65°	62.5	62.5
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	54.6	54.6
										70°	48.8	48.8
										72.5°	43.0	43.0
										75°	37.1	37.1
										77.5°	31.2	29.3
										80°	23.4	23.4
										82.5°	13.7	13.7
										85°	3.9	3.9
										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°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8
										110°	104.3	103.3



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CANDELA DISTRIBUTION (continued):

	175°	180°
112.5°	126.8	126.8
115°	150.4	149.4
117.5°	173.9	172.9
120°	199.5	197.4
122.5°	225.0	224.0
125°	251.6	249.6
127.5°	275.2	273.1
130°	298.7	296.7
132.5°	321.2	320.2
135°	344.7	343.7
137.5°	368.3	367.2
140°	391.8	390.8
142.5°	415.3	413.3
145°	435.8	434.8
147.5°	454.2	454.2
150°	472.6	471.6
152.5°	491.0	490.0
155°	511.5	510.5
157.5°	526.8	524.8
160°	539.1	537.0
162.5°	548.3	547.3
165°	559.6	558.5
167.5°	568.8	567.7
170°	575.9	574.9
172.5°	579.0	578.0
175°	582.1	580.0
177.5°	586.2	585.1
180°	589.2	589.2

(END OF REPORT)

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

Scaled Data Report

