

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: P227925

Luminaire Tested: **ISS-AF-600-LED-E1-T4W-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227925
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-600-LED-E1-T4W-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, 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: 5456.6 lumens
Efficiency: N/A
Efficacy: 108.3 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 - G1

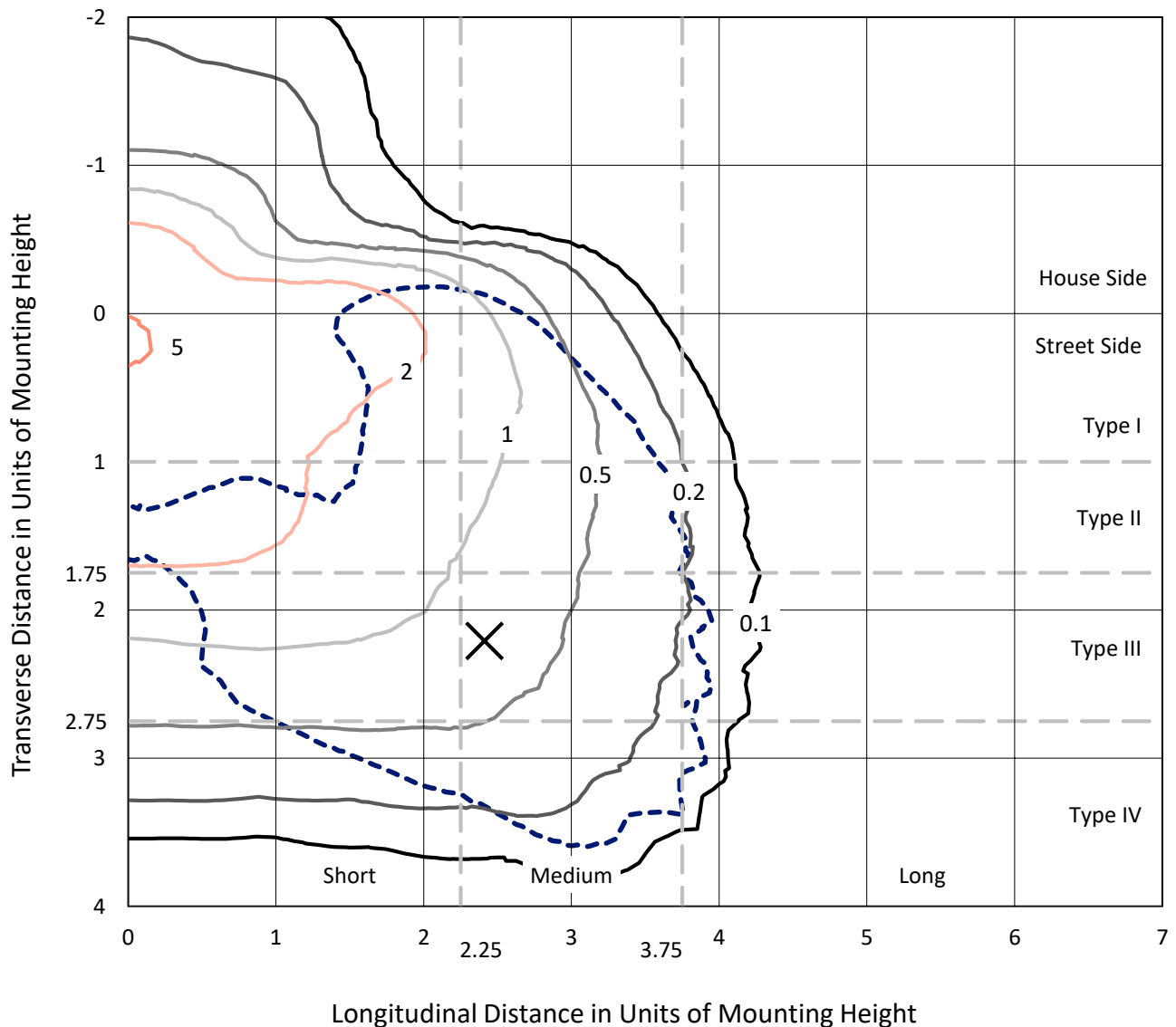
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

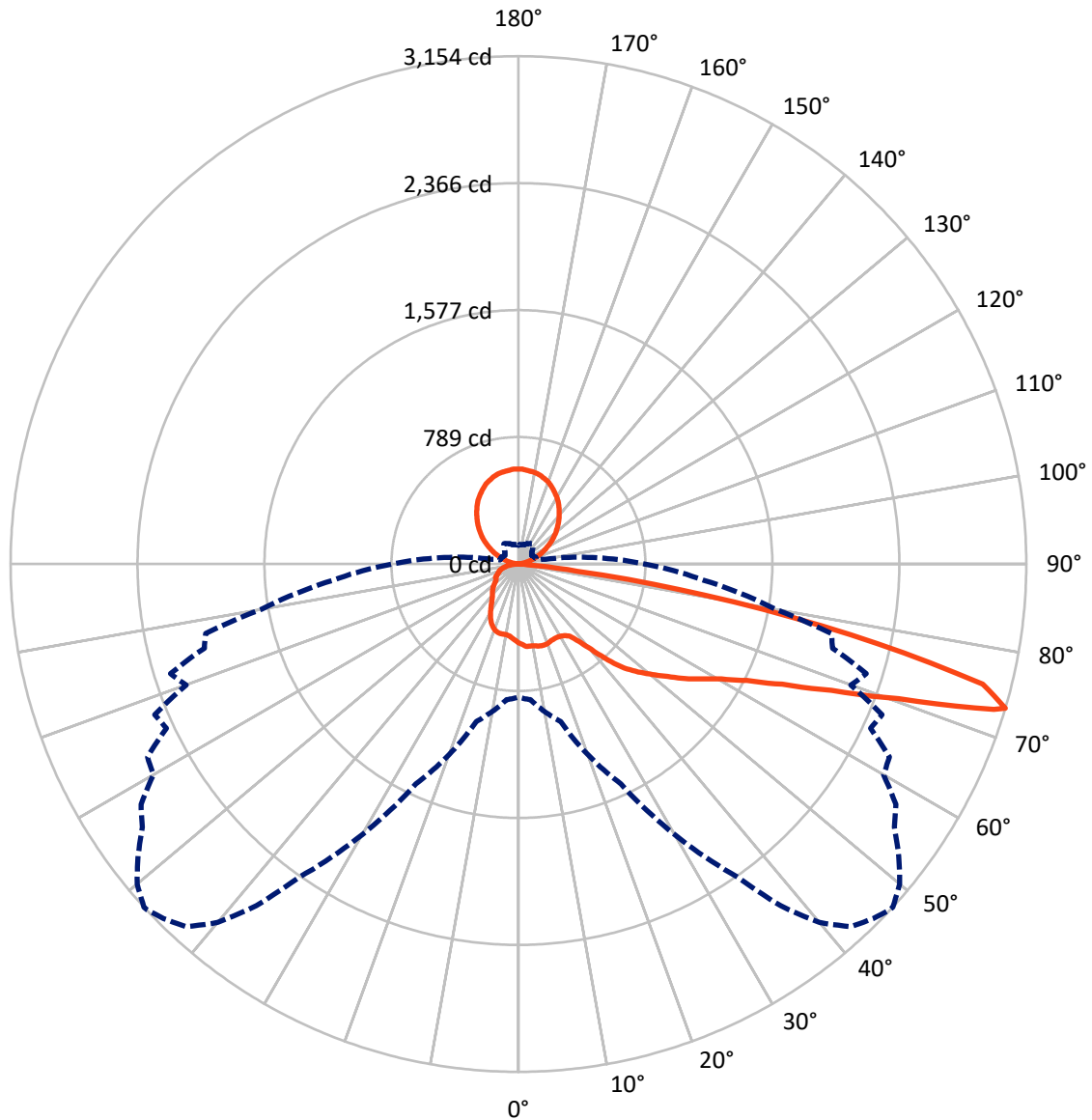
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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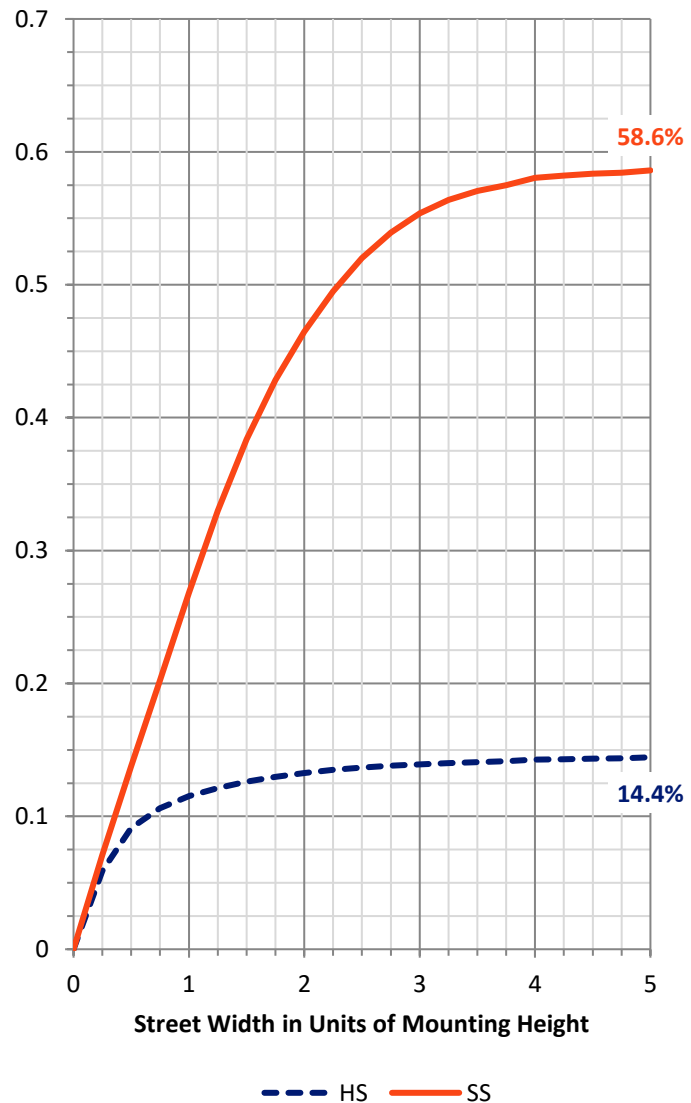
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.7	729.4	1528.2
	% Fixture	14.6	13.4	28.0
Street Side	Lumens	3199.0	729.4	3928.4
	% Fixture	58.6	13.4	72.0
Total	Lumens	3997.7	1458.9	5456.6
	% Fixture	73.3	26.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	0.9
10°-20°	139.1	2.5
20°-30°	213.8	3.9
30°-40°	311.9	5.7
40°-50°	514.3	9.4
50°-60°	805.2	14.8
60°-70°	1092.4	20.0
70°-80°	808.9	14.8
80°-90°	65.4	1.2
90°-100°	4.8	0.1
100°-110°	70.6	1.3
110°-120°	156.6	2.9
120°-130°	229.0	4.2
130°-140°	271.7	5.0
140°-150°	275.5	5.0
150°-160°	236.4	4.3
160°-170°	158.7	2.9
170°-180°	55.6	1.0
0°-90°	3997.7	73.3
0°-180°	5456.6	100.0



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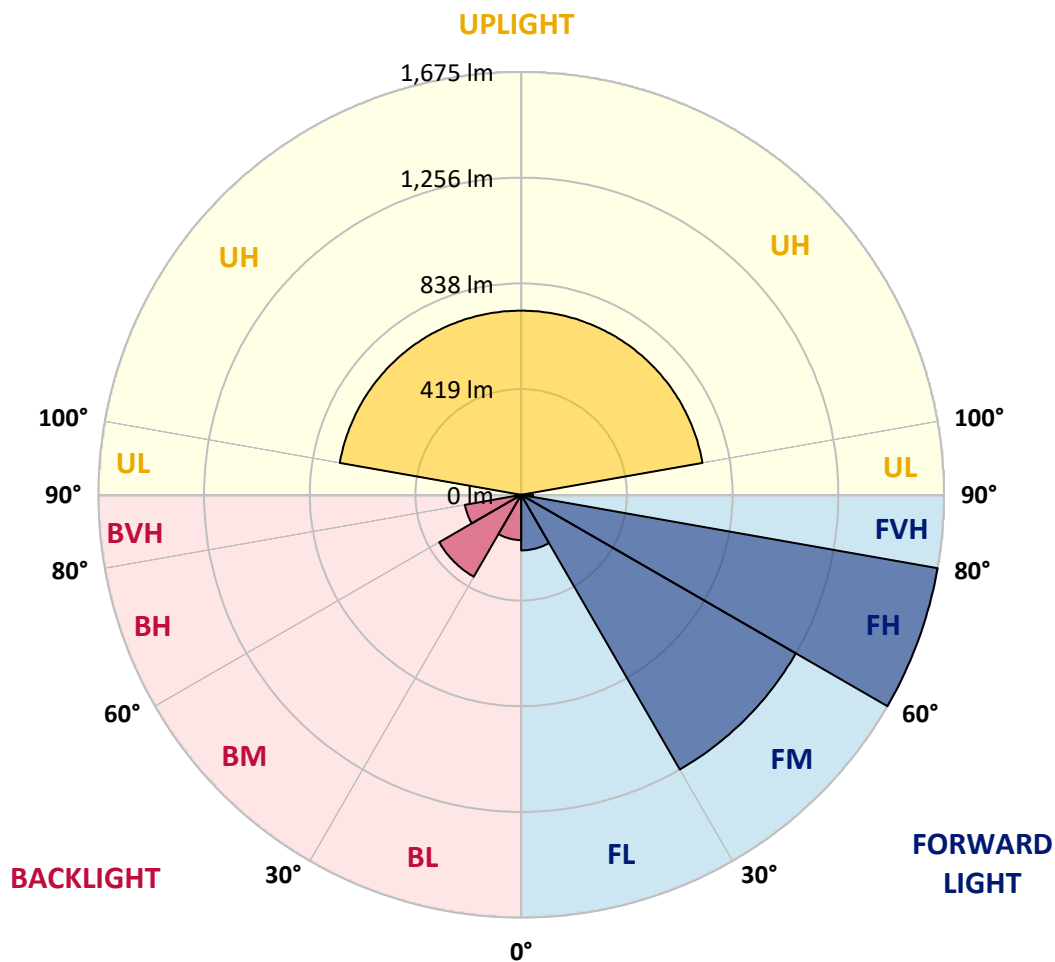
CATALOG NUMBER: ISS-AF-600-LED-E1-T4W-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.4	4.0			
FM	(30°-60°)	1256.4	23.0			
FH	(60°-80°)	1675.1	30.7			G1/1800
FVH	(80°-90°)	47.1	0.9			G1/100
BL	(0°-30°)	179.3	3.3	B1/500		
BM	(30°-60°)	375.1	6.9	B1/1000		
BH	(60°-80°)	226.2	4.1	B1/500		G1/500
BVH	(80°-90°)	18.2	0.3			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	13.4		U4/1000	

BUG Rating: B1-U5-G1

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°	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9
2.5°	520.0	518.6	514.6	513.3	509.4	506.8	505.4	504.1	508.1	505.4	501.5
5°	552.9	550.3	545.0	537.2	529.2	524.0	522.6	520.0	520.0	517.3	514.6
7.5°	576.7	575.4	567.4	555.6	542.4	533.2	527.8	524.0	525.2	522.6	514.6
10°	599.1	596.5	583.3	568.8	549.0	538.4	531.8	525.2	530.5	526.5	516.0
12.5°	616.3	613.7	595.2	576.7	554.2	542.4	535.8	531.8	537.2	534.5	522.6
15°	625.5	622.9	604.4	582.0	558.2	545.0	542.4	539.7	543.7	538.4	527.8
17.5°	620.2	620.2	603.1	579.3	559.6	546.4	542.4	539.7	545.0	539.7	527.8
20°	600.5	603.1	591.2	566.1	551.6	542.4	538.4	533.2	538.4	533.2	525.2
22.5°	575.4	578.0	571.4	549.0	538.4	531.8	530.5	525.2	529.2	525.2	517.3
25°	552.9	552.9	550.3	530.5	529.2	524.0	525.2	522.6	525.2	520.0	514.6
27.5°	554.2	554.2	543.7	524.0	522.6	522.6	522.6	522.6	524.0	520.0	514.6
30°	632.1	634.7	604.4	549.0	529.2	526.5	527.8	526.5	527.8	526.5	520.0
32.5°	749.6	749.6	720.6	634.7	564.8	547.7	541.0	539.7	535.8	534.5	529.2
35°	865.7	864.4	835.3	740.3	651.9	618.9	597.8	578.0	568.8	559.6	550.3
37.5°	963.3	959.4	955.4	847.2	754.8	716.6	691.5	662.5	644.0	628.2	607.0
40°	1054.5	1061.0	1075.5	946.2	857.7	822.1	797.1	760.2	741.6	721.9	696.8
42.5°	1179.8	1189.0	1190.3	1053.1	951.4	927.7	908.0	880.2	860.4	836.7	814.3
45°	1301.2	1302.5	1306.5	1167.9	1066.3	1035.9	1021.4	995.0	970.0	939.6	921.2
47.5°	1384.4	1380.4	1397.6	1299.9	1200.9	1166.6	1145.5	1105.9	1067.7	1029.3	1001.7
50°	1485.9	1481.9	1481.9	1450.3	1356.6	1317.0	1280.1	1206.2	1165.2	1117.8	1078.2
52.5°	1575.7	1561.1	1570.4	1588.8	1520.3	1470.1	1405.4	1322.3	1268.2	1210.2	1160.0
55°	1698.4	1623.2	1644.3	1708.9	1682.5	1604.7	1519.0	1430.5	1368.5	1302.5	1256.3
57.5°	1656.2	1604.7	1666.7	1780.2	1778.9	1706.4	1633.8	1525.5	1463.5	1401.4	1344.8
60°	1504.5	1530.8	1665.5	1829.0	1835.7	1778.9	1719.6	1619.2	1570.4	1505.8	1449.0
62.5°	1387.0	1425.3	1610.0	1825.1	1900.3	1847.6	1798.8	1739.3	1705.1	1650.9	1592.8
65°	1380.4	1402.8	1582.3	1821.2	1991.4	1963.7	1941.3	1913.5	1906.9	1867.3	1800.0
67.5°	1443.7	1464.9	1629.8	1922.7	2126.0	2114.1	2147.1	2141.9	2170.9	2151.1	2095.6
70°	1319.7	1331.6	1534.7	1958.4	2433.5	2486.3	2560.1	2556.3	2618.2	2570.7	2506.0
72.5°	926.4	950.1	1129.6	1617.9	2440.0	2722.5	2894.0	3039.2	3106.5	3118.4	3088.0
73°	827.5	845.9	1012.2	1507.1	2374.1	2675.0	2905.9	3055.0	3114.4	3151.4	3154.0
75°	287.7	297.0	442.1	913.2	1897.7	2334.5	2631.4	2766.1	2751.5	2859.8	2978.5
77.5°	92.4	93.7	114.8	236.2	915.8	1449.0	1780.2	1904.3	1833.0	1950.5	2108.8
80°	56.8	59.4	75.2	106.9	240.2	439.5	744.3	931.7	893.4	1002.9	1171.9
82.5°	34.3	35.6	46.2	66.0	96.4	106.9	139.8	190.1	233.5	281.1	368.2
85°	15.9	17.2	22.4	30.4	39.6	40.9	39.6	36.9	42.2	48.8	56.8
87.5°	0.0	0.0	1.3	2.7	1.3	0.0	0.0	0.0	0.0	1.3	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	3.1	4.1	5.3	6.6	8.0	9.2	10.0	10.2
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.1	31.2
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.4
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	71.8
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.5	93.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.0	115.1
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.5	137.6
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.0	160.1
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.3
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.0	207.1
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.4
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.0
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.7	282.8
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.3	306.4
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.0	330.2
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.5	353.7
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.8	375.9
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.1
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.8	419.9
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.3	442.4
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.6
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.0
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.4
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	514.7
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	553.6
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	564.9
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	578.8
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.2
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.3
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9
2.5°	505.4	501.5	501.5	496.2	498.8	493.6	496.2	490.9	493.6	486.9	490.9
5°	513.3	506.8	506.8	498.8	500.1	490.9	494.9	484.4	489.6	477.7	485.6
7.5°	517.3	505.4	510.8	496.2	502.8	486.9	494.9	477.7	488.3	469.8	483.0
10°	522.6	505.4	514.6	498.8	506.8	488.3	498.8	477.7	490.9	468.5	480.4
12.5°	530.5	512.0	520.0	501.5	512.0	490.9	501.5	480.4	493.6	468.5	483.0
15°	535.8	517.3	525.2	506.8	514.6	490.9	504.1	479.0	493.6	467.2	483.0
17.5°	534.5	517.3	525.2	504.1	513.3	489.6	502.8	477.7	490.9	463.2	480.4
20°	529.2	514.6	520.0	501.5	509.4	485.6	497.6	472.4	486.9	459.2	476.4
22.5°	522.6	508.1	514.6	497.6	505.4	481.7	492.2	469.8	484.4	456.6	472.4
25°	518.6	506.8	510.8	493.6	504.1	483.0	493.6	468.5	484.4	456.6	475.1
27.5°	517.3	506.8	514.6	498.8	508.1	489.6	500.1	477.7	490.9	461.9	480.4
30°	525.2	516.0	522.6	509.4	517.3	498.8	509.4	488.3	501.5	473.7	494.9
32.5°	534.5	525.2	531.8	520.0	531.8	513.3	526.5	505.4	521.3	493.6	513.3
35°	554.2	543.7	552.9	539.7	552.9	538.4	552.9	530.5	550.3	522.6	543.7
37.5°	605.7	576.7	585.9	571.4	584.6	566.1	591.2	568.8	591.2	564.8	593.8
40°	687.5	636.1	645.3	615.0	634.7	607.0	637.4	620.2	650.6	617.6	654.6
42.5°	794.4	745.6	736.4	690.2	707.4	674.3	704.7	674.3	715.2	683.6	729.8
45°	892.1	840.7	826.1	781.2	793.1	749.6	787.9	745.6	799.7	762.8	820.8
47.5°	972.6	911.9	900.0	848.5	869.7	828.8	876.3	831.4	897.3	860.4	927.7
50°	1046.5	971.3	968.6	913.2	948.9	908.0	975.3	944.9	1009.6	972.6	1051.8
52.5°	1131.0	1035.9	1049.1	999.0	1055.7	1021.4	1099.3	1055.7	1140.2	1100.6	1187.7
55°	1220.7	1120.4	1154.7	1124.3	1191.6	1169.2	1235.2	1195.6	1278.8	1239.2	1331.6
57.5°	1319.7	1233.9	1294.6	1280.1	1339.5	1311.7	1385.7	1350.0	1433.2	1400.2	1492.6
60°	1449.0	1392.2	1451.7	1450.3	1501.8	1500.5	1547.9	1526.9	1606.0	1591.5	1676.0
62.5°	1616.6	1571.8	1635.1	1617.9	1679.9	1669.4	1727.5	1727.5	1784.2	1804.0	1888.5
65°	1842.2	1782.9	1858.1	1831.7	1893.7	1896.3	1933.3	1939.9	2008.6	2031.0	2103.6
67.5°	2148.4	2079.8	2139.2	2089.1	2160.3	2156.4	2188.0	2201.2	2210.5	2264.5	2272.5
70°	2589.2	2486.3	2540.4	2471.8	2485.0	2494.2	2434.8	2478.3	2372.7	2458.6	2342.5
72.5°	3065.6	2948.1	2854.4	2785.8	2649.9	2630.1	2457.2	2494.2	2269.8	2343.8	2108.8
73°	3090.6	2977.2	2850.5	2779.3	2618.2	2597.1	2412.3	2444.0	2196.0	2265.8	2019.1
75°	2809.5	2839.9	2535.1	2564.1	2284.4	2317.3	2028.3	2065.2	1760.4	1813.2	1495.1
77.5°	1893.7	1995.4	1653.5	1781.6	1434.5	1562.5	1170.6	1182.4	863.1	806.3	547.7
80°	938.3	1025.4	727.1	794.4	533.2	524.0	319.4	265.3	225.7	231.0	237.5
82.5°	270.6	304.8	188.7	187.4	133.3	126.6	126.6	134.6	137.3	153.0	149.1
85°	51.5	62.0	54.1	72.6	64.7	71.3	66.0	76.5	71.3	88.4	76.5
87.5°	1.3	0.0	1.3	4.0	4.0	9.2	6.6	10.5	10.5	18.5	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°	11.3	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	31.7	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	51.7	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.1	72.4	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.1	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	115.6	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6
112.5°	138.1	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	160.6	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.6	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	207.7	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	232.7	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.3	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.4	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	306.9	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	330.9	331.6	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	354.5	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	376.4	377.0	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.4	398.7	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.4	420.9	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	442.9	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	463.9	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.3	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	497.7	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.1	515.4	515.6	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	553.9	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.2	565.5	565.7	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.5	578.2	578.0	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.5	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.6	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	590.2	589.4	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°	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9
2.5°	485.6	492.2	489.6	486.9	484.4	483.0	477.7	480.4	473.7	479.0	473.7
5°	475.1	483.0	479.0	473.7	471.2	468.5	459.2	465.9	455.3	464.5	456.6
7.5°	463.2	476.4	472.4	467.2	461.9	459.2	440.8	455.3	439.5	452.7	439.5
10°	459.2	473.7	468.5	461.9	456.6	454.0	431.6	448.7	431.6	446.0	428.9
12.5°	456.6	473.7	465.9	459.2	454.0	450.0	424.9	446.0	423.6	444.8	424.9
15°	454.0	473.7	463.2	455.3	450.0	446.0	419.6	443.4	418.3	442.1	419.6
17.5°	451.3	469.8	460.5	451.3	446.0	443.4	414.4	439.5	413.1	439.5	417.1
20°	447.3	465.9	455.3	446.0	440.8	436.8	407.7	434.1	406.4	432.8	407.7
22.5°	442.1	461.9	452.7	443.4	438.1	431.6	399.9	427.6	398.5	424.9	401.2
25°	443.4	464.5	452.7	443.4	435.5	428.9	394.6	424.9	391.9	418.3	391.9
27.5°	450.0	468.5	456.6	448.7	438.1	430.3	394.6	422.3	389.3	411.7	384.0
30°	463.2	481.7	471.2	459.2	450.0	439.5	401.2	423.6	389.3	403.9	376.1
32.5°	485.6	502.8	492.2	483.0	472.4	456.6	414.4	430.3	391.9	398.5	369.5
35°	514.6	535.8	530.5	524.0	510.8	483.0	436.8	439.5	397.2	393.2	360.3
37.5°	562.2	591.2	589.9	588.6	574.1	524.0	461.9	458.0	402.5	389.3	348.4
40°	624.2	658.5	667.8	677.0	646.6	572.8	490.9	476.4	405.1	381.4	329.9
42.5°	696.8	743.0	770.7	787.9	732.4	626.9	524.0	497.6	405.1	369.5	308.8
45°	786.5	840.7	893.4	911.9	827.5	684.9	558.2	514.6	399.9	351.1	281.1
47.5°	896.1	959.4	1032.0	1041.3	930.4	747.0	582.0	526.5	382.7	325.9	256.0
50°	1017.4	1094.0	1200.9	1194.3	1039.9	811.6	597.8	534.5	352.3	297.0	225.7
52.5°	1153.4	1249.7	1401.4	1371.2	1173.2	892.1	612.3	545.0	315.4	262.6	195.3
55°	1323.6	1438.5	1628.4	1563.8	1321.0	980.5	633.4	546.4	266.6	221.7	172.9
57.5°	1507.1	1629.8	1872.6	1755.2	1459.5	1049.1	624.2	504.1	217.8	187.4	155.7
60°	1727.5	1876.6	2116.8	1933.3	1575.7	1072.9	559.6	415.7	186.1	168.9	147.8
62.5°	1974.2	2122.0	2317.3	2057.4	1641.6	1033.3	415.7	287.7	159.7	150.5	136.0
65°	2236.9	2376.7	2413.7	2067.9	1598.2	859.1	257.4	188.7	138.6	134.6	125.4
67.5°	2478.3	2491.5	2322.6	1896.3	1387.0	599.1	175.5	150.5	128.0	126.6	121.4
70°	2540.4	2312.1	1930.7	1476.7	1001.7	356.3	142.5	130.6	122.8	122.8	118.8
72.5°	2122.0	1760.4	1290.7	894.8	546.4	190.1	121.4	118.8	116.1	116.1	113.4
73°	1990.0	1621.9	1156.0	781.2	461.9	170.2	118.8	116.1	114.8	113.4	112.2
75°	1322.3	1018.8	655.9	395.9	215.1	122.8	105.6	105.6	104.2	105.6	104.2
77.5°	509.4	384.0	253.4	170.2	122.8	96.4	89.7	91.0	89.7	92.4	91.0
80°	224.3	221.7	167.6	120.1	89.7	72.6	72.6	72.6	73.9	75.2	75.2
82.5°	153.0	129.3	99.0	73.9	54.1	52.8	54.1	54.1	55.4	56.8	55.4
85°	84.5	71.3	52.8	33.0	29.1	35.6	35.6	35.6	34.3	34.3	33.0
87.5°	26.4	19.8	14.5	4.0	6.6	6.6	9.2	7.9	7.9	9.2	9.2
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°	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



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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°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4	0°
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	2.5°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	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	7.5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	10°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	12.5°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	15°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	17.5°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	20°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	22.5°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	25°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	27.5°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	30°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	32.5°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	35°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	37.5°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	40°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	42.5°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	45°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	47.5°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	50°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	52.5°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	55°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	57.5°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	60°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	62.5°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	65°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	110°	116.6
479.0	475.1	479.0	472.4	477.7	472.4	476.4	476.4	475.1	475.1	475.1	112.5°	139.1
463.2	456.6	463.2	459.2	463.2	458.0	461.9	463.2	464.5	468.5	467.2	115°	161.6
451.3	438.1	452.7	439.5	451.3	439.5	450.0	451.3	455.3	460.5	464.5	117.5°	185.2
446.0	428.9	446.0	430.3	444.8	431.6	444.8	446.0	450.0	456.6	463.2	120°	208.7
443.4	424.9	443.4	427.6	443.4	430.3	443.4	447.3	450.0	455.3	463.2	122.5°	233.2
440.8	422.3	443.4	426.3	443.4	430.3	444.8	447.3	451.3	456.6	463.2	125°	259.8
439.5	418.3	440.8	424.9	440.8	427.6	443.4	443.4	448.7	455.3	459.2	127.5°	283.4
434.1	414.4	434.1	418.3	434.1	422.3	435.5	435.5	440.8	443.4	450.0	130°	307.9
426.3	405.1	423.6	409.1	423.6	411.7	422.3	422.3	426.3	430.3	434.1	132.5°	332.5
414.4	394.6	410.4	397.2	407.7	397.2	405.1	403.9	406.4	409.1	411.7	135°	356.0
401.2	381.4	394.6	380.0	386.7	376.1	381.4	378.7	380.0	381.4	382.7	137.5°	377.5
386.7	366.8	373.5	360.3	361.6	351.1	353.6	349.7	348.4	347.1	344.4	140°	399.0
370.8	349.7	349.7	336.6	333.9	324.7	324.7	319.4	315.4	310.2	304.8	142.5°	421.5
351.1	332.6	323.4	312.7	307.5	298.3	297.0	290.3	281.1	271.9	266.6	145°	442.9
331.2	310.2	297.0	286.3	281.1	274.5	273.1	267.9	257.4	246.7	238.9	147.5°	462.4
304.8	283.8	269.2	265.3	261.3	256.0	257.4	250.7	240.2	228.3	221.7	150°	479.8
278.4	259.9	248.1	246.7	244.2	242.8	244.2	238.9	227.0	216.5	208.5	152.5°	497.2
256.0	237.5	225.7	224.3	223.0	228.3	229.7	228.3	215.1	204.6	194.0	155°	514.5
233.5	211.1	203.3	200.6	201.9	209.8	212.5	216.5	204.6	192.6	178.2	157.5°	528.9
207.1	186.1	183.4	180.8	182.1	188.7	195.3	203.3	192.6	175.5	155.7	160°	542.2
183.4	165.0	166.2	163.7	166.2	171.5	176.9	190.1	176.9	159.7	150.5	162.5°	552.4
165.0	150.5	153.0	150.5	153.0	159.7	163.7	174.2	174.2	170.2	162.3	165°	562.6
151.8	141.2	143.8	141.2	145.2	150.5	154.4	176.9	190.1	179.4	163.7	167.5°	570.8
143.8	134.6	136.0	133.3	136.0	143.8	151.8	178.2	199.3	178.2	166.2	170°	576.9
132.0	124.1	122.8	122.8	125.4	138.6	142.5	166.2	196.6	176.9	167.6	172.5°	580.0
124.1	117.4	116.1	114.8	117.4	126.6	130.6	154.4	190.1	167.6	151.8	175°	583.1
120.1	114.8	112.2	109.6	112.2	120.1	124.1	145.2	179.4	159.7	142.5	177.5°	587.2
116.1	110.9	109.6	106.9	108.2	113.4	118.8	133.3	170.2	150.5	133.3	180°	589.2
110.9	105.6	104.2	100.2	101.6	106.9	109.6	125.4	158.4	141.2	124.1		
109.6	104.2	102.9	99.0	100.2	104.2	106.9	122.8	155.7	139.8	122.8		
102.9	97.7	96.4	93.7	95.0	95.0	97.7	112.2	147.8	132.0	114.8		
91.0	87.1	85.8	83.2	81.8	80.5	84.5	99.0	134.6	118.8	92.4		
75.2	71.3	70.0	64.7	64.7	64.7	70.0	84.5	100.2	85.8	71.3		
55.4	52.8	52.8	48.8	47.5	46.2	50.1	58.1	79.2	67.3	55.4		
33.0	31.7	33.0	29.1	30.4	29.1	33.0	40.9	43.6	34.3	26.4		
7.9	9.2	9.2	9.2	7.9	7.9	6.6	5.3	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		

'227925
 ISS-AF-600-LED-E1-T4W-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°
116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4	0°	490.9	490.9
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	2.5°	473.7	472.4
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	5°	467.2	467.2
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	7.5°	464.5	464.5
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	10°	465.9	465.9
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	12.5°	465.9	468.5
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	15°	469.8	468.5
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	17.5°	465.9	465.9
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	20°	455.3	458.0
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	22.5°	440.8	440.8
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	25°	417.1	418.3
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	27.5°	385.3	388.0
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	30°	345.8	348.4
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	32.5°	300.8	303.5
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	35°	265.3	266.6
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	37.5°	241.5	241.5
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	40°	221.7	221.7
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	42.5°	203.3	201.9
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	45°	184.7	182.1
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	47.5°	166.2	165.0
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	50°	150.5	150.5
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	52.5°	153.0	153.0
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	55°	165.0	165.0
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	57.5°	166.2	165.0
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	60°	180.8	179.4
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	62.5°	188.7	192.6
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	65°	165.0	159.7
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	67.5°	157.0	149.1
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	141.2	129.3
										72.5°	125.4	118.8
										73°	121.4	116.1
										75°	108.2	105.6
										77.5°	81.8	80.5
										80°	68.6	67.3
										82.5°	46.2	43.6
										85°	19.8	18.5
										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



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	104.3	103.3
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

