

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: P271697

Luminaire Tested: **IST-AF-350-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-350-LED-E1-T2-7027-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

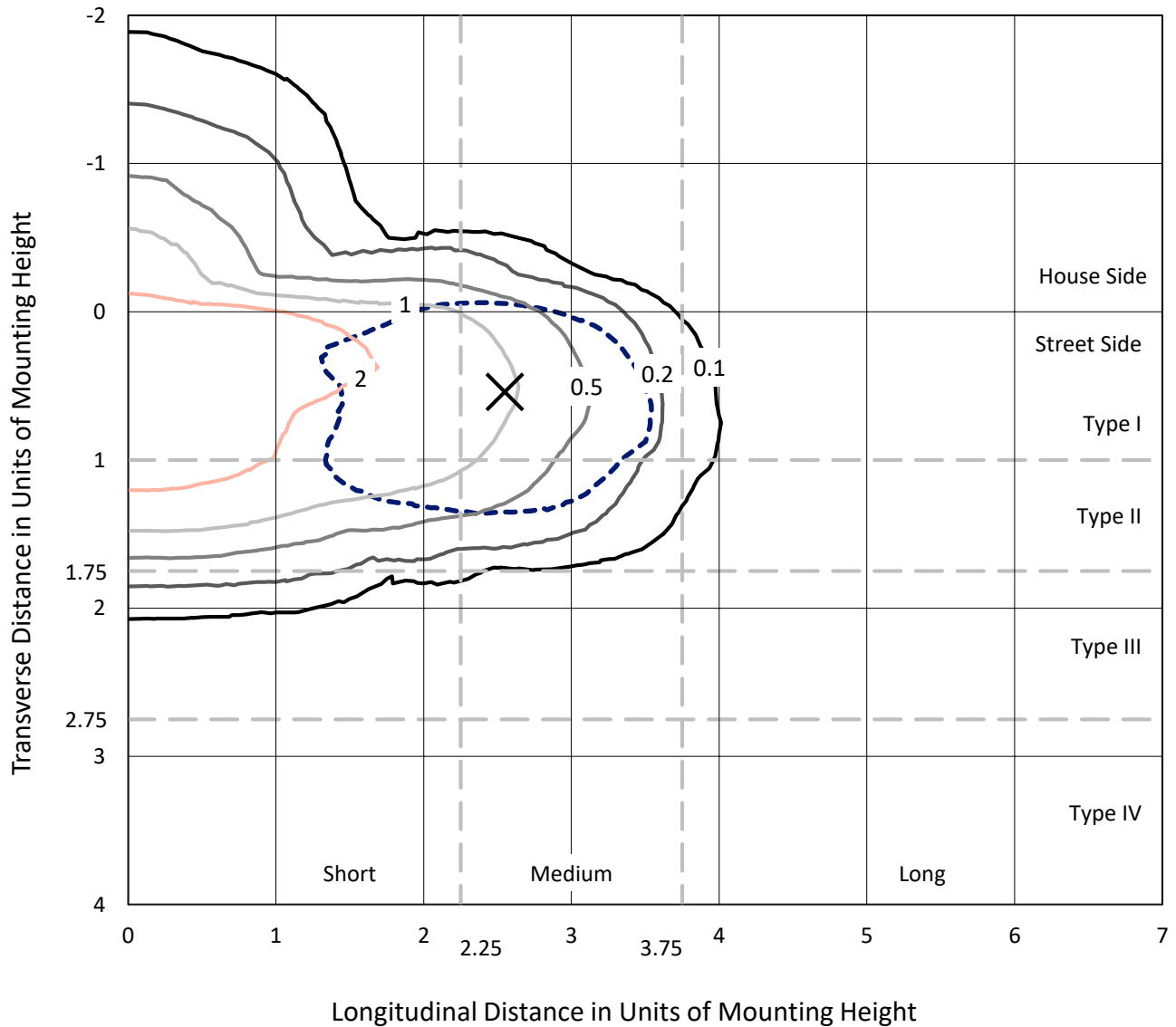
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

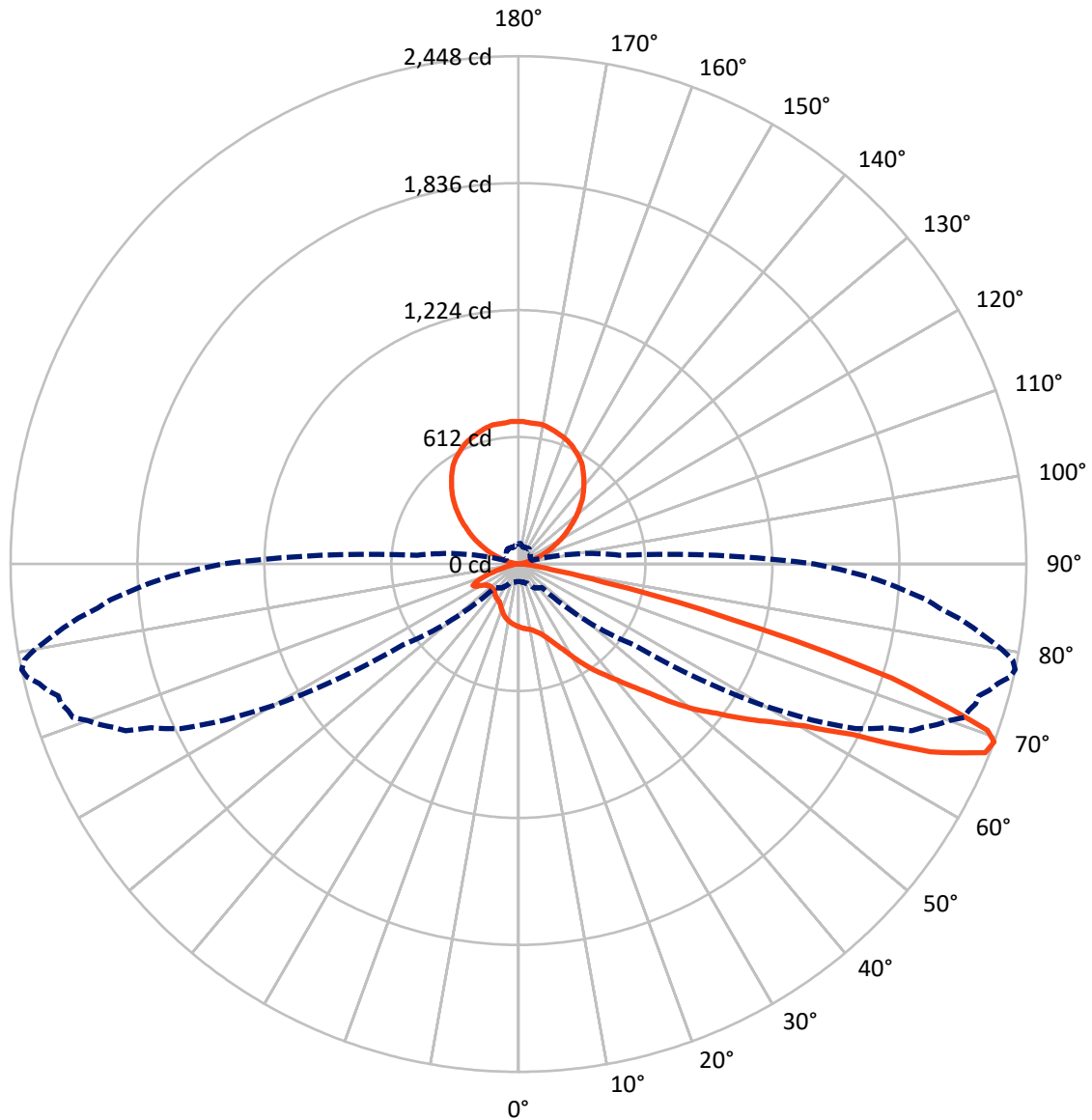
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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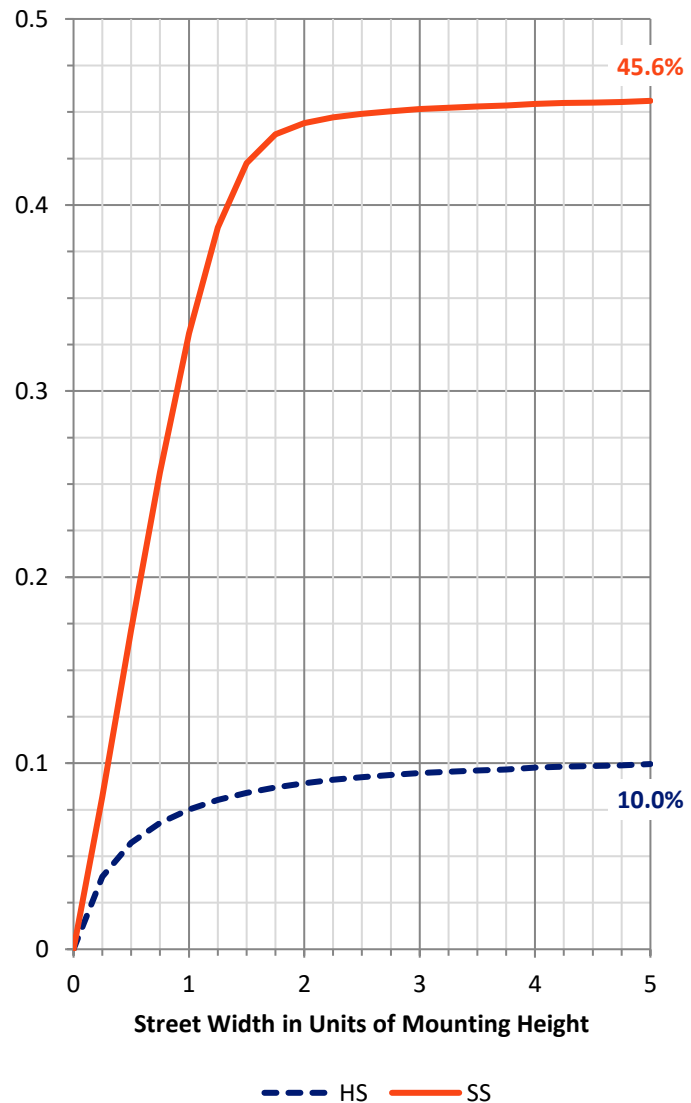
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	397.5	852.2	1249.7
	% Fixture	10.3	22.0	32.2
Street Side	Lumens	1773.6	851.8	2625.5
	% Fixture	45.8	22.0	67.8
Total	Lumens	2171.1	1704.1	3875.2
	% Fixture	56.0	44.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	0.7
10°-20°	84.7	2.2
20°-30°	151.8	3.9
30°-40°	247.8	6.4
40°-50°	366.5	9.5
50°-60°	478.5	12.3
60°-70°	535.2	13.8
70°-80°	240.3	6.2
80°-90°	38.5	1.0
90°-100°	10.2	0.3
100°-110°	56.3	1.5
110°-120°	163.0	4.2
120°-130°	268.1	6.9
130°-140°	330.6	8.5
140°-150°	338.2	8.7
150°-160°	284.9	7.4
160°-170°	187.6	4.8
170°-180°	65.0	1.7
0°-90°	2171.1	56.0
0°-180°	3875.2	100.0



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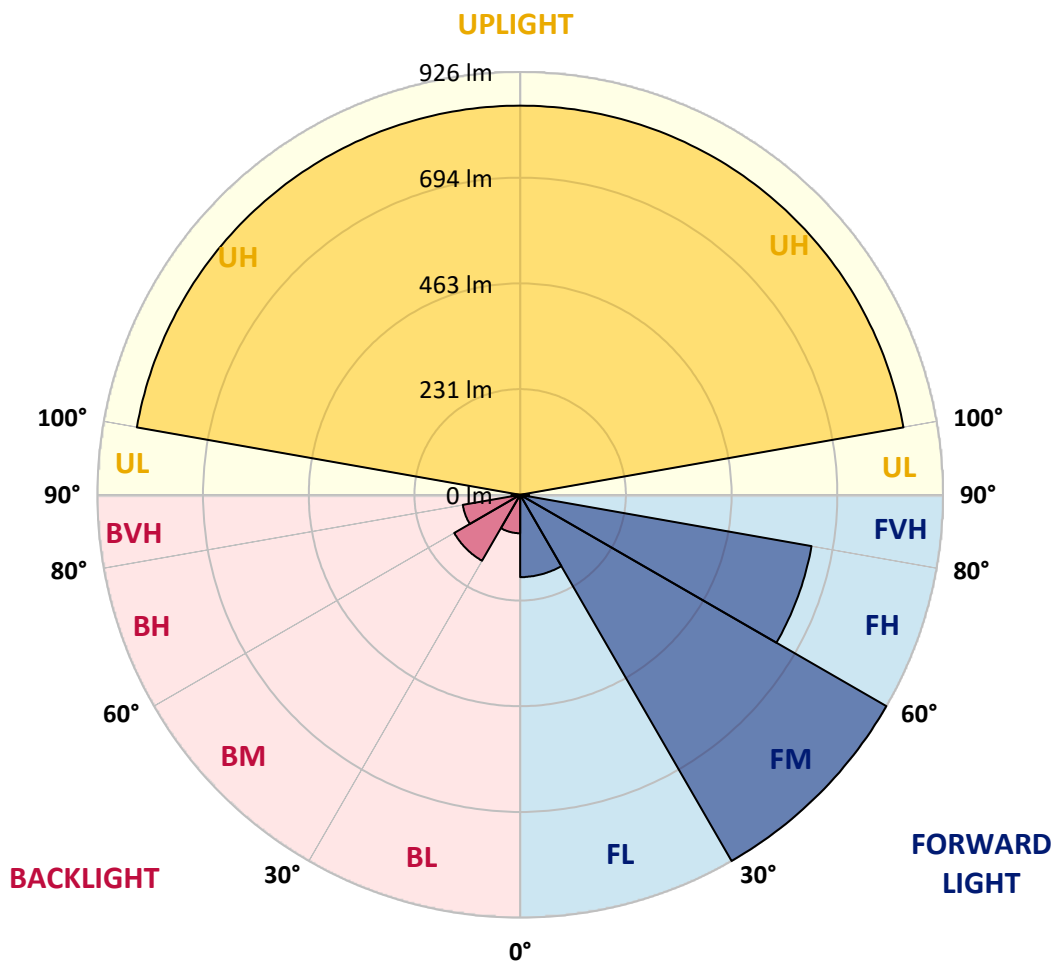
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.2	4.7			
FM	(30°-60°)	925.9	23.9			
FH	(60°-80°)	647.8	16.7			G0/660
FVH	(80°-90°)	19.6	0.5			G1/100
BL	(0°-30°)	84.3	2.2	B0/110		
BM	(30°-60°)	166.8	4.3	B0/220		
BH	(60°-80°)	127.6	3.3	B1/500		G1/500
BVH	(80°-90°)	18.8	0.5			G1/100
UL	(90°-100°)	10.2	0.3		U2/50	
UH	(100°-180°)	852.2	22.0		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	323.4	323.4	322.4	321.9	320.9	318.4	314.6	314.0	313.6	313.0	312.4
5°	347.0	344.5	345.2	343.5	340.1	335.7	328.8	325.3	323.4	323.1	321.9
7.5°	366.3	366.6	365.6	362.5	357.7	352.3	343.0	337.5	336.0	335.1	332.8
10°	380.2	379.2	378.5	378.0	374.1	369.7	357.7	351.1	349.9	347.4	344.8
12.5°	390.2	390.2	390.2	389.5	387.3	383.9	374.4	367.9	366.3	362.7	360.6
15°	401.3	399.9	398.7	397.8	398.1	398.1	391.1	386.1	383.6	381.7	377.3
17.5°	424.9	422.0	419.1	415.5	409.4	407.9	407.5	407.2	403.8	403.5	399.0
20°	445.1	442.5	440.0	436.3	427.8	418.6	423.3	427.8	427.1	427.4	425.2
22.5°	469.9	468.1	463.1	458.7	447.5	436.6	437.1	446.6	447.9	449.2	449.8
25°	503.9	503.1	494.9	486.3	473.8	463.3	453.6	465.2	467.7	470.6	476.2
27.5°	538.4	536.2	527.3	519.8	503.9	493.0	479.4	485.7	489.5	494.9	503.7
30°	582.8	576.8	573.7	556.6	542.1	526.0	514.4	516.3	515.6	521.9	535.5
32.5°	647.0	637.7	621.9	604.9	587.9	566.4	556.6	556.3	554.7	562.0	569.5
35°	681.7	679.6	669.8	652.8	634.1	614.0	607.7	601.8	602.7	606.4	609.3
37.5°	719.3	717.4	709.8	700.4	686.1	697.3	662.2	653.3	649.4	647.4	648.4
40°	735.6	737.3	741.3	742.9	734.7	787.6	718.6	689.7	688.4	685.6	682.7
42.5°	739.1	743.3	751.4	769.4	777.2	892.6	765.3	730.3	725.2	723.0	723.3
45°	751.7	758.0	759.7	776.0	813.1	897.9	818.0	766.3	762.4	762.1	760.2
47.5°	782.3	790.8	790.8	798.1	833.4	908.4	836.0	802.2	799.6	798.4	803.4
50°	786.7	798.1	820.8	844.0	869.6	916.9	856.4	841.3	842.3	845.0	859.9
52.5°	712.1	723.3	783.2	852.0	935.1	940.3	887.3	893.3	899.6	913.5	940.5
55°	610.6	618.8	689.7	799.6	937.7	1028.8	964.8	981.5	994.7	998.8	1041.5
57.5°	480.6	492.0	564.1	707.0	875.6	1054.0	1143.3	1150.8	1136.0	1149.5	1164.9
60°	260.4	259.1	359.6	511.2	745.1	1007.4	1315.3	1445.1	1448.3	1469.1	1444.3
62.5°	145.6	145.6	174.6	262.6	479.4	852.3	1397.9	1699.9	1739.3	1772.4	1845.2
65°	110.0	110.9	121.3	158.2	269.2	538.1	1337.4	1786.9	1862.5	1938.5	2066.1
67.5°	91.4	91.4	98.9	117.9	168.3	244.2	984.7	1612.2	1706.8	1797.6	1974.0
69°	84.8	85.1	90.8	103.8	140.9	158.9	680.2	1367.0	1475.1	1600.9	1808.8
70°	81.7	80.7	86.1	96.7	127.6	125.4	498.3	1188.5	1272.4	1385.3	1624.6
72.5°	72.5	71.5	74.4	82.6	100.5	89.5	203.3	639.5	766.0	892.4	1083.0
75°	64.6	63.7	65.8	69.7	78.2	68.5	102.1	268.0	324.4	419.1	578.4
77.5°	57.0	55.2	57.0	59.6	61.4	51.0	69.3	123.9	151.9	186.6	263.6
80°	51.7	49.8	52.0	50.8	48.1	39.3	46.0	72.1	80.1	95.8	125.4
82.5°	36.9	36.7	49.5	51.0	38.4	28.7	32.8	46.4	51.7	54.5	66.1
85°	22.6	21.8	28.7	36.7	39.1	18.0	21.1	27.4	28.7	31.2	36.9
87.5°	11.7	11.9	15.5	19.0	25.5	10.7	12.6	16.1	16.1	16.1	18.2
90°	7.7	8.4	11.6	14.5	13.3	9.7	11.6	11.7	12.5	12.0	13.0
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.4	7.5	7.5	7.7
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	10.8	10.6	10.4	10.0
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	26.9	26.7	26.4	25.8
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	47.6	47.3	47.0	46.4
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	69.7	69.5	69.3	68.9
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	92.7	92.6	92.5	92.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	118.3	118.4	118.5	118.7
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	146.2	146.4	146.6	147.1
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	177.1	177.4	177.8	178.3
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	209.0	209.5	209.8	210.7
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	243.4	243.8	244.2	245.0
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	275.8	276.2	276.6	277.4
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	308.2	308.4	308.6	308.9
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	339.1	339.2	339.3	339.5
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	372.0	372.3	372.8	373.5
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	405.9	406.3	406.8	407.8
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	437.3	437.7	438.2	439.2
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	465.2	465.4	465.6	466.0
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	491.7	491.9	492.1	492.5
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	520.2	520.7	521.4	522.5
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	548.7	549.2	549.9	551.0
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	571.7	572.2	572.7	573.7
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	587.4	587.7	588.0	588.6
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	601.1	601.4	601.8	602.3
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	616.9	617.3	617.9	618.8
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	634.0	634.5	634.8	635.6
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	648.8	649.4	649.9	651.1
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	656.6	657.0	657.4	658.2
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	662.1	662.5	662.9	663.9
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	668.4	669.0	669.6	670.8
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	674.8	675.1	675.3	676.0
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	677.7	678.0	678.3	678.8
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	679.7	680.2	680.6	681.6
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	683.6	684.1	684.6	685.6
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	312.7	311.7	310.5	310.7	310.2	309.2	309.6	309.2	309.6	308.8	308.3
5°	321.9	321.1	319.3	319.0	318.4	317.7	316.7	315.8	315.6	314.9	313.6
7.5°	332.2	330.4	329.4	328.2	326.5	324.0	323.7	322.4	321.5	320.9	319.3
10°	343.0	340.7	339.5	337.9	336.3	334.8	333.1	330.9	328.8	328.2	326.3
12.5°	359.1	356.2	353.7	351.1	349.5	346.7	344.5	341.6	339.5	338.5	335.3
15°	376.7	372.9	370.3	368.5	365.9	363.5	360.6	358.1	354.7	351.8	348.9
17.5°	397.5	394.0	392.1	388.7	385.6	382.7	380.4	377.3	374.4	369.5	366.9
20°	424.9	422.0	419.9	416.1	412.6	409.8	407.9	401.3	397.5	393.1	389.0
22.5°	450.4	450.7	448.5	446.0	443.9	440.0	436.8	432.2	427.4	422.0	416.4
25°	478.2	480.6	481.0	480.3	479.1	474.7	473.0	468.4	464.6	455.8	453.3
27.5°	509.0	511.9	515.4	519.8	520.7	516.0	518.2	513.4	506.8	503.1	494.9
30°	539.1	546.9	554.2	559.1	562.2	564.6	563.0	561.4	556.9	550.6	543.5
32.5°	577.4	585.7	592.9	603.9	609.6	616.6	615.2	615.9	614.4	608.1	599.5
35°	616.1	623.4	632.9	640.1	654.1	661.6	667.9	667.6	667.6	663.8	655.7
37.5°	650.6	654.7	662.5	674.4	683.7	695.6	705.7	709.8	716.5	716.8	708.0
40°	686.5	690.5	696.5	705.3	715.5	729.6	743.3	756.5	762.8	769.4	766.0
42.5°	725.2	729.6	734.1	739.8	754.3	765.3	783.6	801.6	814.4	828.0	826.4
45°	763.6	768.8	775.1	783.6	796.4	814.4	832.1	852.3	882.0	897.9	909.1
47.5°	807.1	815.4	827.1	840.6	851.1	869.6	891.9	923.2	953.1	980.9	998.3
50°	872.7	875.9	894.8	908.1	927.9	946.8	969.2	996.7	1035.5	1063.9	1091.5
52.5°	950.0	961.9	980.9	996.0	1011.9	1030.6	1053.7	1078.2	1116.8	1148.6	1184.5
55°	1049.6	1066.6	1083.0	1091.2	1113.3	1130.2	1148.9	1173.2	1214.5	1249.1	1291.3
57.5°	1168.4	1185.4	1193.3	1205.3	1214.8	1233.7	1258.9	1275.2	1311.9	1347.7	1392.6
60°	1412.3	1401.6	1411.1	1392.6	1389.7	1391.3	1396.7	1409.2	1429.7	1463.1	1510.4
62.5°	1852.8	1837.2	1796.3	1781.5	1752.9	1714.1	1677.5	1672.5	1661.8	1686.9	1716.5
65°	2109.8	2166.0	2172.0	2187.8	2176.4	2146.2	2103.3	2089.5	2054.7	2030.5	2028.9
67.5°	2048.1	2132.3	2184.9	2251.4	2288.3	2324.3	2333.7	2346.0	2323.6	2312.6	2315.7
69°	1876.4	1938.7	2056.7	2102.0	2160.3	2208.2	2271.4	2282.3	2304.2	2307.3	2349.2
70°	1706.2	1797.9	1865.3	1933.4	2014.1	2066.7	2095.0	2141.8	2195.6	2222.1	2267.5
72.5°	1226.7	1256.7	1304.6	1392.8	1415.2	1469.8	1525.5	1565.3	1628.5	1673.4	1780.2
75°	661.9	679.8	755.3	805.3	818.5	836.5	877.6	887.3	910.9	925.4	1028.2
77.5°	302.3	329.7	339.5	366.9	351.5	359.1	368.8	366.6	373.2	404.7	440.7
80°	139.2	144.6	148.5	159.8	160.4	157.9	158.9	157.3	156.0	161.1	164.9
82.5°	67.7	76.0	76.0	82.9	86.3	85.4	87.3	86.7	87.9	86.7	90.8
85°	39.7	39.7	42.8	46.6	46.0	47.3	47.3	49.8	50.1	50.8	50.8
87.5°	18.5	20.5	21.4	23.0	23.6	24.5	25.2	25.2	25.5	25.0	25.5
90°	13.6	13.6	16.7	16.7	17.3	18.2	17.0	17.7	19.9	17.0	19.2
92.5°	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9
95°	7.8	7.7	7.6	7.5	7.5	7.4	7.3	7.2	7.1	7.0	6.8
97.5°	9.8	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	8.9	8.8
100°	25.5	25.2	25.0	24.6	24.3	24.1	23.7	23.4	23.2	22.9	22.5
102.5°	46.2	45.6	45.2	44.6	44.2	43.7	43.2	42.7	42.2	41.7	41.2
105°	68.7	68.2	67.7	67.2	66.7	66.3	65.8	65.3	64.8	64.3	63.8
107.5°	92.3	91.9	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.8	88.3



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	118.8	118.6	118.4	118.1	117.9	117.8	117.6	117.4	117.2	117.0	116.8
112.5°	147.2	147.1	147.1	147.0	146.9	146.7	146.6	146.5	146.4	146.3	146.2
115°	178.7	178.3	178.0	177.8	177.4	177.1	176.9	176.6	176.2	176.0	175.7
117.5°	211.0	210.6	210.0	209.6	209.0	208.6	208.0	207.6	207.1	206.6	206.1
120°	245.3	244.9	244.4	243.9	243.4	242.9	242.5	241.9	241.5	240.9	240.5
122.5°	277.8	277.3	276.8	276.3	275.8	275.3	274.8	274.3	273.8	273.4	272.8
125°	309.2	308.7	308.2	307.7	307.2	306.7	306.2	305.7	305.2	304.7	304.3
127.5°	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
130°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	408.3	408.1	407.9	407.7	407.5	407.3	407.1	406.9	406.8	406.6	406.3
135°	439.7	439.6	439.5	439.5	439.3	439.2	439.1	439.0	438.9	438.8	438.7
137.5°	466.2	466.3	466.4	466.5	466.6	466.7	466.8	466.8	467.0	467.1	467.2
140°	492.7	492.9	493.1	493.3	493.5	493.7	493.9	494.1	494.2	494.4	494.7
142.5°	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2
145°	551.6	551.5	551.4	551.3	551.2	551.1	551.0	550.9	550.8	550.8	550.6
147.5°	574.2	574.3	574.4	574.5	574.6	574.6	574.7	574.8	574.9	575.1	575.2
150°	588.9	589.2	589.5	589.7	590.1	590.4	590.6	590.9	591.3	591.5	591.8
152.5°	602.7	603.0	603.4	603.8	604.2	604.6	605.0	605.4	605.7	606.2	606.5
155°	619.3	619.8	620.3	620.8	621.3	621.8	622.3	622.7	623.2	623.7	624.2
157.5°	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.3	637.5	637.8	638.0
160°	651.7	651.5	651.1	650.8	650.6	650.2	649.9	649.7	649.4	649.0	648.8
162.5°	658.5	658.5	658.4	658.3	658.2	658.1	658.0	657.9	657.8	657.6	657.6
165°	664.5	664.7	665.0	665.4	665.6	665.9	666.3	666.5	666.8	667.1	667.4
167.5°	671.3	671.8	672.1	672.5	672.9	673.3	673.7	674.1	674.4	674.9	675.3
170°	676.2	676.7	677.2	677.7	678.2	678.7	679.2	679.7	680.2	680.6	681.2
172.5°	679.2	679.4	679.6	679.7	679.9	680.2	680.4	680.6	680.7	680.9	681.2
175°	682.2	682.3	682.4	682.4	682.5	682.6	682.7	682.8	682.9	683.0	683.1
177.5°	686.0	686.2	686.5	686.7	686.8	687.0	687.2	687.5	687.7	687.8	688.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	307.6	308.3	308.0	306.7	306.4	306.4	305.7	305.4	304.7	304.4	305.2
5°	313.3	313.3	312.4	311.2	309.8	309.6	309.2	307.6	307.0	306.4	305.7
7.5°	318.7	318.0	316.7	314.6	313.3	313.0	311.7	310.2	308.6	307.3	306.7
10°	324.4	323.7	321.1	319.5	317.1	316.7	314.6	312.7	311.2	309.6	308.3
12.5°	332.6	331.9	329.0	325.3	323.4	322.1	319.3	317.1	314.9	313.0	310.7
15°	345.2	342.6	340.7	337.0	334.1	331.6	328.2	325.0	321.9	318.7	316.7
17.5°	362.7	359.3	354.3	352.0	348.4	344.2	339.5	337.2	333.1	329.4	325.5
20°	385.8	382.3	374.4	371.6	366.3	360.3	356.4	351.8	348.4	342.3	338.2
22.5°	411.3	408.2	400.6	393.1	388.0	383.3	377.3	371.3	364.7	359.1	354.7
25°	444.4	439.7	433.2	425.4	417.9	411.3	403.1	394.6	389.0	381.2	374.8
27.5°	489.5	481.3	470.3	462.1	456.1	446.0	435.9	428.3	419.5	409.1	402.2
30°	538.4	529.2	520.9	511.6	501.4	491.7	477.9	466.8	457.3	446.3	435.0
32.5°	592.5	584.7	573.0	560.7	549.8	537.4	527.3	515.6	499.3	487.6	475.7
35°	647.0	638.0	626.0	615.6	602.9	590.4	579.0	563.6	548.8	532.1	515.4
37.5°	699.7	691.9	678.6	662.9	651.8	638.2	626.6	610.2	592.5	573.9	561.4
40°	758.3	745.8	736.6	718.4	707.0	691.9	675.2	662.5	645.5	625.3	607.3
42.5°	825.5	816.6	806.9	792.0	780.1	762.1	741.0	724.9	709.2	685.2	660.3
45°	910.6	905.0	888.9	876.8	860.8	841.9	823.6	804.1	779.2	751.4	728.7
47.5°	1012.7	1008.3	993.9	976.7	955.7	930.1	913.1	886.4	865.2	830.6	803.4
50°	1105.4	1107.6	1099.7	1073.6	1054.6	1029.1	1002.3	979.1	946.5	910.6	875.9
52.5°	1216.0	1213.8	1193.9	1179.5	1157.1	1126.1	1096.9	1067.0	1031.3	994.2	950.9
55°	1321.9	1328.5	1314.7	1294.2	1267.1	1223.9	1194.3	1155.5	1118.0	1077.0	1027.2
57.5°	1424.7	1445.8	1435.1	1410.8	1383.1	1351.9	1312.9	1269.2	1230.5	1176.9	1120.8
60°	1552.6	1580.7	1585.1	1569.4	1539.1	1502.9	1451.5	1417.4	1364.2	1314.7	1271.6
62.5°	1749.7	1813.3	1809.5	1817.1	1795.7	1773.3	1713.1	1676.6	1607.2	1571.6	1511.4
65°	2078.7	2125.7	2182.2	2180.2	2165.5	2111.8	2049.4	1988.3	1942.6	1872.2	1809.5
67.5°	2354.9	2393.6	2427.0	2409.6	2375.7	2315.4	2242.3	2157.2	2087.5	2010.0	1927.8
69°	2380.7	2428.0	2447.5	2426.1	2364.9	2286.5	2215.0	2135.8	2039.9	1973.5	1873.2
70°	2311.2	2358.1	2397.4	2342.2	2286.1	2209.5	2131.4	2049.0	1963.3	1891.8	1790.6
72.5°	1836.0	1888.7	1883.3	1877.3	1832.5	1756.0	1684.1	1639.9	1579.8	1493.4	1420.3
75°	1067.5	1091.8	1049.3	1094.0	1040.5	963.3	973.3	923.5	879.4	829.6	791.1
77.5°	419.1	440.7	418.3	411.1	387.1	381.7	341.6	346.4	326.5	287.5	269.5
80°	158.9	161.7	157.9	150.1	148.5	139.2	136.8	128.0	123.9	110.9	106.2
82.5°	85.4	87.0	84.5	81.9	80.1	74.6	71.2	64.6	60.8	56.8	56.4
85°	49.1	47.9	46.6	45.4	42.6	39.3	36.9	34.3	31.5	29.4	27.1
87.5°	25.8	26.2	26.5	25.2	23.4	20.8	19.2	18.2	16.1	15.1	14.2
90°	17.2	14.7	15.5	17.2	16.3	14.6	14.0	12.9	11.8	11.6	10.7
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8	7.8
100°	22.2	21.8	21.4	21.0	20.6	20.2	19.9	19.4	19.0	18.7	18.7
102.5°	41.0	40.6	40.3	40.1	39.7	39.4	39.2	38.9	38.5	38.3	38.1
105°	63.4	63.0	62.6	62.3	61.8	61.4	61.1	60.6	60.3	59.8	59.8
107.5°	88.0	87.8	87.5	87.1	86.9	86.6	86.2	86.0	85.7	85.4	85.2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	116.5	116.2	115.9	115.6	115.3	115.1	114.7	114.4	114.2	113.8	114.1	0°
112.5°	146.1	145.9	145.6	145.4	145.3	145.1	144.9	144.6	144.4	144.3	144.3	2.5°
115°	175.5	175.3	175.1	174.9	174.7	174.5	174.3	174.1	173.9	173.7	173.9	5°
117.5°	205.9	205.7	205.5	205.4	205.2	204.9	204.7	204.5	204.4	204.2	204.4	7.5°
120°	240.3	240.0	239.8	239.7	239.5	239.3	239.1	238.9	238.7	238.5	238.5	10°
122.5°	272.6	272.5	272.3	272.1	271.8	271.6	271.5	271.3	271.1	270.9	271.1	12.5°
125°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.5	339.4	339.3	339.2	339.1	339.0	338.9	338.8	338.8	338.6	339.0	17.5°
130°	373.8	373.5	373.3	373.2	373.0	372.8	372.5	372.3	372.2	372.0	372.2	20°
132.5°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.6	22.5°
135°	439.0	439.3	439.6	439.9	440.2	440.5	440.8	441.1	441.3	441.7	441.9	25°
137.5°	467.7	468.2	468.6	469.2	469.6	470.2	470.6	471.1	471.6	472.1	472.3	27.5°
140°	495.1	495.7	496.1	496.7	497.1	497.6	498.1	498.6	499.1	499.5	500.0	30°
142.5°	523.3	523.4	523.4	523.5	523.6	523.7	523.8	523.9	524.0	524.1	524.5	32.5°
145°	550.3	550.0	549.8	549.4	549.1	548.9	548.5	548.2	548.0	547.7	548.1	35°
147.5°	574.8	574.6	574.3	573.9	573.7	573.4	573.1	572.8	572.5	572.2	572.6	37.5°
150°	592.2	592.4	592.7	593.0	593.3	593.6	593.9	594.2	594.5	594.8	595.6	40°
152.5°	607.1	607.5	608.1	608.5	609.1	609.5	609.9	610.5	610.9	611.5	612.5	42.5°
155°	624.4	624.6	624.8	625.0	625.2	625.4	625.6	625.8	626.0	626.2	626.7	45°
157.5°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	639.0	47.5°
160°	648.7	648.6	648.5	648.4	648.3	648.1	648.0	647.9	647.9	647.8	648.9	50°
162.5°	657.4	657.2	657.0	656.8	656.6	656.4	656.2	656.0	655.9	655.7	656.8	52.5°
165°	667.2	667.0	666.8	666.6	666.5	666.3	666.0	665.8	665.6	665.5	666.3	55°
167.5°	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	676.4	57.5°
170°	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	684.1	60°
172.5°	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	684.1	62.5°
175°	682.9	682.7	682.5	682.4	682.2	681.9	681.7	681.5	681.4	681.2	682.2	65°
177.5°	687.7	687.5	687.1	686.8	686.6	686.2	685.9	685.7	685.4	685.0	685.9	67.5°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°
												70°
												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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 NUMBER: IST-AF-350-LED-E1-T2-7027-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	110°	114.3
304.2	304.2	303.2	302.5	300.3	296.6	292.8	289.3	284.7	282.8	280.2	112.5°	144.3
305.2	304.4	303.5	302.3	297.9	289.1	279.9	270.1	260.0	250.9	240.2	115°	174.1
305.7	304.4	303.2	301.7	295.4	281.8	263.6	244.2	226.4	212.8	207.1	117.5°	204.5
306.1	305.2	303.5	301.3	292.5	272.4	243.0	215.2	199.5	194.1	193.2	120°	238.5
309.6	308.0	305.4	302.9	291.2	261.9	220.1	193.6	187.3	189.7	194.1	122.5°	271.3
314.0	312.0	308.8	306.4	290.6	248.4	197.6	181.3	183.4	190.4	197.6	125°	304.3
321.9	318.7	315.1	312.7	291.9	231.7	179.8	174.9	181.5	190.4	200.1	127.5°	339.4
333.5	329.0	325.0	320.5	293.7	210.8	168.9	170.9	178.8	188.1	198.9	130°	372.3
347.9	343.0	337.2	330.7	296.0	192.9	163.0	166.5	173.6	181.9	190.7	132.5°	406.8
367.6	360.6	353.3	345.2	299.1	173.4	157.7	161.3	165.7	170.5	174.9	135°	442.1
392.1	382.7	374.8	363.7	302.3	160.1	153.3	154.5	155.4	156.0	155.7	137.5°	472.5
424.9	410.3	401.3	387.7	305.7	153.3	148.1	146.5	145.0	142.8	140.2	140°	500.4
459.6	447.5	433.2	415.7	308.0	148.5	143.4	138.4	133.9	131.7	131.7	142.5°	524.9
499.9	485.1	466.8	445.1	305.2	143.4	137.1	130.5	128.0	130.8	129.9	145°	548.4
540.2	519.8	499.5	474.7	298.1	137.7	130.2	126.8	128.5	124.9	122.6	147.5°	573.0
584.7	562.0	534.0	504.9	288.1	131.7	126.8	128.5	122.0	117.6	119.5	150°	596.4
634.6	607.7	577.4	538.1	281.5	128.0	121.3	122.9	117.3	114.2	113.2	152.5°	613.5
702.3	664.0	627.3	580.9	286.5	122.0	110.9	117.3	114.2	111.3	108.8	155°	627.4
768.8	728.1	684.6	630.1	295.4	117.6	102.8	111.3	113.5	108.8	104.0	157.5°	640.0
835.5	792.5	741.6	680.8	306.1	114.7	96.5	104.0	111.9	106.2	102.5	160°	650.1
905.9	851.3	799.3	733.7	320.0	111.9	91.4	97.7	109.1	106.2	100.5	162.5°	658.0
979.6	915.4	863.3	792.5	344.2	107.8	85.1	92.6	106.2	105.9	98.6	165°	667.0
1065.4	1008.0	941.2	869.0	378.0	103.0	79.4	88.9	103.8	104.7	96.5	167.5°	677.6
1211.4	1152.1	1071.4	1002.7	444.8	96.7	76.0	85.1	99.6	102.1	94.5	170°	685.0
1448.0	1367.3	1293.2	1228.9	559.1	87.9	73.4	80.9	95.2	98.9	93.0	172.5°	685.0
1719.4	1640.6	1551.0	1442.9	622.9	79.7	70.0	76.0	90.8	95.8	91.4	175°	683.1
1834.8	1731.8	1623.0	1494.7	562.0	73.1	66.1	71.2	85.8	91.4	89.2	177.5°	686.7
1781.8	1677.5	1551.0	1425.3	488.9	69.7	64.0	68.7	81.9	88.6	87.0	180°	687.0
1689.7	1584.8	1472.0	1321.0	436.6	67.7	62.4	67.1	80.4	87.0	85.8		
1336.4	1242.9	1138.8	1023.8	297.6	61.4	57.3	62.4	74.1	81.4	80.9		
708.2	680.8	603.9	536.5	154.1	54.9	52.0	57.0	68.5	76.0	76.0		
255.0	231.3	221.3	183.7	81.9	47.9	46.6	50.5	62.2	69.3	69.0		
96.5	94.0	84.1	78.8	52.0	39.1	39.3	43.2	54.5	61.4	61.2		
54.5	49.5	47.9	46.4	33.1	30.9	32.5	36.2	46.6	52.6	53.6		
26.2	24.3	23.6	22.1	21.8	23.6	25.5	28.7	37.2	44.5	43.5		
12.6	11.9	11.7	11.4	15.5	15.1	18.5	19.9	25.0	35.3	31.8		
11.0	11.0	10.7	10.0	11.3	13.8	14.8	15.5	17.2	28.4	24.5		
5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8	6.8		
7.8	7.8	7.8	7.8	7.8	8.8	9.8	11.8	8.8	8.8	7.8		
18.7	18.7	18.7	18.7	18.7	22.5	25.5	28.5	20.6	11.8	9.8		
37.9	37.7	37.5	37.3	38.3	41.2	46.2	49.0	39.3	26.5	17.7		
59.8	59.8	59.8	59.8	59.8	63.8	68.7	70.7	61.8	47.1	35.3		
85.0	84.8	84.6	84.4	85.4	88.3	92.3	93.2	86.3	71.7	57.0		

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 IST-AF-350-LED-E1-T2-7027-ULG

REPORT NUMBER: P271697
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TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
114.4	114.6	114.8	113.8	116.8	118.8	117.8	111.9	100.1	85.4	0°	302.0	302.0
144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	118.8	2.5°	277.9	273.6
174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	156.0	5°	232.3	231.7
204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	193.3	7.5°	203.6	199.5
238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	228.7	10°	194.1	193.9
271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	262.0	12.5°	198.3	199.2
304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	293.5	15°	203.6	205.5
339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	326.8	17.5°	207.1	210.6
372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	359.2	20°	206.1	210.2
406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	393.5	22.5°	195.7	197.6
442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	424.0	25°	177.1	177.8
472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	451.5	27.5°	154.8	154.1
500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	480.0	30°	139.0	134.8
525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	508.4	32.5°	131.7	129.3
548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	536.8	35°	126.8	122.6
573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	563.3	37.5°	131.4	131.2
597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	582.0	40°	135.8	135.3
614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	597.7	42.5°	128.3	122.6
627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	615.4	45°	114.4	107.8
640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	632.0	47.5°	104.9	101.1
651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	643.8	50°	100.5	99.4
659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	652.7	52.5°	99.4	102.5
667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	663.5	55°	98.6	102.1
678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	673.3	57.5°	94.2	100.3
686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	679.2	60°	91.1	98.4
686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	680.2	62.5°	89.2	97.4
684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	682.2	65°	87.7	98.1
687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	686.0	67.5°	85.1	99.9
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°	83.8	99.6
										70°	82.6	98.6
										72.5°	78.2	91.1
										75°	72.9	80.4
										77.5°	65.8	69.0
										80°	58.3	60.2
										82.5°	50.8	58.0
										85°	39.7	49.1
										87.5°	29.4	27.1
										90°	23.5	17.2
										92.5°	4.9	4.0
										95°	5.9	4.9
										97.5°	7.8	6.8
										100°	8.8	7.8
										102.5°	12.8	10.8
										105°	26.5	21.6
										107.5°	48.1	41.2

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180°
302.0
274.5
229.8
199.9
194.8
198.5
206.1
211.8
211.2
199.2
178.4
156.7
138.1
132.1
124.5
132.7
136.5
123.9
107.8
100.5
98.6
103.3
101.8
100.5
98.6
97.1
96.7
97.4
96.1
94.5
85.1
76.5
69.0
60.8
51.3
38.4
29.4
15.3
4.0
4.9
6.8
7.8
10.8
20.6
40.2

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	72.7	66.7	64.8
112.5°	104.0	97.2	97.2
115°	144.3	136.5	137.4
117.5°	185.5	180.6	180.6
120°	221.8	218.8	220.8
122.5°	256.2	255.2	258.2
125°	290.5	288.5	292.5
127.5°	322.9	322.9	323.9
130°	355.3	354.3	356.3
132.5°	385.7	386.7	388.7
135°	418.1	418.1	421.0
137.5°	450.5	448.5	451.5
140°	478.0	476.0	479.0
142.5°	507.5	505.5	508.4
145°	534.0	535.9	539.8
147.5°	560.5	561.4	564.3
150°	582.0	581.0	584.0
152.5°	596.7	596.7	599.7
155°	613.5	613.5	617.3
157.5°	631.1	631.1	634.0
160°	646.8	647.8	650.7
162.5°	656.6	656.6	660.5
165°	663.5	665.5	668.4
167.5°	671.3	674.3	677.2
170°	679.2	682.2	685.0
172.5°	682.2	684.1	686.0
175°	684.1	685.0	687.0
177.5°	687.0	692.0	693.9
180°	687.0	687.0	687.0

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

Scaled Data Report

