

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: P271727

Luminaire Tested: **IST-AF-800-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271727  
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-800-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**

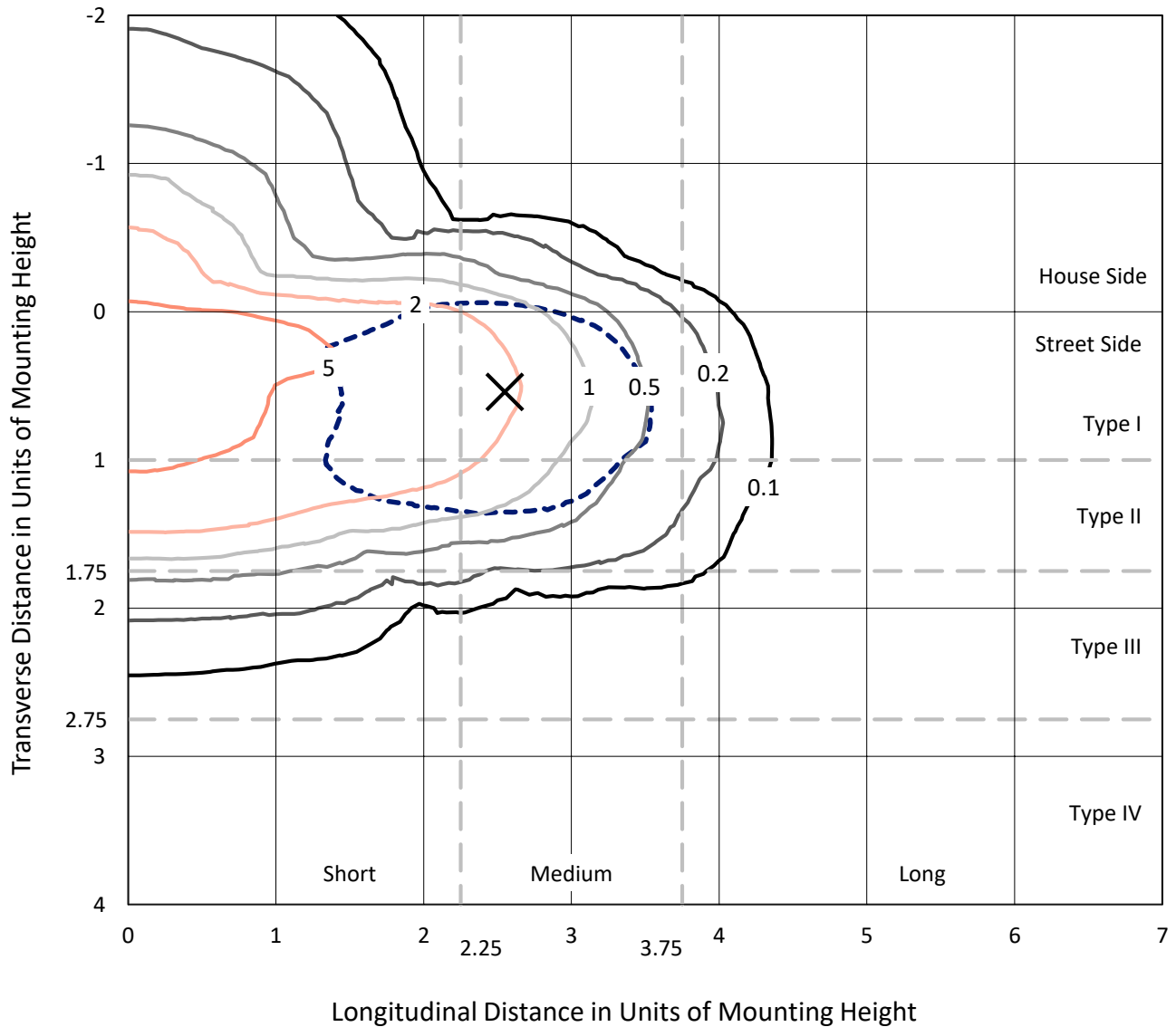
Lumens per Lamp: N/A  
Luminaire Lumens: 6155.9 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 60.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

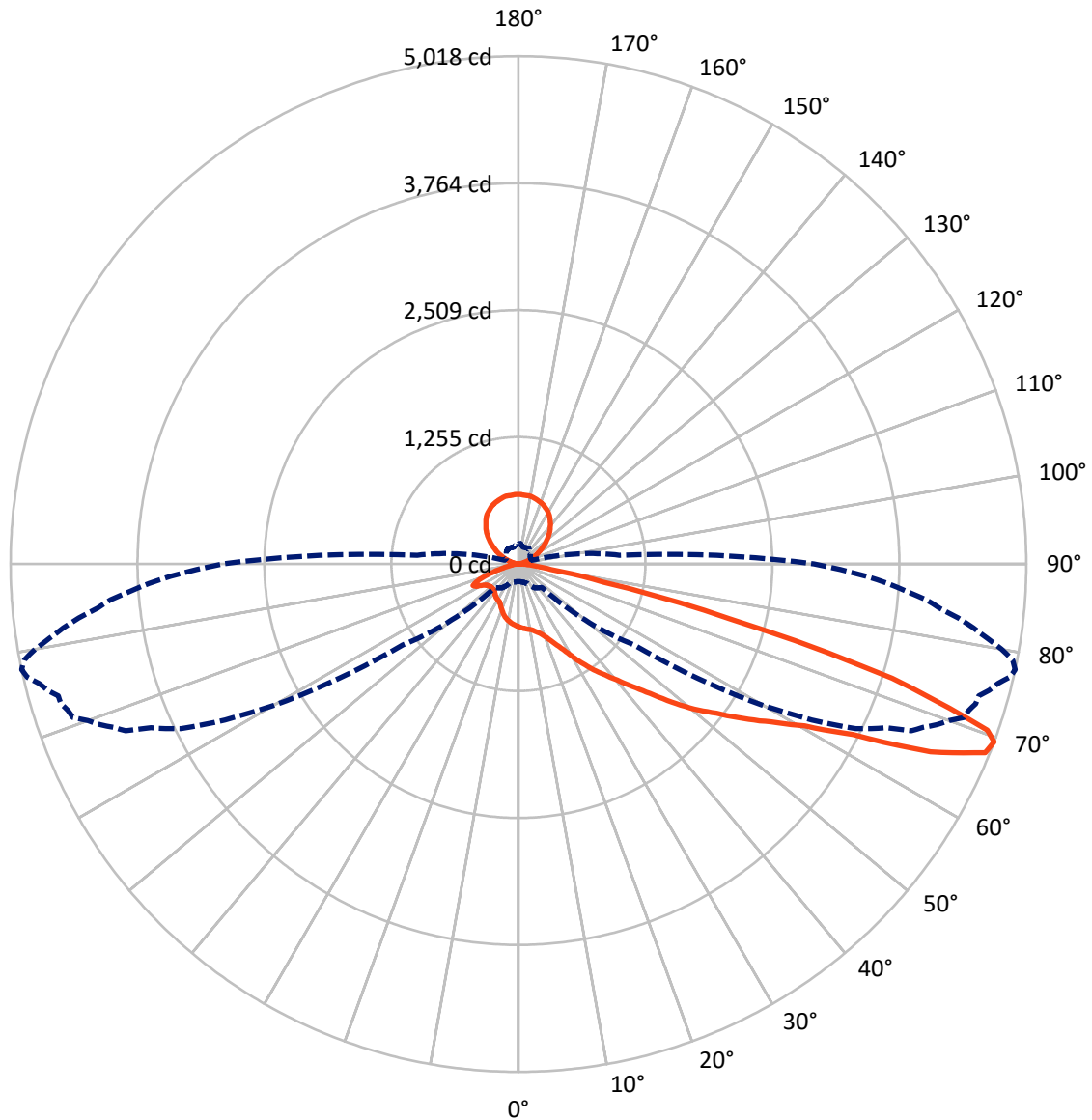
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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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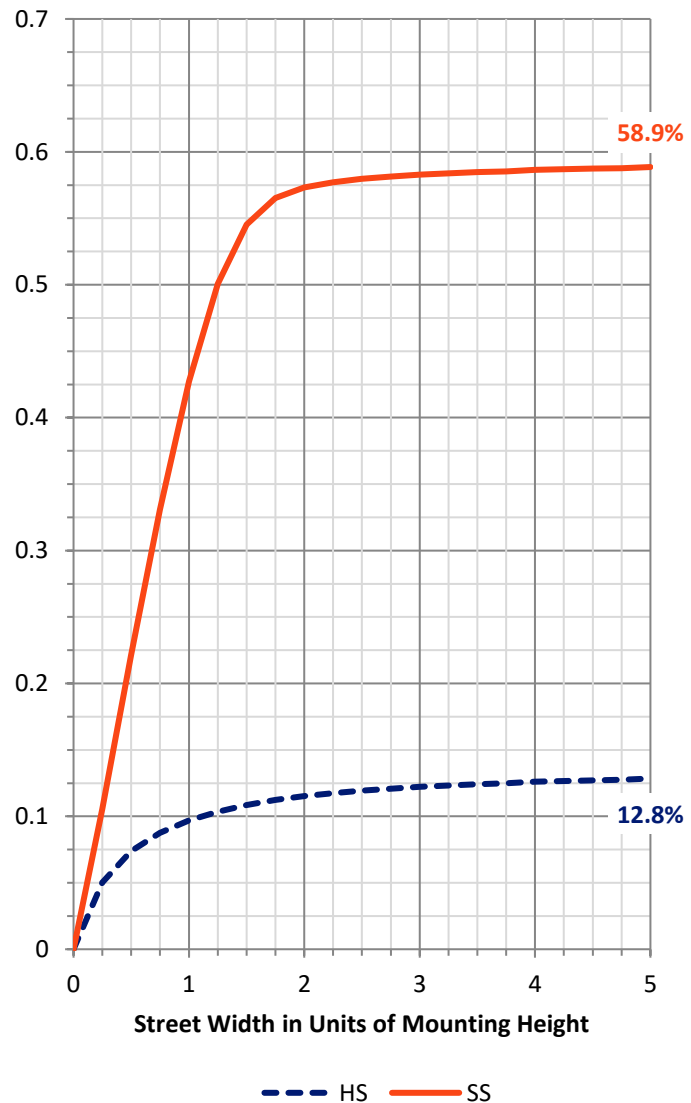
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	814.5	853.0	1667.5
	% Fixture	13.2	13.9	27.1
<b>Street Side</b>	Lumens	3636.2	852.2	4488.4
	% Fixture	59.1	13.8	72.9
<b>Total</b>	Lumens	4450.6	1705.3	6155.9
	% Fixture	72.3	27.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	0.9
10°-20°	173.6	2.8
20°-30°	311.2	5.1
30°-40°	508.0	8.3
40°-50°	751.4	12.2
50°-60°	981.2	15.9
60°-70°	1097.3	17.8
70°-80°	492.6	8.0
80°-90°	77.8	1.3
90°-100°	11.4	0.2
100°-110°	56.3	0.9
110°-120°	163.0	2.6
120°-130°	268.1	4.4
130°-140°	330.6	5.4
140°-150°	338.2	5.5
150°-160°	284.9	4.6
160°-170°	187.6	3.0
170°-180°	65.0	1.1
0°-90°	4450.6	72.3
0°-180°	6155.9	100.0



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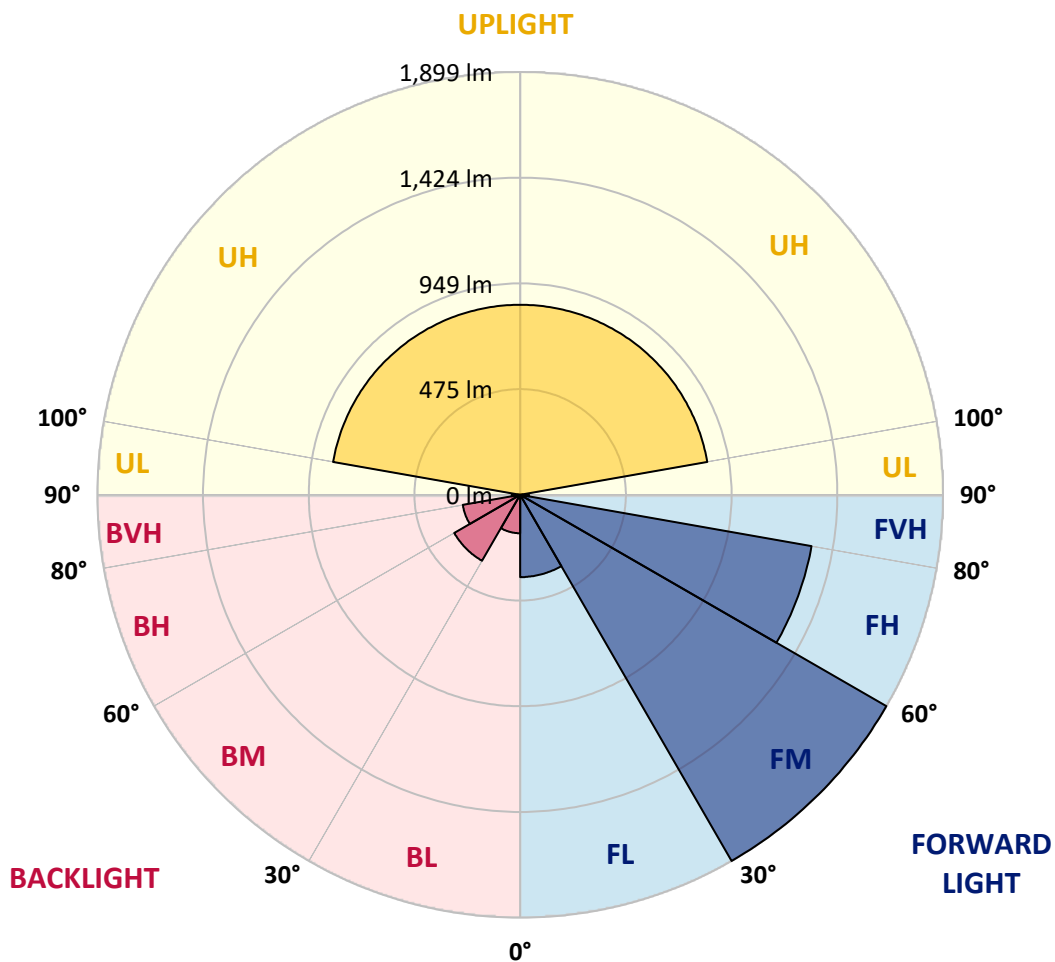
CATALOG NUMBER: IST-AF-800-LED-E1-T2-7027-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.5	6.0			
FM	(30°-60°)	1898.6	30.8			
FH	(60°-80°)	1328.3	21.6			G1/1800
FVH	(80°-90°)	39.7	0.6			G1/100
BL	(0°-30°)	172.8	2.8	B1/500		
BM	(30°-60°)	342.0	5.6	B1/1000		
BH	(60°-80°)	261.6	4.2	B1/500		G1/500
BVH	(80°-90°)	38.1	0.6			G1/100
UL	(90°-100°)	11.4	0.2		U2/50	
UH	(100°-180°)	853.0	13.9		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°	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
2.5°	663.1	663.1	661.2	659.9	657.9	652.8	645.1	643.6	643.1	641.7	640.4
5°	711.5	706.3	707.7	704.5	697.4	688.3	674.1	666.9	663.1	662.4	659.9
7.5°	750.9	751.6	749.6	743.2	733.6	722.6	703.1	692.1	688.9	687.0	682.4
10°	779.4	777.4	776.1	774.9	767.2	758.1	733.6	719.9	717.4	712.2	707.1
12.5°	800.1	800.1	800.1	798.9	794.3	787.2	767.8	754.1	750.9	743.9	739.3
15°	822.7	820.2	817.5	815.6	816.2	816.2	802.1	791.7	786.6	782.6	773.6
17.5°	871.2	865.3	859.6	851.9	839.6	836.3	835.6	835.0	827.9	827.2	818.2
20°	912.6	907.4	902.2	894.4	876.9	858.2	867.9	876.9	875.7	876.4	871.9
22.5°	963.6	959.7	949.4	940.3	917.7	895.1	896.4	915.8	918.3	920.9	922.2
25°	1033.4	1031.4	1014.6	997.2	971.3	950.0	929.9	953.9	959.1	964.9	976.5
27.5°	1103.8	1099.3	1081.2	1065.7	1033.4	1010.8	982.9	996.0	1003.7	1014.6	1032.7
30°	1194.9	1182.7	1176.2	1141.4	1111.7	1078.7	1054.7	1058.7	1057.3	1070.2	1098.0
32.5°	1326.8	1307.4	1275.1	1240.2	1205.3	1161.4	1141.4	1140.7	1137.4	1152.3	1167.9
35°	1397.9	1393.5	1373.4	1338.5	1300.3	1259.0	1245.9	1233.7	1235.7	1243.4	1249.3
37.5°	1474.7	1471.0	1455.4	1436.0	1406.9	1429.6	1357.8	1339.7	1331.4	1327.4	1329.4
40°	1508.4	1511.7	1520.0	1523.3	1506.5	1615.1	1473.5	1414.0	1411.5	1405.7	1399.8
42.5°	1515.5	1524.0	1540.8	1577.5	1593.8	1830.3	1569.2	1497.5	1487.1	1482.6	1483.2
45°	1541.4	1554.2	1557.5	1591.2	1667.4	1841.3	1677.0	1571.0	1563.3	1562.7	1558.8
47.5°	1604.0	1621.5	1621.5	1636.4	1708.8	1862.5	1714.0	1644.8	1639.6	1637.0	1647.3
50°	1613.1	1636.4	1683.0	1730.8	1783.0	1880.1	1756.0	1724.9	1726.8	1732.7	1763.0
52.5°	1459.9	1483.2	1606.0	1746.8	1917.5	1927.9	1819.2	1831.6	1844.5	1872.9	1928.5
55°	1251.9	1268.7	1414.0	1639.6	1922.7	2109.5	1978.2	2012.6	2039.6	2048.0	2135.3
57.5°	985.6	1008.9	1156.8	1449.7	1795.4	2161.1	2344.0	2359.6	2329.1	2357.0	2388.6
60°	533.9	531.3	737.4	1048.2	1527.7	2065.6	2696.9	2963.1	2969.7	3012.3	2961.3
62.5°	298.6	298.6	358.1	538.4	982.9	1747.6	2866.2	3485.3	3566.1	3634.0	3783.3
65°	225.6	227.5	248.8	324.5	551.9	1103.2	2742.2	3663.7	3818.9	3974.6	4236.4
67.5°	187.5	187.5	202.9	241.7	345.1	500.9	2019.0	3305.8	3499.5	3685.7	4047.7
69°	173.8	174.5	186.1	212.6	288.9	325.7	1394.7	2802.9	3024.5	3282.5	3709.0
70°	167.4	165.5	176.4	198.4	261.8	257.3	1021.7	2437.1	2608.9	2840.4	3330.9
72.5°	148.6	146.7	152.5	169.3	206.3	183.5	416.8	1311.3	1570.5	1829.6	2220.6
75°	132.5	130.5	135.0	142.8	160.3	140.2	209.3	549.3	665.0	859.6	1185.9
77.5°	117.0	113.1	117.0	122.2	126.0	104.7	142.2	254.0	311.5	382.6	540.3
80°	106.0	102.0	106.6	104.0	98.8	80.8	94.3	148.0	164.2	196.5	257.3
82.5°	75.5	75.0	101.5	104.7	78.8	58.7	67.2	95.0	106.0	111.7	135.7
85°	46.5	44.6	58.7	75.0	80.2	36.8	43.3	56.2	58.7	64.0	75.5
87.5°	24.0	24.5	31.7	38.8	52.3	22.0	25.8	33.0	33.0	33.0	37.5
90°	10.7	11.9	16.6	21.4	18.9	12.7	16.6	15.6	17.1	16.0	17.7
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°	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
2.5°	641.1	639.1	636.6	637.3	635.9	634.0	634.7	634.0	634.7	633.3	632.0
5°	659.9	658.5	654.7	654.1	652.8	651.5	649.6	647.6	646.9	645.6	643.1
7.5°	681.2	677.3	675.3	672.8	669.6	664.4	663.8	661.2	659.2	657.9	654.7
10°	703.1	698.6	696.1	692.9	689.6	686.3	683.1	678.6	674.1	672.8	668.9
12.5°	736.1	730.3	725.1	719.9	716.7	710.9	706.3	700.6	696.1	694.1	687.7
15°	772.4	764.5	759.3	755.6	750.4	745.1	739.3	734.2	727.1	721.2	715.4
17.5°	814.9	807.8	803.9	796.9	790.4	784.6	780.1	773.6	767.8	757.5	752.3
20°	871.2	865.3	860.8	853.1	845.9	840.2	836.3	822.7	814.9	805.9	797.5
22.5°	923.5	924.2	919.7	914.5	909.9	902.2	895.7	886.1	876.4	865.3	853.7
25°	980.4	985.6	986.2	984.9	982.4	973.3	970.1	960.4	952.7	934.5	929.4
27.5°	1043.7	1049.6	1056.7	1065.7	1067.6	1057.9	1062.4	1052.7	1039.2	1031.4	1014.6
30°	1105.2	1121.3	1136.2	1146.5	1153.0	1157.5	1154.2	1151.0	1141.9	1129.0	1114.2
32.5°	1184.0	1200.8	1215.7	1238.2	1249.9	1264.2	1261.5	1262.8	1259.6	1246.7	1229.2
35°	1263.5	1278.4	1297.7	1312.6	1341.0	1356.5	1369.5	1368.7	1368.7	1361.0	1344.2
37.5°	1333.9	1342.2	1358.5	1383.0	1401.7	1426.3	1447.0	1455.4	1469.0	1469.6	1451.5
40°	1407.6	1416.0	1428.2	1446.5	1467.0	1496.1	1524.0	1551.0	1563.9	1577.5	1570.5
42.5°	1487.1	1496.1	1505.2	1516.8	1546.5	1569.2	1606.7	1643.4	1669.9	1697.8	1694.6
45°	1565.9	1576.3	1589.2	1606.7	1633.2	1669.9	1706.2	1747.6	1808.3	1841.3	1863.8
47.5°	1655.0	1671.9	1695.8	1723.6	1745.0	1783.0	1828.9	1893.0	1954.4	2011.2	2046.8
50°	1789.5	1796.0	1834.8	1862.0	1902.6	1941.3	1987.3	2043.6	2123.1	2181.2	2238.0
52.5°	1947.9	1972.5	2011.2	2042.3	2074.5	2113.4	2160.5	2210.9	2289.8	2355.1	2428.7
55°	2152.1	2187.0	2220.6	2237.4	2282.6	2317.5	2355.6	2405.4	2490.1	2561.2	2647.8
57.5°	2395.8	2430.6	2446.8	2471.3	2490.7	2529.5	2581.2	2614.9	2689.9	2763.5	2855.3
60°	2896.0	2873.9	2893.4	2855.3	2849.4	2852.7	2863.7	2889.5	2931.5	3000.0	3097.0
62.5°	3798.8	3767.1	3683.1	3652.8	3594.0	3514.5	3439.5	3429.1	3407.2	3458.8	3519.6
65°	4326.1	4441.2	4453.4	4485.8	4462.5	4400.4	4312.7	4284.2	4213.1	4163.4	4160.1
67.5°	4199.5	4372.1	4479.9	4616.4	4691.9	4765.7	4785.0	4810.2	4764.4	4741.7	4748.2
69°	3847.4	3975.3	4216.9	4310.0	4429.6	4527.9	4657.0	4679.7	4724.3	4730.7	4816.7
70°	3498.3	3686.4	3824.6	3964.3	4129.7	4237.7	4295.9	4391.5	4501.9	4556.2	4649.3
72.5°	2515.3	2576.7	2675.0	2855.9	2901.7	3013.6	3128.0	3209.5	3339.3	3431.1	3650.2
75°	1357.2	1394.0	1548.5	1651.3	1678.4	1715.2	1799.2	1819.2	1867.8	1897.5	2108.1
77.5°	619.8	676.1	696.1	752.3	720.6	736.1	756.1	751.6	765.2	829.9	903.4
80°	285.6	296.6	304.3	327.6	329.0	323.7	325.7	322.5	319.9	330.3	338.0
82.5°	139.0	155.8	155.8	170.0	177.1	175.1	179.0	177.8	180.3	177.8	186.1
85°	81.5	81.5	87.9	95.7	94.3	96.9	96.9	102.0	102.8	104.0	104.0
87.5°	38.1	42.0	43.9	47.3	48.5	50.5	51.7	51.7	52.3	51.0	52.3
90°	18.5	18.5	25.1	25.1	26.3	28.3	25.6	26.9	31.4	25.6	30.1
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°	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
2.5°	630.8	632.0	631.4	628.8	628.2	628.2	626.8	626.3	625.0	624.3	625.6
5°	642.4	642.4	640.4	637.9	635.3	634.7	634.0	630.8	629.5	628.2	626.8
7.5°	653.3	652.1	649.6	645.1	642.4	641.7	639.1	635.9	632.7	630.1	628.8
10°	665.0	663.8	658.5	655.3	650.1	649.6	645.1	641.1	637.9	634.7	632.0
12.5°	681.8	680.6	674.6	666.9	663.1	660.5	654.7	650.1	645.6	641.7	637.3
15°	707.7	702.6	698.6	690.9	685.0	679.8	672.8	666.4	659.9	653.3	649.6
17.5°	743.9	736.8	726.4	721.9	714.2	705.8	696.1	691.5	683.1	675.3	667.6
20°	791.0	784.0	767.8	761.9	750.9	738.7	731.0	721.2	714.2	701.8	693.4
22.5°	843.4	837.0	821.4	805.9	795.6	785.8	773.6	761.3	747.7	736.1	727.1
25°	911.2	901.6	888.0	872.4	856.9	843.4	826.6	809.1	797.5	781.3	768.4
27.5°	1003.7	986.9	964.2	947.4	935.1	914.5	893.8	878.4	860.1	838.8	824.6
30°	1103.8	1085.2	1068.4	1049.0	1028.2	1008.2	979.7	957.1	937.7	915.1	891.8
32.5°	1215.0	1198.9	1174.9	1149.7	1127.1	1102.0	1081.2	1057.3	1023.7	999.8	975.2
35°	1326.8	1308.0	1283.5	1262.2	1236.3	1210.5	1187.2	1155.5	1125.1	1090.9	1056.7
37.5°	1434.8	1418.5	1391.5	1359.1	1336.5	1308.7	1284.8	1251.2	1215.0	1176.9	1151.0
40°	1555.0	1529.1	1510.3	1473.0	1449.7	1418.5	1384.3	1358.5	1323.6	1282.2	1245.4
42.5°	1692.6	1674.5	1654.5	1624.0	1599.5	1562.7	1519.4	1486.4	1454.2	1404.9	1353.9
45°	1867.0	1855.4	1822.5	1798.0	1765.0	1726.3	1688.7	1648.7	1597.5	1540.8	1494.2
47.5°	2076.5	2067.4	2037.7	2002.8	1959.6	1907.1	1872.2	1817.3	1774.1	1703.0	1647.3
50°	2266.5	2271.1	2254.8	2201.3	2162.4	2110.1	2055.1	2007.4	1940.8	1867.0	1796.0
52.5°	2493.3	2488.8	2448.2	2418.3	2372.4	2309.1	2249.1	2187.6	2114.6	2038.3	1949.8
55°	2710.5	2724.1	2695.6	2653.6	2598.1	2509.4	2448.7	2369.3	2292.4	2208.3	2106.3
57.5°	2921.2	2964.5	2942.5	2892.7	2835.9	2771.9	2691.7	2602.6	2523.1	2413.2	2298.1
60°	3183.5	3241.1	3250.2	3217.8	3155.7	3081.5	2976.2	2906.3	2797.1	2695.6	2607.2
62.5°	3587.5	3718.1	3710.3	3725.8	3681.8	3636.0	3512.6	3437.5	3295.3	3222.3	3099.0
65°	4262.2	4358.5	4474.2	4470.2	4440.0	4330.1	4202.1	4076.7	3983.1	3838.9	3710.3
67.5°	4828.3	4907.8	4976.3	4940.8	4871.0	4747.5	4597.6	4423.2	4280.3	4121.3	3952.6
69°	4881.3	4978.2	5018.3	4974.5	4849.1	4688.2	4541.4	4379.1	4182.7	4046.3	3840.8
70°	4739.2	4834.8	4915.5	4802.5	4687.4	4530.4	4370.2	4201.5	4025.7	3878.9	3671.6
72.5°	3764.5	3872.5	3861.5	3849.2	3757.5	3600.4	3453.1	3362.5	3239.2	3062.1	2912.1
75°	2188.9	2238.7	2151.5	2243.2	2133.4	1975.0	1995.8	1893.5	1803.1	1701.0	1622.2
77.5°	859.6	903.4	857.6	842.7	793.7	782.6	700.6	710.3	669.6	589.4	552.5
80°	325.7	331.6	323.7	307.6	304.3	285.6	280.5	262.3	254.0	227.5	217.7
82.5°	175.1	178.3	173.2	168.1	164.2	153.3	146.1	132.5	124.8	116.3	115.7
85°	100.8	98.3	95.7	93.1	87.2	80.8	75.5	70.4	64.6	60.1	55.5
87.5°	53.0	53.7	54.3	51.7	47.8	42.7	39.4	37.5	33.0	31.0	29.0
90°	26.1	21.4	23.1	26.8	25.3	21.9	21.0	19.0	16.8	16.6	14.6
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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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	110°	114.3
623.6	623.6	621.6	620.4	615.9	608.2	600.3	593.3	583.6	579.7	574.6	112.5°	144.3
625.6	624.3	622.3	619.8	610.8	592.6	573.8	553.9	533.1	514.4	492.5	115°	174.1
626.8	624.3	621.6	618.6	605.5	577.8	540.3	500.9	464.1	436.3	424.6	117.5°	204.5
627.6	625.6	622.3	617.9	599.8	558.4	498.3	441.3	409.1	398.1	396.2	120°	238.5
634.7	631.4	626.3	621.1	597.1	537.1	451.1	396.8	383.8	389.1	398.1	122.5°	271.3
643.6	639.9	633.3	628.2	595.8	509.2	405.2	371.6	376.1	390.3	405.2	125°	304.3
659.9	653.3	646.3	641.1	598.5	475.0	368.3	358.7	372.3	390.3	410.3	127.5°	339.4
683.8	674.6	666.4	657.3	602.3	432.4	346.4	350.2	366.5	385.8	407.8	130°	372.3
713.5	703.1	691.5	678.0	606.9	395.5	334.1	341.3	356.1	372.9	391.0	132.5°	406.8
753.6	739.3	724.4	707.7	613.4	355.5	323.1	330.8	340.0	349.6	358.7	135°	442.1
803.9	784.6	768.4	745.9	619.8	328.3	314.0	316.7	318.6	319.9	319.3	137.5°	472.5
871.2	841.4	822.7	794.9	626.8	314.0	303.8	300.6	297.2	292.8	287.5	140°	500.4
942.3	917.7	888.0	852.4	631.4	304.3	294.0	283.8	274.7	270.1	270.1	142.5°	524.9
1025.0	994.6	957.1	912.6	625.6	294.0	281.1	267.5	262.3	268.2	266.3	145°	548.4
1107.7	1065.7	1024.3	973.3	611.4	282.4	266.9	259.8	263.7	255.9	251.3	147.5°	573.0
1198.9	1152.3	1094.9	1035.4	590.6	270.1	259.8	263.7	250.1	241.0	245.0	150°	596.4
1300.9	1245.9	1184.0	1103.2	577.1	262.3	248.8	252.1	240.5	234.0	232.0	152.5°	613.5
1439.9	1361.7	1286.1	1191.2	587.5	250.1	227.5	240.5	234.0	228.1	223.0	155°	627.4
1576.3	1492.9	1403.7	1291.9	605.5	241.0	210.7	228.1	232.6	223.0	213.3	157.5°	640.0
1713.2	1624.8	1520.7	1396.0	627.6	235.3	197.8	213.3	229.4	217.7	210.0	160°	650.1
1857.3	1745.6	1639.0	1504.5	655.9	229.4	187.5	200.3	223.6	217.7	206.3	162.5°	658.0
2008.6	1876.8	1770.2	1624.8	705.8	221.1	174.5	190.0	217.7	217.1	202.3	165°	667.0
2184.4	2066.8	1929.8	1781.8	774.9	211.3	162.9	182.3	212.6	214.5	197.8	167.5°	677.6
2483.6	2362.1	2196.6	2055.8	911.9	198.4	155.8	174.5	204.3	209.3	193.9	170°	685.0
2969.0	2803.5	2651.7	2519.8	1146.5	180.3	150.6	166.1	195.2	202.9	190.6	172.5°	685.0
3525.5	3363.8	3180.3	2958.7	1277.0	163.5	143.5	155.8	186.1	196.5	187.5	175°	683.1
3762.0	3550.6	3327.7	3064.7	1152.3	149.9	135.7	146.1	175.8	187.5	182.9	177.5°	686.7
3653.4	3439.5	3180.3	2922.5	1002.4	142.8	131.2	140.9	168.1	181.5	178.3	180°	687.0
3464.8	3249.5	3018.1	2708.6	895.1	139.0	128.0	137.7	164.7	178.3	175.8		
2740.2	2548.3	2335.1	2099.1	610.1	126.0	117.6	128.0	151.8	166.7	166.1		
1452.2	1396.0	1238.2	1100.0	316.0	112.5	106.6	117.0	140.2	155.8	155.8		
522.8	474.3	453.6	376.7	168.1	98.3	95.7	103.5	127.3	142.2	141.6		
197.8	192.6	172.6	161.5	106.6	80.2	80.8	88.6	111.7	126.0	125.3		
111.7	101.5	98.3	95.0	67.8	63.3	66.6	74.3	95.7	108.0	109.9		
53.7	49.8	48.5	45.3	44.6	48.5	52.3	58.7	76.3	91.1	89.2		
25.8	24.5	24.0	23.3	31.7	31.0	38.1	40.7	51.0	72.3	65.3		
15.3	15.3	14.6	13.4	15.9	19.1	21.1	24.3	28.2	49.9	42.1		
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-800-LED-E1-T2-7027-ULG

REPORT NUMBER: P271727  
 CATALOG NUMBER: IST-AF-80

**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°	619.1	619.1
144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	118.8	2.5°	570.1	561.0
174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	156.0	5°	476.3	475.0
204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	193.3	7.5°	417.5	409.1
238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	228.7	10°	398.1	397.5
271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	262.0	12.5°	406.6	408.5
304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	293.5	15°	417.5	421.3
339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	326.8	17.5°	424.6	431.7
372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	359.2	20°	422.7	431.1
406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	393.5	22.5°	401.4	405.2
442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	424.0	25°	363.3	364.5
472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	451.5	27.5°	317.3	316.0
500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	480.0	30°	285.0	276.6
525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	508.4	32.5°	270.1	265.0
548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	536.8	35°	259.8	251.3
573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	563.3	37.5°	269.5	268.9
597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	582.0	40°	278.6	277.3
614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	597.7	42.5°	263.0	251.3
627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	615.4	45°	234.5	221.1
640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	632.0	47.5°	215.2	207.5
651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	643.8	50°	206.3	203.6
659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	652.7	52.5°	203.6	210.0
667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	663.5	55°	202.3	209.3
678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	673.3	57.5°	193.2	205.5
686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	679.2	60°	186.8	201.6
686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	680.2	62.5°	182.9	199.7
684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	682.2	65°	179.8	201.0
687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	686.0	67.5°	174.5	204.8
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°	171.9	204.3
										70°	169.3	202.3
										72.5°	160.3	186.8
										75°	149.3	164.7
										77.5°	135.0	141.6
										80°	119.6	123.4
										82.5°	104.0	118.9
										85°	81.5	100.8
										87.5°	60.1	55.5
										90°	41.1	30.1
										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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0-LED-E1-T2-7027-ULG

**tinued):**

180°
619.1
562.9
471.1
409.8
399.4
407.1
422.7
434.3
433.1
408.5
365.8
321.2
283.1
270.7
255.3
272.1
279.8
254.0
221.1
206.3
202.3
212.0
208.8
206.3
202.3
199.1
198.4
199.7
197.1
193.9
174.5
157.0
141.6
124.8
105.3
78.8
60.1
26.2
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

(END OF F

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

Scaled Data Report

