

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: P271737

Luminaire Tested: **IST-AF-1000-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271737  
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-1000-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: 6966.2 lumens  
Efficiency: N/A  
Efficacy: 97.7 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): 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

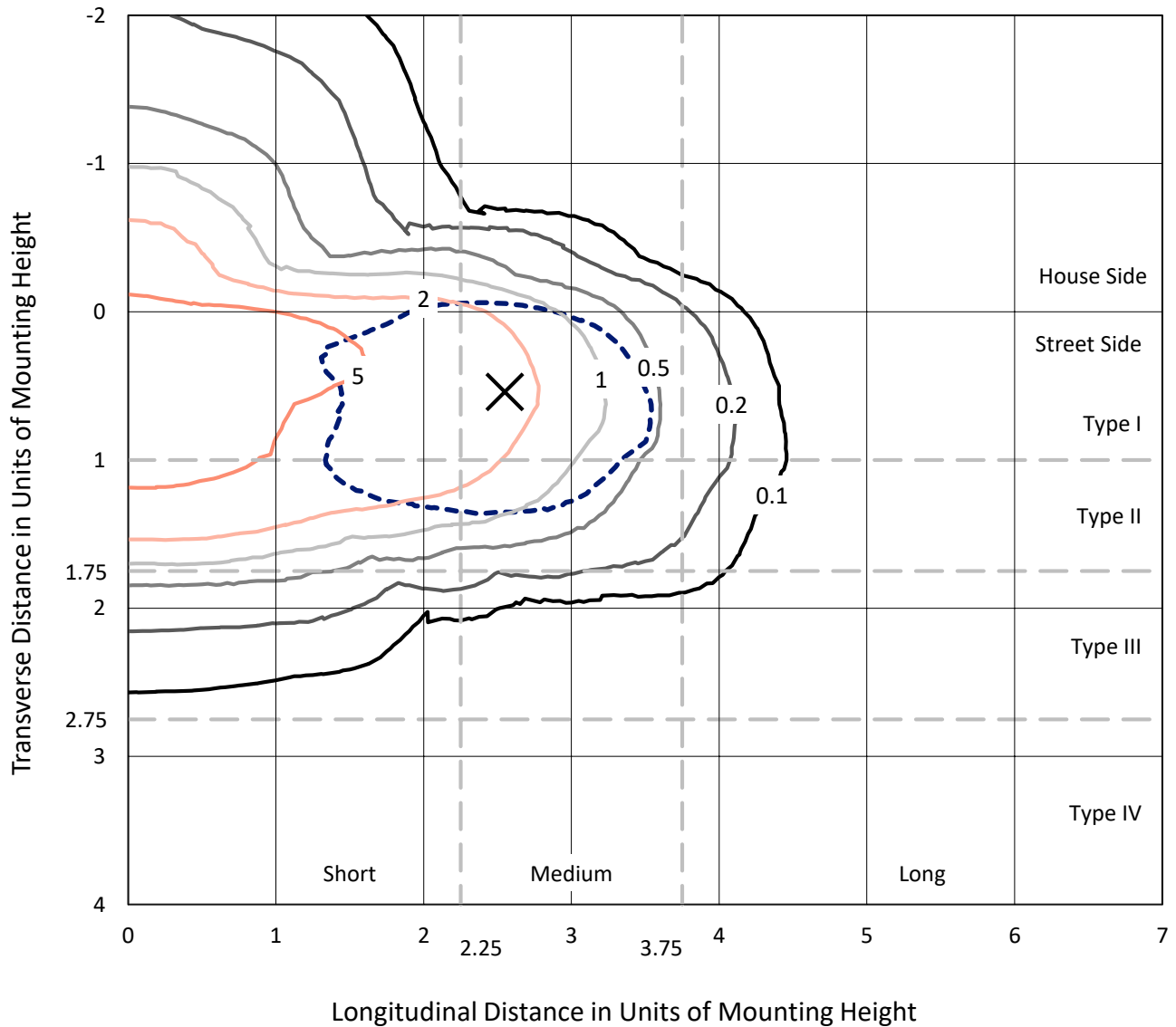


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

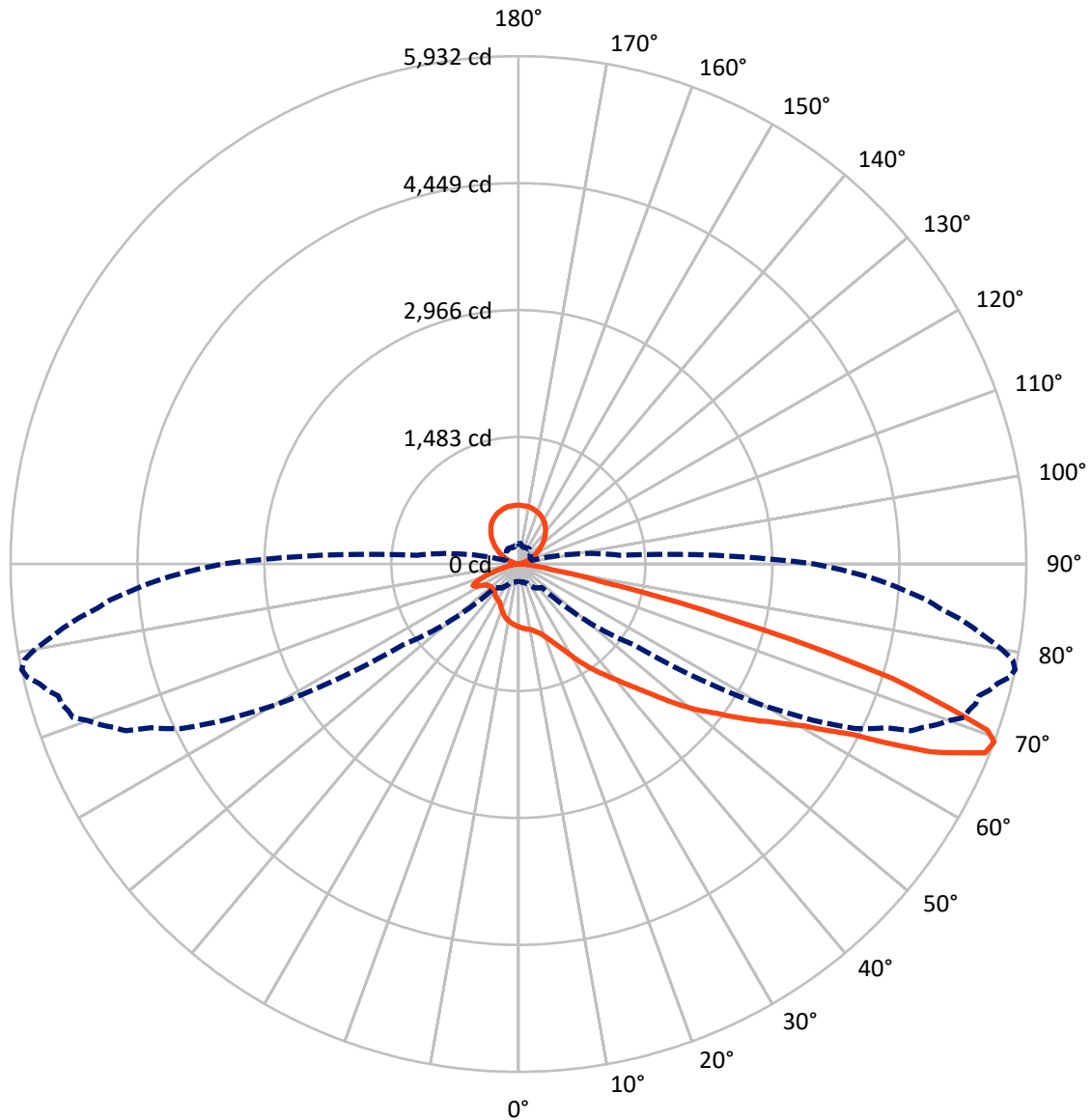


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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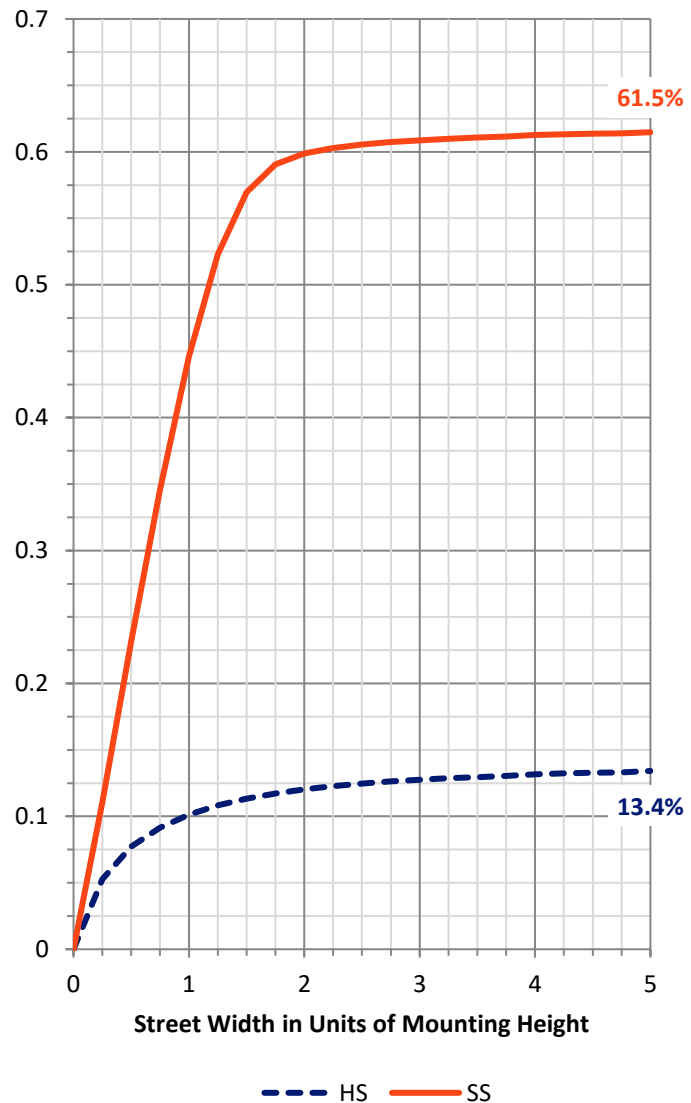
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	962.6	853.3	1816.0
	% Fixture	13.8	12.2	26.1
<b>Street Side</b>	Lumens	4297.9	852.3	5150.3
	% Fixture	61.7	12.2	73.9
<b>Total</b>	Lumens	5260.5	1705.7	6966.2
	% Fixture	75.5	24.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	1.0
10°-20°	205.2	2.9
20°-30°	367.9	5.3
30°-40°	600.5	8.6
40°-50°	888.2	12.7
50°-60°	1159.7	16.6
60°-70°	1297.0	18.6
70°-80°	582.3	8.4
80°-90°	91.8	1.3
90°-100°	11.8	0.2
100°-110°	56.3	0.8
110°-120°	163.0	2.3
120°-130°	268.1	3.8
130°-140°	330.6	4.7
140°-150°	338.2	4.9
150°-160°	284.9	4.1
160°-170°	187.6	2.7
170°-180°	65.0	0.9
0°-90°	5260.5	75.5
0°-180°	6966.2	100.0



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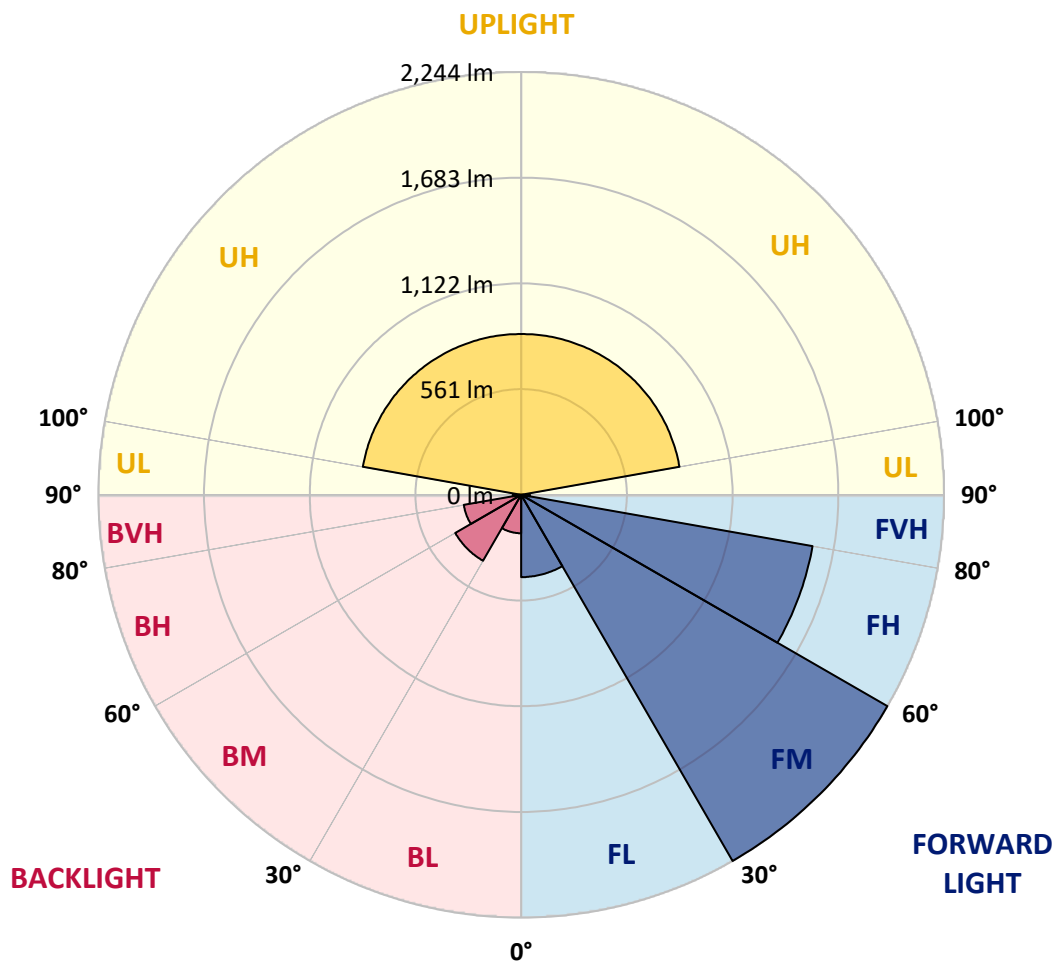
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.8	6.3			
FM (30°-60°)	2244.1	32.2			
FH (60°-80°)	1570.1	22.5			G1/1800
FVH (80°-90°)	46.9	0.7			G1/100
BL (0°-30°)	204.2	2.9	B1/500		
BM (30°-60°)	404.3	5.8	B1/1000		
BH (60°-80°)	309.2	4.4	B1/500		G1/500
BVH (80°-90°)	45.0	0.6			G1/100
UL (90°-100°)	11.8	0.2		U2/50	
UH (100°-180°)	853.3	12.2		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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	783.8	783.8	781.4	780.0	777.7	771.6	762.4	760.9	760.1	758.6	757.0
5°	841.0	835.0	836.5	832.7	824.3	813.5	796.8	788.4	783.8	783.1	780.0
7.5°	887.6	888.4	886.2	878.5	867.0	854.1	831.1	818.2	814.3	812.1	806.7
10°	921.3	919.0	917.5	915.9	906.7	896.1	867.0	851.1	847.9	841.8	835.7
12.5°	945.7	945.7	945.7	944.2	938.9	930.5	907.5	891.5	887.6	879.2	873.9
15°	972.4	969.5	966.4	964.0	964.8	964.8	948.0	935.8	929.7	925.1	914.5
17.5°	1029.7	1022.9	1016.1	1006.8	992.3	988.5	987.8	987.0	978.5	977.9	967.1
20°	1078.7	1072.6	1066.4	1057.2	1036.6	1014.5	1026.0	1036.6	1035.0	1035.8	1030.5
22.5°	1139.1	1134.4	1122.3	1111.6	1084.7	1058.0	1059.6	1082.5	1085.5	1088.6	1090.1
25°	1221.4	1219.2	1199.3	1178.8	1148.1	1122.9	1099.3	1127.6	1133.6	1140.5	1154.2
27.5°	1304.8	1299.4	1278.0	1259.7	1221.4	1194.7	1161.9	1177.2	1186.3	1199.3	1220.8
30°	1412.5	1397.9	1390.3	1349.1	1314.0	1275.0	1246.7	1251.2	1249.7	1265.0	1297.9
32.5°	1568.4	1545.4	1507.2	1465.9	1424.7	1372.7	1349.1	1348.3	1344.4	1362.0	1380.3
35°	1652.3	1647.0	1623.2	1582.1	1537.0	1488.1	1472.8	1458.3	1460.6	1469.8	1476.6
37.5°	1743.3	1738.7	1720.3	1697.3	1663.0	1689.7	1605.0	1583.6	1573.7	1569.1	1571.3
40°	1783.0	1786.8	1796.7	1800.6	1780.7	1909.0	1741.7	1671.5	1668.4	1661.4	1654.6
42.5°	1791.4	1801.3	1821.1	1864.7	1883.7	2163.4	1854.8	1770.0	1757.7	1752.4	1753.1
45°	1821.9	1837.2	1841.1	1880.7	1970.9	2176.3	1982.3	1857.1	1847.9	1847.2	1842.5
47.5°	1896.1	1916.6	1916.6	1934.2	2019.7	2201.6	2025.9	1944.1	1938.0	1934.9	1947.2
50°	1906.7	1934.2	1989.3	2045.7	2107.6	2222.1	2075.5	2038.8	2041.2	2048.0	2084.0
52.5°	1725.6	1753.1	1898.3	2064.8	2266.5	2278.7	2150.5	2164.9	2180.2	2213.9	2279.4
55°	1479.7	1499.5	1671.5	1938.0	2272.6	2493.3	2338.3	2378.8	2410.9	2420.8	2524.0
57.5°	1164.9	1192.5	1367.4	1713.4	2122.2	2554.5	2770.7	2789.1	2753.1	2785.9	2823.5
60°	631.0	627.9	871.6	1239.0	1806.0	2441.4	3187.7	3502.5	3510.1	3560.6	3500.2
62.5°	352.9	352.9	423.2	636.3	1161.9	2065.7	3388.0	4119.8	4215.3	4295.4	4471.9
65°	266.5	269.0	294.1	383.5	652.3	1304.0	3241.3	4330.5	4513.9	4698.0	5007.4
67.5°	221.5	221.5	239.8	285.8	407.9	592.1	2386.4	3907.4	4136.5	4356.6	4784.4
69°	205.5	206.3	220.1	251.3	341.4	385.0	1648.5	3313.1	3575.1	3879.9	4384.1
70°	197.9	195.7	208.6	234.5	309.4	304.1	1207.7	2880.8	3083.9	3357.3	3937.2
72.5°	175.7	173.5	180.3	200.1	243.7	216.9	492.7	1549.9	1856.3	2162.6	2624.8
75°	156.7	154.3	159.7	168.8	189.5	165.7	247.6	649.4	786.1	1016.1	1401.7
77.5°	138.2	133.7	138.2	144.4	149.0	123.8	168.1	300.2	368.2	452.3	638.7
80°	125.2	120.7	126.0	123.0	116.9	95.5	111.5	174.9	194.0	232.2	304.1
82.5°	89.4	88.7	119.9	123.8	93.2	69.5	79.4	112.3	125.2	132.1	160.3
85°	55.0	52.7	69.5	88.7	94.7	43.6	51.1	66.5	69.5	75.6	89.4
87.5°	28.3	29.0	37.4	45.8	61.8	26.1	30.5	39.0	39.0	39.0	44.3
90°	11.8	13.4	18.3	23.9	20.8	13.7	18.3	17.0	18.8	17.3	19.3
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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	757.8	755.6	752.4	753.2	751.7	749.4	750.2	749.4	750.2	748.6	747.1
5°	780.0	778.4	773.8	773.1	771.6	769.9	767.7	765.4	764.6	763.1	760.1
7.5°	805.2	800.6	798.2	795.2	791.4	785.3	784.5	781.4	779.2	777.7	773.8
10°	831.1	825.8	822.8	819.0	815.1	811.3	807.5	802.1	796.8	795.2	790.7
12.5°	870.1	863.2	857.2	851.1	847.2	840.4	835.0	828.1	822.8	820.4	812.8
15°	912.9	903.8	897.6	893.1	886.9	880.8	873.9	867.9	859.4	852.5	845.7
17.5°	963.3	954.9	950.2	942.0	934.2	927.4	922.0	914.5	907.5	895.3	889.2
20°	1029.7	1022.9	1017.5	1008.3	999.9	993.1	988.5	972.4	963.3	952.7	942.6
22.5°	1091.6	1092.4	1087.1	1080.9	1075.6	1066.4	1058.8	1047.3	1035.8	1022.9	1009.2
25°	1158.8	1164.9	1165.7	1164.2	1161.1	1150.5	1146.7	1135.2	1125.9	1104.6	1098.4
27.5°	1233.7	1240.6	1249.0	1259.7	1262.0	1250.5	1255.9	1244.4	1228.3	1219.2	1199.3
30°	1306.2	1325.4	1343.0	1355.1	1362.8	1368.2	1364.3	1360.6	1349.8	1334.5	1316.9
32.5°	1399.5	1419.3	1436.9	1463.7	1477.4	1494.2	1491.2	1492.6	1488.9	1473.6	1453.0
35°	1493.4	1510.9	1533.9	1551.6	1585.1	1603.5	1618.7	1617.9	1617.9	1608.8	1588.9
37.5°	1576.7	1586.7	1605.7	1634.7	1656.9	1686.0	1710.5	1720.3	1736.3	1737.1	1715.8
40°	1663.8	1673.7	1688.3	1709.7	1734.1	1768.4	1801.3	1833.4	1848.6	1864.7	1856.3
42.5°	1757.7	1768.4	1779.1	1792.8	1828.1	1854.8	1899.1	1942.7	1973.9	2006.8	2003.0
45°	1851.0	1863.2	1878.4	1899.1	1930.4	1973.9	2016.8	2065.7	2137.3	2176.3	2203.1
47.5°	1956.4	1976.2	2004.5	2037.4	2062.6	2107.6	2162.0	2237.5	2310.0	2377.3	2419.2
50°	2115.3	2123.0	2168.8	2200.8	2249.0	2294.8	2349.0	2415.5	2509.4	2578.1	2645.4
52.5°	2302.4	2331.4	2377.3	2413.9	2452.1	2498.0	2553.7	2613.3	2706.5	2783.7	2870.7
55°	2543.8	2585.1	2624.8	2644.7	2698.1	2739.4	2784.5	2843.2	2943.4	3027.4	3129.8
57.5°	2831.7	2873.0	2892.1	2921.2	2944.1	2990.0	3051.0	3090.8	3179.4	3266.5	3374.9
60°	3423.1	3397.1	3419.9	3374.9	3368.0	3371.9	3384.8	3415.4	3465.1	3546.1	3660.6
62.5°	4490.3	4452.8	4353.5	4317.6	4248.1	4154.1	4065.5	4053.3	4027.3	4088.5	4160.2
65°	5113.6	5249.5	5264.1	5302.2	5274.8	5201.5	5097.5	5063.9	4979.9	4921.1	4917.3
67.5°	4963.9	5167.8	5295.4	5456.7	5546.0	5633.0	5656.0	5685.7	5631.6	5604.7	5612.4
69°	4547.5	4698.9	4984.4	5094.5	5235.8	5351.9	5504.7	5531.4	5584.1	5591.8	5693.4
70°	4135.1	4357.3	4520.8	4685.8	4881.4	5008.9	5077.7	5190.8	5321.4	5385.6	5495.5
72.5°	2973.1	3045.7	3161.9	3375.7	3430.0	3562.0	3697.3	3793.5	3947.2	4055.6	4314.6
75°	1604.2	1647.7	1830.4	1951.7	1983.9	2027.5	2126.6	2150.5	2207.8	2242.9	2491.9
77.5°	732.6	799.0	822.8	889.2	851.8	870.1	893.7	888.4	904.4	980.9	1067.9
80°	337.7	350.6	359.8	387.3	388.9	382.7	385.0	381.2	378.2	390.3	399.6
82.5°	164.2	184.2	184.2	201.0	209.3	207.0	211.6	210.0	213.2	210.0	220.1
85°	96.3	96.3	103.9	113.1	111.5	114.5	114.5	120.7	121.5	123.0	123.0
87.5°	45.1	49.7	51.9	55.8	57.3	59.6	61.2	61.2	61.8	60.4	61.8
90°	20.3	20.3	27.9	27.9	29.5	31.7	28.7	30.3	35.6	28.7	34.0
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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	745.5	747.1	746.3	743.3	742.4	742.4	741.0	740.2	738.7	738.0	739.5
5°	759.3	759.3	757.0	753.9	750.9	750.2	749.4	745.5	744.1	742.4	741.0
7.5°	772.4	770.7	767.7	762.4	759.3	758.6	755.6	751.7	747.9	744.9	743.3
10°	786.1	784.5	778.4	774.6	768.5	767.7	762.4	757.8	753.9	750.2	747.1
12.5°	805.9	804.4	797.5	788.4	783.8	780.6	773.8	768.5	763.1	758.6	753.2
15°	836.5	830.3	825.8	816.6	809.7	803.6	795.2	787.5	780.0	772.4	767.7
17.5°	879.2	870.9	858.6	853.3	844.0	834.2	822.8	817.4	807.5	798.2	789.1
20°	935.0	926.6	907.5	900.6	887.6	873.2	864.0	852.5	844.0	829.7	819.6
22.5°	996.8	989.2	970.9	952.7	940.3	928.8	914.5	899.9	883.8	870.1	859.4
25°	1077.1	1065.7	1049.6	1031.3	1013.0	996.8	977.1	956.4	942.6	923.5	908.3
27.5°	1186.3	1166.4	1139.8	1119.8	1105.4	1080.9	1056.5	1038.1	1016.7	991.5	974.8
30°	1304.8	1282.6	1262.7	1239.8	1215.4	1191.7	1158.1	1131.3	1108.4	1081.6	1054.3
32.5°	1436.1	1417.1	1388.8	1359.0	1332.3	1302.5	1278.0	1249.7	1210.1	1181.8	1152.7
35°	1568.4	1546.2	1517.1	1491.9	1461.4	1430.8	1403.3	1365.9	1330.0	1289.4	1249.0
37.5°	1695.9	1676.8	1644.7	1606.5	1579.8	1546.9	1518.7	1478.9	1436.1	1391.0	1360.6
40°	1837.9	1807.4	1785.2	1740.9	1713.4	1676.8	1636.4	1605.7	1564.5	1515.6	1472.1
42.5°	2000.6	1979.2	1955.6	1919.7	1890.7	1847.2	1795.9	1756.9	1718.7	1660.8	1600.4
45°	2207.0	2193.2	2154.2	2125.2	2086.2	2040.4	1996.1	1948.7	1888.3	1821.1	1766.2
47.5°	2454.3	2443.7	2408.5	2367.3	2316.2	2254.3	2213.1	2148.0	2096.9	2012.9	1947.2
50°	2679.0	2684.3	2665.3	2601.9	2556.0	2494.1	2429.3	2372.7	2294.0	2207.0	2123.0
52.5°	2947.2	2941.8	2893.7	2858.6	2804.3	2729.4	2658.4	2585.8	2499.5	2409.3	2304.7
55°	3203.9	3219.9	3186.3	3136.6	3070.9	2966.2	2894.5	2800.5	2709.6	2610.3	2489.7
57.5°	3452.8	3504.1	3478.1	3419.3	3352.0	3276.4	3181.7	3076.2	2982.4	2852.5	2716.5
60°	3763.0	3831.0	3841.7	3803.5	3730.1	3642.3	3517.9	3435.3	3306.2	3186.3	3081.6
62.5°	4240.4	4394.8	4385.5	4403.9	4352.0	4297.7	4151.9	4063.2	3895.2	3808.8	3663.0
65°	5038.0	5151.8	5288.5	5284.0	5248.1	5118.3	4966.9	4818.8	4707.9	4537.6	4385.5
67.5°	5707.1	5801.2	5882.1	5840.2	5757.6	5611.7	5434.5	5228.1	5059.3	4871.5	4672.1
69°	5769.8	5884.3	5931.8	5879.8	5731.5	5541.4	5368.0	5176.2	4944.0	4782.8	4539.9
70°	5601.7	5714.7	5810.2	5676.6	5540.7	5355.0	5165.5	4966.2	4758.4	4584.9	4339.7
72.5°	4449.8	4577.3	4564.4	4549.8	4441.4	4255.7	4081.6	3974.6	3828.7	3619.5	3442.1
75°	2587.4	2646.1	2543.0	2651.5	2521.6	2334.5	2358.9	2238.3	2131.3	2010.6	1917.4
77.5°	1016.1	1067.9	1013.6	996.1	938.1	925.1	828.1	839.6	791.4	696.6	653.2
80°	385.0	391.9	382.7	363.6	359.8	337.7	331.6	310.2	300.2	269.0	257.5
82.5°	207.0	210.8	204.7	198.6	194.0	181.1	172.7	156.7	147.4	137.5	136.7
85°	119.1	116.2	113.1	110.0	103.1	95.5	89.4	83.3	76.4	71.1	65.7
87.5°	62.6	63.4	64.2	61.2	56.5	50.5	46.6	44.3	39.0	36.7	34.3
90°	29.3	23.7	25.8	30.3	28.5	24.4	23.4	21.0	18.5	18.3	16.0
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°
731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	110°	114.3
737.1	737.1	734.8	733.4	728.0	718.8	709.8	701.3	689.8	685.2	679.1	112.5°	144.3
739.5	738.0	735.6	732.6	721.9	700.5	678.3	654.7	630.3	608.1	582.1	115°	174.1
741.0	738.0	734.8	731.1	715.8	682.9	638.7	592.1	548.4	515.6	502.0	117.5°	204.5
741.8	739.5	735.6	730.3	708.9	660.1	589.0	521.7	483.6	470.5	468.3	120°	238.5
750.2	746.3	740.2	734.2	705.9	634.8	533.2	469.1	453.7	459.8	470.5	122.5°	271.3
760.9	756.2	748.6	742.4	704.3	602.0	479.0	439.2	444.6	461.4	479.0	125°	304.3
780.0	772.4	763.9	757.8	707.3	561.5	435.4	424.0	440.0	461.4	485.1	127.5°	339.4
808.3	797.5	787.5	776.9	712.0	511.0	409.4	414.1	433.2	456.1	482.0	130°	372.3
843.4	831.1	817.4	801.4	717.3	467.5	395.0	403.4	420.9	440.8	462.2	132.5°	406.8
890.7	873.9	856.4	836.5	724.9	420.1	382.0	391.1	401.8	413.3	424.0	135°	442.1
950.2	927.4	908.3	881.6	732.6	388.1	371.3	374.3	376.6	378.2	377.4	137.5°	472.5
1029.7	994.6	972.4	939.5	741.0	371.3	359.1	355.2	351.3	346.0	340.0	140°	500.4
1113.8	1084.7	1049.6	1007.6	746.3	359.8	347.6	335.3	324.6	319.3	319.3	142.5°	524.9
1211.5	1175.6	1131.3	1078.7	739.5	347.6	332.4	316.2	310.2	317.0	314.8	145°	548.4
1309.3	1259.7	1210.7	1150.5	722.7	333.8	315.5	307.1	311.7	302.5	297.2	147.5°	573.0
1417.1	1362.0	1294.1	1223.9	698.3	319.3	307.1	311.7	295.6	284.9	289.5	150°	596.4
1537.8	1472.8	1399.5	1304.0	682.2	310.2	294.1	297.9	284.1	276.6	274.3	152.5°	613.5
1702.0	1609.5	1520.2	1407.8	694.4	295.6	269.0	284.1	276.6	269.6	263.6	155°	627.4
1863.2	1764.6	1659.2	1527.1	715.8	284.9	249.0	269.6	275.0	263.6	252.1	157.5°	640.0
2025.0	1920.5	1797.5	1650.1	741.8	278.0	233.8	252.1	271.2	257.5	248.3	160°	650.1
2195.5	2063.2	1937.3	1778.4	775.3	271.2	221.5	236.8	264.3	257.5	243.7	162.5°	658.0
2374.2	2218.4	2092.3	1920.5	834.2	261.2	206.3	224.6	257.5	256.6	239.1	165°	667.0
2582.0	2443.0	2281.1	2106.1	915.9	249.8	192.5	215.4	251.3	253.6	233.8	167.5°	677.6
2935.8	2792.1	2596.6	2429.9	1077.9	234.5	184.2	206.3	241.4	247.6	229.2	170°	685.0
3509.4	3313.8	3134.4	2978.5	1355.1	213.2	178.0	196.3	230.8	239.8	225.4	172.5°	685.0
4167.1	3976.2	3759.1	3497.2	1509.5	193.2	169.6	184.2	220.1	232.2	221.5	175°	683.1
4446.7	4196.9	3933.4	3622.4	1362.0	177.2	160.3	172.7	207.8	221.5	216.2	177.5°	686.7
4318.4	4065.5	3759.1	3454.4	1184.9	168.8	155.0	166.5	198.6	214.7	210.8	180°	687.0
4095.4	3841.0	3567.5	3201.5	1058.0	164.2	151.3	162.8	194.8	210.8	207.8		
3239.0	3012.1	2760.0	2481.2	721.1	149.0	139.1	151.3	179.5	197.1	196.3		
1716.5	1650.1	1463.7	1300.2	373.5	132.9	126.0	138.2	165.7	184.2	184.2		
618.0	560.7	536.3	445.4	198.6	116.2	113.1	122.2	150.5	168.1	167.4		
233.8	227.6	203.9	191.0	126.0	94.7	95.5	104.7	132.1	149.0	148.2		
132.1	119.9	116.2	112.3	80.2	74.9	78.7	87.9	113.1	127.6	129.9		
63.4	58.7	57.3	53.4	52.7	57.3	61.8	69.5	90.1	107.7	105.4		
30.5	29.0	28.3	27.5	37.4	36.7	45.1	48.1	60.4	85.6	77.2		
16.8	16.8	16.0	14.6	17.6	21.1	23.4	27.5	32.1	57.5	48.4		
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-1000-LED-E1-T2-7027-ULG

REPORT NUMBER: P271737  
 CATALOG NUMBER: IST-AF-10

**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°	731.8	731.8
144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	118.8	2.5°	673.8	663.1
174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	156.0	5°	563.0	561.5
204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	193.3	7.5°	493.5	483.6
238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	228.7	10°	470.5	469.8
271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	262.0	12.5°	480.5	482.7
304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	293.5	15°	493.5	498.1
339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	326.8	17.5°	502.0	510.2
372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	359.2	20°	499.5	509.5
406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	393.5	22.5°	474.3	479.0
442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	424.0	25°	429.3	430.8
472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	451.5	27.5°	375.1	373.5
500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	480.0	30°	336.9	326.9
525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	508.4	32.5°	319.3	313.1
548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	536.8	35°	307.1	297.2
573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	563.3	37.5°	318.6	317.8
597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	582.0	40°	329.3	327.7
614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	597.7	42.5°	310.9	297.2
627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	615.4	45°	277.3	261.2
640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	632.0	47.5°	254.4	245.1
651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	643.8	50°	243.7	240.7
659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	652.7	52.5°	240.7	248.3
667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	663.5	55°	239.1	247.6
678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	673.3	57.5°	228.3	242.9
686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	679.2	60°	220.7	238.3
686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	680.2	62.5°	216.2	236.1
684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	682.2	65°	212.4	237.6
687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	686.0	67.5°	206.3	242.1
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°	203.2	241.4
										70°	200.1	239.1
										72.5°	189.5	220.7
										75°	176.4	194.8
										77.5°	159.7	167.4
										80°	141.3	146.0
										82.5°	123.0	140.6
										85°	96.3	119.1
										87.5°	71.1	65.7
										90°	47.4	34.8
										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



REPORT NUMBER: P271737

CATALOG NUMBER: IST-AF-1000-LED-E1

00-LED-E1-T2-7027-ULG

**tinued):**

180°
731.8
665.4
556.9
484.4
472.1
481.2
499.5
513.3
511.9
482.7
432.4
379.6
334.6
320.1
301.7
321.6
330.8
300.2
261.2
243.7
239.1
250.5
246.8
243.7
239.1
235.3
234.5
236.1
233.0
229.2
206.3
185.6
167.4
147.4
124.5
93.2
71.1
30.1
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

