

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: P271747

Luminaire Tested: **IST-AF-1200-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271747  
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-1200-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: 7692.3 lumens  
Efficiency: N/A  
Efficacy: 93.0 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): 82.7  
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

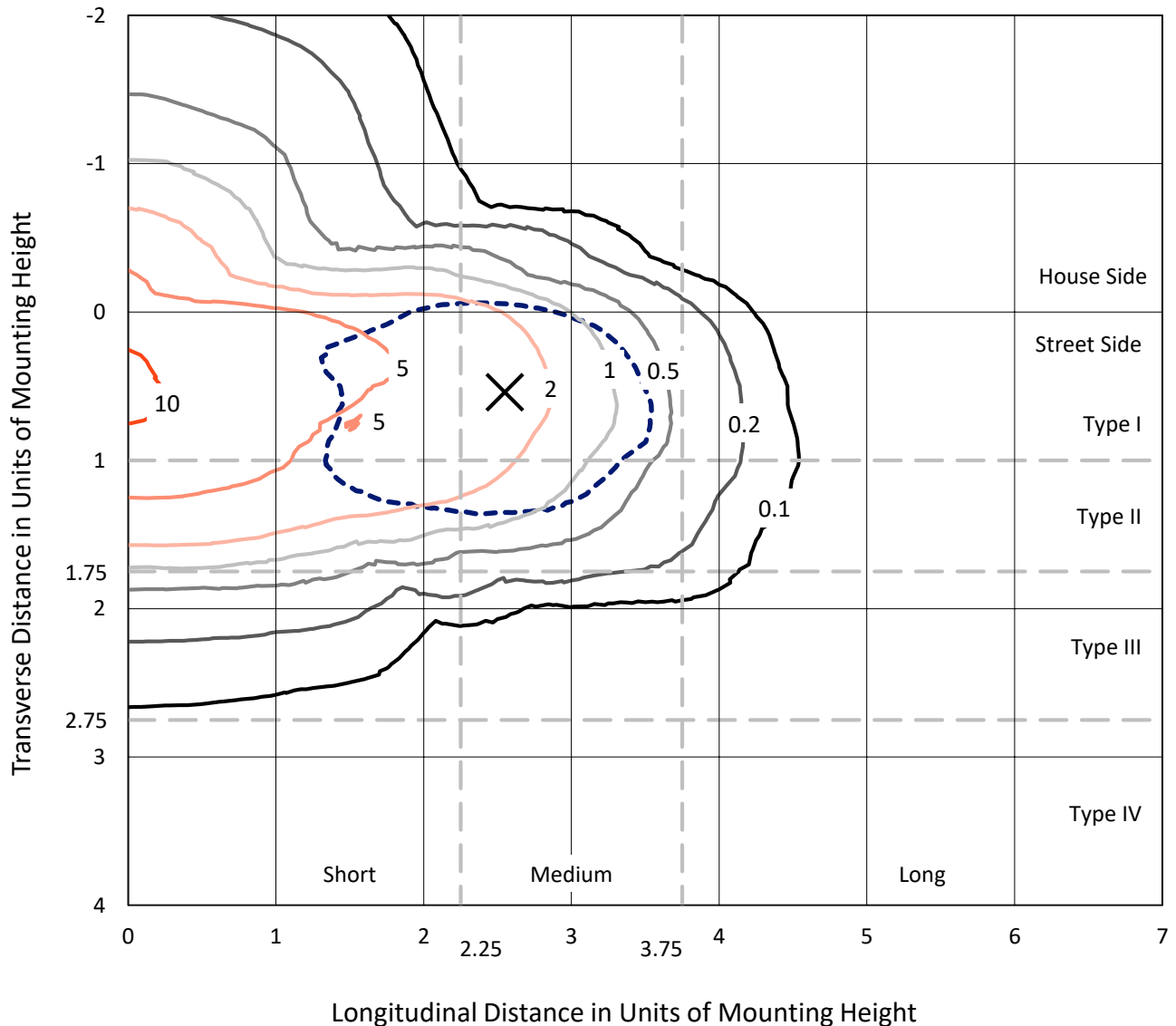


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

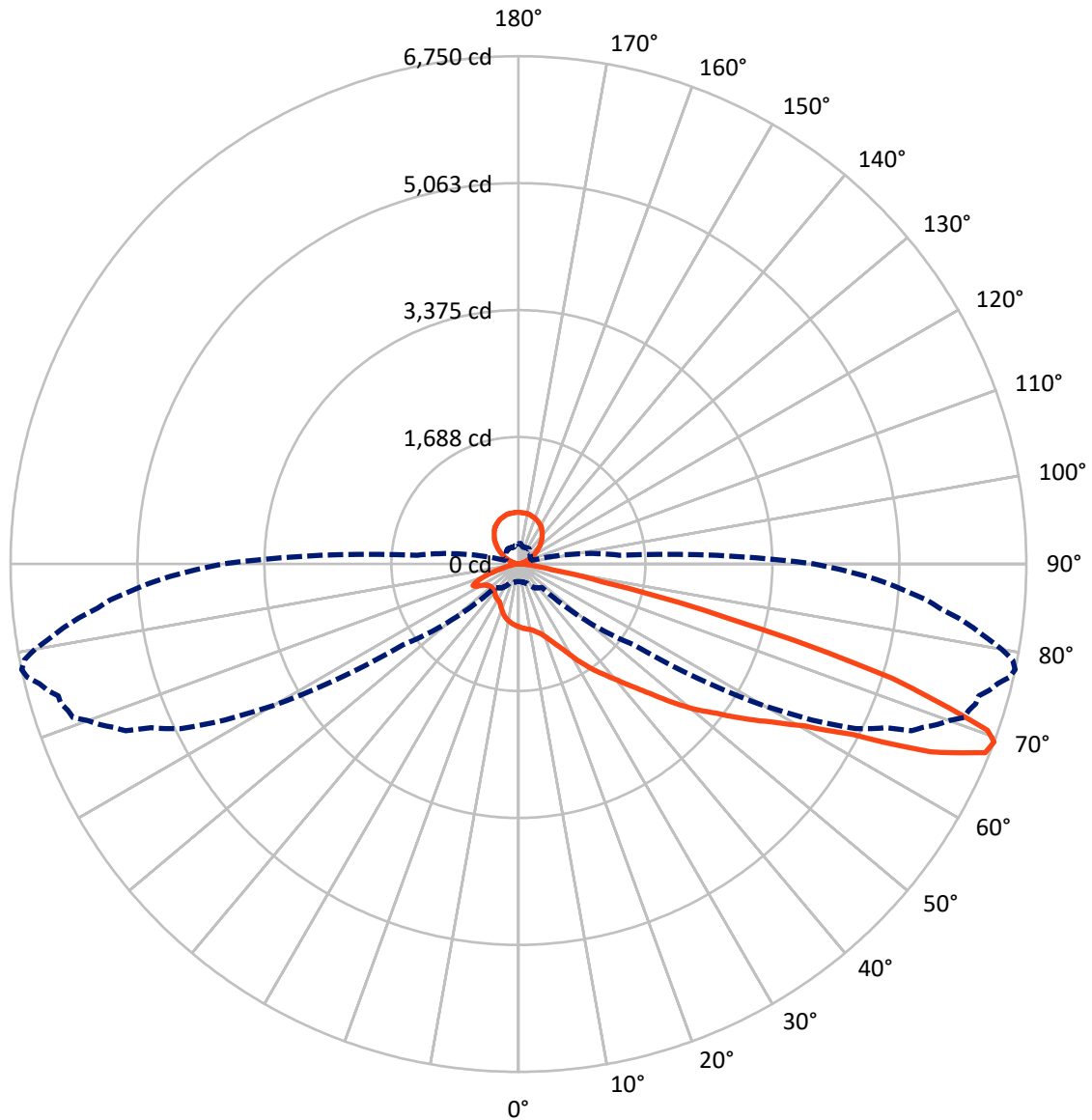


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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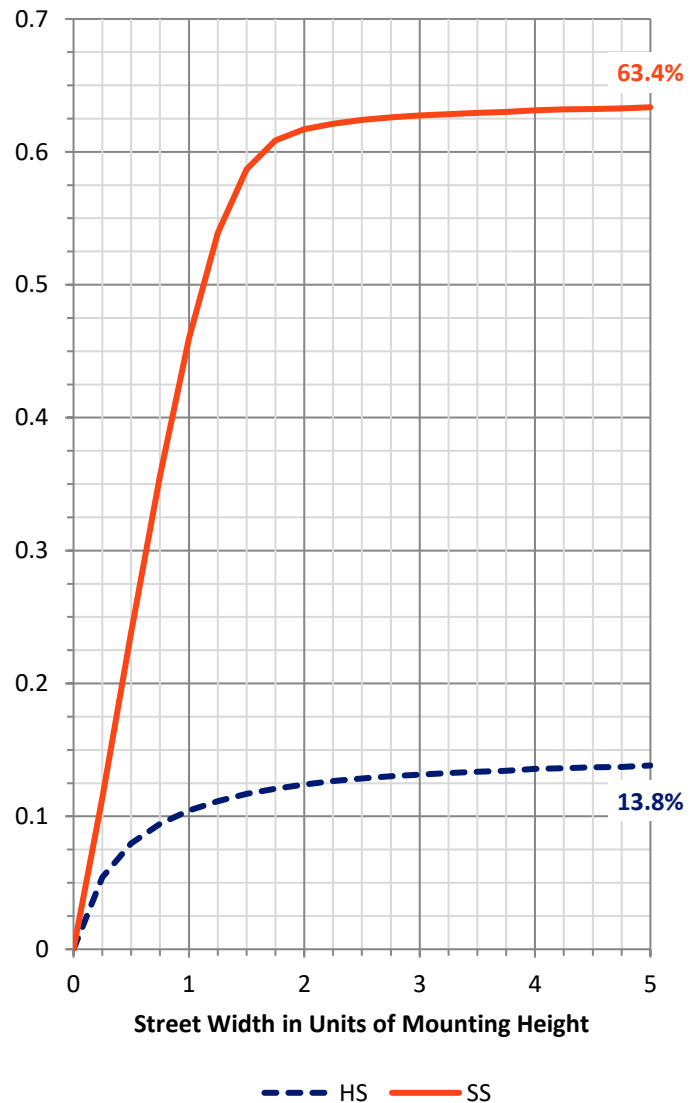
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1095.4	853.6	1949.0
	% Fixture	14.2	11.1	25.3
<b>Street Side</b>	Lumens	4890.8	852.5	5743.3
	% Fixture	63.6	11.1	74.7
<b>Total</b>	Lumens	5986.2	1706.1	7692.3
	% Fixture	77.8	22.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	1.0
10°-20°	233.5	3.0
20°-30°	418.6	5.4
30°-40°	683.3	8.9
40°-50°	1010.7	13.1
50°-60°	1319.7	17.2
60°-70°	1476.0	19.2
70°-80°	662.6	8.6
80°-90°	104.3	1.4
90°-100°	12.1	0.2
100°-110°	56.3	0.7
110°-120°	163.0	2.1
120°-130°	268.1	3.5
130°-140°	330.6	4.3
140°-150°	338.2	4.4
150°-160°	284.9	3.7
160°-170°	187.6	2.4
170°-180°	65.0	0.8
0°-90°	5986.2	77.8
0°-180°	7692.3	100.0



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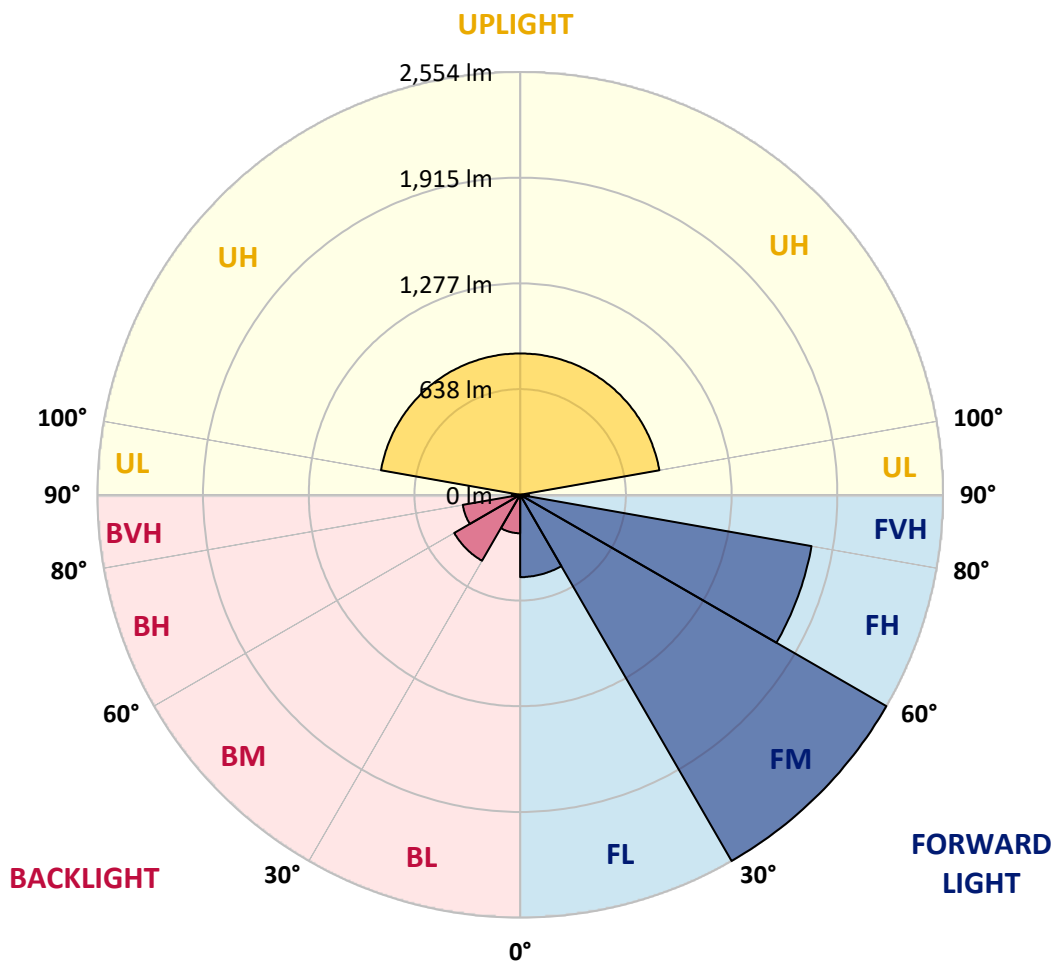
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.1	6.5			
FM	(30°-60°)	2553.8	33.2			
FH	(60°-80°)	1786.7	23.2			G1/1800
FVH	(80°-90°)	53.3	0.7			G1/100
BL	(0°-30°)	232.4	3.0	B1/500		
BM	(30°-60°)	460.0	6.0	B1/1000		
BH	(60°-80°)	351.9	4.6	B1/500		G1/500
BVH	(80°-90°)	51.1	0.7			G1/100
UL	(90°-100°)	12.1	0.2		U2/50	
UH	(100°-180°)	853.6	11.1		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°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	891.8	891.8	889.3	887.5	885.0	878.0	867.5	865.9	865.0	863.2	861.5
5°	957.1	950.1	951.9	947.5	938.0	925.8	906.7	897.1	891.8	891.1	887.5
7.5°	1010.1	1011.0	1008.3	999.7	986.7	971.9	945.8	931.0	926.7	924.1	918.0
10°	1048.4	1045.8	1044.0	1042.3	1031.8	1019.7	986.7	968.5	964.9	958.0	951.0
12.5°	1076.2	1076.2	1076.2	1074.5	1068.4	1058.8	1032.7	1014.5	1010.1	1000.6	994.5
15°	1106.6	1103.2	1099.6	1097.1	1098.0	1098.0	1078.9	1064.9	1057.9	1052.7	1040.6
17.5°	1171.7	1164.0	1156.2	1145.8	1129.2	1124.9	1124.0	1123.2	1113.6	1112.7	1100.5
20°	1227.4	1220.4	1213.6	1203.1	1179.7	1154.4	1167.4	1179.7	1177.9	1178.8	1172.6
22.5°	1296.2	1291.0	1277.0	1264.8	1234.5	1204.0	1205.7	1231.8	1235.3	1238.8	1240.5
25°	1390.0	1387.4	1364.9	1341.3	1306.6	1277.9	1250.9	1283.0	1290.1	1297.9	1313.5
27.5°	1484.8	1478.7	1454.4	1433.4	1390.0	1359.7	1322.2	1339.6	1350.1	1364.9	1389.2
30°	1607.3	1590.9	1582.2	1535.2	1495.2	1450.9	1418.7	1423.9	1422.2	1439.5	1476.9
32.5°	1784.8	1758.6	1715.1	1668.2	1621.4	1562.2	1535.2	1534.3	1530.0	1549.9	1570.9
35°	1880.3	1874.2	1847.3	1800.3	1749.1	1693.5	1676.1	1659.5	1662.1	1672.6	1680.4
37.5°	1983.7	1978.6	1957.7	1931.6	1892.5	1922.9	1826.4	1802.1	1790.8	1785.7	1788.2
40°	2029.0	2033.3	2044.6	2048.9	2026.4	2172.4	1982.0	1902.0	1898.6	1890.8	1882.9
42.5°	2038.5	2049.8	2072.4	2122.0	2143.7	2461.9	2110.7	2014.2	2000.3	1994.1	1995.0
45°	2073.3	2090.6	2095.0	2140.2	2242.8	2476.6	2255.8	2113.4	2102.8	2102.0	2096.7
47.5°	2157.5	2181.2	2181.2	2201.0	2298.4	2505.4	2305.4	2212.3	2205.5	2201.9	2215.8
50°	2169.8	2201.0	2263.7	2328.0	2398.5	2528.8	2361.9	2320.2	2322.7	2330.7	2371.4
52.5°	1963.8	1995.0	2160.2	2349.8	2579.2	2593.1	2447.2	2463.6	2481.0	2519.3	2594.0
55°	1683.9	1706.5	1902.0	2205.5	2586.2	2837.5	2661.0	2707.0	2743.5	2754.8	2872.2
57.5°	1325.7	1357.0	1556.0	1950.0	2414.9	2906.9	3153.1	3173.8	3133.0	3170.4	3213.0
60°	718.0	714.6	991.9	1410.0	2055.1	2778.3	3627.6	3985.8	3994.4	4051.9	3983.2
62.5°	401.6	401.6	481.6	724.1	1322.2	2350.7	3855.3	4688.2	4796.9	4888.1	5089.0
65°	303.4	306.1	334.7	436.4	742.4	1483.9	3688.5	4928.1	5136.8	5346.3	5698.3
67.5°	252.2	252.2	272.9	325.2	464.2	673.7	2715.8	4446.5	4707.3	4957.7	5444.4
69°	233.9	234.6	250.4	286.0	388.6	438.1	1876.0	3770.2	4068.3	4415.2	4989.0
70°	225.1	222.5	237.3	266.9	352.0	345.9	1374.4	3278.2	3509.4	3820.6	4480.5
72.5°	200.0	197.4	205.2	227.8	277.3	246.9	560.7	1763.8	2112.5	2461.1	2987.0
75°	178.2	175.6	181.6	192.1	215.6	188.6	281.7	738.9	894.5	1156.2	1595.2
77.5°	157.3	152.2	157.3	164.3	169.5	140.9	191.2	341.6	419.0	514.5	726.8
80°	142.7	137.4	143.4	140.0	132.9	108.7	126.9	199.1	220.8	264.3	345.9
82.5°	101.7	100.8	136.5	140.9	106.1	79.1	90.4	127.8	142.7	150.4	182.5
85°	62.6	60.0	79.1	100.8	107.8	49.6	58.2	75.6	79.1	86.1	101.7
87.5°	32.2	33.1	42.6	52.1	70.3	29.6	34.8	44.4	44.4	44.4	50.5
90°	12.8	14.5	19.9	26.1	22.6	14.7	19.9	18.2	20.2	18.7	20.8
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°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	862.4	859.8	856.3	857.2	855.4	852.9	853.7	852.9	853.7	852.0	850.2
5°	887.5	885.8	880.6	879.7	878.0	876.3	873.6	871.1	870.2	868.4	865.0
7.5°	916.2	911.0	908.5	905.0	900.6	893.6	892.7	889.3	886.6	885.0	880.6
10°	945.8	939.8	936.2	931.9	927.6	923.2	918.9	912.8	906.7	905.0	899.7
12.5°	990.1	982.4	975.4	968.5	964.2	956.2	950.1	942.3	936.2	933.7	925.0
15°	1038.8	1028.4	1021.5	1016.3	1009.2	1002.3	994.5	987.6	978.0	970.2	962.4
17.5°	1096.2	1086.6	1081.4	1071.9	1063.1	1055.4	1049.3	1040.6	1032.7	1018.9	1011.9
20°	1171.7	1164.0	1157.9	1147.5	1138.0	1130.1	1124.9	1106.6	1096.2	1084.1	1072.8
22.5°	1242.3	1243.2	1237.1	1230.0	1224.0	1213.6	1204.9	1191.8	1178.8	1164.0	1148.3
25°	1318.7	1325.7	1326.5	1324.8	1321.4	1309.2	1304.9	1291.9	1281.3	1257.0	1250.1
27.5°	1403.9	1411.8	1421.3	1433.4	1436.1	1423.1	1429.1	1416.1	1397.9	1387.4	1364.9
30°	1486.5	1508.3	1528.3	1542.2	1550.8	1556.9	1552.6	1548.3	1536.1	1518.7	1498.7
32.5°	1592.5	1615.2	1635.2	1665.5	1681.3	1700.4	1696.9	1698.7	1694.3	1676.9	1653.4
35°	1699.5	1719.4	1745.6	1765.6	1803.9	1824.6	1842.1	1841.2	1841.2	1830.7	1808.2
37.5°	1794.3	1805.5	1827.3	1860.3	1885.5	1918.6	1946.4	1957.7	1975.9	1976.8	1952.5
40°	1893.4	1904.7	1921.1	1945.5	1973.4	2012.5	2049.8	2086.3	2103.7	2122.0	2112.5
42.5°	2000.3	2012.5	2024.6	2040.3	2080.3	2110.7	2161.1	2210.7	2246.3	2283.7	2279.3
45°	2106.3	2120.3	2137.7	2161.1	2196.7	2246.3	2295.0	2350.7	2432.3	2476.6	2507.1
47.5°	2226.3	2248.9	2281.1	2318.4	2347.1	2398.5	2460.2	2546.2	2628.8	2705.2	2753.0
50°	2407.1	2415.8	2467.9	2504.5	2559.2	2611.5	2673.2	2748.7	2855.7	2934.0	3010.4
52.5°	2620.1	2653.1	2705.2	2746.9	2790.5	2842.7	2906.1	2973.9	3080.0	3167.7	3266.9
55°	2894.8	2941.7	2987.0	3009.5	3070.4	3117.4	3168.6	3235.5	3349.4	3445.1	3561.6
57.5°	3222.5	3269.5	3291.2	3324.3	3350.3	3402.5	3471.9	3517.2	3618.0	3717.2	3840.6
60°	3895.4	3865.9	3891.9	3840.6	3832.8	3837.1	3851.9	3886.7	3943.2	4035.4	4165.7
62.5°	5109.8	5067.2	4954.2	4913.3	4834.2	4727.3	4626.5	4612.5	4583.1	4652.5	4734.2
65°	5819.2	5973.9	5990.3	6033.8	6002.6	5919.1	5801.0	5762.6	5667.0	5600.1	5595.7
67.5°	5648.8	5880.8	6026.1	6209.4	6311.2	6410.2	6436.4	6470.3	6408.6	6378.1	6386.8
69°	5175.0	5347.1	5672.3	5797.4	5958.3	6090.4	6264.2	6294.6	6354.7	6363.3	6478.9
70°	4705.6	4958.6	5144.5	5332.4	5554.8	5700.0	5778.3	5907.0	6055.7	6128.7	6253.8
72.5°	3383.4	3465.9	3598.1	3841.5	3903.1	4053.6	4207.4	4317.0	4491.7	4615.1	4909.9
75°	1825.5	1875.1	2082.9	2221.1	2257.6	2307.2	2420.1	2447.2	2512.3	2552.4	2835.7
77.5°	833.6	909.4	936.2	1011.9	969.3	990.1	1017.2	1011.0	1029.3	1116.2	1215.2
80°	384.3	398.9	409.4	440.8	442.4	435.5	438.1	433.8	430.3	444.2	454.6
82.5°	186.8	209.6	209.6	228.6	238.2	235.5	240.7	239.1	242.5	239.1	250.4
85°	109.5	109.5	118.3	128.6	126.9	130.4	130.4	137.4	138.2	140.0	140.0
87.5°	51.3	56.5	59.1	63.5	65.1	67.8	69.6	69.6	70.3	68.7	70.3
90°	21.9	21.9	30.5	30.5	32.2	34.9	31.4	33.1	39.3	31.4	37.5
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°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	848.4	850.2	849.3	845.8	844.9	844.9	843.1	842.4	840.6	839.7	841.5
5°	864.1	864.1	861.5	858.0	854.6	853.7	852.9	848.4	846.7	844.9	843.1
7.5°	878.9	877.1	873.6	867.5	864.1	863.2	859.8	855.4	851.1	847.6	845.8
10°	894.5	892.7	885.8	881.5	874.5	873.6	867.5	862.4	858.0	853.7	850.2
12.5°	917.1	915.5	907.6	897.1	891.8	888.4	880.6	874.5	868.4	863.2	857.2
15°	951.9	944.9	939.8	929.3	921.5	914.6	905.0	896.3	887.5	878.9	873.6
17.5°	1000.6	991.0	977.1	971.0	960.6	949.3	936.2	930.1	918.9	908.5	897.9
20°	1064.0	1054.5	1032.7	1025.0	1010.1	993.6	983.1	970.2	960.6	944.1	932.8
22.5°	1134.5	1125.8	1104.8	1084.1	1070.2	1057.0	1040.6	1024.1	1005.8	990.1	978.0
25°	1225.7	1212.7	1194.5	1173.5	1152.7	1134.5	1111.8	1088.4	1072.8	1050.9	1033.6
27.5°	1350.1	1327.4	1297.1	1274.4	1257.9	1230.0	1202.2	1181.5	1157.1	1128.5	1109.2
30°	1484.8	1459.6	1437.0	1410.9	1383.1	1356.1	1317.8	1287.5	1261.4	1230.9	1199.7
32.5°	1634.3	1612.5	1580.4	1546.5	1516.1	1482.1	1454.4	1422.2	1377.0	1344.9	1311.7
35°	1784.8	1759.5	1726.5	1697.8	1663.0	1628.2	1597.0	1554.3	1513.5	1467.4	1421.3
37.5°	1929.9	1908.1	1871.6	1828.2	1797.8	1760.4	1728.2	1683.0	1634.3	1583.0	1548.3
40°	2091.5	2056.8	2031.6	1981.1	1950.0	1908.1	1862.1	1827.3	1780.4	1724.7	1675.2
42.5°	2276.8	2252.4	2225.4	2184.6	2151.5	2102.0	2043.7	1999.4	1956.0	1889.9	1821.2
45°	2511.4	2495.9	2451.5	2418.5	2374.1	2321.8	2271.5	2217.6	2148.9	2072.4	2009.9
47.5°	2793.1	2781.0	2740.9	2693.9	2635.8	2565.3	2518.4	2444.5	2386.3	2290.7	2215.8
50°	3048.7	3054.8	3032.9	2960.8	2908.7	2838.3	2764.4	2700.0	2610.6	2511.4	2415.8
52.5°	3353.8	3347.7	3293.0	3252.9	3191.2	3106.0	3025.2	2942.6	2844.3	2741.8	2622.7
55°	3646.0	3664.2	3625.9	3569.3	3494.7	3375.5	3293.8	3186.8	3083.4	2970.4	2833.1
57.5°	3929.3	3987.6	3957.9	3891.0	3814.6	3728.4	3620.7	3500.8	3393.8	3245.9	3091.2
60°	4282.2	4359.6	4371.7	4328.3	4244.9	4144.9	4003.2	3909.2	3762.4	3625.9	3506.8
62.5°	4825.5	5001.1	4990.7	5011.6	4952.4	4890.7	4724.6	4623.8	4432.6	4334.4	4168.3
65°	5733.2	5862.6	6018.3	6013.1	5972.1	5824.4	5652.2	5483.6	5357.5	5163.6	4990.7
67.5°	6494.7	6601.6	6693.7	6645.9	6552.0	6385.9	6184.3	5949.6	5757.5	5543.6	5316.7
69°	6565.9	6696.2	6750.2	6691.0	6522.4	6306.0	6108.7	5890.5	5626.2	5442.7	5166.3
70°	6374.6	6503.3	6612.0	6459.8	6305.1	6093.8	5878.3	5651.3	5414.9	5217.5	4938.5
72.5°	5063.7	5208.9	5194.1	5177.7	5054.1	4842.9	4644.8	4523.1	4357.0	4118.8	3917.1
75°	2944.4	3011.3	2893.9	3017.4	2869.5	2656.6	2684.5	2547.1	2425.3	2288.1	2181.9
77.5°	1156.2	1215.2	1153.5	1133.6	1067.5	1052.7	942.3	955.3	900.6	792.8	743.3
80°	438.1	446.0	435.5	413.8	409.4	384.3	377.3	352.9	341.6	306.1	292.9
82.5°	235.5	239.9	233.0	226.0	220.8	206.0	196.5	178.2	167.7	156.5	155.6
85°	135.6	132.1	128.6	125.1	117.4	108.7	101.7	94.7	87.0	80.8	74.8
87.5°	71.2	72.1	73.0	69.6	64.3	57.4	53.0	50.5	44.4	41.7	39.2
90°	32.1	25.8	28.3	33.2	31.4	26.8	25.7	22.9	20.1	19.9	17.2
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°
832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	110°	114.3
838.8	838.8	836.3	834.5	828.5	818.1	807.6	798.1	785.0	779.8	772.8	112.5°	144.3
841.5	839.7	837.1	833.6	821.5	797.2	771.9	745.1	717.2	692.0	662.4	115°	174.1
843.1	839.7	836.3	831.9	814.5	777.1	726.8	673.7	624.1	586.9	571.1	117.5°	204.5
844.0	841.5	837.1	831.0	806.7	751.2	670.2	593.7	550.3	535.5	532.9	120°	238.5
853.7	849.3	842.4	835.4	803.3	722.3	606.7	533.8	516.3	523.4	535.5	122.5°	271.3
865.9	860.7	852.0	844.9	801.5	685.0	545.0	499.9	505.9	525.1	545.0	125°	304.3
887.5	878.9	869.3	862.4	805.0	639.0	495.5	482.5	500.7	525.1	552.0	127.5°	339.4
919.8	907.6	896.3	884.1	810.2	581.6	466.0	471.3	492.9	519.0	548.5	130°	372.3
959.7	945.8	930.1	911.9	816.3	532.1	449.4	459.0	479.0	501.6	526.0	132.5°	406.8
1013.6	994.5	974.5	951.9	824.9	478.1	434.7	445.1	457.2	470.4	482.5	135°	442.1
1081.4	1055.4	1033.6	1003.1	833.6	441.6	422.6	426.0	428.6	430.3	429.4	137.5°	472.5
1171.7	1131.9	1106.6	1069.3	843.1	422.6	408.5	404.2	399.8	393.7	386.8	140°	500.4
1267.5	1234.5	1194.5	1146.7	849.3	409.4	395.5	381.6	369.5	363.4	363.4	142.5°	524.9
1378.7	1337.8	1287.5	1227.4	841.5	395.5	378.2	360.0	352.9	360.8	358.2	145°	548.4
1490.0	1433.4	1377.9	1309.2	822.4	379.9	359.1	349.5	354.7	344.2	338.1	147.5°	573.0
1612.5	1549.9	1472.6	1392.6	794.6	363.4	349.5	354.7	336.4	324.3	329.5	150°	596.4
1749.9	1676.1	1592.5	1483.9	776.2	352.9	334.7	339.0	323.4	314.7	312.1	152.5°	613.5
1936.8	1831.6	1730.0	1602.1	790.1	336.4	306.1	323.4	314.7	307.0	299.9	155°	627.4
2120.3	2008.1	1888.1	1737.7	814.5	324.3	283.3	307.0	313.0	299.9	286.9	157.5°	640.0
2304.5	2185.5	2045.5	1877.6	844.0	316.5	266.0	286.9	308.6	292.9	282.6	160°	650.1
2498.4	2348.0	2204.6	2023.7	882.3	308.6	252.2	269.5	300.8	292.9	277.3	162.5°	658.0
2701.8	2524.5	2381.0	2185.5	949.3	297.2	234.6	255.6	292.9	292.1	272.1	165°	667.0
2938.3	2780.1	2595.7	2396.7	1042.3	284.2	219.1	245.1	286.0	288.6	266.0	167.5°	677.6
3340.8	3177.3	2954.7	2765.3	1226.5	266.9	209.6	234.6	274.7	281.7	260.8	170°	685.0
3993.7	3771.1	3566.8	3389.5	1542.2	242.5	202.6	223.4	262.6	272.9	256.5	172.5°	685.0
4742.2	4524.8	4277.9	3979.7	1717.8	219.9	193.0	209.6	250.4	264.3	252.2	175°	683.1
5060.2	4776.0	4476.1	4122.2	1549.9	201.7	182.5	196.5	236.4	252.2	246.0	177.5°	686.7
4914.2	4626.5	4277.9	3931.1	1348.3	192.1	176.4	189.5	226.0	244.2	239.9	180°	687.0
4660.4	4371.0	4059.7	3643.3	1204.0	186.8	172.1	185.2	221.7	239.9	236.4		
3685.8	3427.8	3140.8	2823.6	820.6	169.5	158.2	172.1	204.3	224.3	223.4		
1953.4	1877.6	1665.5	1479.6	425.1	151.3	143.4	157.3	188.6	209.6	209.6		
703.2	638.1	610.3	506.8	226.0	132.1	128.6	139.1	171.3	191.2	190.4		
266.0	259.0	232.1	217.3	143.4	107.8	108.7	119.0	150.4	169.5	168.6		
150.4	136.5	132.1	127.8	91.3	85.2	89.5	100.0	128.6	145.2	147.8		
72.1	66.9	65.1	60.8	60.0	65.1	70.3	79.1	102.6	122.6	119.9		
34.8	33.1	32.2	31.4	42.6	41.7	51.3	54.8	68.7	97.4	87.9		
18.1	18.1	17.2	15.6	19.0	22.7	25.3	30.4	35.6	64.4	53.9		
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-1200-LED-E1-T2-7027-ULG

REPORT NUMBER: P271747  
 CATALOG NUMBER: IST-AF-12

**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°	832.8	832.8
144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	118.8	2.5°	766.7	754.6
174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	156.0	5°	640.7	639.0
204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	193.3	7.5°	561.6	550.3
238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	228.7	10°	535.5	534.6
271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	262.0	12.5°	546.8	549.4
304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	293.5	15°	561.6	566.8
339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	326.8	17.5°	571.1	580.8
372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	359.2	20°	568.5	579.9
406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	393.5	22.5°	539.8	545.0
442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	424.0	25°	488.6	490.3
472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	451.5	27.5°	426.9	425.1
500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	480.0	30°	383.4	372.1
525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	508.4	32.5°	363.4	356.4
548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	536.8	35°	349.5	338.1
573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	563.3	37.5°	362.5	361.7
597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	582.0	40°	374.6	373.0
614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	597.7	42.5°	353.8	338.1
627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	615.4	45°	315.6	297.2
640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	632.0	47.5°	289.4	279.0
651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	643.8	50°	277.3	273.8
659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	652.7	52.5°	273.8	282.6
667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	663.5	55°	272.1	281.7
678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	673.3	57.5°	259.9	276.5
686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	679.2	60°	251.3	271.2
686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	680.2	62.5°	246.0	268.6
684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	682.2	65°	241.6	270.4
687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	686.0	67.5°	234.6	275.6
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°	231.2	274.7
										70°	227.8	272.1
										72.5°	215.6	251.3
										75°	200.8	221.7
										77.5°	181.6	190.4
										80°	160.9	166.1
										82.5°	140.0	160.0
										85°	109.5	135.6
										87.5°	80.8	74.8
										90°	52.9	38.8
										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



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CATALOG NUMBER: IST-AF-1200-LED-E1

00-LED-E1-T2-7027-ULG

**tinued):**

180°
832.8
757.2
633.8
551.1
537.3
547.7
568.5
584.2
582.4
549.4
492.0
432.1
380.7
364.3
343.4
366.0
376.4
341.6
297.2
277.3
272.1
285.1
280.8
277.3
272.1
267.8
266.9
268.6
265.1
260.8
234.6
211.2
190.4
167.7
141.8
106.1
80.8
33.6
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

