

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: P271467

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-800-LED-E1-T2-7027-ULG
Description: IMPACT ELITE LED CYLINDER 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: 5562.2 lumens
Efficiency: N/A
Efficacy: 92.4 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

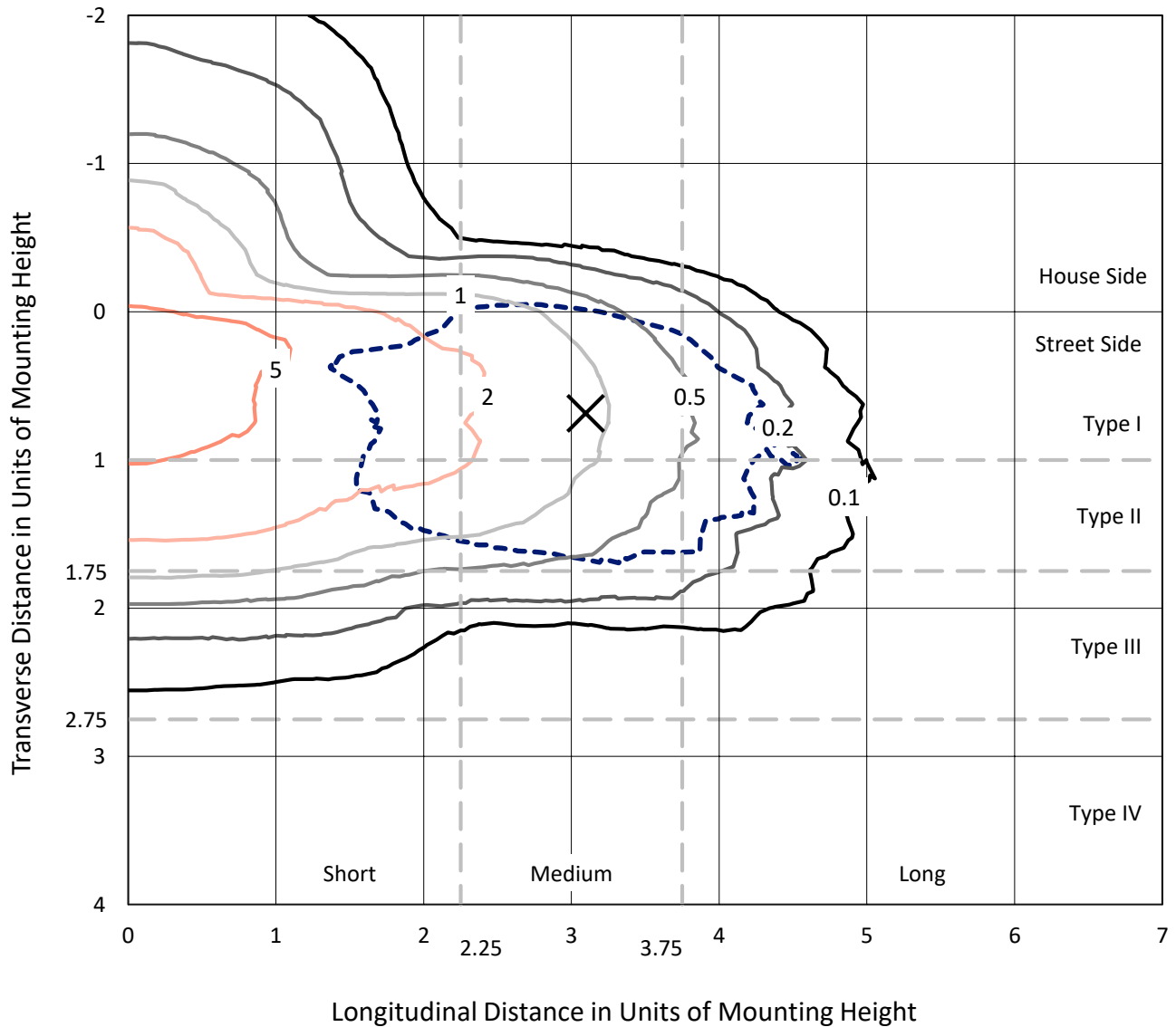
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

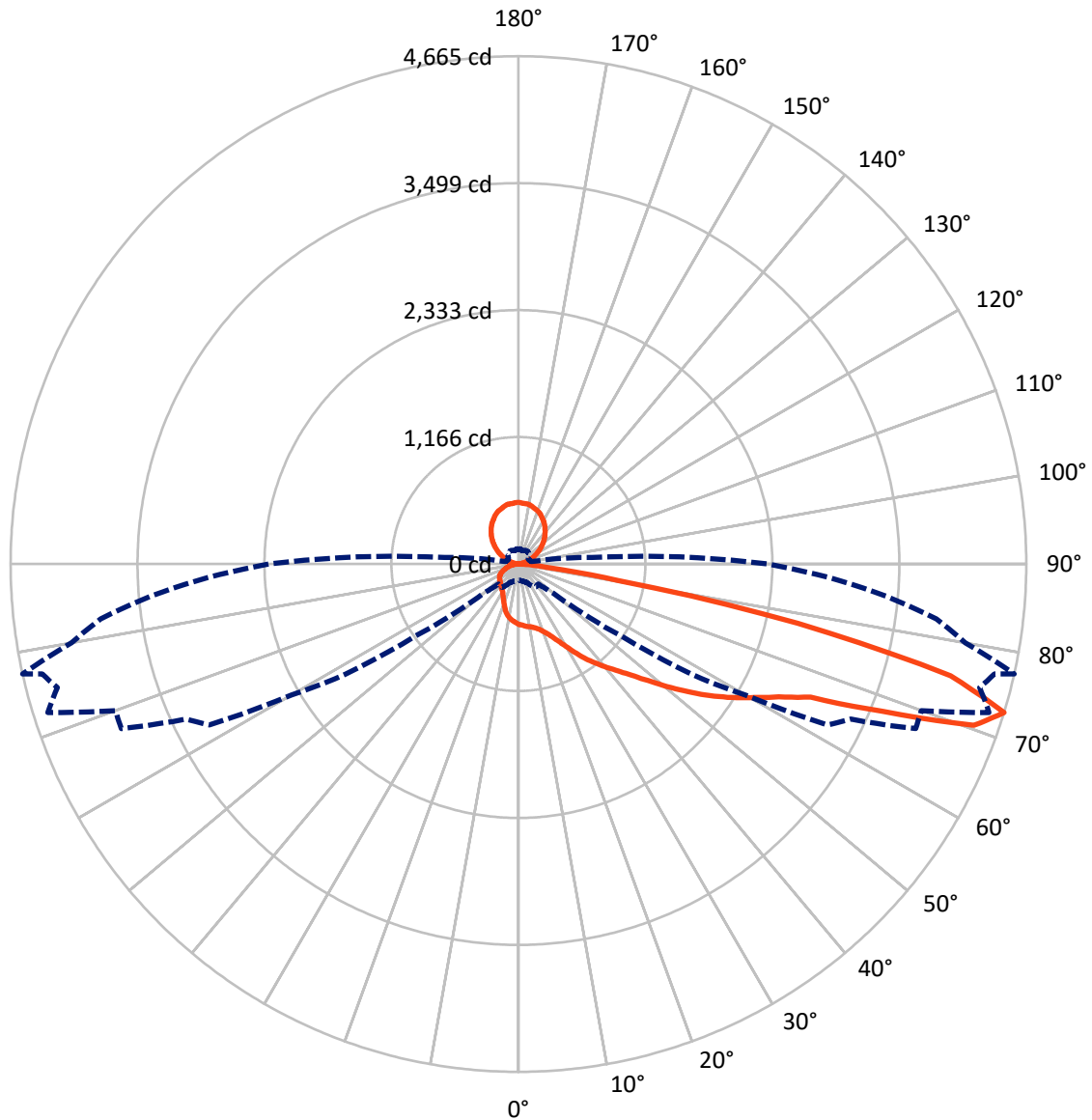
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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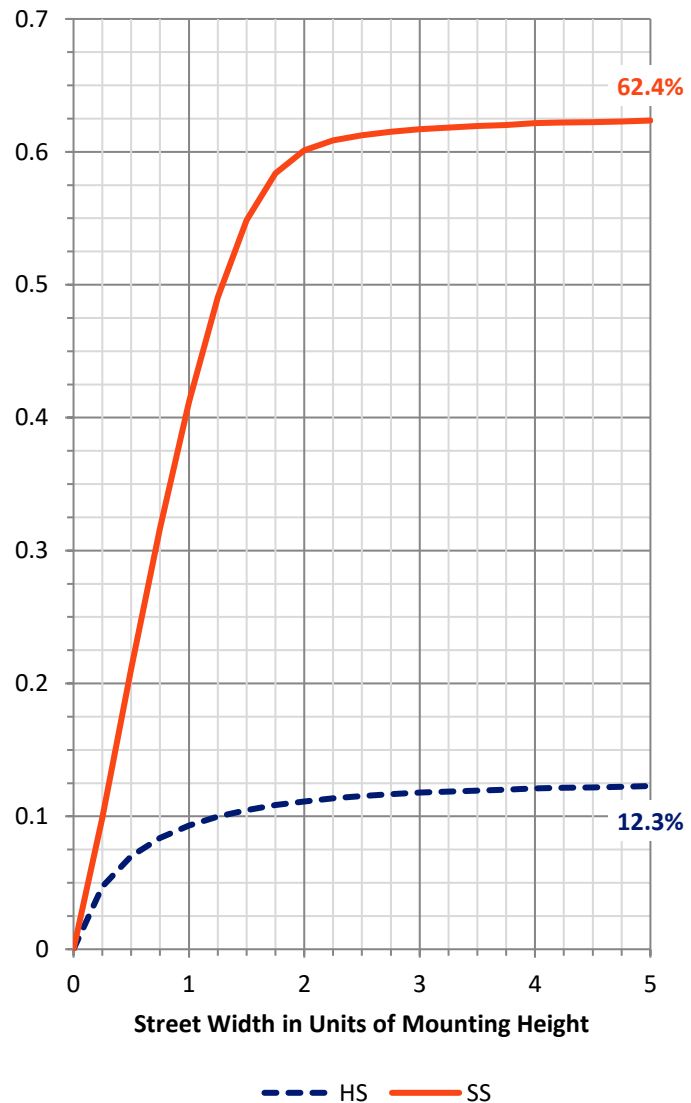
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	689.7	699.9	1389.6
	% Fixture	12.4	12.6	25.0
Street Side	Lumens	3472.7	699.9	4172.6
	% Fixture	62.4	12.6	75.0
Total	Lumens	4162.5	1399.8	5562.2
	% Fixture	74.8	25.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	0.9
10°-20°	158.3	2.8
20°-30°	281.0	5.1
30°-40°	445.2	8.0
40°-50°	667.9	12.0
50°-60°	865.5	15.6
60°-70°	983.4	17.7
70°-80°	652.6	11.7
80°-90°	57.1	1.0
90°-100°	4.7	0.1
100°-110°	67.7	1.2
110°-120°	150.2	2.7
120°-130°	219.7	4.0
130°-140°	260.7	4.7
140°-150°	264.3	4.8
150°-160°	226.8	4.1
160°-170°	152.2	2.7
170°-180°	53.3	1.0
0°-90°	4162.5	74.8
0°-180°	5562.2	100.0



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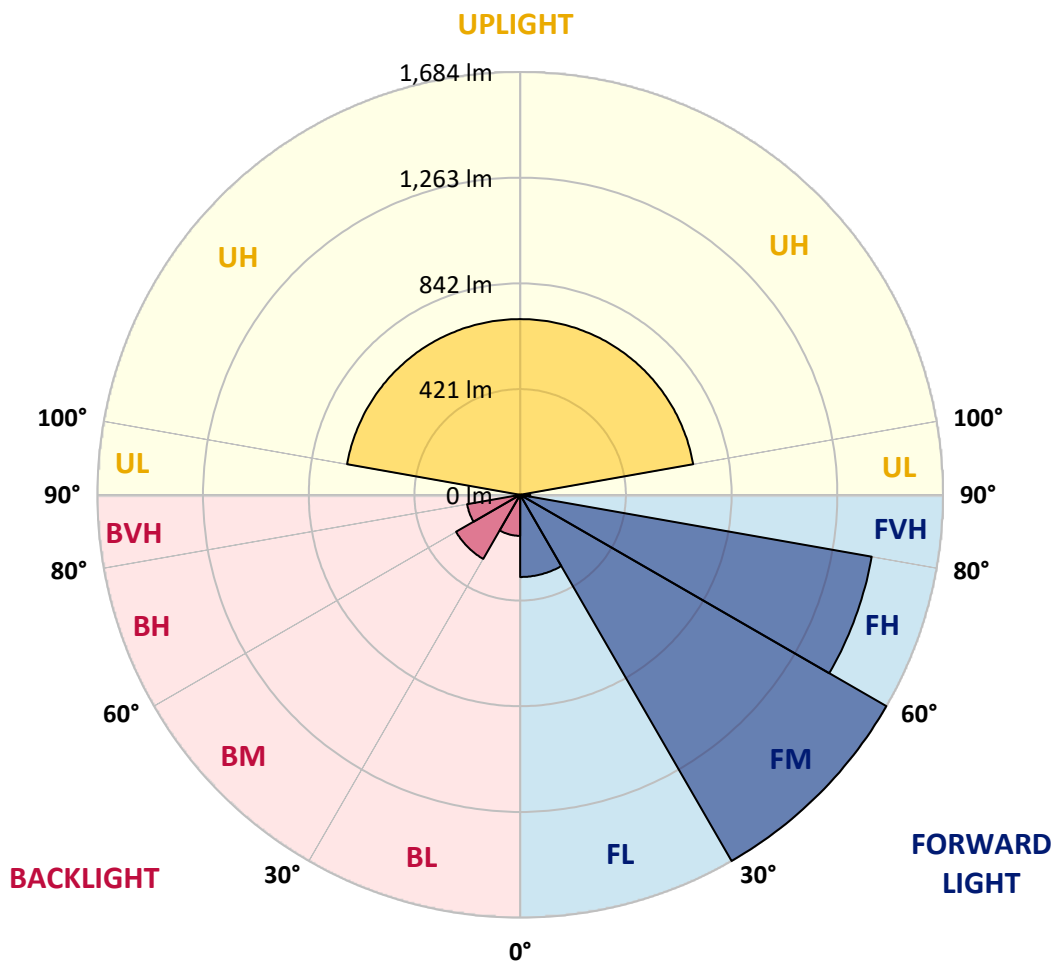
CATALOG NUMBER: ISC-AF-800-LED-E1-T2-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.5	5.9			
FM (30°-60°)	1683.9	30.3			
FH (60°-80°)	1421.5	25.6			G1/1800
FVH (80°-90°)	39.9	0.7			G1/100
BL (0°-30°)	163.4	2.9	B1/500		
BM (30°-60°)	294.6	5.3	B1/1000		
BH (60°-80°)	214.5	3.9	B1/500		G1/500
BVH (80°-90°)	17.2	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	699.9	12.6		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	602.0	599.3	597.8	595.0	592.3	590.8	586.6	583.8	588.0	586.6	586.6
5°	647.0	644.2	640.0	635.8	630.1	625.8	621.8	617.6	620.3	617.6	614.7
7.5°	683.5	680.6	675.1	670.9	665.3	659.6	654.0	652.6	649.8	645.6	644.2
10°	704.5	701.8	698.9	696.1	687.7	683.5	676.4	672.2	673.7	668.0	668.0
12.5°	724.1	721.4	719.9	719.9	713.0	708.8	705.9	701.8	704.5	696.1	693.3
15°	742.4	739.7	735.4	739.7	738.1	736.8	735.4	733.9	738.1	729.9	731.2
17.5°	771.9	770.5	762.0	756.5	757.9	762.0	764.9	763.5	763.5	759.2	760.7
20°	818.2	818.2	806.9	797.2	781.7	781.7	783.1	781.7	784.5	787.4	791.6
22.5°	853.3	850.4	846.2	837.8	821.1	806.9	806.9	801.4	805.6	806.9	815.4
25°	898.1	895.4	885.5	885.5	868.8	850.4	847.7	839.3	849.1	830.8	844.9
27.5°	952.9	950.1	937.5	931.9	923.5	901.0	895.4	896.8	906.6	880.0	894.0
30°	1021.7	1018.9	1003.5	988.0	974.0	950.1	947.4	945.9	968.4	937.5	955.8
32.5°	1108.7	1108.7	1091.9	1070.8	1042.8	1010.4	999.3	1000.6	1031.5	997.8	1028.6
35°	1240.6	1223.9	1192.9	1160.6	1131.1	1093.2	1077.9	1075.0	1103.1	1069.4	1104.5
37.5°	1324.8	1313.6	1285.6	1261.7	1229.4	1192.9	1181.7	1185.9	1209.7	1160.6	1211.2
40°	1400.6	1399.2	1381.0	1365.5	1333.3	1296.7	1310.8	1367.0	1430.1	1334.7	1336.0
42.5°	1451.1	1454.0	1452.6	1454.0	1435.7	1397.9	1421.7	1500.3	1608.3	1552.2	1500.3
45°	1459.6	1469.4	1473.6	1501.7	1519.9	1497.5	1510.1	1593.0	1809.1	1896.1	1661.7
47.5°	1480.7	1490.5	1482.0	1515.7	1599.9	1598.5	1649.1	1679.9	1709.4	1723.4	1900.3
50°	1508.7	1527.0	1518.6	1546.6	1615.3	1654.7	1698.2	1737.4	1713.6	1625.1	1672.9
52.5°	1510.1	1531.1	1577.4	1605.5	1672.9	1664.5	1693.9	1672.9	1709.4	1618.2	1664.5
55°	1386.6	1390.8	1525.5	1667.3	1785.2	1761.3	1743.1	1695.3	1741.6	1628.0	1686.9
57.5°	1191.5	1205.5	1345.9	1584.5	1837.1	1858.1	1852.6	1848.4	1884.8	1733.3	1797.8
60°	976.7	993.6	1126.9	1407.6	1729.1	1783.8	1859.5	1905.8	1999.9	1939.5	2046.2
62.5°	609.1	621.8	769.1	1120.0	1525.5	1633.6	1744.5	1799.2	1935.4	1963.4	2144.4
65°	290.5	294.7	352.2	609.1	1108.7	1312.2	1476.5	1593.0	1759.9	1886.2	2130.4
67.5°	225.9	227.3	248.4	324.2	568.4	704.5	891.2	1045.5	1223.9	1569.0	1872.2
70°	181.1	181.1	197.9	238.6	352.2	370.6	418.3	470.2	545.9	823.8	1069.4
72.5°	151.5	151.5	162.9	188.0	261.0	265.3	262.5	258.3	258.3	325.5	415.5
75°	127.6	126.3	133.3	150.2	193.7	199.2	196.5	186.7	175.3	175.3	197.9
77.5°	103.8	103.8	109.4	117.9	140.3	143.2	143.2	134.7	125.0	126.3	136.1
80°	81.4	81.4	85.6	91.2	98.3	96.8	96.8	88.4	81.4	79.9	85.6
82.5°	59.0	60.4	70.2	65.9	63.2	59.0	59.0	57.5	51.9	47.7	50.6
85°	18.2	19.7	33.7	39.3	32.2	26.7	25.2	21.0	22.5	18.2	21.0
87.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	579.7	582.4	576.8	576.8	569.7	573.9	567.0	568.4	561.4	564.1	564.1
5°	607.7	609.1	602.0	599.3	592.3	592.3	585.2	585.2	575.5	578.1	575.5
7.5°	634.3	634.3	627.4	621.8	614.7	611.8	603.5	599.3	590.8	589.5	585.2
10°	656.8	656.8	647.0	641.4	632.9	628.7	617.6	613.4	603.5	596.5	592.3
12.5°	684.9	682.0	670.9	665.3	651.2	649.8	632.9	630.1	616.1	611.8	604.9
15°	718.6	721.4	703.1	701.8	682.0	680.6	658.2	656.8	635.8	634.3	624.5
17.5°	755.0	760.7	745.2	743.9	719.9	719.9	693.3	692.0	663.8	662.4	649.8
20°	787.4	794.3	784.5	787.4	766.3	767.7	738.1	738.1	698.9	696.1	684.9
22.5°	816.8	830.8	822.4	837.8	816.8	826.6	787.4	794.3	748.0	742.4	725.7
25°	846.2	864.5	861.7	887.0	871.5	888.3	847.7	861.7	801.4	805.6	783.1
27.5°	875.8	899.7	896.8	933.2	927.7	961.4	926.2	941.7	875.8	880.0	854.6
30°	924.9	951.6	941.7	979.6	979.6	1034.4	1007.7	1031.5	958.5	966.9	937.5
32.5°	990.8	1021.7	992.3	1041.3	1038.5	1110.1	1089.0	1129.8	1058.2	1069.4	1032.9
35°	1062.3	1111.6	1063.9	1118.5	1110.1	1184.5	1170.5	1236.4	1160.6	1173.3	1136.7
37.5°	1156.5	1215.4	1152.3	1200.0	1162.0	1247.7	1239.2	1329.0	1251.9	1284.1	1240.6
40°	1267.3	1313.6	1235.0	1275.8	1212.6	1300.9	1286.9	1410.5	1338.8	1390.8	1351.5
42.5°	1369.7	1402.1	1298.2	1348.7	1272.9	1362.8	1337.5	1486.2	1424.5	1504.5	1460.9
45°	1462.4	1498.9	1361.3	1417.4	1333.3	1431.4	1388.0	1559.2	1517.1	1637.8	1594.3
47.5°	1594.3	1541.0	1418.9	1491.8	1397.9	1505.9	1448.3	1644.9	1629.3	1800.7	1750.1
50°	1550.8	1585.9	1466.7	1542.4	1456.8	1588.7	1525.5	1747.2	1751.4	1977.5	1948.0
52.5°	1555.1	1614.0	1503.0	1608.3	1525.5	1703.7	1637.8	1870.8	1890.4	2148.7	2108.0
55°	1580.3	1667.3	1557.8	1699.5	1622.4	1831.5	1785.2	2004.1	2037.7	2310.0	2286.2
57.5°	1643.4	1764.1	1651.8	1837.1	1757.2	1977.5	1935.4	2141.6	2187.9	2471.5	2464.4
60°	1886.2	2029.5	1832.9	2037.7	1931.2	2143.1	2086.9	2286.2	2332.4	2625.8	2644.1
62.5°	2157.1	2405.5	2289.0	2502.3	2220.3	2434.9	2269.4	2464.4	2467.3	2791.4	2849.0
65°	2227.3	2608.9	2708.6	3105.8	2958.5	3178.8	2736.7	2867.2	2698.8	3093.1	3176.0
67.5°	2200.6	2668.0	2944.5	3392.1	3559.2	3943.6	3869.3	3824.4	3434.2	3717.7	3817.3
70°	1615.3	2110.7	2787.2	3241.9	3723.4	3976.0	4375.9	4416.7	4399.8	4360.6	4426.5
72.5°	735.4	1153.6	1886.2	2405.5	3199.9	3369.6	3949.3	3938.1	4533.0	4385.7	4489.5
75°	289.2	444.9	898.1	1343.1	2213.2	2422.3	3079.1	2916.3	3658.8	3442.7	3664.4
77.5°	158.6	199.2	336.9	576.8	1208.4	1319.3	1884.8	1612.5	2269.4	1894.6	1969.1
80°	95.4	119.3	154.4	219.0	513.7	543.1	804.2	648.4	927.7	704.5	683.5
82.5°	51.9	64.6	77.2	108.1	190.9	211.9	277.8	249.8	297.5	254.0	248.4
85°	21.0	28.0	29.5	43.5	63.2	73.0	88.4	95.4	116.5	106.7	103.8
87.5°	0.0	1.3	0.0	2.9	0.0	2.9	0.0	4.2	4.2	7.0	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.8	12.8	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9	4.7
100°	30.9	31.4	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5	26.3
102.5°	49.9	50.0	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1	47.3
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7	68.1
107.5°	90.8	91.3	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3	89.5
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9	111.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5	132.9
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.5
117.5°	176.4	176.7	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7	177.1
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.6
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8	225.6
125°	248.1	248.3	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3	249.9
127.5°	272.4	272.8	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8	273.4
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4	297.0
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0	320.5
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5	343.0
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2	363.9
140°	382.6	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7	385.6
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3	405.9
145°	425.4	426.0	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0	426.5
147.5°	445.4	445.6	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6	445.2
150°	462.1	462.3	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3	461.1
152.5°	477.8	478.0	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0	477.6
155°	494.4	494.7	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7	495.2
157.5°	509.4	509.4	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4	509.4
160°	522.2	522.2	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2	520.7
162.5°	531.8	532.0	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0	528.5
165°	542.6	542.8	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8	538.3
167.5°	549.7	549.7	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7	549.4
170°	554.7	554.5	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5	556.5
172.5°	558.3	558.5	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5	558.0
175°	562.2	562.4	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5	558.0
177.5°	566.3	566.3	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3	564.0
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	559.9	564.1	558.6	558.6	551.6	555.7	551.6	547.3	540.3	541.7	531.9
5°	569.7	572.6	565.7	562.8	558.6	557.2	548.8	540.3	530.4	530.4	519.3
7.5°	579.7	579.7	569.7	569.7	559.9	557.2	544.6	530.4	516.4	515.1	498.2
10°	585.2	583.8	571.2	571.2	557.2	555.7	540.3	519.3	499.6	494.0	470.2
12.5°	596.5	595.0	579.7	576.8	558.6	558.6	536.1	508.0	480.0	470.2	436.5
15°	610.5	611.8	593.7	589.5	568.4	567.0	536.1	494.0	456.1	440.7	399.9
17.5°	632.9	634.3	609.1	604.9	579.7	575.5	537.5	477.2	423.8	407.0	370.6
20°	662.4	658.2	624.5	623.2	589.5	585.2	536.1	451.8	391.5	374.8	342.4
22.5°	698.9	694.7	651.2	647.0	607.7	600.7	534.7	425.3	362.1	343.8	322.9
25°	749.5	743.9	690.4	684.9	635.8	624.5	533.3	397.2	336.9	322.9	310.2
27.5°	812.6	801.4	736.8	731.2	665.3	651.2	527.7	364.9	311.5	301.7	296.1
30°	888.3	878.5	795.8	787.4	704.5	686.2	522.1	335.4	293.4	289.2	284.9
32.5°	978.3	968.4	867.3	857.5	755.0	728.3	512.2	311.5	282.1	282.1	276.5
35°	1072.3	1063.9	944.5	937.5	811.2	776.0	499.6	290.5	272.3	272.3	266.7
37.5°	1156.5	1163.5	1028.6	1023.1	867.3	823.8	485.6	276.5	263.8	261.0	255.4
40°	1247.7	1264.5	1107.3	1111.6	926.2	874.3	468.7	265.3	254.0	251.3	249.8
42.5°	1340.3	1372.6	1190.2	1205.5	985.2	926.2	456.1	258.3	249.8	244.2	242.8
45°	1455.3	1501.7	1292.6	1322.0	1054.0	989.4	451.8	249.8	237.2	230.1	225.9
47.5°	1598.5	1660.2	1418.9	1452.6	1145.2	1065.2	460.3	247.0	228.8	220.4	211.9
50°	1768.3	1827.3	1569.0	1583.0	1247.7	1148.0	478.5	251.3	225.9	213.3	200.7
52.5°	1948.0	1992.9	1727.6	1712.2	1354.4	1229.4	499.6	252.6	219.0	206.3	190.9
55°	2133.3	2158.4	1875.0	1834.2	1451.1	1310.8	527.7	251.3	213.3	199.2	179.6
57.5°	2314.2	2322.7	2005.6	1966.2	1546.6	1407.6	562.8	247.0	204.9	190.9	169.8
60°	2491.1	2505.1	2150.0	2113.6	1650.5	1532.6	613.4	239.9	193.7	183.8	161.3
62.5°	2684.8	2731.0	2322.7	2328.2	1793.6	1727.6	708.8	231.5	182.4	171.3	148.8
65°	2948.7	3125.5	2607.6	2739.5	2068.7	2095.4	891.2	207.7	167.1	153.0	137.5
67.5°	3609.7	3803.3	3299.5	3352.8	2712.8	2554.3	1006.3	176.9	147.3	137.5	127.6
70°	4437.6	4298.7	3940.9	3618.0	3089.0	2625.8	885.5	148.8	130.5	125.0	119.3
72.5°	4665.1	4166.8	3872.1	3387.9	2856.0	2290.4	678.0	127.6	116.5	113.6	109.4
75°	4099.4	3378.1	3395.0	2691.8	2367.7	1745.9	463.2	109.4	101.1	99.6	98.3
77.5°	2621.6	1736.1	2113.6	1330.5	1367.0	808.4	225.9	91.2	87.0	87.0	84.2
80°	931.9	578.1	654.0	419.6	381.7	256.8	122.1	73.0	70.2	71.5	70.2
82.5°	279.4	221.7	217.5	169.8	131.9	108.1	67.4	56.1	53.3	54.8	51.9
85°	112.3	87.0	73.0	56.1	46.4	42.1	36.5	37.9	33.7	36.5	32.2
87.5°	7.0	5.6	4.2	5.6	0.0	2.9	7.0	5.6	1.3	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.7	4.4	4.1	4.0	4.0	4.0	4.0	4.4	4.7	4.9	5.4
100°	26.3	26.1	25.7	25.5	25.1	24.5	25.5	26.1	26.3	26.5	27.3
102.5°	47.3	47.6	47.9	48.1	47.6	47.1	48.1	47.6	47.3	47.1	47.6
105°	68.2	68.7	69.2	69.7	68.7	67.7	69.7	68.7	68.2	67.7	68.2
107.5°	89.5	89.8	90.1	90.3	89.8	89.3	90.3	89.8	89.5	89.3	89.5
110°	111.1	111.4	111.7	111.9	111.4	110.9	111.9	111.4	111.1	110.9	111.1



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
112.5°	132.9	133.5	133.9	134.5	133.5	132.5	134.5	133.5	132.9	132.5	132.7	0°
115°	155.6	156.0	156.6	157.0	156.6	156.0	157.0	156.0	155.6	155.0	155.0	2.5°
117.5°	177.1	177.7	178.1	178.7	177.7	176.7	178.7	177.7	177.1	176.7	176.9	5°
120°	200.7	201.2	201.7	202.2	201.2	200.2	202.2	201.2	200.7	200.2	200.2	7.5°
122.5°	225.7	226.7	227.7	228.7	228.2	227.7	228.7	226.7	225.7	224.8	224.6	10°
125°	250.1	250.8	251.4	252.2	251.7	251.3	252.2	250.8	250.1	249.3	249.3	12.5°
127.5°	273.6	274.3	275.0	275.8	274.3	272.8	275.8	274.3	273.6	272.8	272.6	15°
130°	297.2	297.9	298.6	299.3	298.3	297.4	299.3	297.9	297.2	296.4	296.2	17.5°
132.5°	320.8	321.4	322.1	322.9	322.0	321.0	322.9	321.4	320.8	320.0	319.8	20°
135°	343.1	343.5	344.1	344.5	344.1	343.5	344.5	343.5	343.1	342.5	342.3	22.5°
137.5°	364.2	365.1	366.1	367.0	366.1	365.1	367.0	365.1	364.2	363.2	362.9	25°
140°	385.7	386.7	387.7	388.7	387.7	386.7	388.7	386.7	385.7	384.7	384.3	27.5°
142.5°	406.1	406.8	407.5	408.3	407.8	407.3	408.3	406.8	406.1	405.3	405.1	30°
145°	426.8	427.4	428.1	428.9	428.0	427.0	428.9	427.4	426.8	426.0	425.8	32.5°
147.5°	445.4	446.1	446.7	447.5	446.1	444.6	447.5	446.1	445.4	444.6	444.4	35°
150°	461.3	462.3	463.3	464.2	462.8	461.3	464.2	462.3	461.3	460.3	460.3	37.5°
152.5°	477.8	478.4	479.2	480.0	478.4	477.0	480.0	478.4	477.8	477.0	477.0	40°
155°	495.4	496.1	496.9	497.6	496.7	495.7	497.6	496.1	495.4	494.7	494.4	42.5°
157.5°	509.6	510.9	512.1	513.3	511.9	510.3	513.3	510.9	509.6	508.4	508.2	45°
160°	520.9	521.6	522.4	523.2	522.2	521.2	523.2	521.6	520.9	520.2	520.2	47.5°
162.5°	528.6	529.0	529.6	530.0	528.6	527.0	530.0	529.0	528.6	528.0	528.6	50°
165°	538.4	538.8	539.3	539.8	538.8	537.8	539.8	538.8	538.4	537.8	538.4	52.5°
167.5°	549.7	550.6	551.6	552.5	551.6	550.6	552.5	550.6	549.7	548.7	548.4	55°
170°	556.7	557.9	559.3	560.5	559.5	558.5	560.5	557.9	556.7	555.5	555.1	57.5°
172.5°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.3	60°
175°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.9	62.5°
177.5°	564.1	564.9	565.6	566.3	564.9	563.3	566.3	564.9	564.1	563.3	563.3	65°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	
555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	112.5°	132.9
538.9	529.1	533.3	529.1	531.9	523.5	526.2	519.3	519.3	517.9	510.9	115°	155.0
520.7	510.9	509.5	499.6	501.1	489.8	488.4	475.7	475.7	464.5	443.5	117.5°	177.1
495.4	480.0	478.5	458.9	457.6	442.1	436.5	422.5	421.0	408.4	395.7	120°	200.2
463.2	439.3	435.0	409.8	411.2	394.4	393.0	383.1	383.1	377.5	377.5	122.5°	224.3
426.7	399.9	397.2	377.5	378.9	367.7	369.1	363.5	366.3	369.1	378.9	125°	249.3
393.0	371.9	369.1	356.4	357.9	355.1	359.3	359.3	363.5	370.6	387.3	127.5°	272.4
364.9	346.7	348.0	342.4	348.0	346.7	355.1	353.7	362.1	370.6	391.5	130°	295.9
339.6	329.8	334.0	332.6	339.6	339.6	346.7	348.0	355.1	366.3	390.1	132.5°	319.4
322.9	320.0	324.2	324.2	329.8	331.3	338.2	342.4	346.7	357.9	378.9	135°	342.1
313.0	311.5	315.8	317.2	321.4	322.9	329.8	329.8	336.9	343.8	355.1	137.5°	362.6
299.0	296.1	301.7	301.7	307.4	306.0	314.4	311.5	318.6	321.4	324.2	140°	383.8
289.2	284.9	289.2	287.6	291.9	287.6	291.9	287.6	291.9	291.9	287.6	142.5°	404.9
279.4	275.2	276.5	270.9	275.2	269.4	270.9	265.3	268.1	265.3	266.7	145°	425.4
269.4	263.8	263.8	256.8	256.8	249.8	252.6	247.0	252.6	256.8	255.4	147.5°	444.1
255.4	251.3	251.3	245.6	248.4	245.6	251.3	248.4	249.8	244.2	234.4	150°	460.3
247.0	249.8	248.4	252.6	249.8	245.6	241.4	233.0	231.5	228.8	223.2	152.5°	477.0
234.4	237.2	230.1	235.7	231.5	233.0	230.1	225.9	223.2	220.4	214.8	155°	494.2
216.1	216.1	210.6	219.0	214.8	223.2	220.4	220.4	217.5	213.3	209.1	157.5°	507.9
200.7	202.1	196.5	203.5	200.7	211.9	210.6	214.8	214.8	211.9	200.7	160°	520.2
190.9	188.0	183.8	190.9	189.5	199.2	200.7	209.1	207.7	209.1	199.2	162.5°	529.0
182.4	176.9	172.7	176.9	176.9	185.2	188.0	197.9	199.2	202.1	196.5	165°	538.8
172.7	165.6	162.9	165.6	165.6	174.0	178.2	185.2	189.5	197.9	195.1	167.5°	548.1
164.2	154.4	151.5	154.4	155.8	164.2	168.4	175.3	181.1	192.2	190.9	170°	554.5
154.4	146.0	143.2	147.3	148.8	157.2	161.3	168.4	172.7	185.2	185.2	172.5°	556.9
143.2	136.1	136.1	137.5	140.3	148.8	151.5	161.3	162.9	178.2	179.6	175°	558.5
133.3	129.2	129.2	130.5	133.3	140.3	141.8	151.5	153.0	168.4	172.7	177.5°	563.3
125.0	122.1	122.1	123.4	125.0	130.5	131.9	141.8	144.5	158.6	165.6	180°	565.3
116.5	113.6	112.3	112.3	116.5	120.7	123.4	133.3	134.7	147.3	155.8		
106.7	103.8	103.8	102.5	106.7	109.4	115.2	120.7	123.4	136.1	141.8		
96.8	94.1	94.1	92.6	95.4	101.1	102.5	108.1	109.4	120.7	126.3		
84.2	81.4	81.4	81.4	84.2	85.6	87.0	92.6	95.4	105.2	110.9		
70.2	67.4	68.8	67.4	71.5	65.9	70.2	75.7	78.6	84.2	81.4		
53.3	49.0	50.6	50.6	51.9	47.7	50.6	53.3	56.1	60.4	59.0		
33.7	29.5	32.2	29.5	32.2	28.0	30.9	30.9	33.7	30.9	29.5		
7.0	2.9	7.0	2.9	8.4	0.0	4.2	0.0	2.9	1.3	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
5.9	6.4	6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0		
27.9	28.7	29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6		
48.1	48.6	49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2		
68.7	69.2	69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8		
89.8	90.1	90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3		
111.4	111.7	111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0		

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REPORT NUMBER: P271467
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TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
133.3	133.5	133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	0°	555.7	555.7
155.0	155.0	155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	2.5°	503.8	498.2
177.4	177.7	177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	5°	432.3	422.5
200.2	200.2	200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	7.5°	388.8	385.9
223.9	223.8	223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	10°	380.3	384.6
249.3	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	12.5°	390.1	397.2
272.1	271.8	272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	15°	402.8	415.5
295.6	295.5	295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	17.5°	412.6	429.5
319.2	319.0	319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	20°	414.0	430.8
341.7	341.5	341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	22.5°	401.5	412.6
362.4	362.2	362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	25°	369.1	374.8
383.3	382.8	382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	27.5°	328.4	327.1
404.6	404.3	404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	30°	286.3	283.4
425.2	425.0	425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	32.5°	270.9	261.0
443.9	443.7	444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	35°	247.0	244.2
460.3	460.3	460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	37.5°	238.6	262.5
477.0	477.0	477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	40°	228.8	258.3
493.9	493.7	493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	42.5°	220.4	237.2
507.6	507.5	507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	45°	204.9	211.9
520.2	520.2	520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	47.5°	197.9	195.1
529.6	530.0	530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	50°	192.2	192.2
539.3	539.8	540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	52.5°	188.0	185.2
547.9	547.7	548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	55°	182.4	179.6
554.1	553.5	553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	57.5°	178.2	171.3
556.7	556.5	556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	60°	174.0	167.1
558.9	559.5	560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	62.5°	171.3	162.9
563.3	563.3	564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	65°	167.1	158.6
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°	161.3	150.2
										70°	150.2	140.3
										72.5°	139.0	127.6
										75°	122.1	112.3
										77.5°	102.5	91.2
										80°	77.2	70.2
										82.5°	56.1	47.7
										85°	25.2	18.2
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	13.7	9.8
										102.5°	37.3	31.4
										105°	59.8	55.0
										107.5°	82.5	78.5
										110°	104.0	101.1



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175°	180°
555.7	555.7
495.4	494.0
419.6	416.8
385.9	384.6
385.9	385.9
402.8	402.8
422.5	422.5
436.5	437.8
440.7	442.1
419.6	419.6
378.9	378.9
325.5	331.3
277.8	283.4
247.0	251.3
237.2	238.6
261.0	262.5
256.8	259.6
220.4	221.7
197.9	197.9
189.5	188.0
189.5	186.7
195.1	193.7
186.7	186.7
182.4	182.4
178.2	178.2
176.9	175.3
176.9	174.0
174.0	169.8
164.2	153.0
140.3	130.5
113.6	112.3
88.4	89.8
67.4	67.4
49.0	40.7
14.0	14.0
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
7.8	7.8
27.5	27.5
53.0	53.0
75.5	76.5
100.1	99.2

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
112.5°	126.6	123.7	121.7
115°	148.2	146.2	144.3
117.5°	170.8	168.8	166.8
120°	194.3	192.3	191.4
122.5°	218.8	216.9	216.0
125°	243.4	242.5	241.5
127.5°	267.0	265.0	264.0
130°	288.5	287.5	286.6
132.5°	312.1	311.2	308.2
135°	334.7	332.7	330.8
137.5°	357.3	356.3	353.3
140°	378.8	377.8	375.9
142.5°	399.5	400.5	398.5
145°	420.0	420.0	418.1
147.5°	439.7	438.7	435.8
150°	456.4	455.4	453.5
152.5°	473.0	474.0	471.1
155°	491.7	492.7	490.7
157.5°	506.5	507.5	505.5
160°	519.2	519.2	517.2
162.5°	528.0	529.0	526.0
165°	537.8	538.8	536.8
167.5°	547.7	548.7	545.7
170°	554.5	555.5	552.5
172.5°	556.5	558.5	555.5
175°	558.5	559.5	558.5
177.5°	563.3	564.3	562.4
180°	565.3	565.3	565.3

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180°
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121.7
143.3
165.8
189.5
215.0
239.5
262.0
284.7
307.2
329.8
352.3
375.0
396.5
417.2
435.8
452.5
470.2
489.8
503.5
515.3
525.1
535.9
544.7
551.6
554.5
556.5
561.4
565.3

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