

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: P228827

Luminaire Tested: **ISC-AF-800-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)
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-RW
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4992 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 43.5
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

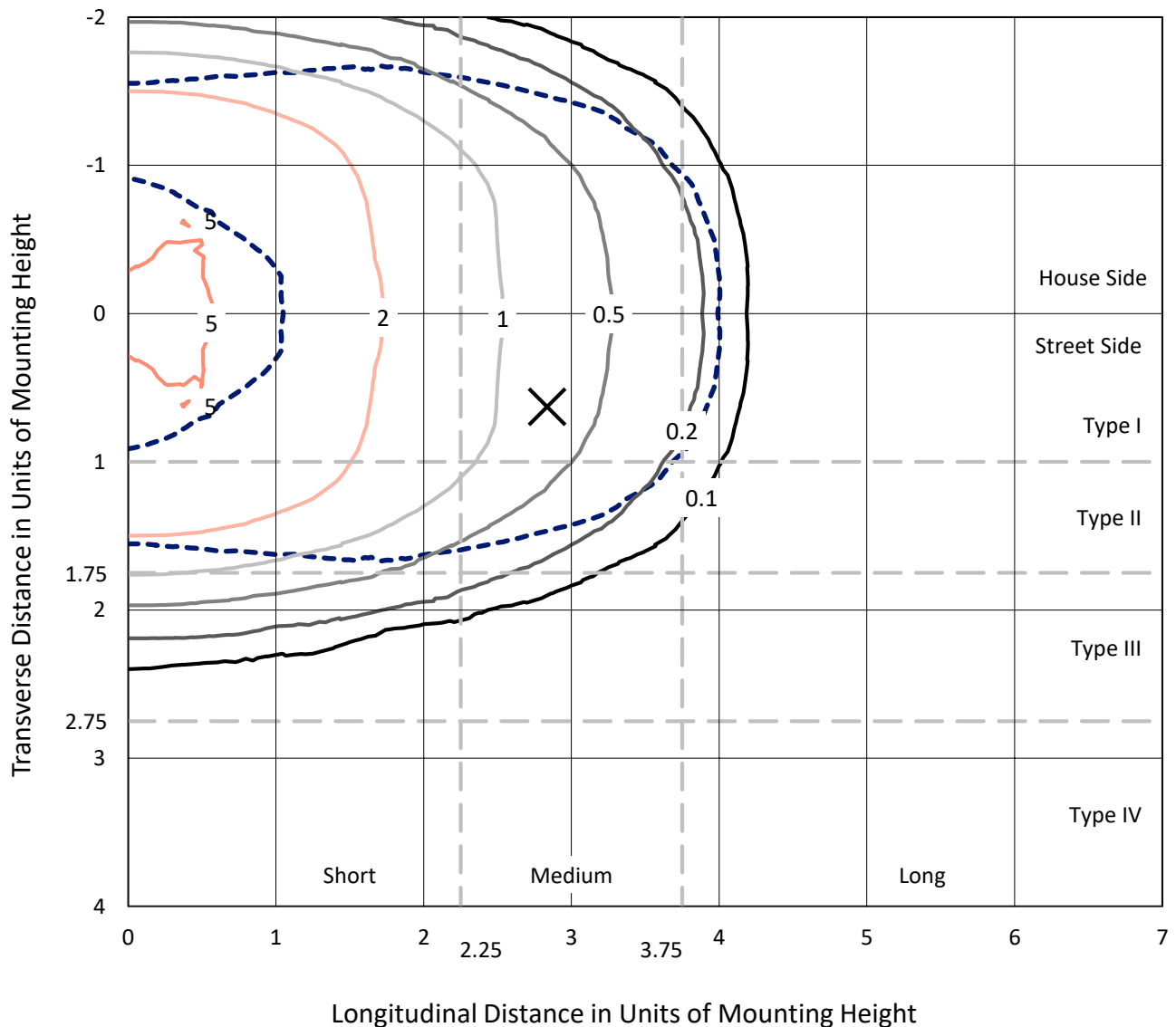


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

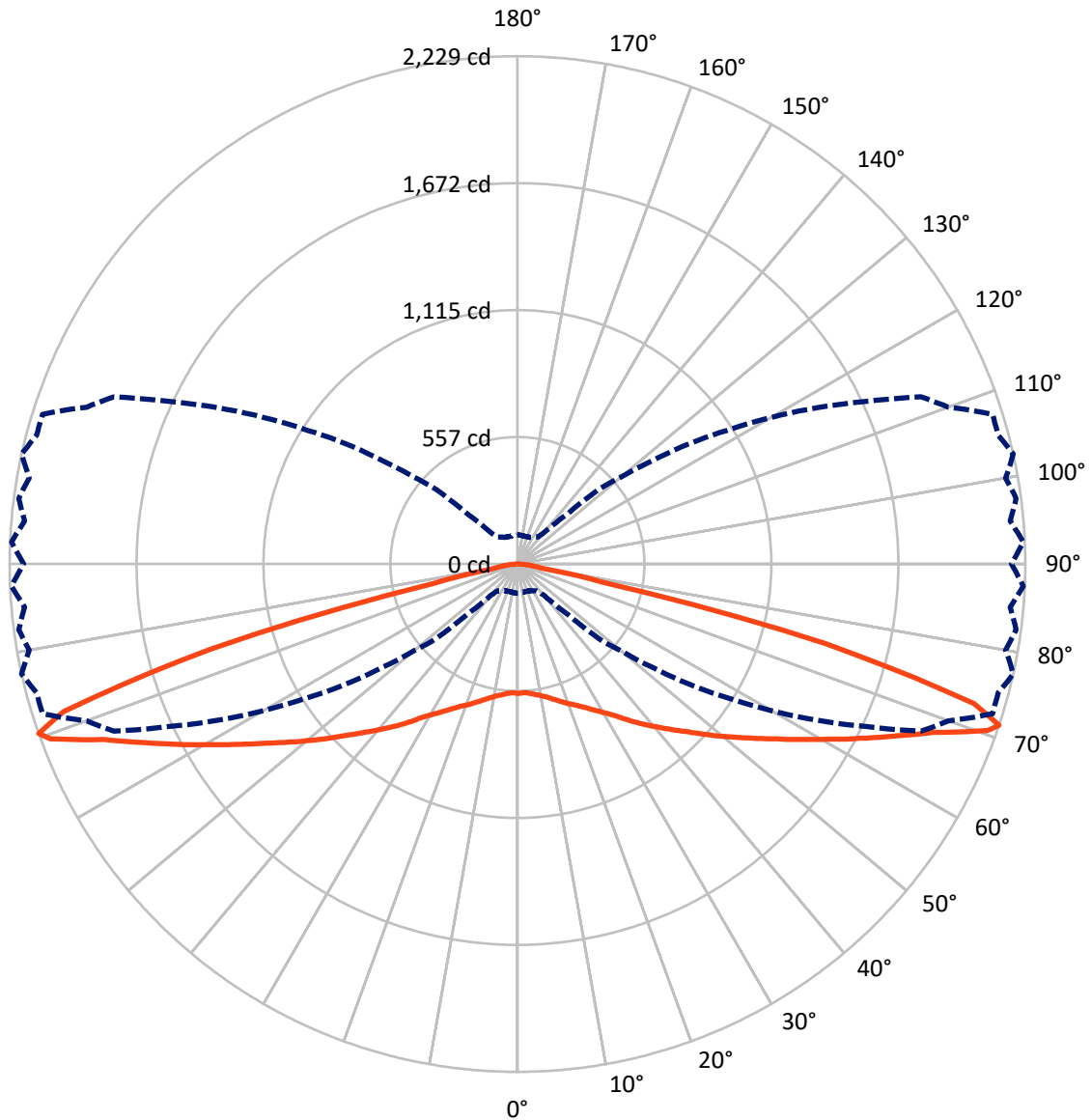


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2496.0	0.0	2496.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2496.0	0.0	2496.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4992.0	0.0	4992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	1.1
10°-20°	171.6	3.4
20°-30°	321.1	6.4
30°-40°	558.9	11.2
40°-50°	912.0	18.3
50°-60°	1258.5	25.2
60°-70°	1193.8	23.9
70°-80°	491.4	9.8
80°-90°	29.7	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4992.0	100.0
0°-180°	4992.0	100.0



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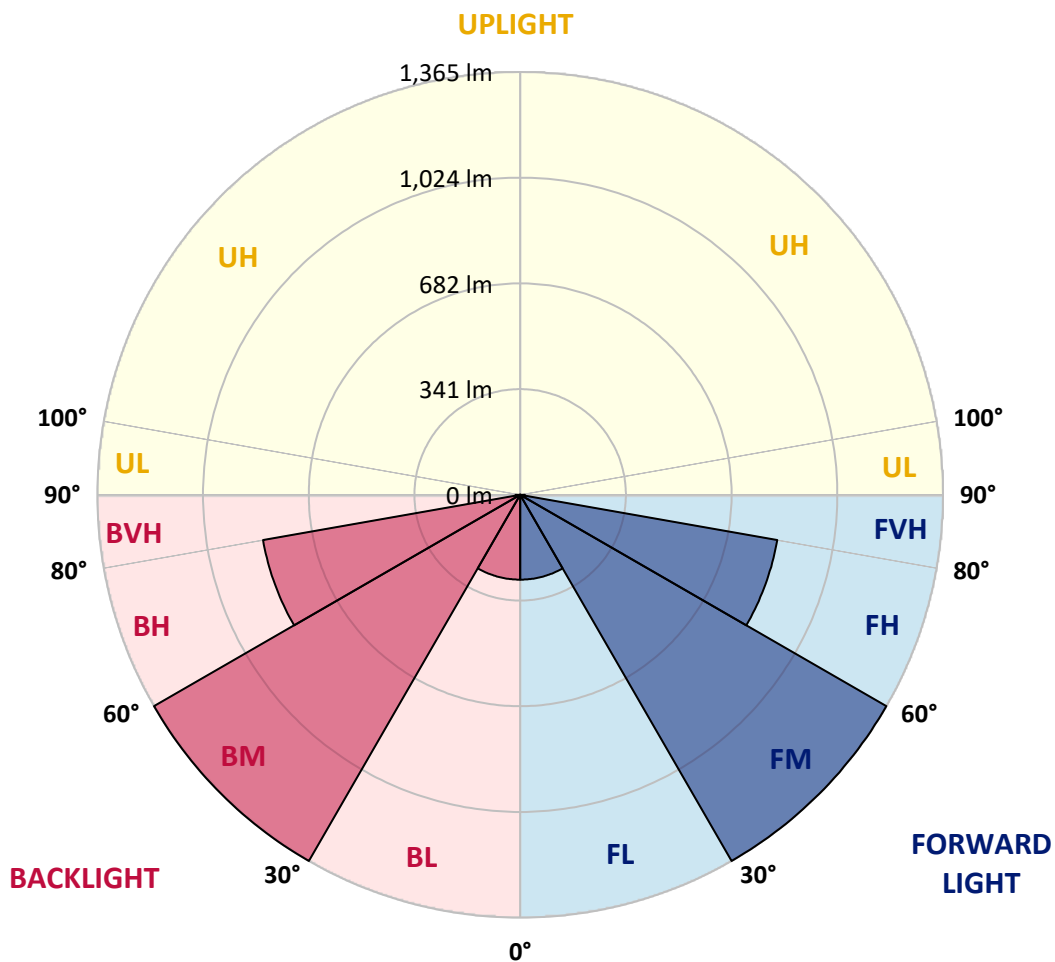
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.8	5.5			
FM (30°-60°)	1364.7	27.3			
FH (60°-80°)	842.6	16.9			G1/1800
FVH (80°-90°)	14.8	0.3			G1/100
BL (0°-30°)	273.8	5.5	B1/500		
BM (30°-60°)	1364.7	27.3	B2/2500		
BH (60°-80°)	842.6	16.9	B2/1000		G2/1000
BVH (80°-90°)	14.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

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°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	566.8	565.1	566.8	566.8	568.5	568.5	568.5	568.5	566.8	570.1	570.1
5°	566.8	566.8	568.5	568.5	571.7	575.0	570.1	571.7	573.4	571.7	575.0
7.5°	566.8	566.8	566.8	570.1	575.0	578.4	575.0	576.7	580.0	580.0	583.3
10°	561.8	560.2	563.4	570.1	578.4	583.3	581.6	588.3	586.6	588.3	591.6
12.5°	553.5	553.5	560.2	570.1	584.9	588.3	589.9	593.2	598.2	596.5	601.5
15°	555.3	556.9	563.4	576.7	594.8	598.2	599.9	599.9	608.0	604.8	614.7
17.5°	566.8	568.5	575.0	588.3	609.8	609.8	611.4	614.7	626.3	619.6	632.9
20°	584.9	586.6	593.2	608.0	627.9	626.3	629.5	632.9	647.7	641.1	654.4
22.5°	606.4	609.8	618.0	634.5	656.0	646.1	652.7	659.3	674.2	662.6	680.8
25°	636.2	641.1	649.4	667.6	690.7	679.1	685.8	690.7	707.3	690.7	708.9
27.5°	679.1	682.4	689.1	708.9	728.8	720.5	723.7	727.0	746.9	728.8	748.5
30°	730.4	735.3	741.9	760.2	779.9	766.7	773.4	776.6	793.2	775.0	791.5
32.5°	794.8	799.7	808.0	824.6	841.1	821.2	822.9	827.9	844.3	826.2	844.3
35°	870.8	874.1	885.7	905.5	917.1	885.7	887.3	887.3	908.8	884.0	903.9
37.5°	950.1	953.4	966.7	986.5	999.7	965.1	965.1	966.7	986.5	958.4	976.6
40°	1032.8	1042.7	1057.5	1077.4	1087.3	1047.6	1051.0	1049.2	1072.5	1039.3	1057.5
42.5°	1115.3	1123.6	1145.1	1168.2	1179.8	1140.2	1141.8	1136.8	1160.0	1125.2	1140.2
45°	1186.4	1193.1	1219.5	1252.5	1270.7	1229.4	1229.4	1229.4	1252.5	1209.5	1227.7
47.5°	1244.2	1249.2	1277.4	1325.2	1355.0	1313.7	1316.9	1310.4	1345.1	1292.2	1316.9
50°	1285.5	1287.2	1323.6	1378.1	1429.4	1391.3	1396.3	1399.6	1432.6	1386.4	1407.9
52.5°	1298.8	1302.1	1343.4	1409.5	1483.9	1459.0	1477.2	1483.9	1513.6	1464.0	1493.8
55°	1252.5	1260.8	1323.6	1421.1	1521.8	1513.6	1535.0	1548.3	1586.3	1545.0	1576.4
57.5°	1097.2	1107.1	1194.7	1355.0	1530.1	1543.3	1573.1	1594.6	1649.1	1624.3	1659.0
60°	875.7	884.0	973.2	1166.6	1426.0	1507.0	1574.7	1635.9	1692.1	1697.0	1741.7
62.5°	601.5	613.1	699.0	884.0	1199.6	1307.0	1404.5	1505.4	1599.5	1713.5	1771.3
65°	294.1	300.7	373.5	551.9	880.8	1017.8	1131.9	1274.0	1361.5	1525.2	1619.3
67.5°	161.9	161.9	173.5	229.7	471.0	606.4	728.8	907.2	996.4	1198.0	1318.6
70°	135.5	135.5	132.2	140.5	178.5	211.5	274.3	376.8	500.6	703.9	812.9
71°	128.9	127.3	125.6	128.9	143.7	150.4	176.8	231.3	313.9	485.8	593.2
72.5°	120.6	117.3	112.3	114.1	122.2	122.2	127.3	135.5	166.8	228.0	305.7
75°	104.1	100.8	95.9	95.9	97.5	99.1	100.8	104.1	105.8	109.0	122.2
77.5°	85.9	82.7	77.6	77.6	76.0	77.6	81.0	82.7	79.3	85.9	87.6
80°	66.1	61.2	59.5	59.5	57.8	56.2	56.2	56.2	57.8	61.2	62.8
82.5°	41.3	38.1	39.7	38.1	36.3	36.3	36.3	36.3	38.1	38.1	41.3
85°	19.8	19.8	21.5	19.8	16.6	16.6	14.8	13.2	14.8	13.2	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5	568.5
2.5°	565.1	568.5	566.8	568.5	565.1	568.5	563.4	568.5	566.8	568.5	565.1
5°	570.1	575.0	570.1	576.7	570.1	576.7	570.1	576.7	571.7	576.7	570.1
7.5°	575.0	584.9	578.4	586.6	578.4	588.3	578.4	588.3	581.6	589.9	578.4
10°	584.9	596.5	586.6	596.5	586.6	598.2	586.6	599.9	589.9	603.1	588.3
12.5°	593.2	606.4	596.5	609.8	594.8	613.1	598.2	618.0	601.5	621.3	601.5
15°	604.8	621.3	611.4	626.3	611.4	631.3	613.1	636.2	618.0	639.4	618.0
17.5°	621.3	639.4	626.3	644.5	627.9	649.4	629.5	654.4	636.2	657.7	636.2
20°	644.5	659.3	646.1	665.9	647.7	667.6	651.0	670.9	656.0	675.9	656.0
22.5°	670.9	684.0	674.2	685.8	669.2	685.8	669.2	685.8	674.2	690.7	674.2
25°	700.6	710.5	699.0	710.5	695.7	708.9	694.0	707.3	695.7	710.5	699.0
27.5°	740.3	745.2	732.0	741.9	723.7	736.9	720.5	733.7	722.1	735.3	727.0
30°	783.3	788.2	775.0	781.6	761.8	770.0	751.9	763.4	753.5	763.4	758.4
32.5°	831.1	837.8	822.9	826.2	809.7	811.3	796.5	801.4	793.2	796.5	794.8
35°	885.7	894.0	877.4	882.4	864.2	864.2	851.0	849.4	846.1	842.7	842.7
37.5°	955.1	958.4	945.2	945.2	923.7	923.7	907.2	907.2	900.6	894.0	890.7
40°	1031.1	1032.8	1011.3	1009.7	988.2	988.2	970.0	965.1	953.4	945.2	940.2
42.5°	1112.0	1110.4	1079.0	1082.3	1051.0	1052.6	1029.5	1024.5	1012.9	1003.0	993.1
45°	1194.7	1188.1	1156.7	1155.0	1118.7	1120.3	1092.2	1088.9	1072.5	1062.5	1051.0
47.5°	1279.0	1275.6	1240.9	1232.7	1194.7	1193.1	1156.7	1156.7	1140.2	1130.3	1118.7
50°	1366.6	1364.9	1325.2	1320.3	1280.6	1274.0	1231.0	1231.0	1211.2	1207.9	1191.4
52.5°	1462.4	1455.8	1412.8	1411.2	1373.1	1368.2	1322.0	1318.6	1288.9	1287.2	1269.1
55°	1556.5	1545.0	1516.9	1503.7	1465.7	1464.0	1422.7	1414.4	1376.5	1376.5	1353.4
57.5°	1642.4	1632.5	1609.4	1597.8	1561.5	1556.5	1511.9	1511.9	1478.9	1477.2	1452.5
60°	1731.8	1735.0	1710.3	1705.3	1670.6	1668.9	1624.3	1624.3	1591.3	1589.6	1561.5
62.5°	1807.8	1840.8	1830.9	1834.2	1804.4	1799.5	1754.9	1751.6	1713.5	1708.6	1685.4
65°	1733.4	1849.1	1923.4	1973.0	1969.7	1968.1	1925.1	1918.4	1870.6	1857.3	1819.3
67.5°	1455.8	1606.1	1741.7	1890.3	1999.5	2082.0	2106.8	2096.9	2055.6	2017.6	1971.3
70°	974.9	1148.5	1320.3	1505.4	1692.1	1873.8	2060.5	2141.5	2227.5	2197.7	2189.4
71°	741.9	920.3	1092.2	1287.2	1485.5	1687.2	1916.8	2012.7	2186.1	2184.5	2229.1
72.5°	418.1	576.7	760.2	930.3	1117.1	1325.2	1561.5	1667.3	1916.8	1966.3	2095.2
75°	133.8	183.4	243.0	383.4	499.0	689.1	864.2	970.0	1135.2	1217.8	1398.0
77.5°	89.2	99.1	102.5	119.0	133.8	190.1	257.8	315.6	347.0	363.6	381.7
80°	64.4	69.4	72.7	81.0	82.7	92.6	92.6	102.5	100.8	107.4	102.5
82.5°	41.3	46.2	47.9	51.2	52.9	59.5	62.8	69.4	69.4	72.7	71.1
85°	19.8	23.1	23.1	26.4	26.4	31.4	31.4	36.3	36.3	41.3	39.7
87.5°	1.6	1.6	1.6	3.3	3.3	3.3	4.9	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	80°	82.5°	85°	87.5°	90°
0°	568.5	568.5	568.5	568.5	568.5
2.5°	570.1	568.5	570.1	566.8	570.1
5°	578.4	571.7	580.0	571.7	580.0
7.5°	591.6	583.3	593.2	580.0	591.6
10°	603.1	591.6	604.8	591.6	603.1
12.5°	623.0	604.8	626.3	604.8	626.3
15°	642.8	621.3	647.7	624.6	646.1
17.5°	660.9	641.1	665.9	642.8	664.3
20°	677.5	659.3	680.8	657.7	680.8
22.5°	694.0	682.4	699.0	682.4	699.0
25°	715.5	707.3	718.8	707.3	718.8
27.5°	740.3	736.9	743.6	735.3	745.2
30°	768.3	770.0	771.7	770.0	773.4
32.5°	803.1	811.3	808.0	808.0	808.0
35°	851.0	865.8	855.9	859.3	857.6
37.5°	895.6	917.1	903.9	908.8	905.5
40°	945.2	960.0	956.8	956.8	953.4
42.5°	999.7	1017.8	1012.9	1014.6	1011.3
45°	1059.2	1075.7	1069.1	1067.4	1069.1
47.5°	1127.0	1145.1	1136.8	1135.2	1136.8
50°	1198.0	1219.5	1212.9	1209.5	1212.9
52.5°	1275.6	1302.1	1298.8	1295.5	1300.5
55°	1366.6	1391.3	1388.0	1391.3	1393.0
57.5°	1457.4	1485.5	1478.9	1487.2	1490.4
60°	1571.5	1587.9	1589.6	1591.3	1592.9
62.5°	1687.2	1693.7	1698.7	1703.6	1705.3
65°	1821.0	1822.6	1825.9	1821.0	1825.9
67.5°	1949.8	1938.3	1936.7	1941.6	1944.8
70°	2149.7	2149.7	2133.3	2156.4	2136.5
71°	2176.2	2207.6	2171.2	2222.5	2167.9
72.5°	2047.3	2105.1	2063.9	2110.1	2055.6
75°	1424.4	1558.3	1556.5	1622.7	1569.8
77.5°	395.0	370.1	395.0	340.4	325.5
80°	107.4	97.5	105.8	89.2	100.8
82.5°	71.1	61.2	59.5	47.9	51.2
85°	41.3	31.4	31.4	24.8	26.4
87.5°	6.6	1.6	6.6	3.3	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)