

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: P228828

Luminaire Tested: **ISC-AF-1000-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228828
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-1000-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: 5900.4 lumens
Efficiency: N/A
Efficacy: 108.1 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): 54.6
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

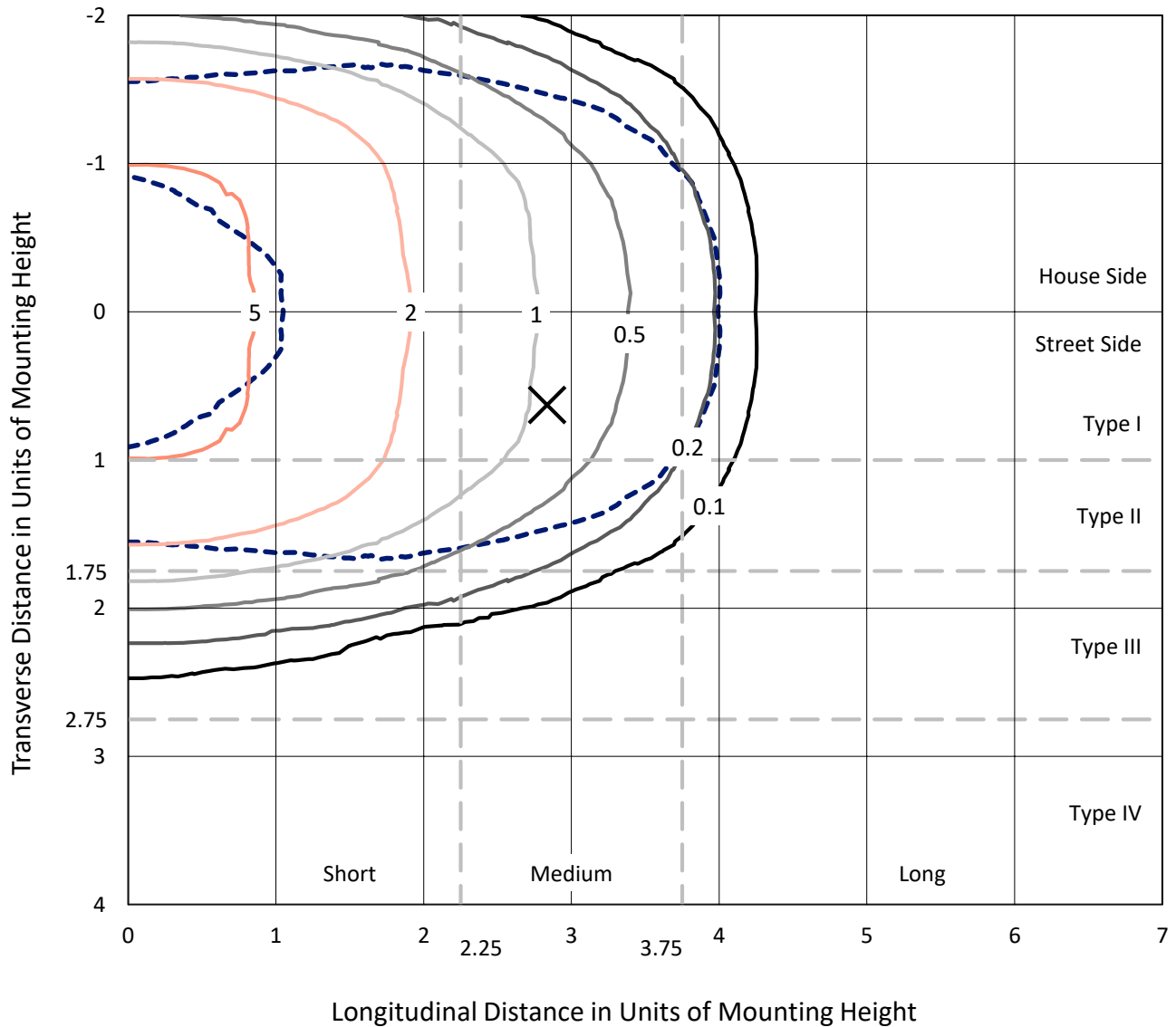


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

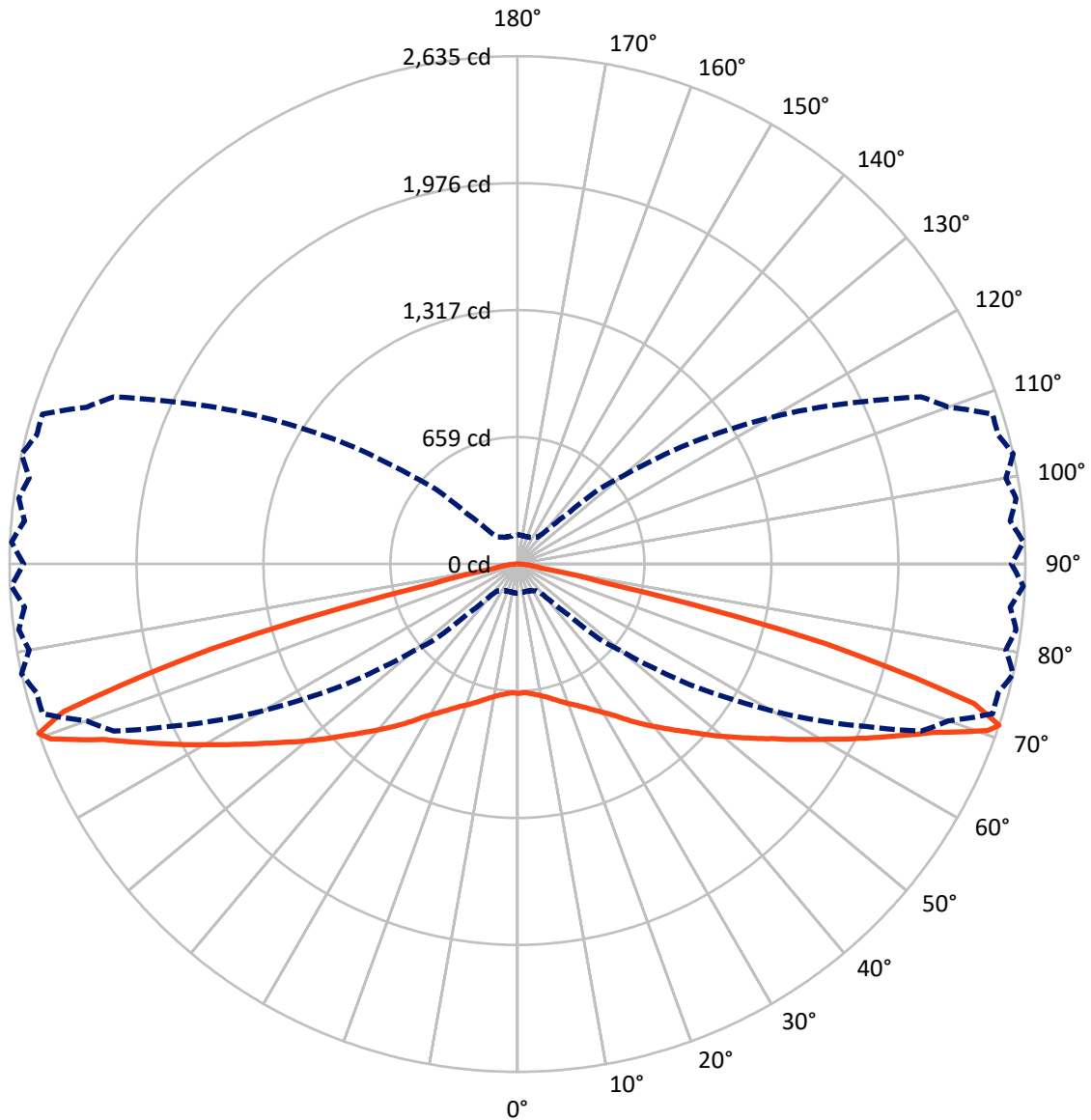


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Full Cutoff

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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	2950.2	0.0	2950.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2950.2	0.0	2950.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5900.4	0.0	5900.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.1
10°-20°	202.8	3.4
20°-30°	379.6	6.4
30°-40°	660.6	11.2
40°-50°	1077.9	18.3
50°-60°	1487.5	25.2
60°-70°	1411.1	23.9
70°-80°	580.8	9.8
80°-90°	35.1	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°	5900.4	100.0
0°-180°	5900.4	100.0



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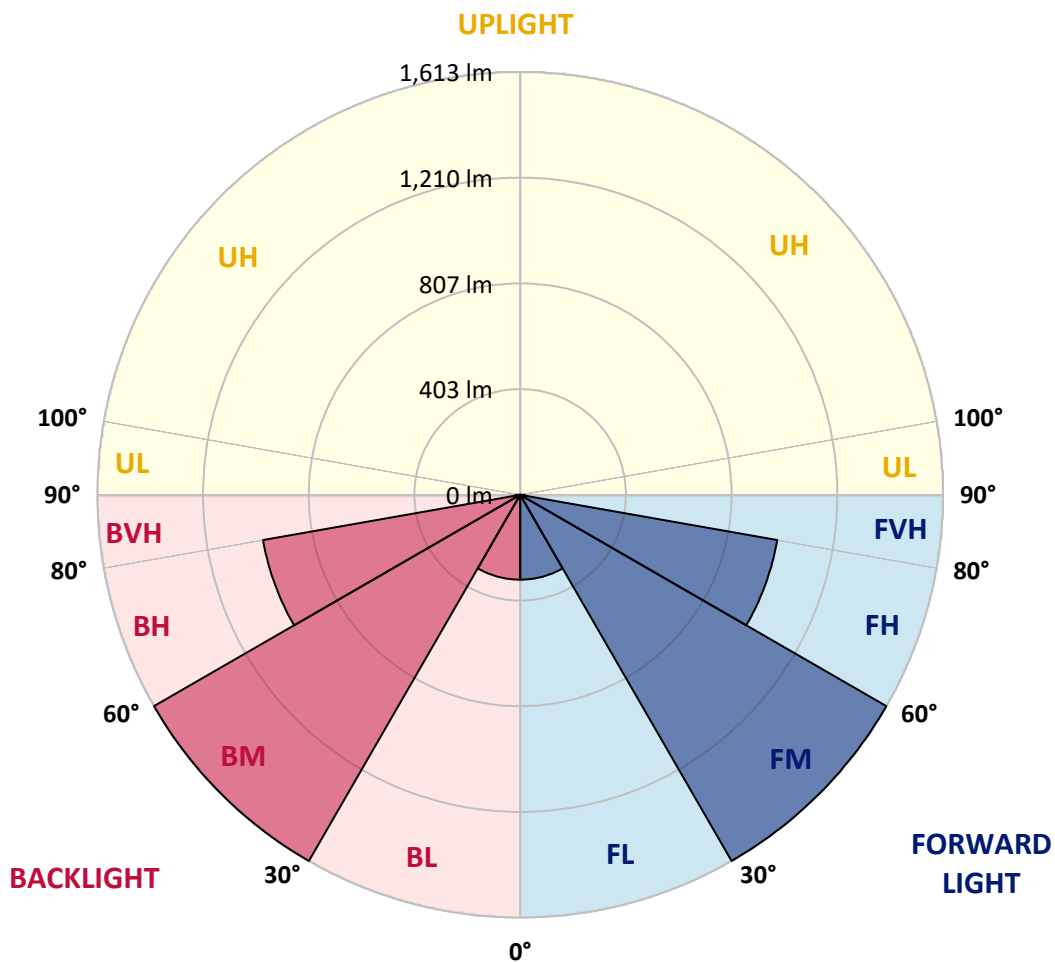
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.6	5.5			
FM (30°-60°)	1613.0	27.3			
FH (60°-80°)	995.9	16.9			G1/1800
FVH (80°-90°)	17.5	0.3			G1/100
BL (0°-30°)	323.6	5.5	B1/500		
BM (30°-60°)	1613.0	27.3	B2/2500		
BH (60°-80°)	995.9	16.9	B2/1000		G2/1000
BVH (80°-90°)	17.5	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°	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9
2.5°	669.9	668.0	669.9	669.9	671.9	671.9	671.9	671.9	669.9	673.8	673.8
5°	669.9	669.9	671.9	671.9	675.8	679.6	673.8	675.8	677.7	675.8	679.6
7.5°	669.9	669.9	669.9	673.8	679.6	683.5	679.6	681.6	685.6	685.6	689.5
10°	664.1	662.1	666.0	673.8	683.5	689.5	687.5	695.3	693.4	695.3	699.2
12.5°	654.3	654.3	662.1	673.8	691.4	695.3	697.2	701.1	707.1	705.0	711.0
15°	656.2	658.2	666.0	681.6	703.1	707.1	709.0	709.0	718.7	714.8	726.5
17.5°	669.9	671.9	679.6	695.3	720.7	720.7	722.6	726.5	740.2	732.4	748.1
20°	691.4	693.4	701.1	718.7	742.2	740.2	744.1	748.1	765.6	757.8	773.5
22.5°	716.8	720.7	730.5	750.0	775.4	763.6	771.5	779.3	796.9	783.2	804.7
25°	752.0	757.8	767.5	789.0	816.4	802.7	810.5	816.4	836.0	816.4	837.9
27.5°	802.7	806.6	814.5	837.9	861.3	851.5	855.5	859.4	882.8	861.3	884.8
30°	863.3	869.1	877.0	898.5	921.9	906.2	914.0	918.0	937.4	916.0	935.5
32.5°	939.5	945.3	955.0	974.6	994.1	970.7	972.6	978.5	998.0	976.5	998.0
35°	1029.3	1033.2	1046.9	1070.3	1083.9	1046.9	1048.8	1048.8	1074.2	1044.9	1068.4
37.5°	1123.0	1126.9	1142.5	1166.0	1181.6	1140.6	1140.6	1142.5	1166.0	1132.8	1154.3
40°	1220.7	1232.3	1249.9	1273.4	1285.1	1238.3	1242.2	1240.2	1267.5	1228.5	1249.9
42.5°	1318.4	1328.1	1353.5	1380.9	1394.5	1347.6	1349.6	1343.7	1371.1	1330.0	1347.6
45°	1402.4	1410.1	1441.3	1480.4	1501.9	1453.1	1453.1	1453.1	1480.4	1429.7	1451.2
47.5°	1470.7	1476.5	1509.8	1566.3	1601.5	1552.7	1556.6	1548.8	1589.8	1527.3	1556.6
50°	1519.5	1521.4	1564.4	1628.8	1689.4	1644.5	1650.3	1654.3	1693.3	1638.7	1664.0
52.5°	1535.1	1539.0	1587.8	1666.0	1753.8	1724.6	1746.1	1753.8	1789.0	1730.4	1765.6
55°	1480.4	1490.2	1564.4	1679.7	1798.8	1789.0	1814.4	1830.1	1875.0	1826.2	1863.2
57.5°	1296.9	1308.6	1412.1	1601.5	1808.6	1824.2	1859.3	1884.7	1949.2	1919.9	1960.9
60°	1035.1	1044.9	1150.4	1378.8	1685.5	1781.3	1861.3	1933.6	2000.0	2005.8	2058.6
62.5°	711.0	724.6	826.1	1044.9	1417.9	1544.9	1660.1	1779.2	1890.6	2025.3	2093.7
65°	347.7	355.5	441.4	652.3	1041.0	1203.1	1337.8	1505.8	1609.3	1802.7	1914.0
67.5°	191.4	191.4	205.1	271.5	556.6	716.8	861.3	1072.3	1177.7	1416.0	1558.6
70°	160.2	160.2	156.2	166.0	210.9	250.0	324.2	445.3	591.8	832.0	961.0
71°	152.3	150.4	148.4	152.3	169.9	177.7	209.0	273.4	371.1	574.2	701.1
72.5°	142.6	138.7	132.8	134.7	144.5	144.5	150.4	160.2	197.2	269.5	361.3
75°	123.1	119.2	113.2	113.2	115.2	117.2	119.2	123.1	125.0	128.9	144.5
77.5°	101.6	97.7	91.8	91.8	89.8	91.8	95.7	97.7	93.7	101.6	103.5
80°	78.2	72.2	70.3	70.3	68.3	66.4	66.4	66.4	68.3	72.2	74.3
82.5°	48.8	44.9	46.9	44.9	43.0	43.0	43.0	43.0	44.9	44.9	48.8
85°	23.4	23.4	25.4	23.4	19.5	19.5	17.6	15.7	17.6	15.7	19.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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°	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9
2.5°	668.0	671.9	669.9	671.9	668.0	671.9	666.0	671.9	669.9	671.9	668.0
5°	673.8	679.6	673.8	681.6	673.8	681.6	673.8	681.6	675.8	681.6	673.8
7.5°	679.6	691.4	683.5	693.4	683.5	695.3	683.5	695.3	687.5	697.2	683.5
10°	691.4	705.0	693.4	705.0	693.4	707.1	693.4	709.0	697.2	712.9	695.3
12.5°	701.1	716.8	705.0	720.7	703.1	724.6	707.1	730.5	711.0	734.4	711.0
15°	714.8	734.4	722.6	740.2	722.6	746.0	724.6	752.0	730.5	755.9	730.5
17.5°	734.4	755.9	740.2	761.7	742.2	767.5	744.1	773.5	752.0	777.3	752.0
20°	761.7	779.3	763.6	787.1	765.6	789.0	769.6	793.0	775.4	798.8	775.4
22.5°	793.0	808.5	796.9	810.5	791.0	810.5	791.0	810.5	796.9	816.4	796.9
25°	828.1	839.8	826.1	839.8	822.2	837.9	820.3	836.0	822.2	839.8	826.1
27.5°	875.0	880.9	865.2	877.0	855.5	871.0	851.5	867.2	853.6	869.1	859.4
30°	925.8	931.6	916.0	923.8	900.4	910.1	888.6	902.3	890.6	902.3	896.5
32.5°	982.4	990.2	972.6	976.5	957.0	959.0	941.4	947.3	937.4	941.4	939.5
35°	1046.9	1056.6	1037.1	1043.0	1021.4	1021.4	1005.9	1003.9	999.9	996.0	996.0
37.5°	1128.9	1132.8	1117.2	1117.2	1091.8	1091.8	1072.3	1072.3	1064.5	1056.6	1052.7
40°	1218.7	1220.7	1195.3	1193.4	1167.9	1167.9	1146.4	1140.6	1126.9	1117.2	1111.3
42.5°	1314.4	1312.4	1275.4	1279.3	1242.2	1244.1	1216.8	1210.9	1197.3	1185.5	1173.8
45°	1412.1	1404.3	1367.2	1365.2	1322.3	1324.2	1291.0	1287.1	1267.5	1255.9	1242.2
47.5°	1511.7	1507.8	1466.8	1457.0	1412.1	1410.1	1367.2	1367.2	1347.6	1335.9	1322.3
50°	1615.2	1613.3	1566.3	1560.5	1513.7	1505.8	1455.0	1455.0	1431.6	1427.7	1408.2
52.5°	1728.5	1720.7	1669.9	1667.9	1623.0	1617.2	1562.5	1558.6	1523.4	1521.4	1500.0
55°	1839.8	1826.2	1792.9	1777.3	1732.4	1730.4	1681.6	1671.8	1626.9	1626.9	1599.6
57.5°	1941.4	1929.7	1902.3	1888.7	1845.7	1839.8	1787.1	1787.1	1748.0	1746.1	1716.7
60°	2046.8	2050.7	2021.5	2015.6	1974.6	1972.7	1919.9	1919.9	1880.8	1878.9	1845.7
62.5°	2136.6	2175.7	2164.1	2167.9	2132.8	2126.9	2074.1	2070.2	2025.3	2019.5	1992.2
65°	2048.8	2185.5	2273.4	2332.0	2328.0	2326.1	2275.3	2267.6	2210.9	2195.3	2150.3
67.5°	1720.7	1898.4	2058.6	2234.3	2363.2	2460.9	2490.2	2478.5	2429.6	2384.7	2330.1
70°	1152.4	1357.4	1560.5	1779.2	2000.0	2214.8	2435.5	2531.2	2632.8	2597.6	2587.9
71°	877.0	1087.9	1291.0	1521.4	1755.8	1994.1	2265.6	2378.9	2584.0	2582.0	2634.7
72.5°	494.1	681.6	898.5	1099.6	1320.3	1566.3	1845.7	1970.7	2265.6	2324.1	2476.6
75°	158.3	216.8	287.1	453.2	589.8	814.5	1021.4	1146.4	1341.8	1439.4	1652.3
77.5°	105.5	117.2	121.1	140.7	158.3	224.6	304.6	373.1	410.1	429.6	451.1
80°	76.2	82.0	85.9	95.7	97.7	109.4	109.4	121.1	119.2	126.9	121.1
82.5°	48.8	54.7	56.7	60.6	62.5	70.3	74.3	82.0	82.0	85.9	84.0
85°	23.4	27.3	27.3	31.2	31.2	37.1	37.1	43.0	43.0	48.8	46.9
87.5°	1.9	1.9	1.9	3.9	3.9	3.9	5.8	7.8	7.8	7.8	7.8
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°	671.9	671.9	671.9	671.9	671.9
2.5°	673.8	671.9	673.8	669.9	673.8
5°	683.5	675.8	685.6	675.8	685.6
7.5°	699.2	689.5	701.1	685.6	699.2
10°	712.9	699.2	714.8	699.2	712.9
12.5°	736.3	714.8	740.2	714.8	740.2
15°	759.7	734.4	765.6	738.3	763.6
17.5°	781.2	757.8	787.1	759.7	785.1
20°	800.8	779.3	804.7	777.3	804.7
22.5°	820.3	806.6	826.1	806.6	826.1
25°	845.7	836.0	849.6	836.0	849.6
27.5°	875.0	871.0	878.9	869.1	880.9
30°	908.2	910.1	912.1	910.1	914.0
32.5°	949.2	959.0	955.0	955.0	955.0
35°	1005.9	1023.5	1011.7	1015.6	1013.6
37.5°	1058.5	1083.9	1068.4	1074.2	1070.3
40°	1117.2	1134.8	1130.9	1130.9	1126.9
42.5°	1181.6	1203.1	1197.3	1199.2	1195.3
45°	1251.9	1271.4	1263.7	1261.7	1263.7
47.5°	1332.0	1353.5	1343.7	1341.8	1343.7
50°	1416.0	1441.3	1433.6	1429.7	1433.6
52.5°	1507.8	1539.0	1535.1	1531.3	1537.1
55°	1615.2	1644.5	1640.6	1644.5	1646.4
57.5°	1722.6	1755.8	1748.0	1757.7	1761.7
60°	1857.4	1876.9	1878.9	1880.8	1882.7
62.5°	1994.1	2001.9	2007.7	2013.7	2015.6
65°	2152.3	2154.2	2158.1	2152.3	2158.1
67.5°	2304.6	2291.0	2289.1	2294.9	2298.8
70°	2541.0	2541.0	2521.5	2548.8	2525.4
71°	2572.2	2609.3	2566.4	2626.9	2562.5
72.5°	2419.9	2488.2	2439.4	2494.1	2429.6
75°	1683.6	1841.7	1839.8	1917.9	1855.4
77.5°	466.8	437.5	466.8	402.3	384.7
80°	126.9	115.2	125.0	105.5	119.2
82.5°	84.0	72.2	70.3	56.7	60.6
85°	48.8	37.1	37.1	29.3	31.2
87.5°	7.8	1.9	7.8	3.9	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)