

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: P228757

Luminaire Tested: **ISS-AF-1200-LED-E1-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228757
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: ISS-AF-1200-LED-E1-RW-7060
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6564 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

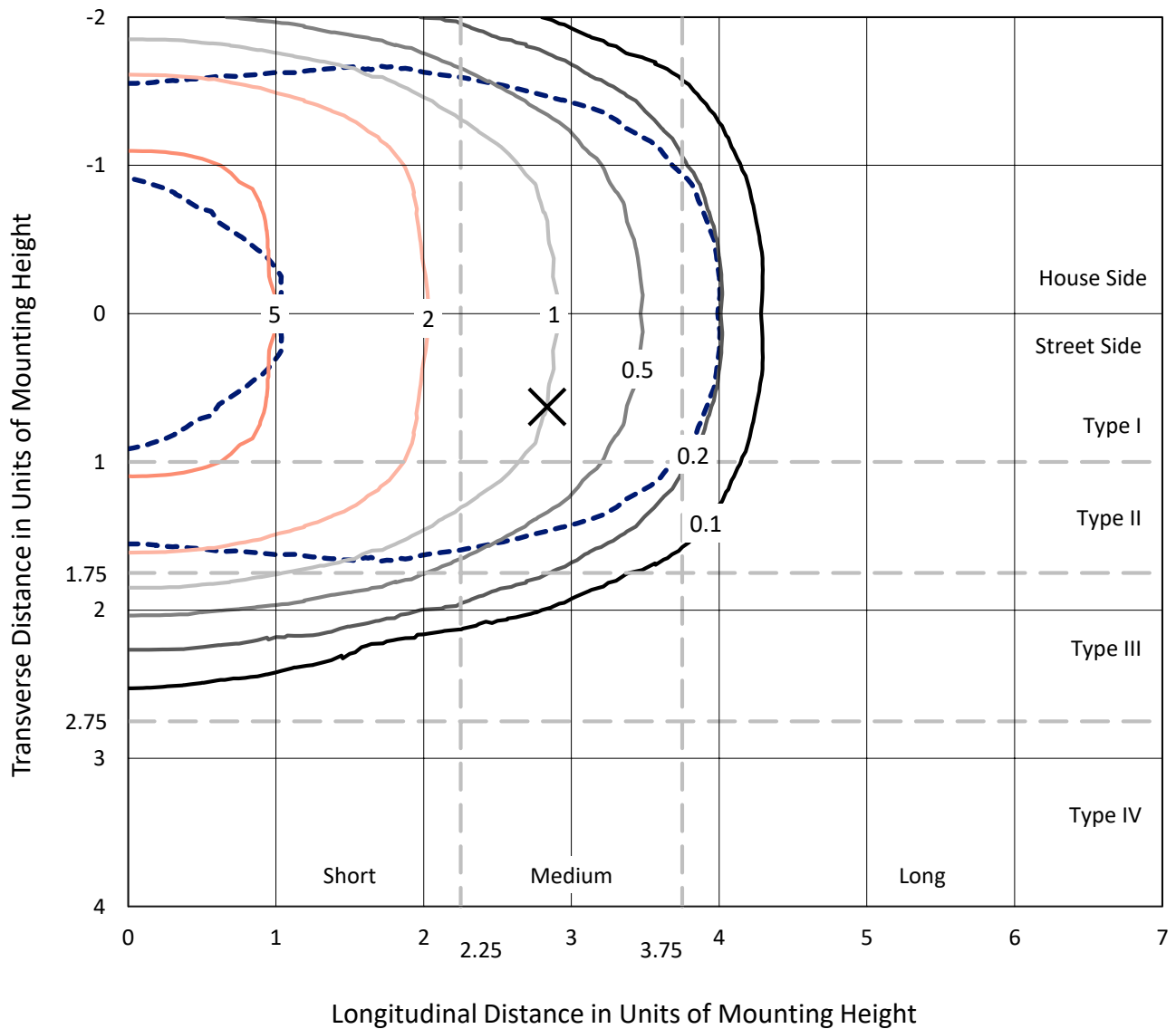
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

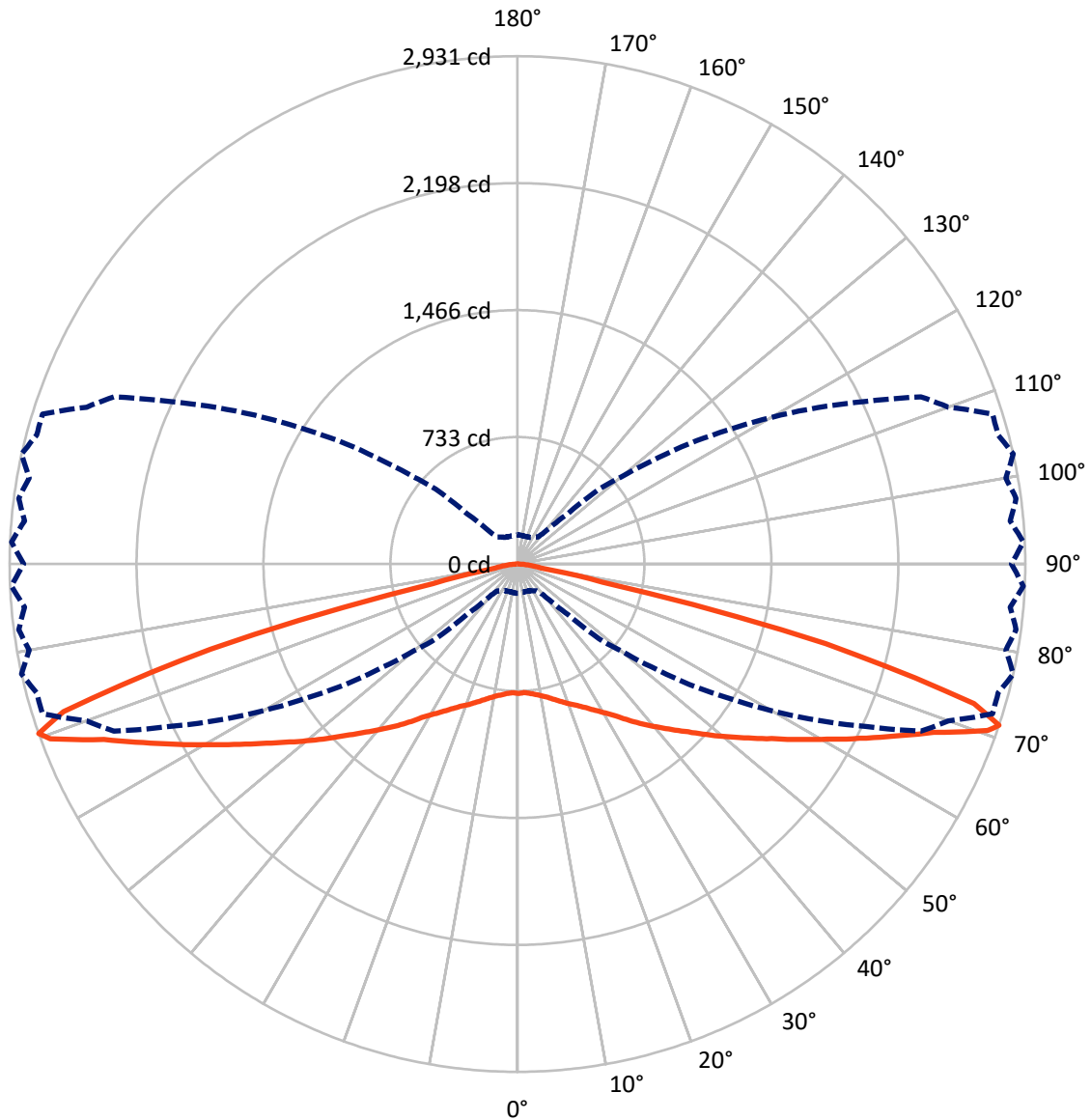
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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	3282.0	0.0	3282.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3282.0	0.0	3282.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6564.0	0.0	6564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.1
10°-20°	225.6	3.4
20°-30°	422.2	6.4
30°-40°	734.9	11.2
40°-50°	1199.1	18.3
50°-60°	1654.9	25.2
60°-70°	1569.8	23.9
70°-80°	646.2	9.8
80°-90°	39.0	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°	6564.0	100.0
0°-180°	6564.0	100.0



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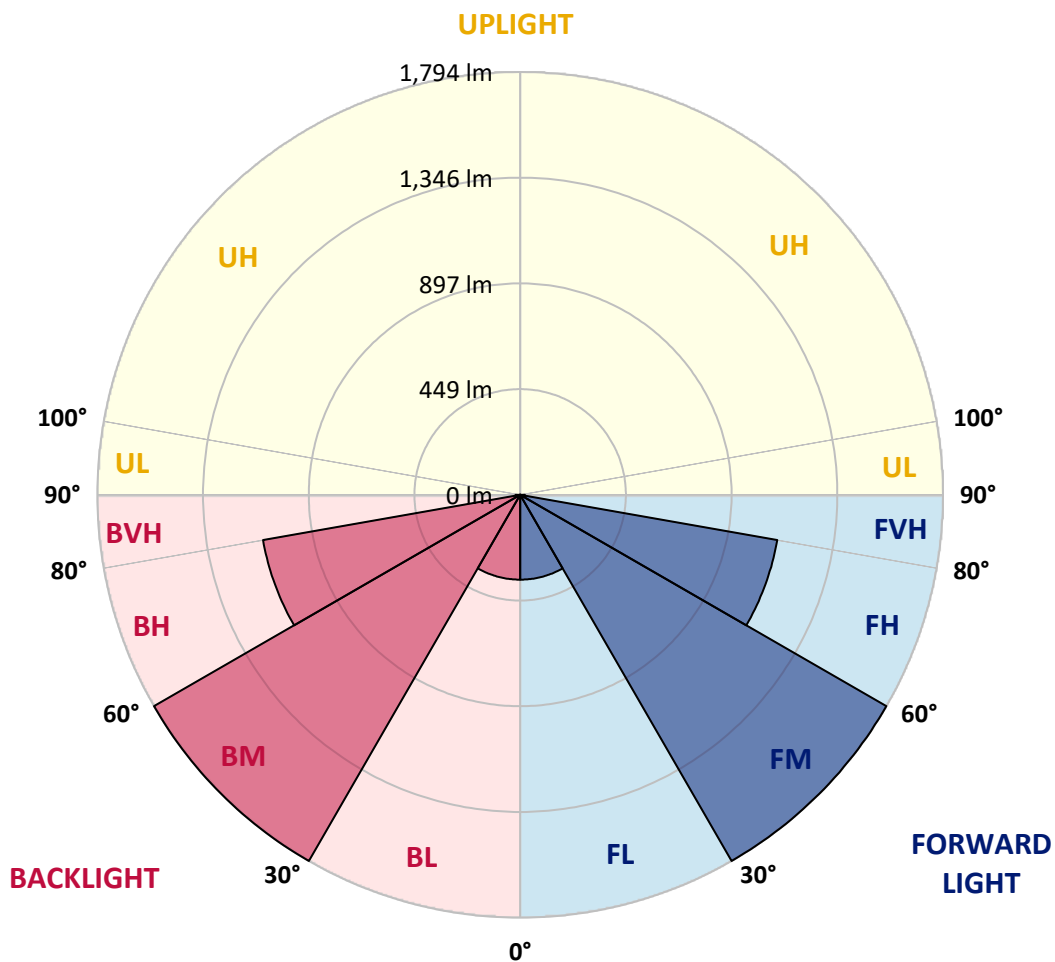
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.0	5.5			
FM	(30°-60°)	1794.5	27.3			
FH	(60°-80°)	1108.0	16.9			G1/1800
FVH	(80°-90°)	19.5	0.3			G1/100
BL	(0°-30°)	360.0	5.5	B1/500		
BM	(30°-60°)	1794.5	27.3	B2/2500		
BH	(60°-80°)	1108.0	16.9	B3/2500		G3/2500
BVH	(80°-90°)	19.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

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°	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4
2.5°	745.3	743.1	745.3	745.3	747.4	747.4	747.4	747.4	745.3	749.6	749.6
5°	745.3	745.3	747.4	747.4	751.8	756.1	749.6	751.8	753.9	751.8	756.1
7.5°	745.3	745.3	745.3	749.6	756.1	760.5	756.1	758.3	762.6	762.6	767.0
10°	738.7	736.6	740.9	749.6	760.5	767.0	764.8	773.5	771.3	773.5	777.8
12.5°	727.9	727.9	736.6	749.6	769.2	773.5	775.7	780.0	786.5	784.4	790.9
15°	730.0	732.2	740.9	758.3	782.2	786.5	788.7	788.7	799.6	795.2	808.3
17.5°	745.3	747.4	756.1	773.5	801.7	801.7	803.9	808.3	823.5	814.8	832.2
20°	769.2	771.3	780.0	799.6	825.6	823.5	827.8	832.2	851.7	843.0	860.4
22.5°	797.4	801.7	812.6	834.3	862.6	849.5	858.2	866.9	886.5	871.3	895.2
25°	836.5	843.0	853.9	877.8	908.2	893.0	901.7	908.2	929.9	908.2	932.1
27.5°	893.0	897.3	906.0	932.1	958.2	947.3	951.7	956.0	982.1	958.2	984.3
30°	960.4	966.9	975.6	999.5	1025.5	1008.2	1016.8	1021.2	1042.9	1019.0	1040.7
32.5°	1045.1	1051.6	1062.5	1084.2	1105.9	1079.9	1082.0	1088.6	1110.3	1086.4	1110.3
35°	1145.0	1149.4	1164.6	1190.7	1205.9	1164.6	1166.8	1166.8	1195.0	1162.4	1188.5
37.5°	1249.3	1253.7	1271.1	1297.1	1314.5	1268.9	1268.9	1271.1	1297.1	1260.2	1284.1
40°	1358.0	1371.0	1390.6	1416.6	1429.7	1377.5	1381.9	1379.7	1410.1	1366.7	1390.6
42.5°	1466.6	1477.5	1505.7	1536.1	1551.3	1499.2	1501.4	1494.9	1525.3	1479.6	1499.2
45°	1560.0	1568.7	1603.5	1646.9	1670.8	1616.5	1616.5	1616.5	1646.9	1590.5	1614.4
47.5°	1636.1	1642.6	1679.5	1742.5	1781.7	1727.3	1731.7	1723.0	1768.6	1699.1	1731.7
50°	1690.4	1692.6	1740.4	1812.1	1879.4	1829.5	1836.0	1840.3	1883.8	1822.9	1851.2
52.5°	1707.8	1712.1	1766.4	1853.4	1951.1	1918.5	1942.4	1951.1	1990.2	1925.1	1964.2
55°	1646.9	1657.8	1740.4	1868.6	2001.1	1990.2	2018.5	2035.9	2085.8	2031.5	2072.8
57.5°	1442.7	1455.7	1570.9	1781.7	2012.0	2029.4	2068.5	2096.7	2168.4	2135.8	2181.4
60°	1151.6	1162.4	1279.8	1534.0	1875.1	1981.6	2070.6	2151.0	2224.9	2231.4	2290.1
62.5°	790.9	806.1	919.1	1162.4	1577.4	1718.6	1846.8	1979.4	2103.2	2253.1	2329.2
65°	386.8	395.4	491.0	725.7	1158.1	1338.4	1488.3	1675.2	1790.3	2005.5	2129.3
67.5°	212.9	212.9	228.1	302.0	619.2	797.4	958.2	1192.8	1310.2	1575.2	1733.9
70°	178.2	178.2	173.8	184.7	234.7	278.1	360.7	495.4	658.3	925.6	1069.0
71°	169.5	167.3	165.1	169.5	189.0	197.7	232.5	304.2	412.8	638.8	780.0
72.5°	158.6	154.3	147.7	149.9	160.8	160.8	167.3	178.2	219.4	299.8	402.0
75°	136.9	132.5	126.0	126.0	128.2	130.4	132.5	136.9	139.1	143.4	160.8
77.5°	113.0	108.6	102.1	102.1	99.9	102.1	106.5	108.6	104.3	113.0	115.2
80°	86.9	80.4	78.2	78.2	76.0	73.9	73.9	73.9	76.0	80.4	82.6
82.5°	54.3	50.0	52.1	50.0	47.8	47.8	47.8	47.8	50.0	50.0	54.3
85°	26.1	26.1	28.2	26.1	21.7	21.7	19.6	17.4	19.6	17.4	21.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4
2.5°	743.1	747.4	745.3	747.4	743.1	747.4	740.9	747.4	745.3	747.4	743.1
5°	749.6	756.1	749.6	758.3	749.6	758.3	749.6	758.3	751.8	758.3	749.6
7.5°	756.1	769.2	760.5	771.3	760.5	773.5	760.5	773.5	764.8	775.7	760.5
10°	769.2	784.4	771.3	784.4	771.3	786.5	771.3	788.7	775.7	793.1	773.5
12.5°	780.0	797.4	784.4	801.7	782.2	806.1	786.5	812.6	790.9	817.0	790.9
15°	795.2	817.0	803.9	823.5	803.9	830.0	806.1	836.5	812.6	840.9	812.6
17.5°	817.0	840.9	823.5	847.4	825.6	853.9	827.8	860.4	836.5	864.8	836.5
20°	847.4	866.9	849.5	875.6	851.7	877.8	856.1	882.1	862.6	888.7	862.6
22.5°	882.1	899.5	886.5	901.7	880.0	901.7	880.0	901.7	886.5	908.2	886.5
25°	921.2	934.3	919.1	934.3	914.7	932.1	912.6	929.9	914.7	934.3	919.1
27.5°	973.4	979.9	962.5	975.6	951.7	969.0	947.3	964.7	949.5	966.9	956.0
30°	1029.9	1036.4	1019.0	1027.7	1001.6	1012.5	988.6	1003.8	990.8	1003.8	997.3
32.5°	1092.9	1101.6	1082.0	1086.4	1064.6	1066.8	1047.3	1053.8	1042.9	1047.3	1045.1
35°	1164.6	1175.5	1153.7	1160.3	1136.4	1136.4	1119.0	1116.8	1112.5	1108.1	1108.1
37.5°	1255.9	1260.2	1242.8	1242.8	1214.6	1214.6	1192.8	1192.8	1184.2	1175.5	1171.1
40°	1355.8	1358.0	1329.7	1327.6	1299.3	1299.3	1275.4	1268.9	1253.7	1242.8	1236.3
42.5°	1462.3	1460.1	1418.8	1423.2	1381.9	1384.0	1353.6	1347.1	1331.9	1318.9	1305.8
45°	1570.9	1562.2	1520.9	1518.8	1471.0	1473.1	1436.2	1431.8	1410.1	1397.1	1381.9
47.5°	1681.7	1677.4	1631.7	1620.9	1570.9	1568.7	1520.9	1520.9	1499.2	1486.2	1471.0
50°	1796.9	1794.7	1742.5	1736.0	1683.9	1675.2	1618.7	1618.7	1592.6	1588.3	1566.6
52.5°	1922.9	1914.2	1857.7	1855.5	1805.6	1799.0	1738.2	1733.9	1694.7	1692.6	1668.7
55°	2046.7	2031.5	1994.6	1977.2	1927.2	1925.1	1870.7	1859.9	1809.9	1809.9	1779.5
57.5°	2159.7	2146.7	2116.3	2101.1	2053.3	2046.7	1988.1	1988.1	1944.6	1942.4	1909.9
60°	2277.0	2281.4	2248.8	2242.3	2196.7	2194.5	2135.8	2135.8	2092.4	2090.2	2053.3
62.5°	2377.0	2420.4	2407.4	2411.8	2372.6	2366.1	2307.5	2303.1	2253.1	2246.6	2216.2
65°	2279.2	2431.3	2529.1	2594.3	2589.9	2587.8	2531.3	2522.6	2459.6	2442.2	2392.2
67.5°	1914.2	2111.9	2290.1	2485.6	2629.0	2737.7	2770.3	2757.2	2702.9	2652.9	2592.1
70°	1281.9	1510.1	1736.0	1979.4	2224.9	2463.9	2709.4	2815.9	2928.9	2889.8	2878.9
71°	975.6	1210.2	1436.2	1692.6	1953.3	2218.4	2520.4	2646.4	2874.6	2872.4	2931.0
72.5°	549.7	758.3	999.5	1223.3	1468.8	1742.5	2053.3	2192.3	2520.4	2585.6	2755.1
75°	176.0	241.2	319.4	504.1	656.2	906.0	1136.4	1275.4	1492.7	1601.3	1838.2
77.5°	117.3	130.4	134.7	156.4	176.0	249.9	338.9	415.0	456.3	478.0	501.9
80°	84.7	91.3	95.6	106.5	108.6	121.7	121.7	134.7	132.5	141.2	134.7
82.5°	54.3	60.8	63.0	67.4	69.5	78.2	82.6	91.3	91.3	95.6	93.4
85°	26.1	30.4	30.4	34.8	34.8	41.3	41.3	47.8	47.8	54.3	52.1
87.5°	2.2	2.2	2.2	4.3	4.3	4.3	6.5	8.7	8.7	8.7	8.7
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°	747.4	747.4	747.4	747.4	747.4
2.5°	749.6	747.4	749.6	745.3	749.6
5°	760.5	751.8	762.6	751.8	762.6
7.5°	777.8	767.0	780.0	762.6	777.8
10°	793.1	777.8	795.2	777.8	793.1
12.5°	819.1	795.2	823.5	795.2	823.5
15°	845.2	817.0	851.7	821.3	849.5
17.5°	869.1	843.0	875.6	845.2	873.4
20°	890.8	866.9	895.2	864.8	895.2
22.5°	912.6	897.3	919.1	897.3	919.1
25°	940.8	929.9	945.1	929.9	945.1
27.5°	973.4	969.0	977.7	966.9	979.9
30°	1010.3	1012.5	1014.7	1012.5	1016.8
32.5°	1056.0	1066.8	1062.5	1062.5	1062.5
35°	1119.0	1138.5	1125.5	1129.8	1127.7
37.5°	1177.6	1205.9	1188.5	1195.0	1190.7
40°	1242.8	1262.4	1258.0	1258.0	1253.7
42.5°	1314.5	1338.4	1331.9	1334.1	1329.7
45°	1392.7	1414.5	1405.8	1403.6	1405.8
47.5°	1481.8	1505.7	1494.9	1492.7	1494.9
50°	1575.2	1603.5	1594.8	1590.5	1594.8
52.5°	1677.4	1712.1	1707.8	1703.4	1710.0
55°	1796.9	1829.5	1825.1	1829.5	1831.6
57.5°	1916.4	1953.3	1944.6	1955.5	1959.8
60°	2066.3	2088.0	2090.2	2092.4	2094.5
62.5°	2218.4	2227.1	2233.6	2240.1	2242.3
65°	2394.4	2396.5	2400.9	2394.4	2400.9
67.5°	2563.9	2548.6	2546.5	2553.0	2557.3
70°	2826.8	2826.8	2805.0	2835.4	2809.4
71°	2861.5	2902.8	2855.0	2922.4	2850.7
72.5°	2692.0	2768.1	2713.8	2774.6	2702.9
75°	1872.9	2048.9	2046.7	2133.6	2064.1
77.5°	519.3	486.7	519.3	447.6	428.0
80°	141.2	128.2	139.1	117.3	132.5
82.5°	93.4	80.4	78.2	63.0	67.4
85°	54.3	41.3	41.3	32.6	34.8
87.5°	8.7	2.2	8.7	4.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)