

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: P227582

Luminaire Tested: **ISS-AF-800-LED-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-T2-7050
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4791 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

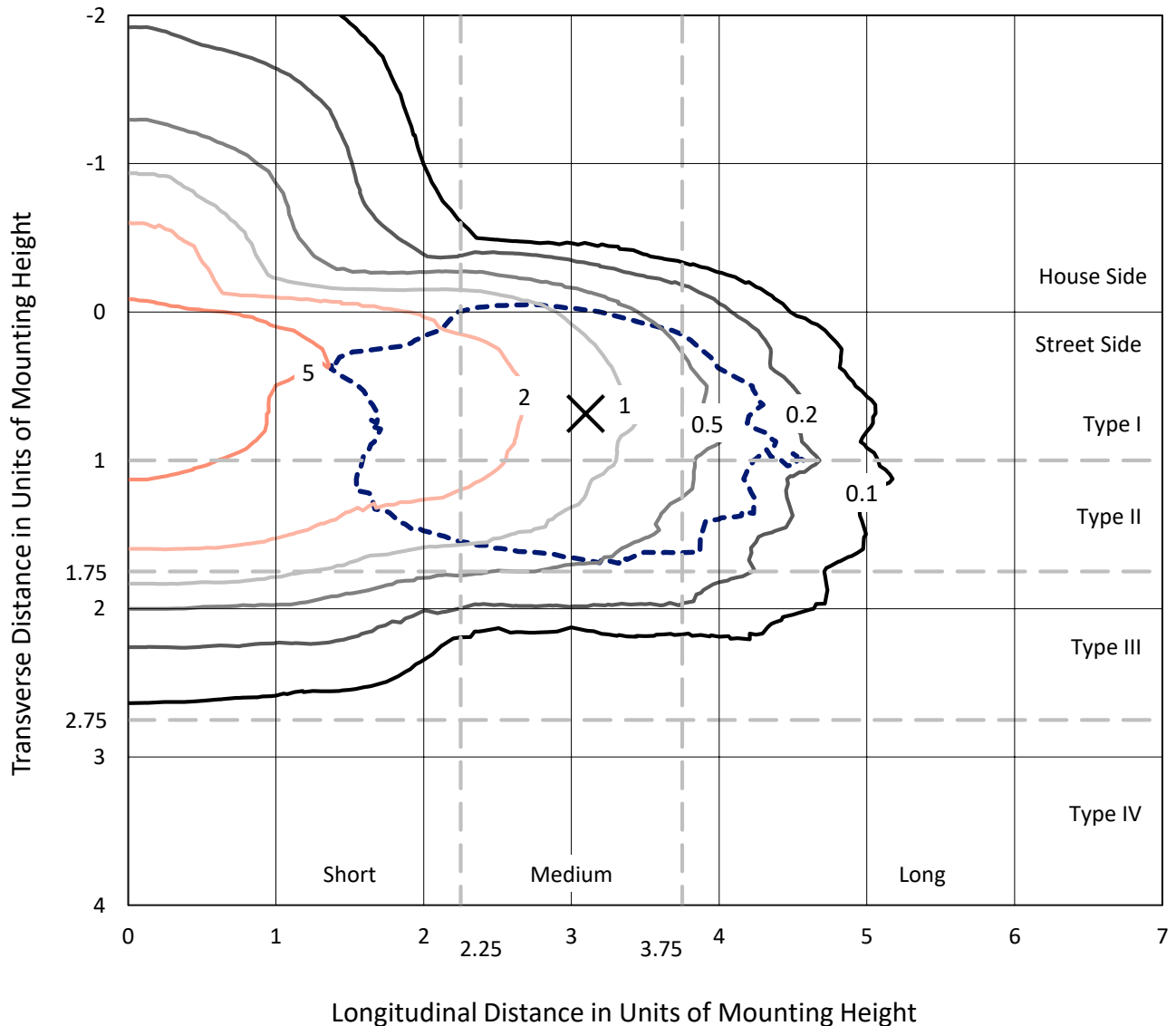
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

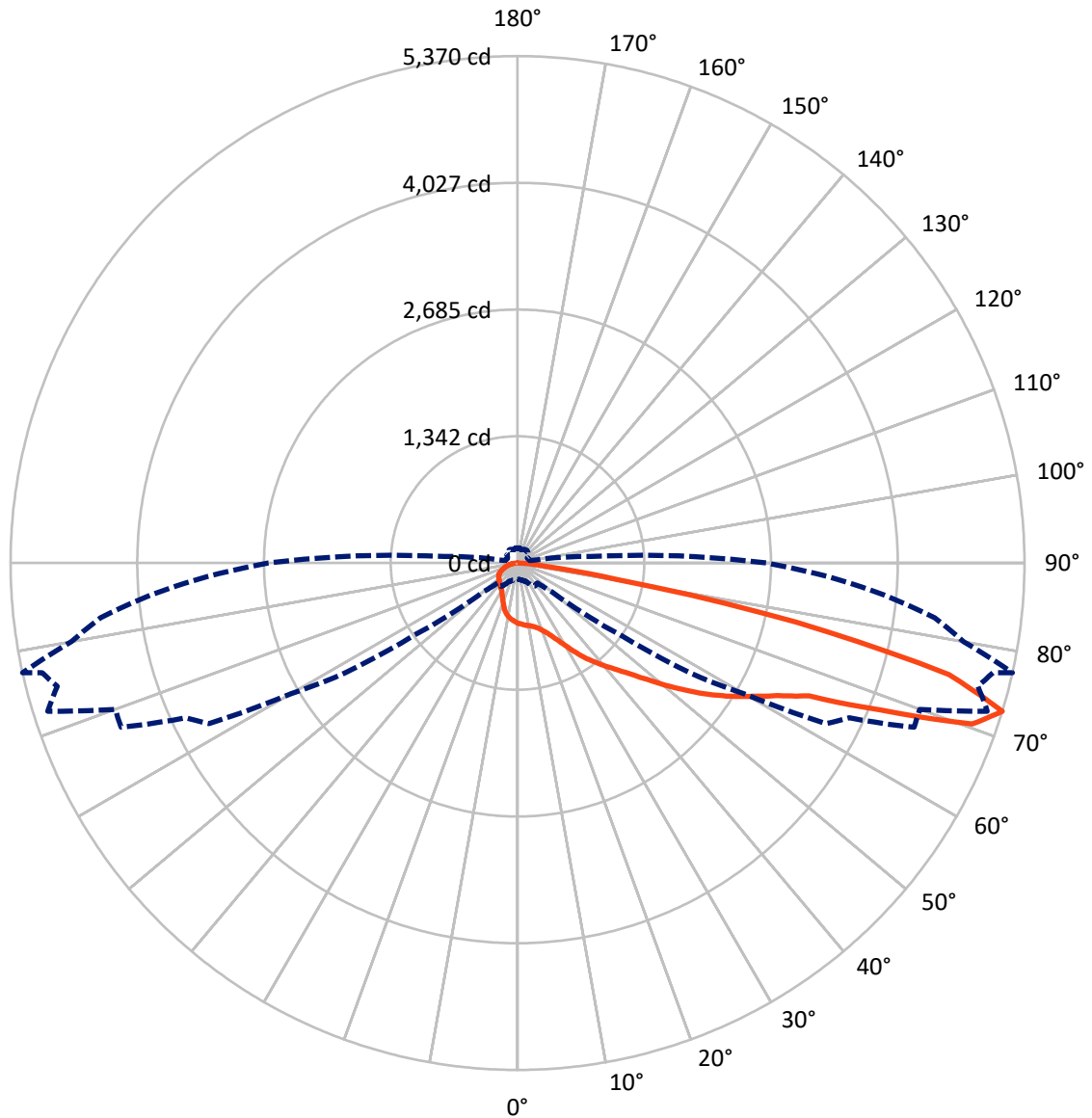
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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	793.9	0.0	793.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3997.1	0.0	3997.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	4791.0	0.0	4791.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.2
10°-20°	182.2	3.8
20°-30°	323.4	6.8
30°-40°	512.4	10.7
40°-50°	768.7	16.0
50°-60°	996.1	20.8
60°-70°	1131.9	23.6
70°-80°	751.1	15.7
80°-90°	65.7	1.4
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°	4791.0	100.0
0°-180°	4791.0	100.0



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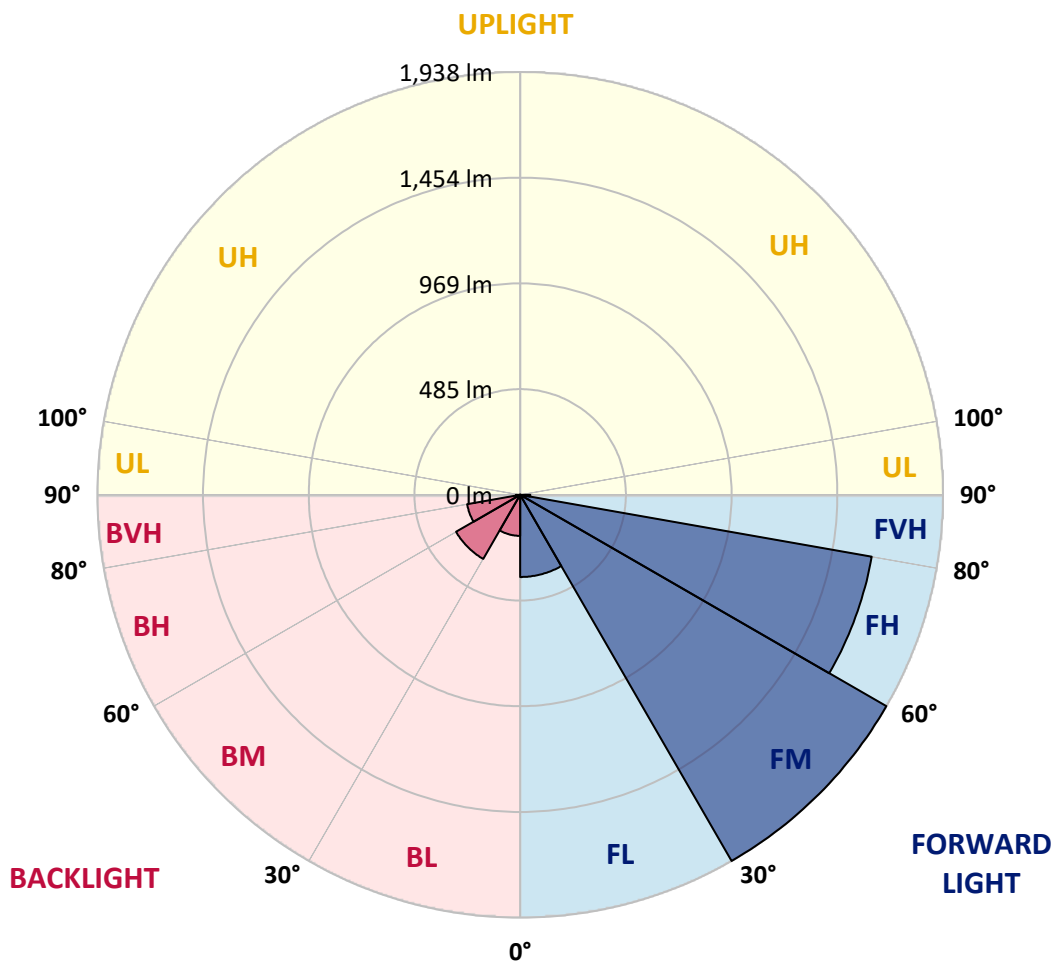
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.9	7.9			
FM	(30°-60°)	1938.2	40.5			
FH	(60°-80°)	1636.1	34.1			G1/1800
FVH	(80°-90°)	45.9	1.0			G1/100
BL	(0°-30°)	188.1	3.9	B1/500		
BM	(30°-60°)	339.1	7.1	B1/1000		
BH	(60°-80°)	246.9	5.2	B1/500		G1/500
BVH	(80°-90°)	19.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-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°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	693.0	689.8	688.1	684.9	681.7	680.1	675.2	672.0	676.8	675.2	675.2
5°	744.7	741.5	736.6	731.8	725.3	720.5	715.6	710.8	714.0	710.8	707.5
7.5°	786.7	783.4	777.0	772.1	765.7	759.2	752.8	751.1	747.9	743.1	741.5
10°	810.9	807.7	804.4	801.2	791.5	786.7	778.6	773.8	775.4	768.9	768.9
12.5°	833.5	830.3	828.7	828.7	820.6	815.8	812.5	807.7	810.9	801.2	798.0
15°	854.5	851.3	846.4	851.3	849.7	848.1	846.4	844.8	849.7	840.0	841.6
17.5°	888.4	886.8	877.1	870.7	872.3	877.1	880.4	878.8	878.8	873.9	875.5
20°	941.8	941.8	928.8	917.5	899.8	899.8	901.4	899.8	903.0	906.2	911.1
22.5°	982.1	978.9	974.1	964.4	945.0	928.8	928.8	922.4	927.2	928.8	938.5
25°	1033.8	1030.6	1019.3	1019.3	999.9	978.9	975.7	966.0	977.3	956.3	972.4
27.5°	1096.8	1093.6	1079.1	1072.6	1062.9	1037.1	1030.6	1032.2	1043.5	1012.8	1029.0
30°	1176.0	1172.8	1155.0	1137.2	1121.1	1093.6	1090.4	1088.8	1114.6	1079.1	1100.1
32.5°	1276.1	1276.1	1256.8	1232.5	1200.2	1163.1	1150.1	1151.8	1187.3	1148.5	1184.1
35°	1428.0	1408.6	1373.1	1335.9	1302.0	1258.4	1240.6	1237.4	1269.7	1230.9	1271.3
37.5°	1524.9	1512.0	1479.7	1452.2	1415.1	1373.1	1360.1	1365.0	1392.4	1335.9	1394.1
40°	1612.1	1610.5	1589.5	1571.7	1534.6	1492.6	1508.7	1573.4	1646.1	1536.2	1537.8
42.5°	1670.3	1673.5	1671.9	1673.5	1652.5	1608.9	1636.4	1726.8	1851.2	1786.6	1726.8
45°	1680.0	1691.3	1696.1	1728.4	1749.4	1723.6	1738.1	1833.4	2082.2	2182.4	1912.6
47.5°	1704.2	1715.5	1705.8	1744.6	1841.5	1839.9	1898.0	1933.6	1967.5	1983.7	2187.2
50°	1736.5	1757.5	1747.8	1780.1	1859.3	1904.5	1954.6	1999.8	1972.4	1870.6	1925.5
52.5°	1738.1	1762.4	1815.7	1848.0	1925.5	1915.8	1949.7	1925.5	1967.5	1862.5	1915.8
55°	1596.0	1600.8	1755.9	1919.0	2054.7	2027.3	2006.3	1951.4	2004.7	1873.8	1941.7
57.5°	1371.4	1387.6	1549.1	1823.7	2114.5	2138.7	2132.3	2127.4	2169.4	1995.0	2069.3
60°	1124.3	1143.7	1297.1	1620.2	1990.1	2053.1	2140.4	2193.7	2301.9	2232.4	2355.2
62.5°	701.1	715.6	885.2	1289.1	1755.9	1880.3	2007.9	2070.9	2227.6	2259.9	2468.3
65°	334.4	339.2	405.5	701.1	1276.1	1510.4	1699.4	1833.4	2025.7	2171.0	2452.1
67.5°	260.1	261.7	285.9	373.1	654.2	810.9	1025.8	1203.4	1408.6	1806.0	2154.9
70°	208.4	208.4	227.8	274.6	405.5	426.5	481.4	541.1	628.4	948.2	1230.9
72.5°	174.5	174.5	187.4	216.5	300.5	305.3	302.1	297.2	297.2	374.8	478.1
75°	147.0	145.4	153.5	172.8	222.9	229.4	226.2	214.8	201.9	201.9	227.8
77.5°	119.5	119.5	126.0	135.7	161.5	164.8	164.8	155.1	143.8	145.4	156.7
80°	93.7	93.7	98.5	105.0	113.1	111.5	111.5	101.8	93.7	92.1	98.5
82.5°	67.8	69.5	80.8	75.9	72.7	67.8	67.8	66.2	59.8	54.9	58.2
85°	21.0	22.6	38.8	45.2	37.2	30.7	29.1	24.2	25.8	21.0	24.2
87.5°	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	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°
0°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	667.1	670.4	663.9	663.9	655.8	660.7	652.6	654.2	646.1	649.4	649.4
5°	699.5	701.1	693.0	689.8	681.7	681.7	673.6	673.6	662.3	665.5	662.3
7.5°	730.1	730.1	722.1	715.6	707.5	704.3	694.6	689.8	680.1	678.5	673.6
10°	756.0	756.0	744.7	738.2	728.5	723.7	710.8	705.9	694.6	686.5	681.7
12.5°	788.3	785.1	772.1	765.7	749.5	747.9	728.5	725.3	709.1	704.3	696.2
15°	827.1	830.3	809.3	807.7	785.1	783.4	757.6	756.0	731.8	730.1	718.8
17.5°	869.1	875.5	857.8	856.1	828.7	828.7	798.0	796.4	764.1	762.5	747.9
20°	906.2	914.3	903.0	906.2	882.0	883.6	849.7	849.7	804.4	801.2	788.3
22.5°	940.1	956.3	946.6	964.4	940.1	951.4	906.2	914.3	861.0	854.5	835.1
25°	974.1	995.1	991.8	1020.9	1003.1	1022.5	975.7	991.8	922.4	927.2	901.4
27.5°	1008.0	1035.4	1032.2	1074.2	1067.8	1106.5	1066.1	1083.9	1008.0	1012.8	983.8
30°	1064.5	1095.2	1083.9	1127.5	1127.5	1190.5	1159.8	1187.3	1103.3	1113.0	1079.1
32.5°	1140.4	1176.0	1142.1	1198.6	1195.4	1277.8	1253.5	1300.4	1218.0	1230.9	1188.9
35°	1222.8	1279.4	1224.4	1287.4	1277.8	1363.4	1347.2	1423.1	1335.9	1350.4	1308.4
37.5°	1331.1	1398.9	1326.2	1381.1	1337.5	1436.1	1426.4	1529.7	1440.9	1478.1	1428.0
40°	1458.7	1512.0	1421.5	1468.4	1395.7	1497.4	1481.3	1623.4	1541.1	1600.8	1555.6
42.5°	1576.6	1613.7	1494.2	1552.4	1465.1	1568.5	1539.4	1710.7	1639.6	1731.7	1681.6
45°	1683.2	1725.2	1566.9	1631.5	1534.6	1647.7	1597.6	1794.7	1746.2	1885.1	1835.0
47.5°	1835.0	1773.7	1633.1	1717.1	1608.9	1733.3	1667.1	1893.2	1875.4	2072.5	2014.4
50°	1785.0	1825.4	1688.1	1775.3	1676.7	1828.6	1755.9	2011.1	2016.0	2276.0	2242.1
52.5°	1789.8	1857.7	1730.1	1851.2	1755.9	1961.0	1885.1	2153.3	2175.9	2473.1	2426.3
55°	1818.9	1919.0	1793.1	1956.2	1867.4	2108.0	2054.7	2306.7	2345.5	2658.9	2631.4
57.5°	1891.6	2030.5	1901.3	2114.5	2022.4	2276.0	2227.6	2465.0	2518.3	2844.6	2836.6
60°	2171.0	2335.8	2109.7	2345.5	2222.7	2466.7	2402.0	2631.4	2684.7	3022.3	3043.3
62.5°	2482.8	2768.7	2634.7	2880.2	2555.5	2802.7	2612.0	2836.6	2839.8	3213.0	3279.2
65°	2563.6	3003.0	3117.6	3574.8	3405.2	3658.8	3150.0	3300.2	3106.3	3560.3	3655.6
67.5°	2532.9	3070.8	3389.0	3904.3	4096.6	4539.2	4453.5	4401.9	3952.8	4279.1	4393.8
70°	1859.3	2429.5	3208.1	3731.5	4285.6	4576.3	5036.7	5083.5	5064.2	5018.9	5094.8
72.5°	846.4	1327.8	2171.0	2768.7	3683.0	3878.5	4545.6	4532.7	5217.6	5048.0	5167.5
75°	332.8	512.1	1033.8	1545.9	2547.4	2788.1	3544.1	3356.7	4211.2	3962.5	4217.7
77.5°	182.5	229.4	387.7	663.9	1390.8	1518.4	2169.4	1856.0	2612.0	2180.7	2266.4
80°	109.8	137.3	177.7	252.0	591.2	625.1	925.6	746.3	1067.8	810.9	786.7
82.5°	59.8	74.3	88.8	124.4	219.7	243.9	319.8	287.5	342.5	292.4	285.9
85°	24.2	32.3	33.9	50.1	72.7	84.0	101.8	109.8	134.1	122.8	119.5
87.5°	0.0	1.6	0.0	3.2	0.0	3.2	0.0	4.8	4.8	8.1	9.7
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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	644.5	649.4	642.9	642.9	634.8	639.7	634.8	630.0	621.9	623.5	612.2
5°	655.8	659.1	651.0	647.8	642.9	641.3	631.6	621.9	610.6	610.6	597.7
7.5°	667.1	667.1	655.8	655.8	644.5	641.3	626.8	610.6	594.5	592.8	573.5
10°	673.6	672.0	657.5	657.5	641.3	639.7	621.9	597.7	575.1	568.6	541.1
12.5°	686.5	684.9	667.1	663.9	642.9	642.9	617.1	584.8	552.5	541.1	502.4
15°	702.7	704.3	683.3	678.5	654.2	652.6	617.1	568.6	525.0	507.2	460.4
17.5°	728.5	730.1	701.1	696.2	667.1	662.3	618.7	549.2	487.8	468.5	426.5
20°	762.5	757.6	718.8	717.2	678.5	673.6	617.1	520.1	450.7	431.3	394.1
22.5°	804.4	799.6	749.5	744.7	699.5	691.4	615.5	489.5	416.8	395.8	371.5
25°	862.6	856.1	794.8	788.3	731.8	718.8	613.8	457.1	387.7	371.5	357.0
27.5°	935.3	922.4	848.1	841.6	765.7	749.5	607.4	420.0	358.6	347.3	340.8
30°	1022.5	1011.2	915.9	906.2	810.9	789.9	600.9	386.1	337.6	332.8	327.9
32.5°	1125.9	1114.6	998.3	987.0	869.1	838.4	589.6	358.6	324.7	324.7	318.2
35°	1234.1	1224.4	1087.1	1079.1	933.7	893.3	575.1	334.4	313.4	313.4	306.9
37.5°	1331.1	1339.1	1184.1	1177.6	998.3	948.2	558.9	318.2	303.7	300.5	294.0
40°	1436.1	1455.4	1274.5	1279.4	1066.1	1006.4	539.5	305.3	292.4	289.1	287.5
42.5°	1542.7	1579.8	1369.8	1387.6	1134.0	1066.1	525.0	297.2	287.5	281.1	279.5
45°	1675.1	1728.4	1487.7	1521.7	1213.1	1138.8	520.1	287.5	273.0	264.9	260.1
47.5°	1839.9	1911.0	1633.1	1671.9	1318.1	1226.1	529.8	284.3	263.3	253.6	243.9
50°	2035.4	2103.2	1806.0	1822.1	1436.1	1321.4	550.8	289.1	260.1	245.5	231.0
52.5°	2242.1	2293.8	1988.5	1970.7	1558.8	1415.1	575.1	290.8	252.0	237.5	219.7
55°	2455.3	2484.4	2158.1	2111.3	1670.3	1508.7	607.4	289.1	245.5	229.4	206.8
57.5°	2663.7	2673.4	2308.4	2263.1	1780.1	1620.2	647.8	284.3	235.8	219.7	195.5
60°	2867.3	2883.4	2474.7	2432.7	1899.7	1764.0	705.9	276.2	222.9	211.6	185.8
62.5°	3090.2	3143.5	2673.4	2679.9	2064.4	1988.5	815.8	266.5	210.0	197.1	171.2
65°	3393.9	3597.4	3001.3	3153.2	2381.0	2411.7	1025.8	239.1	192.2	176.1	158.3
67.5°	4154.7	4377.6	3797.7	3859.1	3122.5	2940.0	1158.2	203.5	169.6	158.3	147.0
70°	5107.8	4947.8	4535.9	4164.4	3555.4	3022.3	1019.3	171.2	150.2	143.8	137.3
72.5°	5369.5	4796.0	4456.8	3899.5	3287.3	2636.3	780.2	147.0	134.1	130.8	126.0
75°	4718.5	3888.2	3907.6	3098.3	2725.1	2009.5	533.1	126.0	116.3	114.7	113.1
77.5°	3017.5	1998.2	2432.7	1531.4	1573.4	930.4	260.1	105.0	100.2	100.2	96.9
80°	1072.6	665.5	752.8	483.0	439.4	295.6	140.5	84.0	80.8	82.4	80.8
82.5°	321.5	255.2	250.4	195.5	151.8	124.4	77.5	64.6	61.4	63.0	59.8
85°	129.2	100.2	84.0	64.6	53.3	48.5	42.0	43.6	38.8	42.0	37.2
87.5°	8.1	6.5	4.8	6.5	0.0	3.2	8.1	6.5	1.6	6.5	4.8
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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	620.3	609.0	613.8	609.0	612.2	602.5	605.8	597.7	597.7	596.1	588.0
5°	599.3	588.0	586.4	575.1	576.7	563.8	562.1	547.6	547.6	534.7	510.5
7.5°	570.2	552.5	550.8	528.2	526.6	508.8	502.4	486.2	484.6	470.1	455.5
10°	533.1	505.6	500.8	471.7	473.3	453.9	452.3	441.0	441.0	434.5	434.5
12.5°	491.1	460.4	457.1	434.5	436.1	423.2	424.8	418.4	421.6	424.8	436.1
15°	452.3	428.1	424.8	410.3	411.9	408.7	413.5	413.5	418.4	426.5	445.8
17.5°	420.0	399.0	400.6	394.1	400.6	399.0	408.7	407.1	416.8	426.5	450.7
20°	390.9	379.6	384.5	382.8	390.9	390.9	399.0	400.6	408.7	421.6	449.1
22.5°	371.5	368.3	373.1	373.1	379.6	381.2	389.3	394.1	399.0	411.9	436.1
25°	360.2	358.6	363.5	365.1	369.9	371.5	379.6	379.6	387.7	395.8	408.7
27.5°	344.1	340.8	347.3	347.3	353.8	352.1	361.8	358.6	366.7	369.9	373.1
30°	332.8	327.9	332.8	331.1	336.0	331.1	336.0	331.1	336.0	336.0	331.1
32.5°	321.5	316.6	318.2	311.8	316.6	310.1	311.8	305.3	308.5	305.3	306.9
35°	310.1	303.7	303.7	295.6	295.6	287.5	290.8	284.3	290.8	295.6	294.0
37.5°	294.0	289.1	289.1	282.7	285.9	282.7	289.1	285.9	287.5	281.1	269.8
40°	284.3	287.5	285.9	290.8	287.5	282.7	277.8	268.1	266.5	263.3	256.8
42.5°	269.8	273.0	264.9	271.4	266.5	268.1	264.9	260.1	256.8	253.6	247.2
45°	248.8	248.8	242.3	252.0	247.2	256.8	253.6	253.6	250.4	245.5	240.7
47.5°	231.0	232.6	226.2	234.2	231.0	243.9	242.3	247.2	247.2	243.9	231.0
50°	219.7	216.5	211.6	219.7	218.1	229.4	231.0	240.7	239.1	240.7	229.4
52.5°	210.0	203.5	198.7	203.5	203.5	213.2	216.5	227.8	229.4	232.6	226.2
55°	198.7	190.6	187.4	190.6	190.6	200.3	205.2	213.2	218.1	227.8	224.5
57.5°	189.0	177.7	174.5	177.7	179.3	189.0	193.8	201.9	208.4	221.3	219.7
60°	177.7	168.0	164.8	169.6	171.2	180.9	185.8	193.8	198.7	213.2	213.2
62.5°	164.8	156.7	156.7	158.3	161.5	171.2	174.5	185.8	187.4	205.2	206.8
65°	153.5	148.6	148.6	150.2	153.5	161.5	163.2	174.5	176.1	193.8	198.7
67.5°	143.8	140.5	140.5	142.2	143.8	150.2	151.8	163.2	166.4	182.5	190.6
70°	134.1	130.8	129.2	129.2	134.1	138.9	142.2	153.5	155.1	169.6	179.3
72.5°	122.8	119.5	119.5	117.9	122.8	126.0	132.5	138.9	142.2	156.7	163.2
75°	111.5	108.2	108.2	106.6	109.8	116.3	117.9	124.4	126.0	138.9	145.4
77.5°	96.9	93.7	93.7	93.7	96.9	98.5	100.2	106.6	109.8	121.2	127.6
80°	80.8	77.5	79.2	77.5	82.4	75.9	80.8	87.2	90.5	96.9	93.7
82.5°	61.4	56.5	58.2	58.2	59.8	54.9	58.2	61.4	64.6	69.5	67.8
85°	38.8	33.9	37.2	33.9	37.2	32.3	35.5	35.5	38.8	35.5	33.9
87.5°	8.1	3.2	8.1	3.2	9.7	0.0	4.8	0.0	3.2	1.6	0.0
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):

	155°	165°	175°	180°
0°	639.7	639.7	639.7	639.7
2.5°	579.9	573.5	570.2	568.6
5°	497.5	486.2	483.0	479.8
7.5°	447.5	444.2	444.2	442.6
10°	437.8	442.6	444.2	444.2
12.5°	449.1	457.1	463.6	463.6
15°	463.6	478.1	486.2	486.2
17.5°	474.9	494.3	502.4	504.0
20°	476.5	495.9	507.2	508.8
22.5°	462.0	474.9	483.0	483.0
25°	424.8	431.3	436.1	436.1
27.5°	378.0	376.4	374.8	381.2
30°	329.5	326.3	319.8	326.3
32.5°	311.8	300.5	284.3	289.1
35°	284.3	281.1	273.0	274.6
37.5°	274.6	302.1	300.5	302.1
40°	263.3	297.2	295.6	298.8
42.5°	253.6	273.0	253.6	255.2
45°	235.8	243.9	227.8	227.8
47.5°	227.8	224.5	218.1	216.5
50°	221.3	221.3	218.1	214.8
52.5°	216.5	213.2	224.5	222.9
55°	210.0	206.8	214.8	214.8
57.5°	205.2	197.1	210.0	210.0
60°	200.3	192.2	205.2	205.2
62.5°	197.1	187.4	203.5	201.9
65°	192.2	182.5	203.5	200.3
67.5°	185.8	172.8	200.3	195.5
70°	172.8	161.5	189.0	176.1
72.5°	159.9	147.0	161.5	150.2
75°	140.5	129.2	130.8	129.2
77.5°	117.9	105.0	101.8	103.4
80°	88.8	80.8	77.5	77.5
82.5°	64.6	54.9	56.5	46.8
85°	29.1	21.0	16.2	16.2
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)