

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: P227589

Luminaire Tested: **ISS-AF-1000-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227589
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-1000-LED-E1-T2-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4621 lumens
Efficiency: N/A
Efficacy: 84.6 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

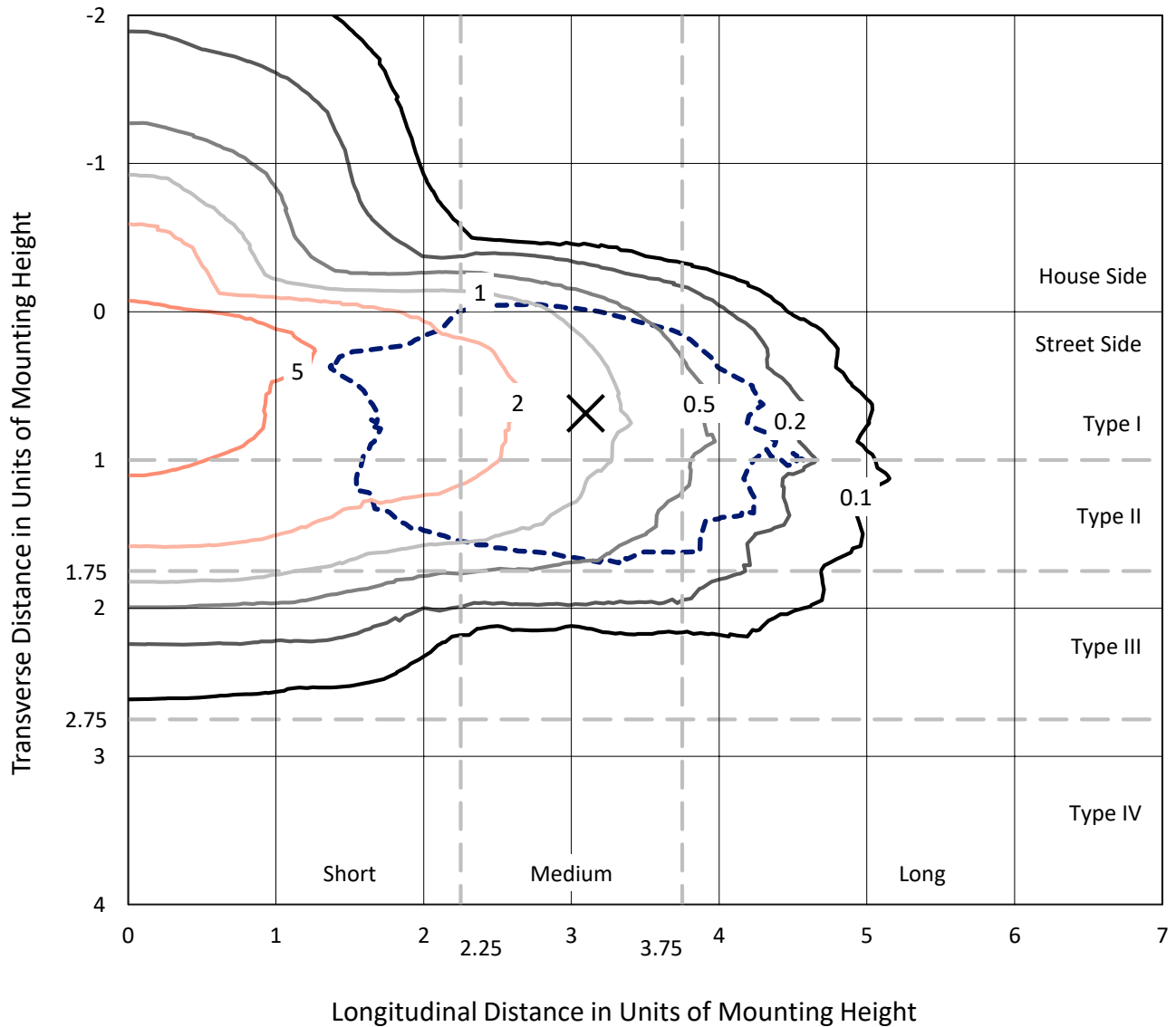
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

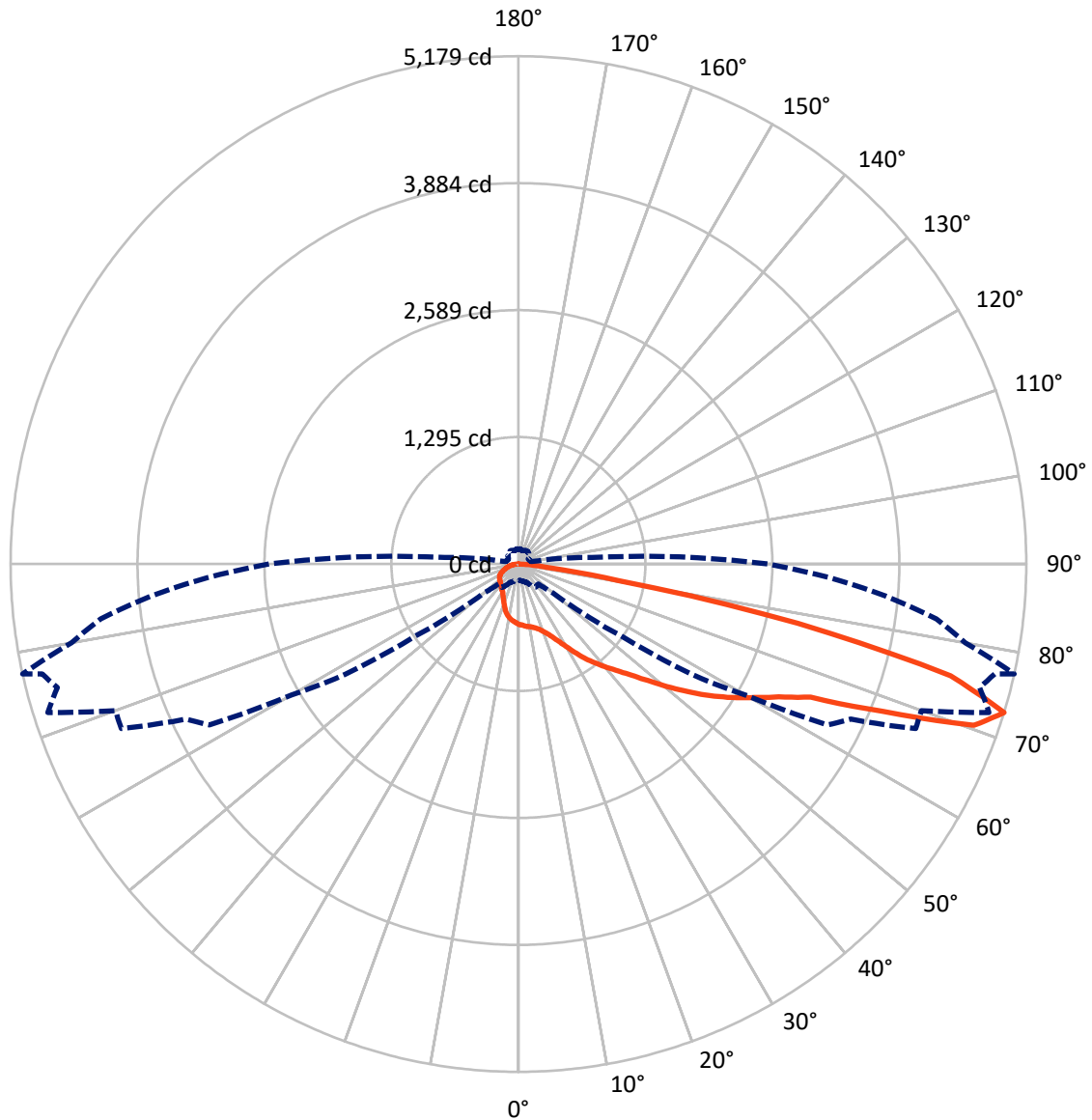
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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	765.7	0.0	765.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3855.3	0.0	3855.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	4621.0	0.0	4621.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.2
10°-20°	175.7	3.8
20°-30°	311.9	6.8
30°-40°	494.3	10.7
40°-50°	741.5	16.0
50°-60°	960.8	20.8
60°-70°	1091.7	23.6
70°-80°	724.5	15.7
80°-90°	63.4	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°	4621.0	100.0
0°-180°	4621.0	100.0



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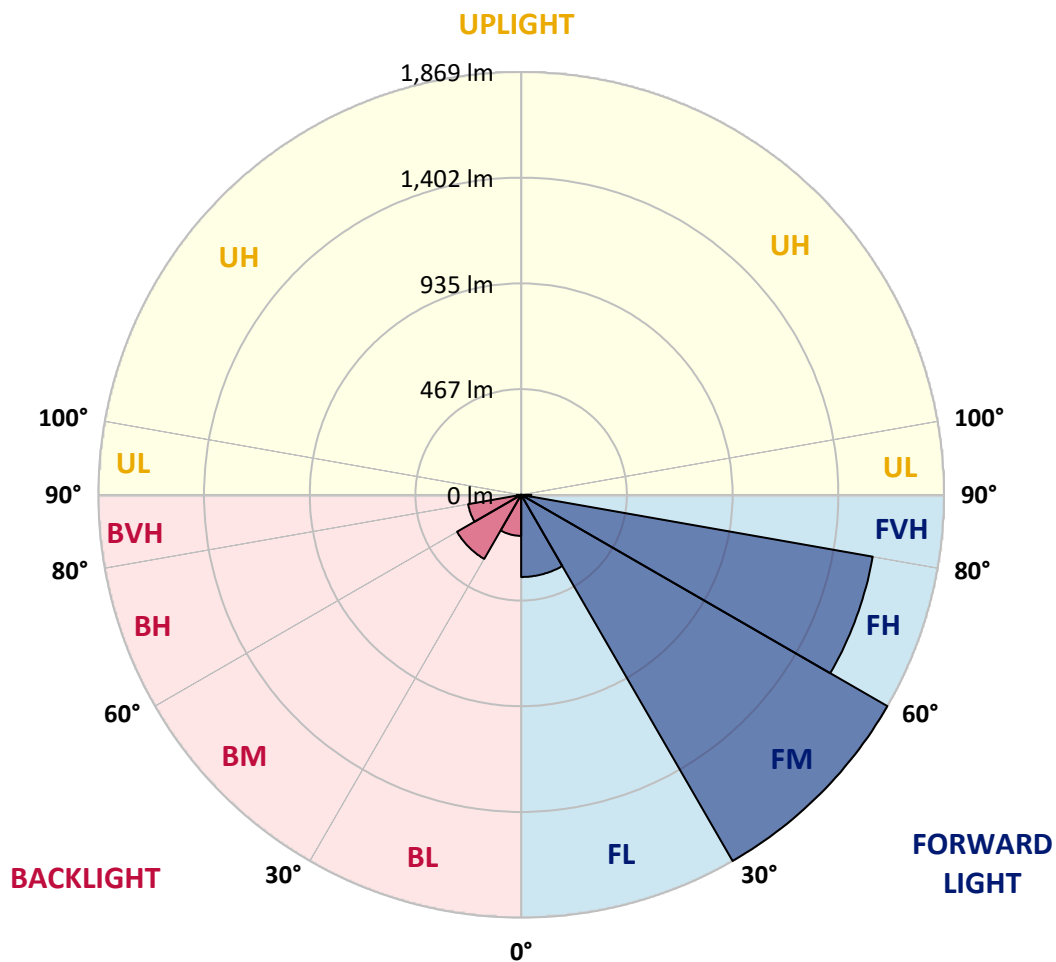
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.5	7.9			
FM	(30°-60°)	1869.4	40.5			
FH	(60°-80°)	1578.1	34.1			G1/1800
FVH	(80°-90°)	44.3	1.0			G1/100
BL	(0°-30°)	181.4	3.9	B1/500		
BM	(30°-60°)	327.1	7.1	B1/1000		
BH	(60°-80°)	238.1	5.2	B1/500		G1/500
BVH	(80°-90°)	19.1	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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	668.4	665.3	663.7	660.6	657.5	655.9	651.3	648.1	652.8	651.3	651.3
5°	718.3	715.1	710.5	705.8	699.6	694.9	690.2	685.5	688.7	685.5	682.4
7.5°	758.8	755.7	749.4	744.7	738.5	732.3	726.0	724.5	721.4	716.7	715.1
10°	782.1	779.0	775.9	772.8	763.4	758.8	751.0	746.3	747.9	741.6	741.6
12.5°	803.9	800.8	799.3	799.3	791.5	786.8	783.7	779.0	782.1	772.8	769.7
15°	824.2	821.1	816.4	821.1	819.5	818.0	816.4	814.9	819.5	810.2	811.7
17.5°	856.9	855.4	846.0	839.8	841.3	846.0	849.1	847.6	847.6	842.9	844.5
20°	908.3	908.3	895.9	885.0	867.8	867.8	869.4	867.8	870.9	874.1	878.7
22.5°	947.3	944.2	939.5	930.2	911.5	895.9	895.9	889.6	894.3	895.9	905.2
25°	997.1	994.0	983.1	983.1	964.4	944.2	941.1	931.7	942.6	922.4	937.9
27.5°	1057.9	1054.8	1040.8	1034.5	1025.2	1000.3	994.0	995.6	1006.5	976.9	992.5
30°	1134.3	1131.1	1114.0	1096.9	1081.3	1054.8	1051.7	1050.1	1075.0	1040.8	1061.0
32.5°	1230.9	1230.9	1212.2	1188.8	1157.6	1121.8	1109.3	1110.9	1145.2	1107.8	1142.0
35°	1377.3	1358.6	1324.3	1288.5	1255.8	1213.7	1196.6	1193.5	1224.6	1187.2	1226.2
37.5°	1470.8	1458.3	1427.2	1400.7	1364.8	1324.3	1311.9	1316.5	1343.0	1288.5	1344.6
40°	1554.9	1553.4	1533.1	1516.0	1480.1	1439.6	1455.2	1517.5	1587.6	1481.7	1483.3
42.5°	1611.0	1614.1	1612.6	1614.1	1593.9	1551.8	1578.3	1665.5	1785.5	1723.2	1665.5
45°	1620.4	1631.3	1635.9	1667.1	1687.4	1662.4	1676.5	1768.4	2008.3	2104.9	1844.7
47.5°	1643.7	1654.6	1645.3	1682.7	1776.2	1774.6	1830.7	1865.0	1897.7	1913.3	2109.6
50°	1674.9	1695.2	1685.8	1717.0	1793.3	1836.9	1885.2	1928.9	1902.4	1804.2	1857.2
52.5°	1676.5	1699.8	1751.2	1782.4	1857.2	1847.8	1880.6	1857.2	1897.7	1796.4	1847.8
55°	1539.3	1544.0	1693.6	1851.0	1981.8	1955.3	1935.1	1882.1	1933.5	1807.3	1872.8
57.5°	1322.8	1338.4	1494.2	1759.0	2039.5	2062.8	2056.6	2051.9	2092.5	1924.2	1995.9
60°	1084.4	1103.1	1251.1	1562.7	1919.5	1980.3	2064.4	2115.8	2220.2	2153.2	2271.6
62.5°	676.2	690.2	853.8	1243.3	1693.6	1813.6	1936.6	1997.4	2148.5	2179.7	2380.7
65°	322.5	327.2	391.1	676.2	1230.9	1456.8	1639.1	1768.4	1953.8	2094.0	2365.1
67.5°	250.8	252.4	275.8	359.9	631.0	782.1	989.4	1160.7	1358.6	1741.9	2078.4
70°	201.0	201.0	219.7	264.9	391.1	411.3	464.3	521.9	606.1	914.6	1187.2
72.5°	168.3	168.3	180.7	208.8	289.8	294.5	291.4	286.7	286.7	361.5	461.2
75°	141.8	140.2	148.0	166.7	215.0	221.2	218.1	207.2	194.8	194.8	219.7
77.5°	115.3	115.3	121.5	130.9	155.8	158.9	158.9	149.6	138.7	140.2	151.1
80°	90.4	90.4	95.0	101.3	109.1	107.5	107.5	98.2	90.4	88.8	95.0
82.5°	65.4	67.0	77.9	73.2	70.1	65.4	65.4	63.9	57.6	53.0	56.1
85°	20.3	21.8	37.4	43.6	35.8	29.6	28.0	23.4	24.9	20.3	23.4
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	643.5	646.6	640.4	640.4	632.6	637.2	629.4	631.0	623.2	626.3	626.3
5°	674.6	676.2	668.4	665.3	657.5	657.5	649.7	649.7	638.8	641.9	638.8
7.5°	704.2	704.2	696.4	690.2	682.4	679.3	670.0	665.3	655.9	654.4	649.7
10°	729.2	729.2	718.3	712.0	702.7	698.0	685.5	680.9	670.0	662.2	657.5
12.5°	760.3	757.2	744.7	738.5	722.9	721.4	702.7	699.6	684.0	679.3	671.5
15°	797.7	800.8	780.6	779.0	757.2	755.7	730.7	729.2	705.8	704.2	693.3
17.5°	838.2	844.5	827.3	825.8	799.3	799.3	769.7	768.1	737.0	735.4	721.4
20°	874.1	881.9	870.9	874.1	850.7	852.2	819.5	819.5	775.9	772.8	760.3
22.5°	906.8	922.4	913.0	930.2	906.8	917.7	874.1	881.9	830.4	824.2	805.5
25°	939.5	959.8	956.6	984.7	967.5	986.2	941.1	956.6	889.6	894.3	869.4
27.5°	972.2	998.7	995.6	1036.1	1029.9	1067.3	1028.3	1045.4	972.2	976.9	948.8
30°	1026.7	1056.4	1045.4	1087.5	1087.5	1148.3	1118.7	1145.2	1064.1	1073.5	1040.8
32.5°	1100.0	1134.3	1101.5	1156.1	1153.0	1232.4	1209.0	1254.2	1174.8	1187.2	1146.7
35°	1179.4	1234.0	1181.0	1241.8	1232.4	1315.0	1299.4	1372.6	1288.5	1302.5	1262.0
37.5°	1283.8	1349.3	1279.2	1332.1	1290.1	1385.1	1375.8	1475.5	1389.8	1425.6	1377.3
40°	1406.9	1458.3	1371.1	1416.3	1346.1	1444.3	1428.7	1565.8	1486.4	1544.0	1500.4
42.5°	1520.6	1556.5	1441.2	1497.3	1413.1	1512.9	1484.8	1650.0	1581.4	1670.2	1621.9
45°	1623.5	1664.0	1511.3	1573.6	1480.1	1589.2	1540.9	1731.0	1684.2	1818.2	1769.9
47.5°	1769.9	1710.7	1575.2	1656.2	1551.8	1671.8	1607.9	1826.0	1808.9	1999.0	1942.9
50°	1721.6	1760.6	1628.2	1712.3	1617.2	1763.7	1693.6	1939.8	1944.4	2195.3	2162.6
52.5°	1726.3	1791.7	1668.7	1785.5	1693.6	1891.5	1818.2	2076.9	2098.7	2385.4	2340.2
55°	1754.4	1851.0	1729.4	1886.8	1801.1	2033.2	1981.8	2224.9	2262.3	2564.5	2538.1
57.5°	1824.5	1958.5	1833.8	2039.5	1950.7	2195.3	2148.5	2377.6	2429.0	2743.7	2735.9
60°	2094.0	2252.9	2034.8	2262.3	2143.9	2379.1	2316.8	2538.1	2589.5	2915.1	2935.4
62.5°	2394.7	2670.5	2541.2	2778.0	2464.8	2703.2	2519.4	2735.9	2739.0	3098.9	3162.8
65°	2472.6	2896.4	3007.0	3447.9	3284.4	3529.0	3038.2	3183.1	2996.1	3433.9	3525.9
67.5°	2443.0	2961.8	3268.8	3765.8	3951.2	4378.1	4295.5	4245.7	3812.5	4127.3	4237.9
70°	1793.3	2343.3	3094.3	3599.1	4133.5	4413.9	4858.0	4903.2	4884.5	4840.8	4914.1
72.5°	816.4	1280.7	2094.0	2670.5	3552.3	3740.9	4384.3	4371.9	5032.5	4868.9	4984.2
75°	321.0	493.9	997.1	1491.0	2457.0	2689.2	3418.3	3237.6	4061.8	3821.9	4068.0
77.5°	176.1	221.2	373.9	640.4	1341.5	1464.6	2092.5	1790.2	2519.4	2103.4	2185.9
80°	105.9	132.4	171.4	243.1	570.2	603.0	892.8	719.8	1029.9	782.1	758.8
82.5°	57.6	71.7	85.7	120.0	211.9	235.3	308.5	277.3	330.3	282.0	275.8
85°	23.4	31.2	32.7	48.3	70.1	81.0	98.2	105.9	129.3	118.4	115.3
87.5°	0.0	1.6	0.0	3.1	0.0	3.1	0.0	4.7	4.7	7.8	9.3
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	621.7	626.3	620.1	620.1	612.3	617.0	612.3	607.6	599.8	601.4	590.5
5°	632.6	635.7	627.9	624.8	620.1	618.5	609.2	599.8	588.9	588.9	576.5
7.5°	643.5	643.5	632.6	632.6	621.7	618.5	604.5	588.9	573.4	571.8	553.1
10°	649.7	648.1	634.1	634.1	618.5	617.0	599.8	576.5	554.7	548.4	521.9
12.5°	662.2	660.6	643.5	640.4	620.1	620.1	595.2	564.0	532.9	521.9	484.6
15°	677.7	679.3	659.1	654.4	631.0	629.4	595.2	548.4	506.4	489.2	444.0
17.5°	702.7	704.2	676.2	671.5	643.5	638.8	596.7	529.7	470.5	451.8	411.3
20°	735.4	730.7	693.3	691.8	654.4	649.7	595.2	501.7	434.7	416.0	380.2
22.5°	775.9	771.2	722.9	718.3	674.6	666.8	593.6	472.1	402.0	381.7	358.3
25°	832.0	825.8	766.6	760.3	705.8	693.3	592.1	440.9	373.9	358.3	344.3
27.5°	902.1	889.6	818.0	811.7	738.5	722.9	585.8	405.1	345.9	335.0	328.7
30°	986.2	975.3	883.4	874.1	782.1	761.9	579.6	372.4	325.6	321.0	316.3
32.5°	1086.0	1075.0	962.9	952.0	838.2	808.6	568.7	345.9	313.2	313.2	306.9
35°	1190.3	1181.0	1048.6	1040.8	900.5	861.6	554.7	322.5	302.3	302.3	296.0
37.5°	1283.8	1291.6	1142.0	1135.8	962.9	914.6	539.1	306.9	292.9	289.8	283.6
40°	1385.1	1403.8	1229.3	1234.0	1028.3	970.7	520.4	294.5	282.0	278.9	277.3
42.5°	1487.9	1523.8	1321.2	1338.4	1093.7	1028.3	506.4	286.7	277.3	271.1	269.5
45°	1615.7	1667.1	1435.0	1467.7	1170.1	1098.4	501.7	277.3	263.3	255.5	250.8
47.5°	1774.6	1843.2	1575.2	1612.6	1271.4	1182.6	511.0	274.2	254.0	244.6	235.3
50°	1963.1	2028.6	1741.9	1757.5	1385.1	1274.5	531.3	278.9	250.8	236.8	222.8
52.5°	2162.6	2212.4	1918.0	1900.8	1503.5	1364.8	554.7	280.4	243.1	229.0	211.9
55°	2368.2	2396.3	2081.5	2036.4	1611.0	1455.2	585.8	278.9	236.8	221.2	199.4
57.5°	2569.2	2578.6	2226.4	2182.8	1717.0	1562.7	624.8	274.2	227.5	211.9	188.5
60°	2765.5	2781.1	2386.9	2346.4	1832.3	1701.4	680.9	266.4	215.0	204.1	179.2
62.5°	2980.5	3032.0	2578.6	2584.8	1991.2	1918.0	786.8	257.1	202.5	190.1	165.2
65°	3273.4	3469.8	2894.8	3041.3	2296.6	2326.2	989.4	230.6	185.4	169.8	152.7
67.5°	4007.3	4222.3	3663.0	3722.2	3011.7	2835.6	1117.1	196.3	163.6	152.7	141.8
70°	4926.5	4772.3	4375.0	4016.6	3429.3	2915.1	983.1	165.2	144.9	138.7	132.4
72.5°	5178.9	4625.8	4298.6	3761.1	3170.6	2542.7	752.5	141.8	129.3	126.2	121.5
75°	4551.0	3750.2	3768.9	2988.3	2628.4	1938.2	514.2	121.5	112.2	110.6	109.1
77.5°	2910.4	1927.3	2346.4	1477.0	1517.5	897.4	250.8	101.3	96.6	96.6	93.5
80°	1034.5	641.9	726.0	465.9	423.8	285.1	135.5	81.0	77.9	79.5	77.9
82.5°	310.1	246.2	241.5	188.5	146.5	120.0	74.8	62.3	59.2	60.8	57.6
85°	124.6	96.6	81.0	62.3	51.4	46.7	40.5	42.1	37.4	40.5	35.8
87.5°	7.8	6.2	4.7	6.2	0.0	3.1	7.8	6.2	1.6	6.2	4.7
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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	598.3	587.4	592.1	587.4	590.5	581.1	584.3	576.5	576.5	574.9	567.1
5°	578.0	567.1	565.6	554.7	556.2	543.8	542.2	528.2	528.2	515.7	492.3
7.5°	550.0	532.9	531.3	509.5	507.9	490.8	484.6	469.0	467.4	453.4	439.4
10°	514.2	487.7	483.0	454.9	456.5	437.8	436.3	425.3	425.3	419.1	419.1
12.5°	473.6	444.0	440.9	419.1	420.7	408.2	409.8	403.5	406.6	409.8	420.7
15°	436.3	412.9	409.8	395.7	397.3	394.2	398.9	398.9	403.5	411.3	430.0
17.5°	405.1	384.8	386.4	380.2	386.4	384.8	394.2	392.6	402.0	411.3	434.7
20°	377.0	366.1	370.8	369.3	377.0	377.0	384.8	386.4	394.2	406.6	433.1
22.5°	358.3	355.2	359.9	359.9	366.1	367.7	375.5	380.2	384.8	397.3	420.7
25°	347.4	345.9	350.6	352.1	356.8	358.3	366.1	366.1	373.9	381.7	394.2
27.5°	331.9	328.7	335.0	335.0	341.2	339.7	349.0	345.9	353.7	356.8	359.9
30°	321.0	316.3	321.0	319.4	324.1	319.4	324.1	319.4	324.1	324.1	319.4
32.5°	310.1	305.4	306.9	300.7	305.4	299.1	300.7	294.5	297.6	294.5	296.0
35°	299.1	292.9	292.9	285.1	285.1	277.3	280.4	274.2	280.4	285.1	283.6
37.5°	283.6	278.9	278.9	272.7	275.8	272.7	278.9	275.8	277.3	271.1	260.2
40°	274.2	277.3	275.8	280.4	277.3	272.7	268.0	258.6	257.1	254.0	247.7
42.5°	260.2	263.3	255.5	261.8	257.1	258.6	255.5	250.8	247.7	244.6	238.4
45°	239.9	239.9	233.7	243.1	238.4	247.7	244.6	244.6	241.5	236.8	232.1
47.5°	222.8	224.4	218.1	225.9	222.8	235.3	233.7	238.4	238.4	235.3	222.8
50°	211.9	208.8	204.1	211.9	210.3	221.2	222.8	232.1	230.6	232.1	221.2
52.5°	202.5	196.3	191.6	196.3	196.3	205.7	208.8	219.7	221.2	224.4	218.1
55°	191.6	183.8	180.7	183.8	183.8	193.2	197.9	205.7	210.3	219.7	216.6
57.5°	182.3	171.4	168.3	171.4	172.9	182.3	187.0	194.8	201.0	213.5	211.9
60°	171.4	162.0	158.9	163.6	165.2	174.5	179.2	187.0	191.6	205.7	205.7
62.5°	158.9	151.1	151.1	152.7	155.8	165.2	168.3	179.2	180.7	197.9	199.4
65°	148.0	143.3	143.3	144.9	148.0	155.8	157.4	168.3	169.8	187.0	191.6
67.5°	138.7	135.5	135.5	137.1	138.7	144.9	146.5	157.4	160.5	176.1	183.8
70°	129.3	126.2	124.6	124.6	129.3	134.0	137.1	148.0	149.6	163.6	172.9
72.5°	118.4	115.3	115.3	113.7	118.4	121.5	127.8	134.0	137.1	151.1	157.4
75°	107.5	104.4	104.4	102.8	105.9	112.2	113.7	120.0	121.5	134.0	140.2
77.5°	93.5	90.4	90.4	90.4	93.5	95.0	96.6	102.8	105.9	116.9	123.1
80°	77.9	74.8	76.3	74.8	79.5	73.2	77.9	84.1	87.3	93.5	90.4
82.5°	59.2	54.5	56.1	56.1	57.6	53.0	56.1	59.2	62.3	67.0	65.4
85°	37.4	32.7	35.8	32.7	35.8	31.2	34.3	34.3	37.4	34.3	32.7
87.5°	7.8	3.1	7.8	3.1	9.3	0.0	4.7	0.0	3.1	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°	617.0	617.0	617.0	617.0
2.5°	559.3	553.1	550.0	548.4
5°	479.9	469.0	465.9	462.7
7.5°	431.6	428.5	428.5	426.9
10°	422.2	426.9	428.5	428.5
12.5°	433.1	440.9	447.2	447.2
15°	447.2	461.2	469.0	469.0
17.5°	458.1	476.8	484.6	486.1
20°	459.6	478.3	489.2	490.8
22.5°	445.6	458.1	465.9	465.9
25°	409.8	416.0	420.7	420.7
27.5°	364.6	363.0	361.5	367.7
30°	317.8	314.7	308.5	314.7
32.5°	300.7	289.8	274.2	278.9
35°	274.2	271.1	263.3	264.9
37.5°	264.9	291.4	289.8	291.4
40°	254.0	286.7	285.1	288.2
42.5°	244.6	263.3	244.6	246.2
45°	227.5	235.3	219.7	219.7
47.5°	219.7	216.6	210.3	208.8
50°	213.5	213.5	210.3	207.2
52.5°	208.8	205.7	216.6	215.0
55°	202.5	199.4	207.2	207.2
57.5°	197.9	190.1	202.5	202.5
60°	193.2	185.4	197.9	197.9
62.5°	190.1	180.7	196.3	194.8
65°	185.4	176.1	196.3	193.2
67.5°	179.2	166.7	193.2	188.5
70°	166.7	155.8	182.3	169.8
72.5°	154.2	141.8	155.8	144.9
75°	135.5	124.6	126.2	124.6
77.5°	113.7	101.3	98.2	99.7
80°	85.7	77.9	74.8	74.8
82.5°	62.3	53.0	54.5	45.2
85°	28.0	20.3	15.6	15.6
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)