

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: P227958

Luminaire Tested: **ISS-AF-800-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)
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-T4W-7050
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4892 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

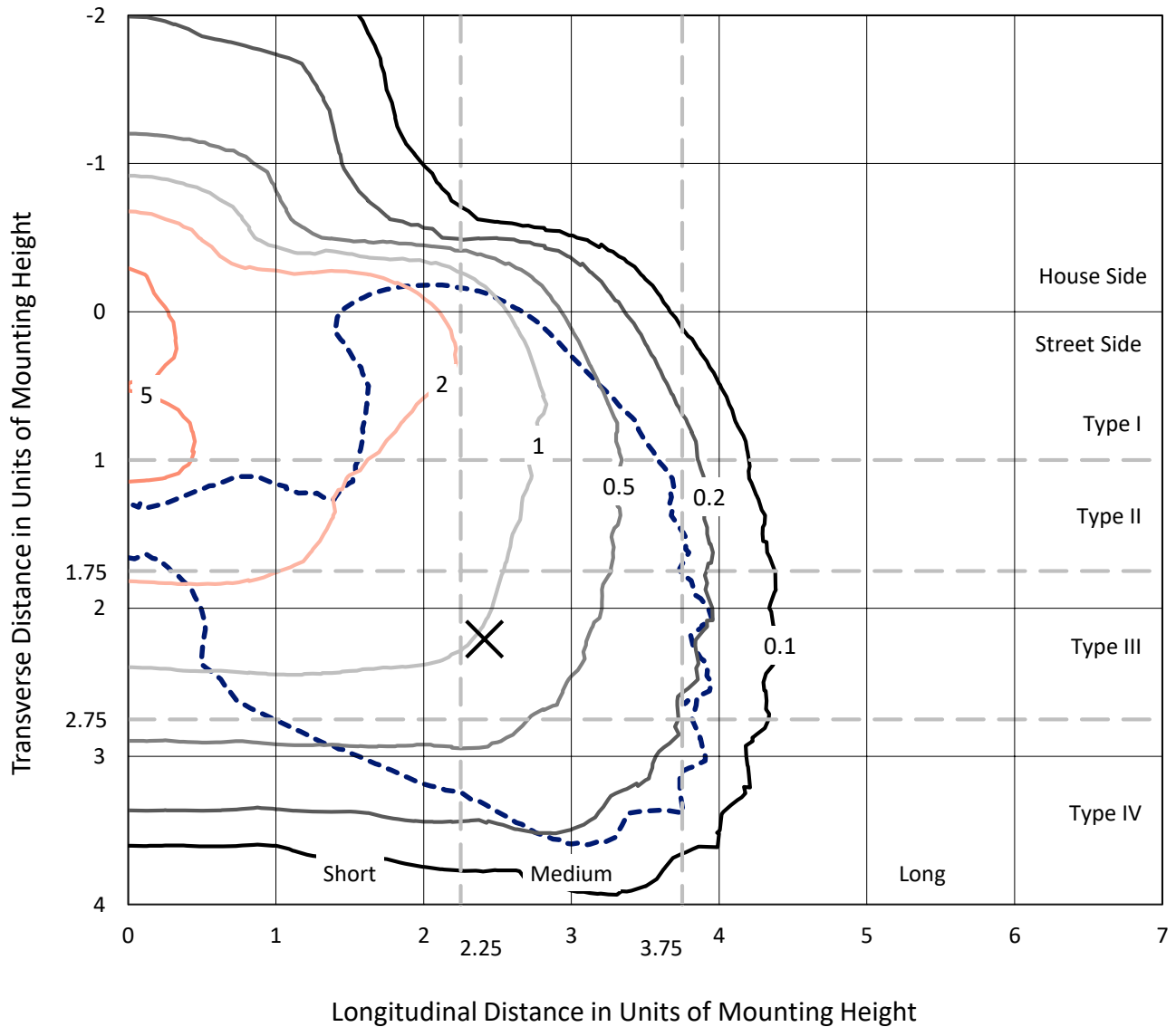
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

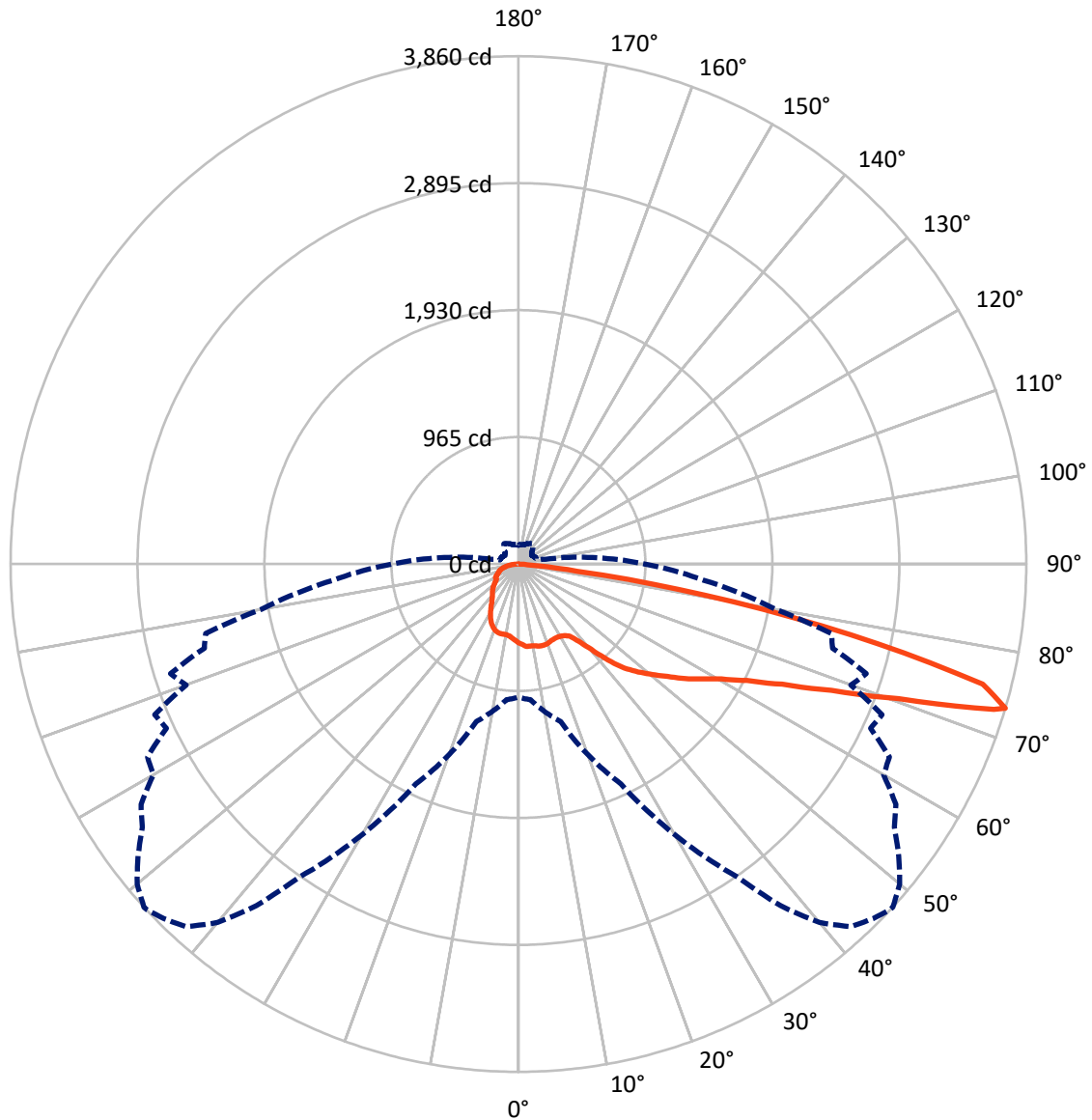
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	977.4	0.0	977.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3914.6	0.0	3914.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	4892.0	0.0	4892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	1.2
10°-20°	170.2	3.5
20°-30°	261.7	5.3
30°-40°	381.7	7.8
40°-50°	629.4	12.9
50°-60°	985.4	20.1
60°-70°	1336.7	27.3
70°-80°	989.8	20.2
80°-90°	80.0	1.6
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°	4892.0	100.0
0°-180°	4892.0	100.0



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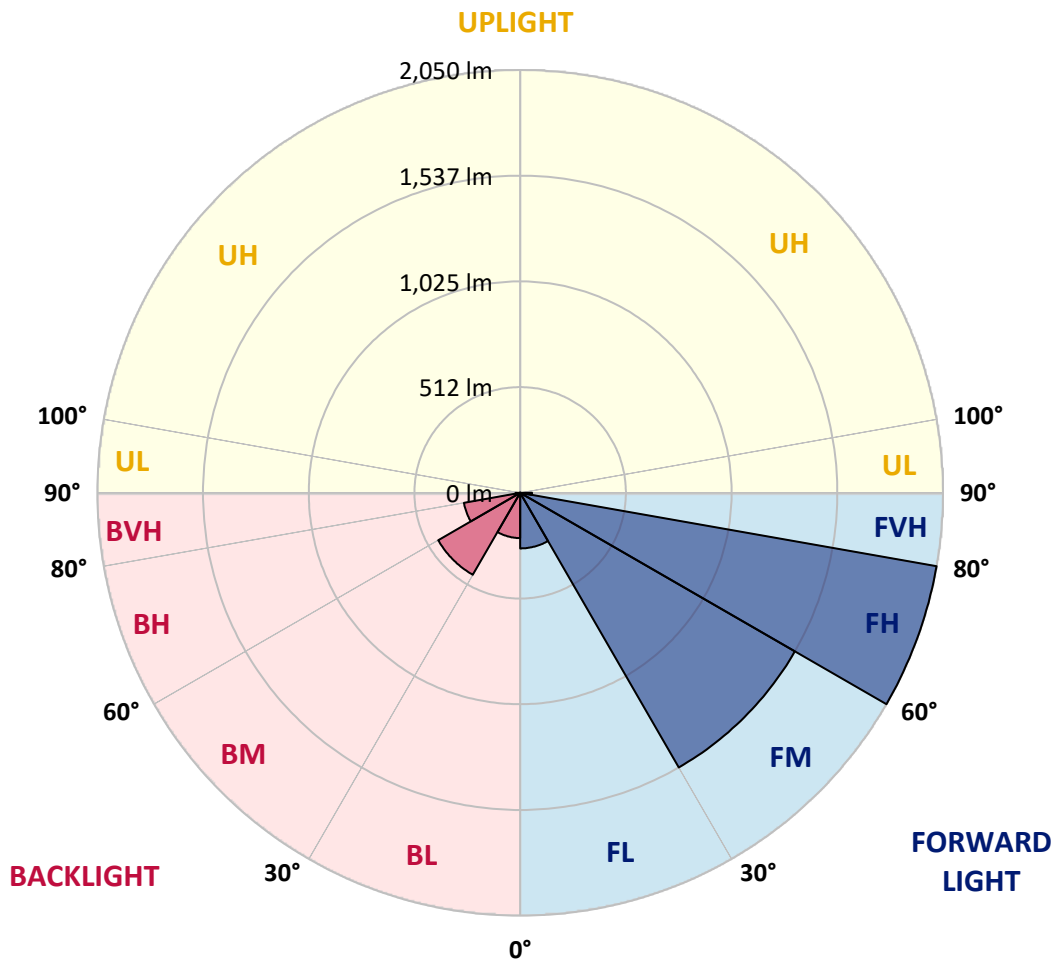
CATALOG NUMBER: ISS-AF-800-LED-E1-T4W-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.7	5.5			
FM	(30°-60°)	1537.5	31.4			
FH	(60°-80°)	2049.8	41.9			G2/5000
FVH	(80°-90°)	57.7	1.2			G1/100
BL	(0°-30°)	219.4	4.5	B1/500		
BM	(30°-60°)	458.9	9.4	B1/1000		
BH	(60°-80°)	276.8	5.7	B1/500		G1/500
BVH	(80°-90°)	22.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	636.3	634.7	629.8	628.2	623.3	620.1	618.5	616.9	621.7	618.5	613.7
5°	676.6	673.4	666.9	657.3	647.6	641.1	639.5	636.3	636.3	633.0	629.8
7.5°	705.7	704.1	694.4	679.9	663.7	652.4	646.0	641.1	642.7	639.5	629.8
10°	733.2	729.9	713.8	696.0	671.8	658.9	650.8	642.7	649.2	644.3	631.4
12.5°	754.2	750.9	728.3	705.7	678.3	663.7	655.6	650.8	657.3	654.0	639.5
15°	765.5	762.2	739.6	712.2	683.1	666.9	663.7	660.5	665.3	658.9	646.0
17.5°	759.0	759.0	738.0	708.9	684.7	668.6	663.7	660.5	666.9	660.5	646.0
20°	734.8	738.0	723.5	692.8	675.0	663.7	658.9	652.4	658.9	652.4	642.7
22.5°	704.1	707.3	699.2	671.8	658.9	650.8	649.2	642.7	647.6	642.7	633.0
25°	676.6	676.6	673.4	649.2	647.6	641.1	642.7	639.5	642.7	636.3	629.8
27.5°	678.3	678.3	665.3	641.1	639.5	639.5	639.5	639.5	641.1	636.3	629.8
30°	773.5	776.8	739.6	671.8	647.6	644.3	646.0	644.3	646.0	644.3	636.3
32.5°	917.3	917.3	881.7	776.8	691.2	670.2	662.1	660.5	655.6	654.0	647.6
35°	1059.4	1057.8	1022.2	906.0	797.8	757.4	731.5	707.3	696.0	684.7	673.4
37.5°	1178.9	1174.0	1169.2	1036.8	923.7	876.9	846.2	810.7	788.1	768.7	742.8
40°	1290.3	1298.4	1316.1	1157.9	1049.7	1006.1	975.4	930.2	907.6	883.3	852.7
42.5°	1443.7	1455.0	1456.6	1288.7	1164.3	1135.3	1111.0	1077.1	1052.9	1023.8	996.4
45°	1592.3	1593.9	1598.7	1429.2	1304.8	1267.7	1249.9	1217.6	1186.9	1149.8	1127.2
47.5°	1694.0	1689.2	1710.2	1590.7	1469.5	1427.6	1401.7	1353.3	1306.4	1259.6	1225.7
50°	1818.4	1813.5	1813.5	1774.8	1660.1	1611.7	1566.4	1476.0	1425.9	1367.8	1319.4
52.5°	1928.2	1910.4	1921.7	1944.3	1860.4	1799.0	1719.9	1618.1	1551.9	1480.9	1419.5
55°	2078.4	1986.3	2012.2	2091.3	2059.0	1963.7	1858.7	1750.5	1674.6	1593.9	1537.4
57.5°	2026.7	1963.7	2039.6	2178.5	2176.9	2088.1	1999.2	1866.8	1790.9	1715.0	1645.6
60°	1841.0	1873.3	2038.0	2238.2	2246.3	2176.9	2104.2	1981.5	1921.7	1842.6	1773.1
62.5°	1697.2	1744.1	1970.2	2233.4	2325.4	2260.8	2201.1	2128.4	2086.4	2020.2	1949.2
65°	1689.2	1716.6	1936.3	2228.5	2436.9	2403.0	2375.5	2341.6	2333.5	2285.1	2202.7
67.5°	1766.7	1792.5	1994.4	2352.9	2601.6	2587.1	2627.4	2621.0	2656.5	2632.3	2564.4
70°	1614.9	1629.4	1878.1	2396.5	2977.9	3042.4	3132.9	3128.0	3203.9	3145.8	3066.7
72.5°	1133.7	1162.7	1382.3	1979.9	2985.9	3331.5	3541.5	3719.1	3801.4	3816.0	3778.8
73°	1012.5	1035.1	1238.6	1844.2	2905.2	3273.4	3556.0	3738.5	3811.1	3856.4	3859.6
75°	352.0	363.3	541.0	1117.5	2322.2	2856.7	3220.1	3384.8	3367.0	3499.5	3644.8
77.5°	113.0	114.7	140.5	289.1	1120.7	1773.1	2178.5	2330.3	2243.1	2386.8	2580.6
80°	69.4	72.7	92.0	130.8	293.9	537.8	910.8	1140.1	1093.3	1227.3	1434.0
82.5°	42.0	43.6	56.5	80.7	117.9	130.8	171.2	232.5	285.8	344.0	450.6
85°	19.4	21.0	27.5	37.1	48.4	50.1	48.4	45.2	51.7	59.8	69.4
87.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0	0.0	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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	618.5	613.7	613.7	607.2	610.4	604.0	607.2	600.7	604.0	595.9	600.7
5°	628.2	620.1	620.1	610.4	612.0	600.7	605.6	592.7	599.1	584.6	594.3
7.5°	633.0	618.5	625.0	607.2	615.3	595.9	605.6	584.6	597.5	574.9	591.0
10°	639.5	618.5	629.8	610.4	620.1	597.5	610.4	584.6	600.7	573.3	587.8
12.5°	649.2	626.6	636.3	613.7	626.6	600.7	613.7	587.8	604.0	573.3	591.0
15°	655.6	633.0	642.7	620.1	629.8	600.7	616.9	586.2	604.0	571.7	591.0
17.5°	654.0	633.0	642.7	616.9	628.2	599.1	615.3	584.6	600.7	566.8	587.8
20°	647.6	629.8	636.3	613.7	623.3	594.3	608.8	578.1	595.9	562.0	583.0
22.5°	639.5	621.7	629.8	608.8	618.5	589.4	602.4	574.9	592.7	558.8	578.1
25°	634.7	620.1	625.0	604.0	616.9	591.0	604.0	573.3	592.7	558.8	581.4
27.5°	633.0	620.1	629.8	610.4	621.7	599.1	612.0	584.6	600.7	565.2	587.8
30°	642.7	631.4	639.5	623.3	633.0	610.4	623.3	597.5	613.7	579.7	605.6
32.5°	654.0	642.7	650.8	636.3	650.8	628.2	644.3	618.5	637.9	604.0	628.2
35°	678.3	665.3	676.6	660.5	676.6	658.9	676.6	649.2	673.4	639.5	665.3
37.5°	741.2	705.7	717.0	699.2	715.4	692.8	723.5	696.0	723.5	691.2	726.7
40°	841.4	778.4	789.7	752.5	776.8	742.8	780.0	759.0	796.1	755.8	801.0
42.5°	972.2	912.4	901.1	844.6	865.6	825.2	862.4	825.2	875.3	836.5	893.0
45°	1091.7	1028.7	1010.9	956.0	970.5	917.3	964.1	912.4	978.6	933.4	1004.5
47.5°	1190.2	1115.9	1101.4	1038.4	1064.2	1014.1	1072.3	1017.4	1098.1	1052.9	1135.3
50°	1280.6	1188.6	1185.3	1117.5	1161.1	1111.0	1193.4	1156.3	1235.4	1190.2	1287.1
52.5°	1384.0	1267.7	1283.8	1222.5	1291.9	1249.9	1345.2	1291.9	1395.3	1346.8	1453.4
55°	1493.8	1371.0	1413.0	1375.9	1458.2	1430.8	1511.5	1463.1	1564.8	1516.4	1629.4
57.5°	1614.9	1509.9	1584.2	1566.4	1639.1	1605.2	1695.6	1652.0	1753.8	1713.4	1826.4
60°	1773.1	1703.7	1776.4	1774.8	1837.7	1836.1	1894.3	1868.4	1965.3	1947.6	2050.9
62.5°	1978.2	1923.3	2000.8	1979.9	2055.8	2042.8	2113.9	2113.9	2183.3	2207.6	2310.9
65°	2254.4	2181.7	2273.8	2241.5	2317.4	2320.6	2365.8	2373.9	2457.9	2485.3	2574.1
67.5°	2629.0	2545.1	2617.7	2556.4	2643.6	2638.7	2677.5	2693.6	2704.9	2771.1	2780.8
70°	3168.4	3042.4	3108.7	3024.7	3040.8	3052.1	2979.5	3032.8	2903.6	3008.5	2866.4
72.5°	3751.4	3607.7	3493.0	3409.0	3242.7	3218.5	3006.9	3052.1	2777.6	2868.0	2580.6
73°	3782.1	3643.2	3488.2	3401.0	3203.9	3178.1	2952.0	2990.8	2687.2	2772.8	2470.8
75°	3438.1	3475.2	3102.2	3137.7	2795.4	2835.7	2482.1	2527.3	2154.3	2218.9	1829.7
77.5°	2317.4	2441.7	2023.5	2180.1	1755.4	1912.0	1432.4	1446.9	1056.1	986.7	670.2
80°	1148.2	1254.8	889.8	972.2	652.4	641.1	390.8	324.6	276.1	282.6	290.7
82.5°	331.1	373.0	230.9	229.3	163.1	155.0	155.0	164.7	167.9	187.3	182.5
85°	63.0	75.9	66.2	88.8	79.1	87.2	80.7	93.7	87.2	108.2	93.7
87.5°	1.6	0.0	1.6	4.8	4.8	11.3	8.1	12.9	12.9	22.6	21.0
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	594.3	602.4	599.1	595.9	592.7	591.0	584.6	587.8	579.7	586.2	579.7
5°	581.4	591.0	586.2	579.7	576.5	573.3	562.0	570.1	557.1	568.4	558.8
7.5°	566.8	583.0	578.1	571.7	565.2	562.0	539.4	557.1	537.8	553.9	537.8
10°	562.0	579.7	573.3	565.2	558.8	555.5	528.1	549.1	528.1	545.8	524.8
12.5°	558.8	579.7	570.1	562.0	555.5	550.7	520.0	545.8	518.4	544.2	520.0
15°	555.5	579.7	566.8	557.1	550.7	545.8	513.5	542.6	511.9	541.0	513.5
17.5°	552.3	574.9	563.6	552.3	545.8	542.6	507.1	537.8	505.5	537.8	510.3
20°	547.4	570.1	557.1	545.8	539.4	534.5	499.0	531.3	497.4	529.7	499.0
22.5°	541.0	565.2	553.9	542.6	536.1	528.1	489.3	523.2	487.7	520.0	490.9
25°	542.6	568.4	553.9	542.6	532.9	524.8	482.9	520.0	479.6	511.9	479.6
27.5°	550.7	573.3	558.8	549.1	536.1	526.5	482.9	516.8	476.4	503.8	469.9
30°	566.8	589.4	576.5	562.0	550.7	537.8	490.9	518.4	476.4	494.2	460.2
32.5°	594.3	615.3	602.4	591.0	578.1	558.8	507.1	526.5	479.6	487.7	452.2
35°	629.8	655.6	649.2	641.1	625.0	591.0	534.5	537.8	486.1	481.2	440.9
37.5°	687.9	723.5	721.9	720.2	702.5	641.1	565.2	560.4	492.5	476.4	426.3
40°	763.8	805.8	817.1	828.4	791.3	700.9	600.7	583.0	495.8	466.7	403.7
42.5°	852.7	909.2	943.1	964.1	896.3	767.1	641.1	608.8	495.8	452.2	377.9
45°	962.5	1028.7	1093.3	1115.9	1012.5	838.1	683.1	629.8	489.3	429.6	344.0
47.5°	1096.5	1174.0	1262.8	1274.1	1138.5	914.0	712.2	644.3	468.3	398.9	313.3
50°	1245.1	1338.7	1469.5	1461.5	1272.5	993.2	731.5	654.0	431.2	363.3	276.1
52.5°	1411.4	1529.3	1715.0	1677.9	1435.6	1091.7	749.3	666.9	386.0	321.4	239.0
55°	1619.7	1760.2	1992.8	1913.6	1616.5	1199.9	775.1	668.6	326.2	271.3	211.6
57.5°	1844.2	1994.4	2291.5	2147.8	1786.1	1283.8	763.8	616.9	266.5	229.3	190.6
60°	2113.9	2296.4	2590.3	2365.8	1928.2	1312.9	684.7	508.7	227.7	206.7	180.9
62.5°	2415.9	2596.7	2835.7	2517.6	2008.9	1264.5	508.7	352.0	195.4	184.1	166.3
65°	2737.2	2908.4	2953.6	2530.5	1955.6	1051.3	314.9	230.9	169.6	164.7	153.4
67.5°	3032.8	3048.9	2842.2	2320.6	1697.2	733.2	214.8	184.1	156.6	155.0	148.6
70°	3108.7	2829.3	2362.6	1807.1	1225.7	436.0	174.4	159.9	150.2	150.2	145.3
72.5°	2596.7	2154.3	1579.4	1094.9	668.6	232.5	148.6	145.3	142.1	142.1	138.9
73°	2435.3	1984.7	1414.6	956.0	565.2	208.3	145.3	142.1	140.5	138.9	137.3
75°	1618.1	1246.7	802.6	484.5	263.2	150.2	129.2	129.2	127.6	129.2	127.6
77.5°	623.3	469.9	310.1	208.3	150.2	117.9	109.8	111.4	109.8	113.0	111.4
80°	274.5	271.3	205.1	147.0	109.8	88.8	88.8	88.8	90.4	92.0	92.0
82.5°	187.3	158.3	121.1	90.4	66.2	64.6	66.2	66.2	67.8	69.4	67.8
85°	103.4	87.2	64.6	40.4	35.5	43.6	43.6	43.6	42.0	42.0	40.4
87.5°	32.3	24.2	17.8	4.8	8.1	8.1	11.3	9.7	9.7	11.3	11.3
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	586.2	581.4	586.2	578.1	584.6	578.1	583.0	583.0	581.4	581.4	581.4
5°	566.8	558.8	566.8	562.0	566.8	560.4	565.2	566.8	568.4	573.3	571.7
7.5°	552.3	536.1	553.9	537.8	552.3	537.8	550.7	552.3	557.1	563.6	568.4
10°	545.8	524.8	545.8	526.5	544.2	528.1	544.2	545.8	550.7	558.8	566.8
12.5°	542.6	520.0	542.6	523.2	542.6	526.5	542.6	547.4	550.7	557.1	566.8
15°	539.4	516.8	542.6	521.6	542.6	526.5	544.2	547.4	552.3	558.8	566.8
17.5°	537.8	511.9	539.4	520.0	539.4	523.2	542.6	542.6	549.1	557.1	562.0
20°	531.3	507.1	531.3	511.9	531.3	516.8	532.9	532.9	539.4	542.6	550.7
22.5°	521.6	495.8	518.4	500.6	518.4	503.8	516.8	516.8	521.6	526.5	531.3
25°	507.1	482.9	502.2	486.1	499.0	486.1	495.8	494.2	497.4	500.6	503.8
27.5°	490.9	466.7	482.9	465.1	473.2	460.2	466.7	463.5	465.1	466.7	468.3
30°	473.2	448.9	457.0	440.9	442.5	429.6	432.8	427.9	426.3	424.7	421.5
32.5°	453.8	427.9	427.9	411.8	408.6	397.3	397.3	390.8	386.0	379.5	373.0
35°	429.6	407.0	395.6	382.7	376.3	365.0	363.3	355.3	344.0	332.7	326.2
37.5°	405.3	379.5	363.3	350.4	344.0	335.9	334.3	327.8	314.9	302.0	292.3
40°	373.0	347.2	329.4	324.6	319.7	313.3	314.9	306.8	293.9	279.4	271.3
42.5°	340.7	318.1	303.6	302.0	298.8	297.1	298.8	292.3	277.8	264.8	255.2
45°	313.3	290.7	276.1	274.5	272.9	279.4	281.0	279.4	263.2	250.3	237.4
47.5°	285.8	258.4	248.7	245.5	247.1	256.8	260.0	264.8	250.3	235.8	218.0
50°	253.5	227.7	224.5	221.2	222.9	230.9	239.0	248.7	235.8	214.8	190.6
52.5°	224.5	201.9	203.5	200.2	203.5	209.9	216.4	232.5	216.4	195.4	184.1
55°	201.9	184.1	187.3	184.1	187.3	195.4	200.2	213.2	213.2	208.3	198.6
57.5°	185.7	172.8	176.0	172.8	177.6	184.1	188.9	216.4	232.5	219.6	200.2
60°	176.0	164.7	166.3	163.1	166.3	176.0	185.7	218.0	243.8	218.0	203.5
62.5°	161.5	151.8	150.2	150.2	153.4	169.6	174.4	203.5	240.6	216.4	205.1
65°	151.8	143.7	142.1	140.5	143.7	155.0	159.9	188.9	232.5	205.1	185.7
67.5°	147.0	140.5	137.3	134.0	137.3	147.0	151.8	177.6	219.6	195.4	174.4
70°	142.1	135.7	134.0	130.8	132.4	138.9	145.3	163.1	208.3	184.1	163.1
72.5°	135.7	129.2	127.6	122.7	124.3	130.8	134.0	153.4	193.8	172.8	151.8
73°	134.0	127.6	126.0	121.1	122.7	127.6	130.8	150.2	190.6	171.2	150.2
75°	126.0	119.5	117.9	114.7	116.3	116.3	119.5	137.3	180.9	161.5	140.5
77.5°	111.4	106.6	105.0	101.7	100.1	98.5	103.4	121.1	164.7	145.3	113.0
80°	92.0	87.2	85.6	79.1	79.1	79.1	85.6	103.4	122.7	105.0	87.2
82.5°	67.8	64.6	64.6	59.8	58.1	56.5	61.4	71.1	96.9	82.4	67.8
85°	40.4	38.8	40.4	35.5	37.1	35.5	40.4	50.1	53.3	42.0	32.3
87.5°	9.7	11.3	11.3	11.3	9.7	9.7	8.1	6.5	0.0	0.0	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):

	175°	180°
0°	600.7	600.7
2.5°	579.7	578.1
5°	571.7	571.7
7.5°	568.4	568.4
10°	570.1	570.1
12.5°	570.1	573.3
15°	574.9	573.3
17.5°	570.1	570.1
20°	557.1	560.4
22.5°	539.4	539.4
25°	510.3	511.9
27.5°	471.5	474.8
30°	423.1	426.3
32.5°	368.2	371.4
35°	324.6	326.2
37.5°	295.5	295.5
40°	271.3	271.3
42.5°	248.7	247.1
45°	226.1	222.9
47.5°	203.5	201.9
50°	184.1	184.1
52.5°	187.3	187.3
55°	201.9	201.9
57.5°	203.5	201.9
60°	221.2	219.6
62.5°	230.9	235.8
65°	201.9	195.4
67.5°	192.2	182.5
70°	172.8	158.3
72.5°	153.4	145.3
73°	148.6	142.1
75°	132.4	129.2
77.5°	100.1	98.5
80°	84.0	82.4
82.5°	56.5	53.3
85°	24.2	22.6
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)