

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: P227956

Luminaire Tested: **ISS-AF-800-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227956
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-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3992 lumens
Efficiency: N/A
Efficacy: 91.8 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 - G1

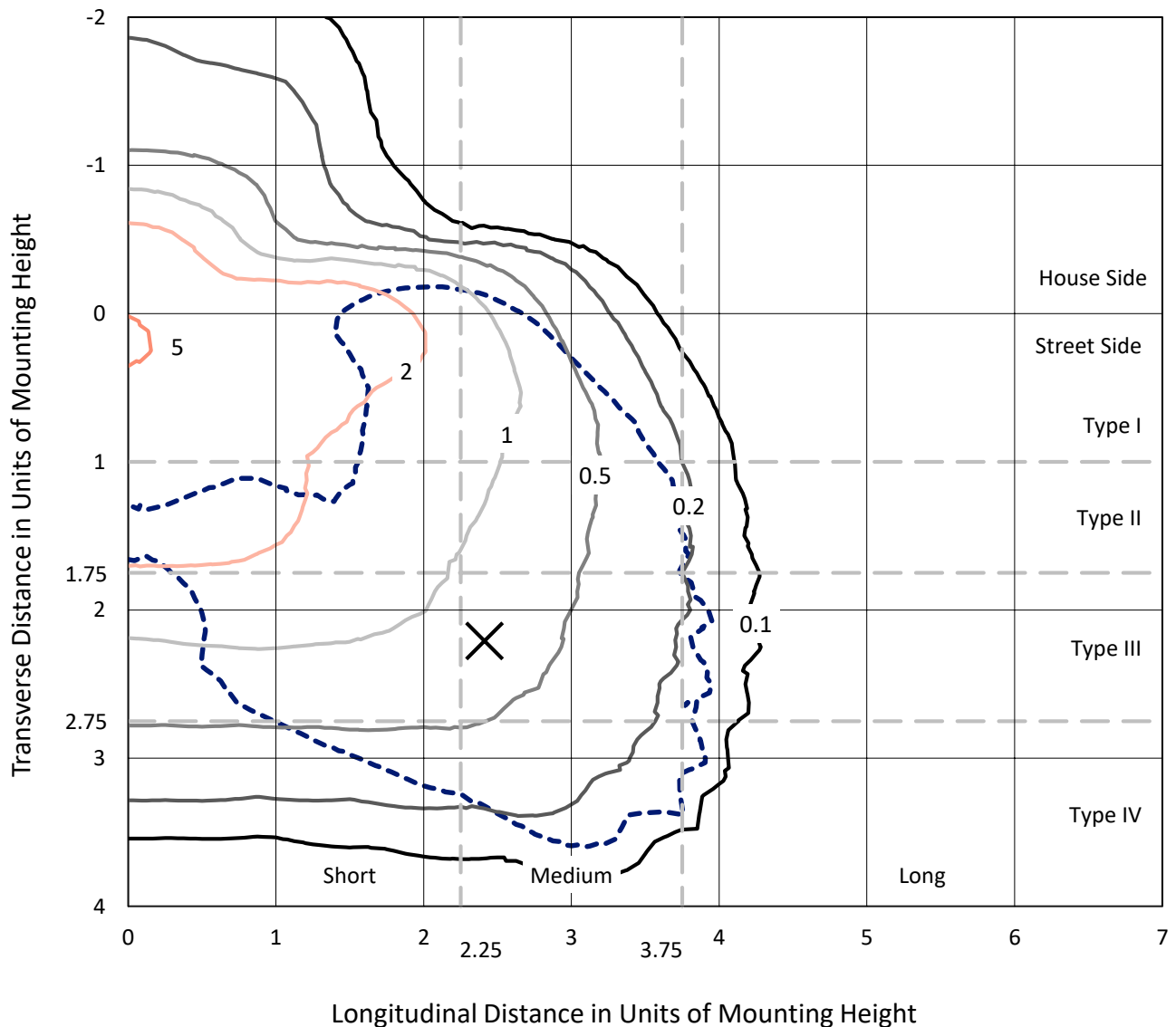
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

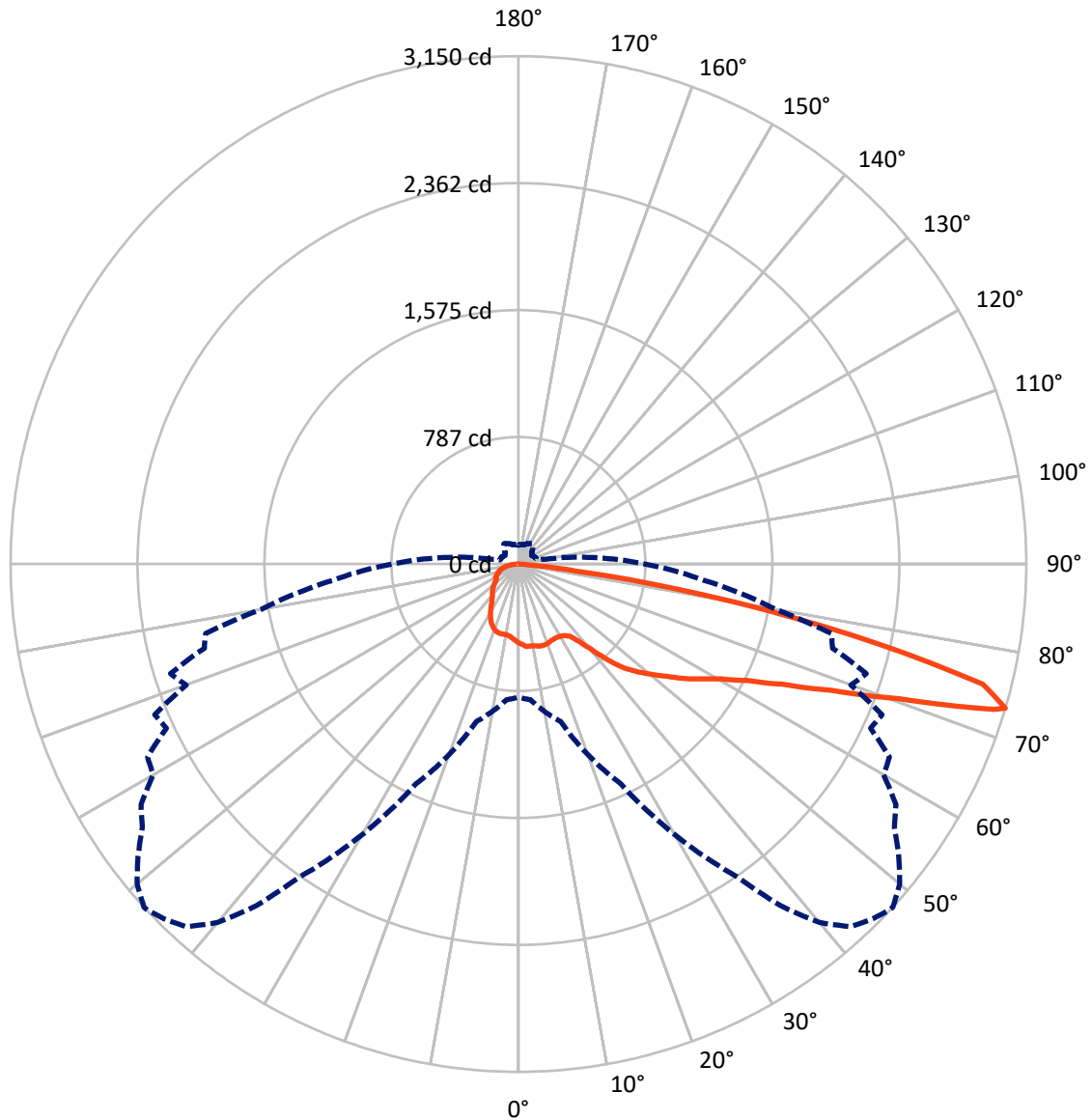
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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	797.6	0.0	797.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3194.4	0.0	3194.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	3992.0	0.0	3992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.2
10°-20°	138.9	3.5
20°-30°	213.5	5.3
30°-40°	311.5	7.8
40°-50°	513.6	12.9
50°-60°	804.1	20.1
60°-70°	1090.8	27.3
70°-80°	807.7	20.2
80°-90°	65.3	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°	3992.0	100.0
0°-180°	3992.0	100.0



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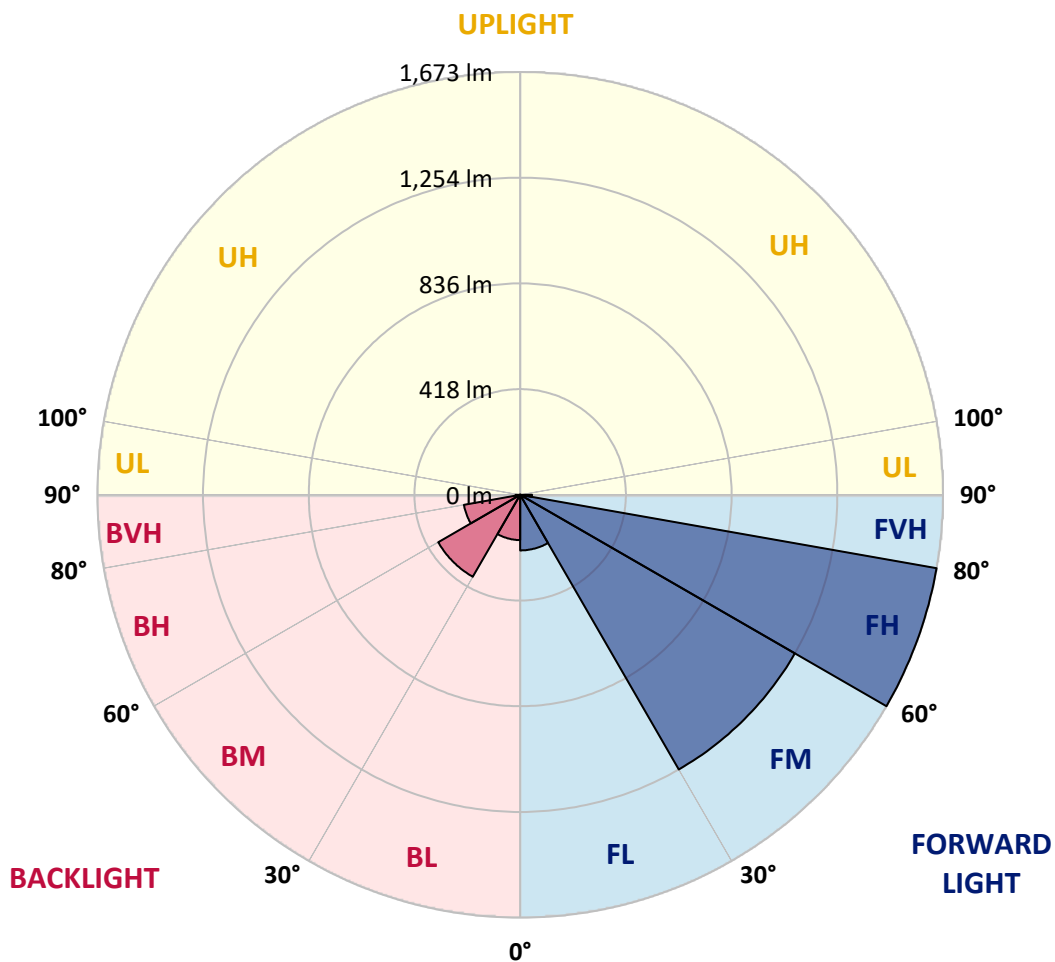
CATALOG NUMBER: ISS-AF-800-LED-E1-T4W-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.0	5.5			
FM	(30°-60°)	1254.6	31.4			
FH	(60°-80°)	1672.7	41.9			G1/1800
FVH	(80°-90°)	47.1	1.2			G1/100
BL	(0°-30°)	179.0	4.5	B1/500		
BM	(30°-60°)	374.5	9.4	B1/1000		
BH	(60°-80°)	225.9	5.7	B1/500		G1/500
BVH	(80°-90°)	18.2	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-G1

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°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	519.2	517.9	513.9	512.6	508.7	506.0	504.7	503.4	507.3	504.7	500.8
5°	552.2	549.5	544.2	536.3	528.4	523.2	521.8	519.2	519.2	516.6	513.9
7.5°	575.9	574.6	566.7	554.8	541.6	532.4	527.1	523.2	524.5	521.8	513.9
10°	598.3	595.6	582.5	568.0	548.2	537.7	531.1	524.5	529.8	525.8	515.3
12.5°	615.4	612.8	594.3	575.9	553.5	541.6	535.0	531.1	536.3	533.7	521.8
15°	624.6	622.0	603.5	581.1	557.4	544.2	541.6	539.0	542.9	537.7	527.1
17.5°	619.4	619.4	602.2	578.5	558.7	545.6	541.6	539.0	544.2	539.0	527.1
20°	599.6	602.2	590.4	565.3	550.8	541.6	537.7	532.4	537.7	532.4	524.5
22.5°	574.6	577.2	570.6	548.2	537.7	531.1	529.8	524.5	528.4	524.5	516.6
25°	552.2	552.2	549.5	529.8	528.4	523.2	524.5	521.8	524.5	519.2	513.9
27.5°	553.5	553.5	542.9	523.2	521.8	521.8	521.8	521.8	523.2	519.2	513.9
30°	631.2	633.9	603.5	548.2	528.4	525.8	527.1	525.8	527.1	525.8	519.2
32.5°	748.5	748.5	719.5	633.9	564.0	546.9	540.3	539.0	535.0	533.7	528.4
35°	864.5	863.2	834.2	739.3	651.0	618.0	597.0	577.2	568.0	558.7	549.5
37.5°	962.0	958.0	954.1	846.0	753.8	715.6	690.5	661.5	643.1	627.3	606.2
40°	1052.9	1059.5	1074.0	944.9	856.6	821.0	795.9	759.0	740.6	720.8	695.8
42.5°	1178.1	1187.3	1188.6	1051.6	950.1	926.4	906.6	879.0	859.2	835.5	813.1
45°	1299.3	1300.7	1304.6	1166.2	1064.8	1034.5	1020.0	993.6	968.6	938.3	919.8
47.5°	1382.4	1378.4	1395.5	1298.0	1199.2	1164.9	1143.8	1104.3	1066.1	1027.9	1000.2
50°	1483.8	1479.9	1479.9	1448.3	1354.7	1315.2	1278.3	1204.5	1163.6	1116.2	1076.6
52.5°	1573.4	1558.9	1568.2	1586.6	1518.1	1468.0	1403.4	1320.4	1266.4	1208.4	1158.3
55°	1696.0	1620.9	1642.0	1706.5	1680.2	1602.4	1516.8	1428.5	1366.5	1300.7	1254.5
57.5°	1653.8	1602.4	1664.4	1777.7	1776.4	1703.9	1631.4	1523.4	1461.4	1399.5	1342.8
60°	1502.3	1528.6	1663.1	1826.5	1833.0	1776.4	1717.1	1616.9	1568.2	1503.6	1446.9
62.5°	1385.0	1423.2	1607.7	1822.5	1897.6	1844.9	1796.1	1736.8	1702.6	1648.6	1590.6
65°	1378.4	1400.8	1580.0	1818.6	1988.5	1960.9	1938.5	1910.8	1904.2	1864.7	1797.5
67.5°	1441.7	1462.7	1627.5	1920.0	2123.0	2111.1	2144.0	2138.8	2167.8	2148.0	2092.7
70°	1317.8	1329.7	1532.6	1955.6	2430.0	2482.7	2556.5	2552.6	2614.5	2567.1	2502.5
72.5°	925.1	948.8	1128.0	1615.6	2436.6	2718.6	2889.9	3034.9	3102.1	3113.9	3083.6
73°	826.3	844.7	1010.7	1504.9	2370.7	2671.2	2901.8	3050.7	3110.0	3146.9	3149.5
75°	287.3	296.5	441.5	911.9	1895.0	2331.2	2627.7	2762.1	2747.6	2855.7	2974.3
77.5°	92.2	93.6	114.6	235.9	914.5	1446.9	1777.7	1901.6	1830.4	1947.7	2105.8
80°	56.7	59.3	75.1	106.7	239.8	438.8	743.2	930.4	892.1	1001.5	1170.2
82.5°	34.3	35.6	46.1	65.9	96.2	106.7	139.7	189.8	233.2	280.7	367.7
85°	15.8	17.1	22.4	30.3	39.5	40.9	39.5	36.9	42.2	48.8	56.7
87.5°	0.0	0.0	1.3	2.6	1.3	0.0	0.0	0.0	0.0	1.3	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°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	504.7	500.8	500.8	495.5	498.1	492.9	495.5	490.2	492.9	486.3	490.2
5°	512.6	506.0	506.0	498.1	499.4	490.2	494.2	483.6	488.9	477.0	484.9
7.5°	516.6	504.7	510.0	495.5	502.1	486.3	494.2	477.0	487.6	469.1	482.3
10°	521.8	504.7	513.9	498.1	506.0	487.6	498.1	477.0	490.2	467.8	479.7
12.5°	529.8	511.3	519.2	500.8	511.3	490.2	500.8	479.7	492.9	467.8	482.3
15°	535.0	516.6	524.5	506.0	513.9	490.2	503.4	478.4	492.9	466.5	482.3
17.5°	533.7	516.6	524.5	503.4	512.6	488.9	502.1	477.0	490.2	462.5	479.7
20°	528.4	513.9	519.2	500.8	508.7	484.9	496.8	471.8	486.3	458.6	475.7
22.5°	521.8	507.3	513.9	496.8	504.7	481.0	491.5	469.1	483.6	456.0	471.8
25°	517.9	506.0	510.0	492.9	503.4	482.3	492.9	467.8	483.6	456.0	474.4
27.5°	516.6	506.0	513.9	498.1	507.3	488.9	499.4	477.0	490.2	461.2	479.7
30°	524.5	515.3	521.8	508.7	516.6	498.1	508.7	487.6	500.8	473.1	494.2
32.5°	533.7	524.5	531.1	519.2	531.1	512.6	525.8	504.7	520.5	492.9	512.6
35°	553.5	542.9	552.2	539.0	552.2	537.7	552.2	529.8	549.5	521.8	542.9
37.5°	604.9	575.9	585.1	570.6	583.8	565.3	590.4	568.0	590.4	564.0	593.0
40°	686.6	635.2	644.4	614.1	633.9	606.2	636.5	619.4	649.7	616.7	653.6
42.5°	793.3	744.6	735.3	689.2	706.3	673.4	703.7	673.4	714.2	682.6	728.7
45°	890.8	839.4	824.9	780.1	792.0	748.5	786.7	744.6	798.6	761.7	819.7
47.5°	971.2	910.6	898.7	847.3	868.4	827.6	875.0	830.2	896.1	859.2	926.4
50°	1045.0	969.9	967.3	911.9	947.5	906.6	973.8	943.5	1008.1	971.2	1050.3
52.5°	1129.3	1034.5	1047.6	997.6	1054.2	1020.0	1097.7	1054.2	1138.6	1099.0	1186.0
55°	1219.0	1118.8	1153.1	1122.8	1190.0	1167.6	1233.5	1193.9	1276.9	1237.4	1329.7
57.5°	1317.8	1232.1	1292.8	1278.3	1337.6	1309.9	1383.7	1348.1	1431.1	1398.2	1490.4
60°	1446.9	1390.3	1449.6	1448.3	1499.6	1498.3	1545.8	1524.7	1603.8	1589.3	1673.6
62.5°	1614.3	1569.5	1632.7	1615.6	1677.5	1667.0	1725.0	1725.0	1781.7	1801.4	1885.8
65°	1839.6	1780.3	1855.4	1829.1	1891.0	1893.7	1930.6	1937.2	2005.7	2028.1	2100.6
67.5°	2145.4	2076.8	2136.1	2086.1	2157.2	2153.3	2184.9	2198.1	2207.3	2261.3	2269.2
70°	2585.5	2482.7	2536.7	2468.2	2481.4	2490.6	2431.3	2474.8	2369.4	2455.0	2339.1
72.5°	3061.2	2943.9	2850.4	2781.9	2646.1	2626.4	2453.7	2490.6	2266.6	2340.4	2105.8
73°	3086.3	2972.9	2846.4	2775.3	2614.5	2593.4	2408.9	2440.5	2192.8	2262.6	2016.2
75°	2805.6	2835.9	2531.5	2560.5	2281.1	2314.0	2025.4	2062.3	1757.9	1810.6	1493.1
77.5°	1891.0	1992.5	1651.2	1779.0	1432.4	1560.3	1168.9	1180.7	861.8	805.2	546.9
80°	936.9	1023.9	726.1	793.3	532.4	523.2	318.9	264.9	225.3	230.6	237.2
82.5°	270.1	304.4	188.4	187.1	133.1	126.5	126.5	134.4	137.1	152.9	148.9
85°	51.4	61.9	54.0	72.5	64.6	71.2	65.9	76.4	71.2	88.3	76.4
87.5°	1.3	0.0	1.3	4.0	4.0	9.2	6.6	10.5	10.5	18.4	17.1
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°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	484.9	491.5	488.9	486.3	483.6	482.3	477.0	479.7	473.1	478.4	473.1
5°	474.4	482.3	478.4	473.1	470.5	467.8	458.6	465.2	454.6	463.9	456.0
7.5°	462.5	475.7	471.8	466.5	461.2	458.6	440.1	454.6	438.8	452.0	438.8
10°	458.6	473.1	467.8	461.2	456.0	453.3	430.9	448.0	430.9	445.4	428.3
12.5°	456.0	473.1	465.2	458.6	453.3	449.4	424.3	445.4	423.0	444.1	424.3
15°	453.3	473.1	462.5	454.6	449.4	445.4	419.1	442.8	417.7	441.5	419.1
17.5°	450.7	469.1	459.9	450.7	445.4	442.8	413.8	438.8	412.5	438.8	416.4
20°	446.7	465.2	454.6	445.4	440.1	436.2	407.2	433.6	405.9	432.2	407.2
22.5°	441.5	461.2	452.0	442.8	437.5	430.9	399.3	427.0	398.0	424.3	400.6
25°	442.8	463.9	452.0	442.8	434.9	428.3	394.0	424.3	391.4	417.7	391.4
27.5°	449.4	467.8	456.0	448.0	437.5	429.6	394.0	421.7	388.7	411.2	383.5
30°	462.5	481.0	470.5	458.6	449.4	438.8	400.6	423.0	388.7	403.2	375.6
32.5°	484.9	502.1	491.5	482.3	471.8	456.0	413.8	429.6	391.4	398.0	369.0
35°	513.9	535.0	529.8	523.2	510.0	482.3	436.2	438.8	396.7	392.7	359.8
37.5°	561.4	590.4	589.1	587.7	573.2	523.2	461.2	457.3	401.9	388.7	347.9
40°	623.3	657.6	666.8	676.0	645.7	571.9	490.2	475.7	404.6	380.8	329.4
42.5°	695.8	741.9	769.6	786.7	731.4	626.0	523.2	496.8	404.6	369.0	308.4
45°	785.4	839.4	892.1	910.6	826.3	683.9	557.4	513.9	399.3	350.5	280.7
47.5°	894.8	958.0	1030.5	1039.7	929.0	745.9	581.1	525.8	382.2	325.5	255.7
50°	1016.0	1092.4	1199.2	1192.6	1038.4	810.4	597.0	533.7	351.9	296.5	225.3
52.5°	1151.7	1247.9	1399.5	1369.2	1171.5	890.8	611.5	544.2	315.0	262.2	195.0
55°	1321.7	1436.4	1626.2	1561.6	1319.1	979.1	632.5	545.6	266.2	221.4	172.6
57.5°	1504.9	1627.5	1869.9	1752.7	1457.5	1047.6	623.3	503.4	217.4	187.1	155.5
60°	1725.0	1873.9	2113.7	1930.6	1573.4	1071.4	558.7	415.1	185.8	168.7	147.6
62.5°	1971.4	2119.0	2314.0	2054.4	1639.3	1031.8	415.1	287.3	159.5	150.2	135.7
65°	2233.7	2373.3	2410.2	2065.0	1595.8	857.9	257.0	188.4	138.4	134.4	125.2
67.5°	2474.8	2488.0	2319.3	1893.7	1385.0	598.3	175.3	150.2	127.8	126.5	121.2
70°	2536.7	2308.8	1927.9	1474.6	1000.2	355.8	142.3	130.5	122.6	122.6	118.6
72.5°	2119.0	1757.9	1288.8	893.5	545.6	189.8	121.2	118.6	116.0	116.0	113.3
73°	1987.2	1619.6	1154.4	780.1	461.2	170.0	118.6	116.0	114.6	113.3	112.0
75°	1320.4	1017.3	654.9	395.3	214.8	122.6	105.4	105.4	104.1	105.4	104.1
77.5°	508.7	383.5	253.0	170.0	122.6	96.2	89.6	90.9	89.6	92.2	90.9
80°	224.0	221.4	167.4	119.9	89.6	72.5	72.5	72.5	73.8	75.1	75.1
82.5°	152.9	129.1	98.8	73.8	54.0	52.7	54.0	54.0	55.3	56.7	55.3
85°	84.3	71.2	52.7	32.9	29.0	35.6	35.6	35.6	34.3	34.3	32.9
87.5°	26.4	19.8	14.5	4.0	6.6	6.6	9.2	7.9	7.9	9.2	9.2
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	478.4	474.4	478.4	471.8	477.0	471.8	475.7	475.7	474.4	474.4	474.4
5°	462.5	456.0	462.5	458.6	462.5	457.3	461.2	462.5	463.9	467.8	466.5
7.5°	450.7	437.5	452.0	438.8	450.7	438.8	449.4	450.7	454.6	459.9	463.9
10°	445.4	428.3	445.4	429.6	444.1	430.9	444.1	445.4	449.4	456.0	462.5
12.5°	442.8	424.3	442.8	427.0	442.8	429.6	442.8	446.7	449.4	454.6	462.5
15°	440.1	421.7	442.8	425.6	442.8	429.6	444.1	446.7	450.7	456.0	462.5
17.5°	438.8	417.7	440.1	424.3	440.1	427.0	442.8	442.8	448.0	454.6	458.6
20°	433.6	413.8	433.6	417.7	433.6	421.7	434.9	434.9	440.1	442.8	449.4
22.5°	425.6	404.6	423.0	408.5	423.0	411.2	421.7	421.7	425.6	429.6	433.6
25°	413.8	394.0	409.8	396.7	407.2	396.7	404.6	403.2	405.9	408.5	411.2
27.5°	400.6	380.8	394.0	379.5	386.1	375.6	380.8	378.2	379.5	380.8	382.2
30°	386.1	366.3	372.9	359.8	361.1	350.5	353.2	349.2	347.9	346.6	343.9
32.5°	370.3	349.2	349.2	336.0	333.4	324.2	324.2	318.9	315.0	309.7	304.4
35°	350.5	332.1	322.9	312.3	307.0	297.8	296.5	289.9	280.7	271.5	266.2
37.5°	330.8	309.7	296.5	286.0	280.7	274.1	272.8	267.5	257.0	246.4	238.5
40°	304.4	283.3	268.8	264.9	260.9	255.7	257.0	250.4	239.8	228.0	221.4
42.5°	278.1	259.6	247.7	246.4	243.8	242.5	243.8	238.5	226.7	216.1	208.2
45°	255.7	237.2	225.3	224.0	222.7	228.0	229.3	228.0	214.8	204.3	193.7
47.5°	233.2	210.8	202.9	200.3	201.6	209.5	212.2	216.1	204.3	192.4	177.9
50°	206.9	185.8	183.2	180.5	181.9	188.4	195.0	202.9	192.4	175.3	155.5
52.5°	183.2	164.7	166.0	163.4	166.0	171.3	176.6	189.8	176.6	159.5	150.2
55°	164.7	150.2	152.9	150.2	152.9	159.5	163.4	173.9	173.9	170.0	162.1
57.5°	151.5	141.0	143.6	141.0	145.0	150.2	154.2	176.6	189.8	179.2	163.4
60°	143.6	134.4	135.7	133.1	135.7	143.6	151.5	177.9	199.0	177.9	166.0
62.5°	131.8	123.9	122.6	122.6	125.2	138.4	142.3	166.0	196.4	176.6	167.4
65°	123.9	117.3	116.0	114.6	117.3	126.5	130.5	154.2	189.8	167.4	151.5
67.5°	119.9	114.6	112.0	109.4	112.0	119.9	123.9	145.0	179.2	159.5	142.3
70°	116.0	110.7	109.4	106.7	108.1	113.3	118.6	133.1	170.0	150.2	133.1
72.5°	110.7	105.4	104.1	100.2	101.5	106.7	109.4	125.2	158.1	141.0	123.9
73°	109.4	104.1	102.8	98.8	100.2	104.1	106.7	122.6	155.5	139.7	122.6
75°	102.8	97.5	96.2	93.6	94.9	94.9	97.5	112.0	147.6	131.8	114.6
77.5°	90.9	87.0	85.7	83.0	81.7	80.4	84.3	98.8	134.4	118.6	92.2
80°	75.1	71.2	69.8	64.6	64.6	64.6	69.8	84.3	100.2	85.7	71.2
82.5°	55.3	52.7	52.7	48.8	47.4	46.1	50.1	58.0	79.1	67.2	55.3
85°	32.9	31.6	32.9	29.0	30.3	29.0	32.9	40.9	43.5	34.3	26.4
87.5°	7.9	9.2	9.2	9.2	7.9	7.9	6.6	5.3	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°	490.2	490.2
2.5°	473.1	471.8
5°	466.5	466.5
7.5°	463.9	463.9
10°	465.2	465.2
12.5°	465.2	467.8
15°	469.1	467.8
17.5°	465.2	465.2
20°	454.6	457.3
22.5°	440.1	440.1
25°	416.4	417.7
27.5°	384.8	387.4
30°	345.3	347.9
32.5°	300.5	303.1
35°	264.9	266.2
37.5°	241.2	241.2
40°	221.4	221.4
42.5°	202.9	201.6
45°	184.5	181.9
47.5°	166.0	164.7
50°	150.2	150.2
52.5°	152.9	152.9
55°	164.7	164.7
57.5°	166.0	164.7
60°	180.5	179.2
62.5°	188.4	192.4
65°	164.7	159.5
67.5°	156.8	148.9
70°	141.0	129.1
72.5°	125.2	118.6
73°	121.2	116.0
75°	108.1	105.4
77.5°	81.7	80.4
80°	68.5	67.2
82.5°	46.1	43.5
85°	19.8	18.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)