

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: P271548

Luminaire Tested: **ISS-AF-1200-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
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-T3-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5714.2 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

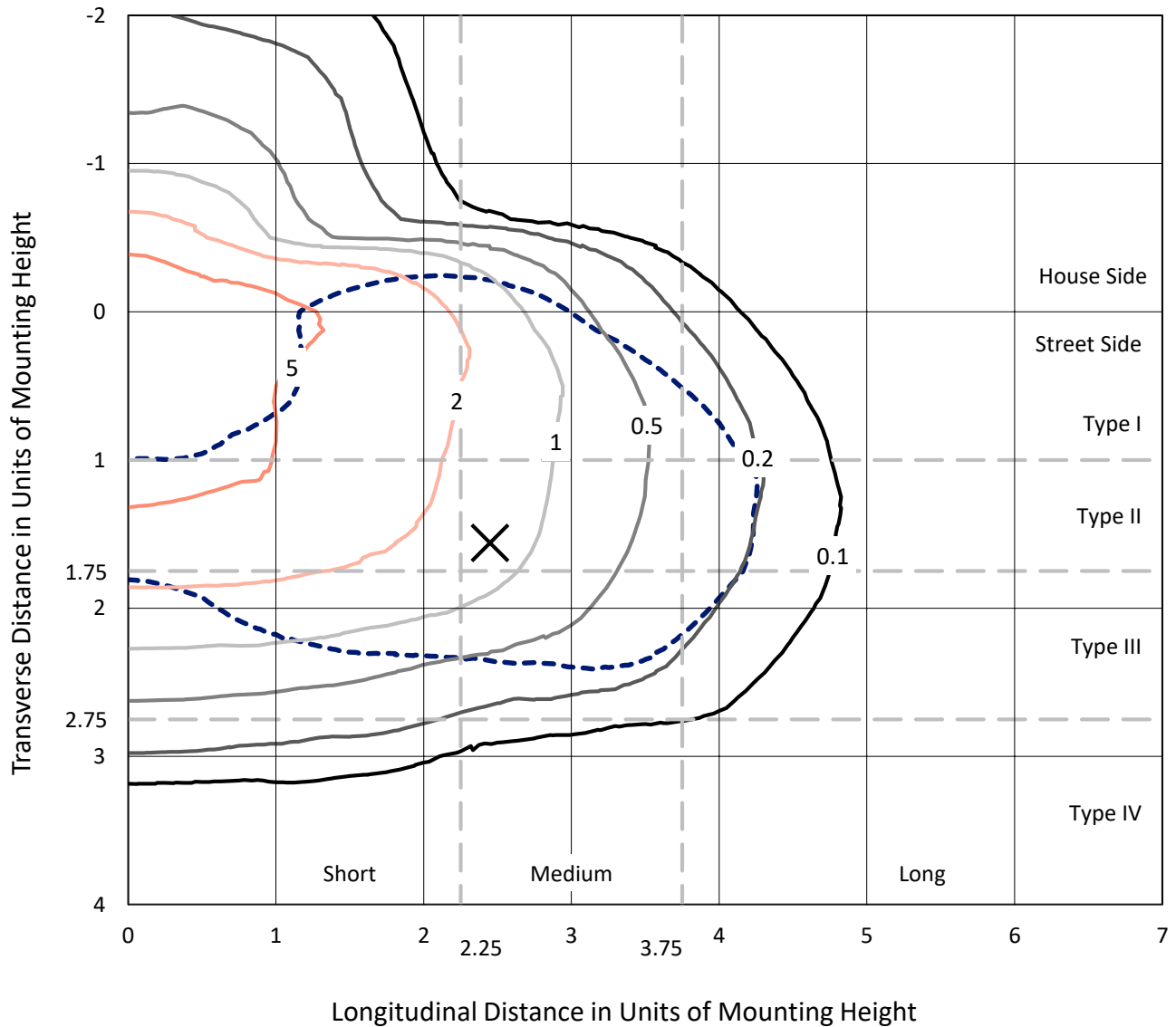
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

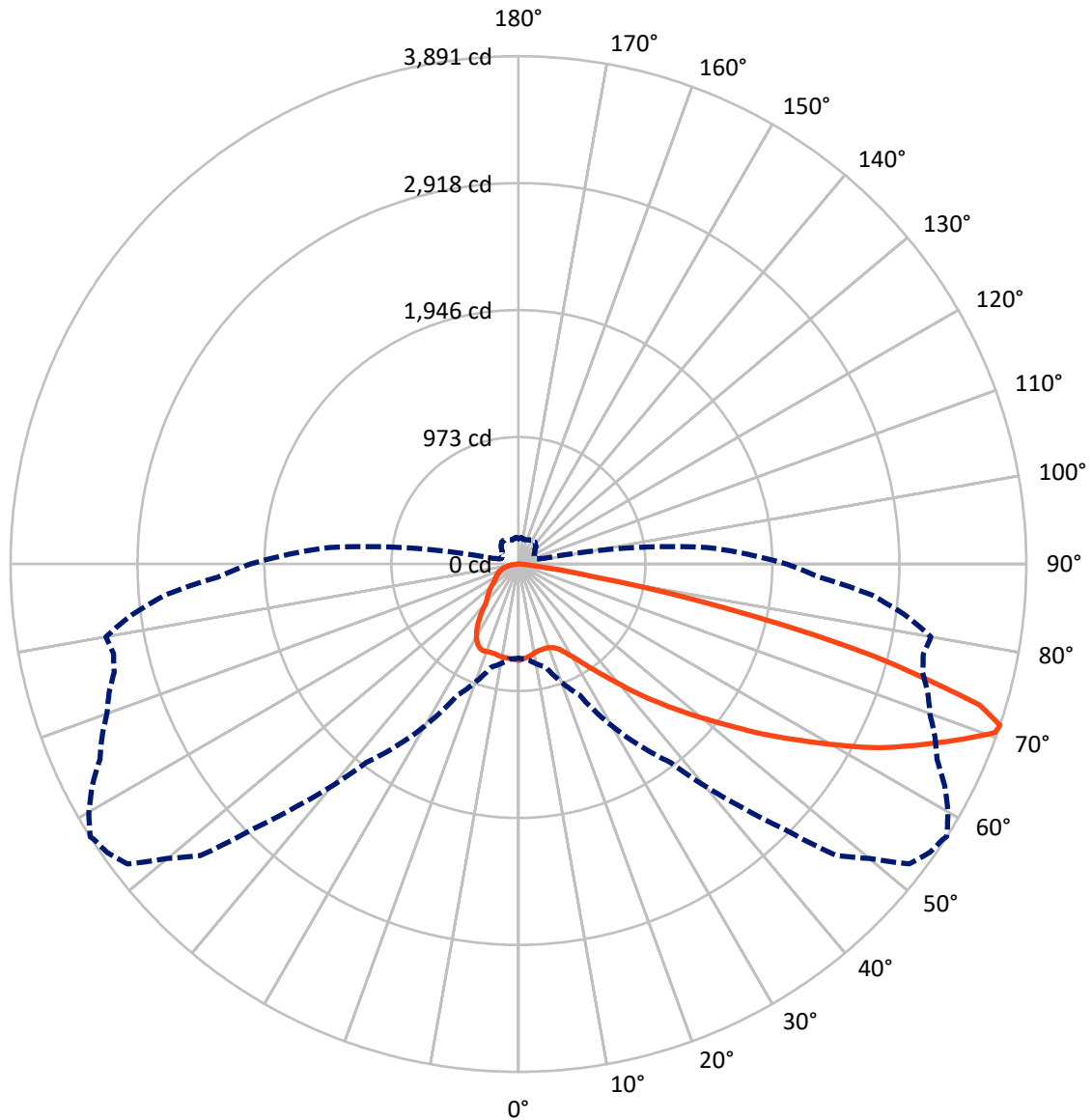
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.0	0.0	1244.0
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	4470.2	0.0	4470.2
	% Fixture	78.2	0.0	78.2
Total	Lumens	5714.2	0.0	5714.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.2
10°-20°	200.2	3.5
20°-30°	332.3	5.8
30°-40°	529.0	9.3
40°-50°	859.5	15.0
50°-60°	1288.6	22.6
60°-70°	1537.3	26.9
70°-80°	830.3	14.5
80°-90°	67.6	1.2
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°	5714.2	100.0
0°-180°	5714.2	100.0



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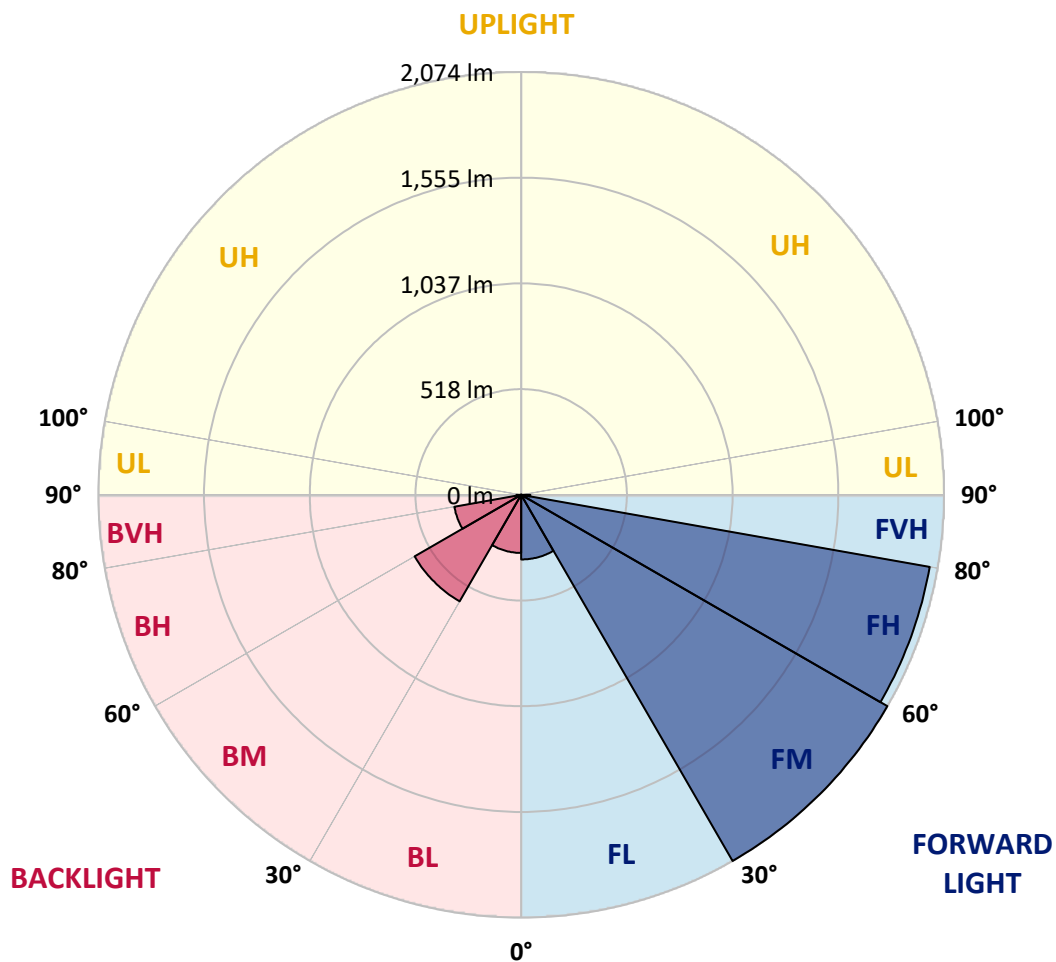
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	317.0	5.5			
FM	(30°-60°)	2073.9	36.3			
FH	(60°-80°)	2034.8	35.6			G2/5000
FVH	(80°-90°)	44.5	0.8			G1/100
BL	(0°-30°)	285.0	5.0	B1/500		
BM	(30°-60°)	603.2	10.6	B1/1000		
BH	(60°-80°)	332.8	5.8	B1/500		G1/500
BVH	(80°-90°)	23.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1
2.5°	738.1	736.3	734.5	734.5	734.5	732.5	726.9	728.7	734.5	730.6	736.3
5°	736.3	732.5	730.6	730.6	730.6	724.9	723.0	721.2	732.5	723.0	730.6
7.5°	715.5	715.5	711.7	715.5	719.4	713.6	709.9	711.7	721.2	711.7	721.2
10°	700.4	696.6	694.7	694.7	698.5	691.0	687.2	691.0	702.4	691.0	704.2
12.5°	694.7	696.6	691.0	691.0	689.1	679.7	679.7	679.7	689.1	679.7	691.0
15°	704.2	702.4	696.6	692.9	687.2	679.7	677.8	679.7	687.2	675.9	689.1
17.5°	717.5	717.5	708.0	698.5	692.9	685.4	685.4	681.5	687.2	679.7	689.1
20°	751.4	745.8	732.5	717.5	702.4	698.5	691.0	691.0	694.7	687.2	692.9
22.5°	809.9	804.3	781.6	753.3	728.7	719.4	715.5	713.6	709.9	706.1	706.1
25°	887.3	877.9	851.4	817.5	776.0	768.4	760.9	755.1	742.0	742.0	732.5
27.5°	970.3	961.0	932.6	894.9	843.9	832.5	823.2	815.6	792.9	792.9	776.0
30°	1064.9	1053.4	1019.5	978.0	919.4	915.6	902.4	891.1	860.8	859.0	836.3
32.5°	1174.4	1159.3	1125.1	1070.5	1008.2	1010.1	989.2	981.8	942.1	944.0	913.8
35°	1298.9	1281.9	1247.9	1176.2	1112.0	1117.7	1098.8	1085.6	1036.5	1036.5	1004.3
37.5°	1431.1	1431.1	1387.6	1304.6	1227.2	1240.4	1217.7	1204.4	1155.4	1162.9	1112.0
40°	1578.3	1587.8	1540.5	1446.2	1367.0	1372.5	1355.5	1340.5	1281.9	1295.2	1240.4
42.5°	1733.1	1750.1	1708.6	1610.4	1521.7	1540.5	1512.3	1497.1	1434.9	1463.2	1399.0
45°	1957.8	1961.6	1884.1	1789.7	1716.1	1733.1	1693.5	1687.8	1610.4	1640.7	1576.4
47.5°	2099.4	2090.0	2033.3	1976.7	1933.2	1967.3	1931.4	1921.9	1833.2	1853.9	1763.4
50°	2195.6	2201.4	2157.9	2152.2	2159.9	2224.0	2218.4	2199.5	2093.7	2078.6	1965.3
52.5°	2282.5	2258.0	2250.4	2303.3	2384.6	2460.0	2490.2	2465.7	2350.4	2308.9	2199.5
55°	2267.4	2231.6	2271.2	2399.6	2560.1	2677.1	2680.9	2663.9	2560.1	2543.0	2424.2
57.5°	2165.5	2173.0	2254.2	2437.3	2709.2	2830.0	2850.8	2830.0	2745.1	2760.2	2661.9
60°	2023.9	2039.1	2167.4	2403.3	2828.1	2932.0	2941.4	2965.9	2909.3	2949.0	2881.0
62.5°	1812.4	1833.2	1997.4	2318.3	2745.1	2899.9	2986.8	3043.4	3032.0	3122.7	3086.8
65°	1665.2	1665.2	1825.6	2220.3	2663.9	2867.7	2998.0	3103.7	3118.8	3262.4	3249.2
67.5°	1391.5	1400.9	1538.7	1946.4	2565.6	2796.1	2992.4	3171.7	3262.4	3488.9	3500.2
70°	962.8	970.3	1061.0	1389.5	2073.0	2269.3	2558.1	2850.8	3122.7	3464.3	3641.9
71°	721.2	730.6	819.3	1108.1	1755.7	1918.2	2218.4	2522.4	2864.0	3307.6	3507.8
72.5°	353.0	358.7	445.6	711.7	1221.4	1429.1	1602.8	1893.5	2256.1	2763.9	3047.1
75°	164.3	166.2	185.1	256.7	466.3	555.1	632.5	819.3	1044.0	1489.6	1833.2
77.5°	120.8	120.8	132.1	168.1	241.6	245.5	241.6	247.3	298.2	426.7	641.9
80°	88.8	88.8	96.3	113.3	160.4	160.4	154.8	156.8	151.1	156.8	177.4
82.5°	58.5	58.5	62.3	67.9	98.2	98.2	94.4	94.4	90.5	88.8	96.3
85°	34.0	35.8	37.8	32.1	41.5	39.6	35.8	39.6	37.8	34.0	41.5
87.5°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	1.9	0.0	1.9
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1
2.5°	728.7	734.5	734.5	726.9	732.5	726.9	730.6	724.9	730.6	721.2	732.5
5°	723.0	728.7	728.7	717.5	728.7	717.5	726.9	713.6	726.9	711.7	726.9
7.5°	708.0	721.2	721.2	706.1	719.4	708.0	719.4	706.1	717.5	700.4	719.4
10°	691.0	704.2	706.1	691.0	706.1	692.9	709.9	692.9	709.9	691.0	711.7
12.5°	679.7	694.7	698.5	681.5	700.4	683.4	704.2	685.4	704.2	683.4	708.0
15°	677.8	691.0	694.7	679.7	696.6	677.8	702.4	679.7	704.2	681.5	709.9
17.5°	679.7	691.0	694.7	677.8	694.7	679.7	700.4	681.5	704.2	683.4	709.9
20°	685.4	692.9	692.9	683.4	696.6	683.4	700.4	681.5	706.1	687.2	711.7
22.5°	702.4	704.2	704.2	696.6	704.2	694.7	708.0	694.7	711.7	696.6	719.4
25°	730.6	728.7	724.9	723.0	724.9	719.4	726.9	717.5	734.5	721.2	743.9
27.5°	779.7	772.1	768.4	768.4	766.5	768.4	768.4	764.5	772.1	768.4	783.5
30°	840.2	826.9	821.3	826.9	819.3	826.9	825.0	823.2	830.8	826.9	840.2
32.5°	919.4	896.8	892.9	904.3	889.2	902.4	891.1	896.8	902.4	906.2	913.8
35°	1011.9	985.5	981.8	993.1	976.1	995.0	981.8	989.2	993.1	1002.5	1008.2
37.5°	1121.4	1089.4	1083.6	1098.8	1076.1	1096.9	1078.1	1100.6	1095.0	1108.1	1113.9
40°	1253.6	1215.9	1202.7	1223.4	1196.9	1214.0	1195.0	1219.6	1214.0	1240.4	1246.1
42.5°	1416.0	1361.2	1348.0	1368.7	1329.1	1334.8	1319.7	1348.0	1344.2	1380.1	1385.7
45°	1584.0	1517.9	1499.0	1519.8	1474.5	1485.8	1463.2	1493.3	1491.5	1519.8	1542.5
47.5°	1770.9	1689.7	1665.2	1687.8	1633.1	1646.2	1623.7	1655.8	1657.6	1689.7	1712.3
50°	1965.3	1880.4	1848.4	1869.0	1818.1	1827.5	1804.9	1844.5	1842.6	1886.0	1903.1
52.5°	2176.9	2090.0	2065.5	2074.8	2014.4	2025.8	2006.9	2056.0	2044.6	2071.1	2105.1
55°	2410.9	2310.8	2282.5	2310.8	2239.0	2254.2	2229.6	2275.0	2256.1	2290.0	2299.5
57.5°	2650.7	2552.5	2529.9	2550.6	2482.6	2494.0	2461.9	2499.6	2484.5	2507.2	2522.4
60°	2905.6	2816.8	2794.2	2816.8	2750.7	2752.7	2697.9	2737.6	2714.9	2743.2	2737.6
62.5°	3149.1	3073.6	3067.9	3100.1	3017.0	3007.4	2941.4	2969.8	2937.6	2956.5	2933.9
65°	3356.8	3313.4	3320.9	3347.4	3273.7	3251.1	3175.5	3190.6	3143.3	3143.3	3115.1
67.5°	3628.6	3581.5	3581.5	3604.1	3511.6	3453.1	3349.2	3335.9	3258.6	3243.5	3177.5
70°	3855.2	3868.4	3853.3	3872.1	3762.7	3643.7	3505.9	3439.8	3337.9	3288.9	3211.4
71°	3774.0	3849.6	3876.0	3891.1	3800.4	3681.5	3538.1	3453.1	3354.9	3288.9	3205.7
72.5°	3405.8	3589.0	3692.8	3692.8	3704.1	3628.6	3490.8	3398.3	3286.9	3200.0	3122.7
75°	2386.3	2684.7	2818.7	2803.6	2901.7	2935.8	2947.1	2907.5	2845.1	2720.6	2665.8
77.5°	1063.0	1400.9	1602.8	1604.7	1710.6	1803.0	1876.6	1954.0	1925.7	1865.3	1861.5
80°	241.6	438.0	560.7	566.4	662.7	747.6	798.6	875.9	885.5	798.6	749.5
82.5°	103.8	122.7	139.7	137.8	169.9	203.8	241.6	262.5	253.1	209.6	198.3
85°	43.4	56.6	60.5	56.6	69.9	77.4	90.5	92.5	107.5	96.3	102.0
87.5°	0.0	1.9	1.9	0.0	3.8	0.0	3.8	1.9	9.4	3.8	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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1
2.5°	724.9	734.5	724.9	734.5	728.7	734.5	732.5	734.5	724.9	734.5	723.0
5°	711.7	726.9	713.6	724.9	713.6	726.9	726.9	726.9	713.6	728.7	715.5
7.5°	700.4	717.5	700.4	717.5	706.1	719.4	719.4	724.9	709.9	726.9	708.0
10°	689.1	709.9	689.1	713.6	694.7	715.5	717.5	721.2	700.4	723.0	704.2
12.5°	683.4	709.9	685.4	709.9	687.2	715.5	717.5	721.2	698.5	726.9	702.4
15°	683.4	711.7	685.4	711.7	687.2	715.5	719.4	723.0	698.5	728.7	702.4
17.5°	683.4	711.7	689.1	713.6	691.0	717.5	721.2	724.9	702.4	728.7	706.1
20°	689.1	715.5	692.9	719.4	696.6	723.0	724.9	730.6	706.1	730.6	709.9
22.5°	702.4	724.9	706.1	730.6	713.6	734.5	736.3	742.0	723.0	743.9	726.9
25°	724.9	749.5	734.5	753.3	743.9	760.9	764.5	764.5	757.0	770.3	764.5
27.5°	772.1	791.0	779.7	796.7	791.0	804.3	804.3	806.2	811.8	815.6	821.3
30°	832.5	845.8	842.0	851.4	853.4	860.8	860.8	872.3	894.9	872.3	870.4
32.5°	913.8	921.3	923.2	927.1	934.6	940.2	947.7	961.0	979.8	927.1	910.1
35°	1013.8	1015.7	1021.4	1027.0	1040.2	1044.0	1068.5	1059.1	1059.1	976.1	940.2
37.5°	1123.3	1123.3	1138.4	1138.4	1170.5	1172.4	1196.9	1147.9	1119.6	1011.9	959.1
40°	1261.1	1259.2	1276.2	1280.1	1323.5	1325.3	1321.6	1214.0	1153.5	1021.4	949.7
42.5°	1406.6	1412.1	1434.9	1442.4	1474.5	1485.8	1438.6	1259.2	1168.7	1015.7	917.6
45°	1565.0	1576.4	1604.7	1625.6	1659.5	1646.2	1533.0	1280.1	1151.6	981.8	855.3
47.5°	1738.8	1750.1	1772.7	1812.4	1827.5	1812.4	1610.4	1287.6	1125.1	928.8	764.5
50°	1914.4	1933.2	1965.3	2021.9	2029.5	1991.8	1704.8	1315.8	1104.5	874.1	660.7
52.5°	2112.6	2131.5	2169.2	2263.7	2244.8	2167.4	1816.2	1368.7	1110.1	840.2	572.0
55°	2322.2	2348.6	2422.2	2514.7	2473.2	2352.4	1938.9	1446.2	1132.8	804.3	473.9
57.5°	2543.0	2571.4	2667.7	2777.2	2696.0	2533.6	2063.6	1506.5	1144.1	730.6	366.3
60°	2762.1	2801.7	2926.3	3017.0	2890.5	2688.4	2174.9	1546.3	1113.9	590.9	283.1
62.5°	2962.3	3026.4	3166.1	3215.1	3013.2	2786.6	2235.3	1517.9	991.2	407.8	228.5
65°	3103.7	3186.8	3277.5	3271.8	2990.5	2754.6	2190.0	1387.6	738.1	270.0	194.4
67.5°	3164.2	3241.6	3262.4	3166.1	2828.1	2612.9	2027.7	1117.7	424.8	202.0	169.9
70°	3186.8	3252.9	3135.8	2903.6	2510.9	2265.5	1657.6	711.7	232.2	164.3	147.2
71°	3177.5	3209.6	2986.8	2714.9	2308.9	2052.2	1453.6	541.9	198.3	152.9	139.7
72.5°	3049.0	3003.8	2660.2	2358.1	1957.8	1697.3	1130.9	341.7	162.3	137.8	130.3
75°	2492.1	2288.3	1957.8	1672.7	1332.8	1066.6	613.6	175.6	130.3	118.9	113.3
77.5°	1629.3	1451.8	1179.9	959.1	728.7	553.2	251.1	120.8	103.8	100.0	98.2
80°	581.6	466.3	353.0	309.6	234.1	192.6	122.7	92.5	81.2	83.0	81.2
82.5°	164.3	151.1	130.3	120.8	105.7	103.8	79.3	69.9	64.2	67.9	66.0
85°	81.2	69.9	50.9	49.0	37.8	43.4	39.6	47.3	41.5	43.4	39.6
87.5°	5.7	7.5	1.9	5.7	0.0	5.7	7.5	9.4	1.9	7.5	5.7
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°	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1
2.5°	736.3	728.7	738.1	728.7	738.1	732.5	738.1	732.5	738.1	742.0	742.0
5°	732.5	719.4	736.3	726.9	738.1	728.7	736.3	730.6	740.0	743.9	747.6
7.5°	730.6	717.5	734.5	721.2	738.1	724.9	736.3	728.7	740.0	743.9	751.4
10°	728.7	711.7	734.5	715.5	736.3	723.0	736.3	724.9	738.1	742.0	743.9
12.5°	728.7	709.9	734.5	713.6	736.3	717.5	734.5	717.5	736.3	734.5	728.7
15°	730.6	706.1	734.5	709.9	734.5	711.7	732.5	709.9	728.7	723.0	719.4
17.5°	730.6	706.1	732.5	708.0	730.6	709.9	726.9	706.1	723.0	721.2	715.5
20°	734.5	709.9	732.5	715.5	732.5	711.7	724.9	706.1	719.4	708.0	685.4
22.5°	745.8	728.7	745.8	728.7	736.3	717.5	723.0	700.4	698.5	679.7	643.7
25°	772.1	764.5	760.9	740.0	734.5	709.9	702.4	675.9	666.5	638.2	589.1
27.5°	806.2	789.3	766.5	742.0	717.5	687.2	666.5	645.7	625.0	589.1	526.8
30°	828.8	804.3	757.0	723.0	677.8	653.2	617.3	594.7	564.5	519.2	458.8
32.5°	843.9	806.2	734.5	694.7	634.3	602.2	555.1	530.4	487.2	443.7	400.3
35°	847.7	798.6	704.2	660.7	581.6	545.6	483.3	456.9	415.4	385.1	368.1
37.5°	832.5	772.1	657.0	600.3	513.5	472.0	413.5	394.5	370.0	358.7	351.1
40°	802.4	721.2	583.4	517.3	428.5	396.4	366.3	366.3	353.0	347.4	334.2
42.5°	747.6	645.7	488.9	424.8	364.4	358.7	341.7	349.4	339.8	336.1	317.2
45°	662.7	538.1	394.5	356.9	328.5	332.2	321.0	328.5	322.9	321.0	298.2
47.5°	553.2	428.5	332.2	319.1	300.1	305.9	296.4	305.9	300.1	302.1	285.1
50°	441.8	347.4	294.6	287.0	273.7	277.6	271.8	281.3	279.5	287.0	277.6
52.5°	353.0	296.4	262.5	256.7	249.2	251.1	249.2	258.6	260.6	275.6	275.6
55°	292.7	254.8	236.0	234.1	226.6	228.5	230.3	239.8	247.3	266.2	275.6
57.5°	251.1	228.5	215.2	213.3	209.6	211.4	215.2	226.6	234.1	258.6	279.5
60°	220.9	207.7	198.3	198.3	194.4	198.3	202.0	213.3	222.8	251.1	271.8
62.5°	198.3	188.8	183.2	185.1	183.2	186.8	190.7	202.0	213.3	239.8	260.6
65°	177.4	171.8	168.1	169.9	169.9	175.6	179.3	190.7	200.1	224.7	251.1
67.5°	160.4	156.8	154.8	156.8	158.6	164.3	169.9	177.4	185.1	207.7	237.9
70°	147.2	143.5	143.5	143.5	145.3	151.1	158.6	162.3	169.9	194.4	222.8
71°	139.7	137.8	137.8	137.8	139.7	145.3	152.9	156.8	164.3	188.8	215.2
72.5°	130.3	130.3	132.1	130.3	134.0	135.9	143.5	147.2	156.8	181.3	205.8
75°	115.2	115.2	117.0	117.0	120.8	120.8	126.5	130.3	141.7	162.3	185.1
77.5°	102.0	102.0	105.7	103.8	103.8	100.0	107.5	111.4	120.8	141.7	164.3
80°	86.9	85.0	88.8	83.0	81.2	77.4	83.0	88.8	103.8	117.0	120.8
82.5°	67.9	62.3	64.2	58.5	58.5	54.8	60.5	62.3	71.8	85.0	92.5
85°	41.5	34.0	37.8	32.1	35.8	32.1	34.0	35.8	43.4	52.9	50.9
87.5°	9.4	5.7	7.5	1.9	5.7	0.0	5.7	1.9	5.7	1.9	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°	738.1	738.1	738.1	738.1
2.5°	745.8	743.9	745.8	743.9
5°	755.1	755.1	757.0	759.0
7.5°	757.0	760.9	764.5	762.8
10°	743.9	740.0	743.9	740.0
12.5°	723.0	719.4	723.0	723.0
15°	721.2	719.4	721.2	721.2
17.5°	708.0	698.5	694.7	692.9
20°	670.2	653.2	649.5	643.7
22.5°	617.3	592.8	585.2	579.6
25°	553.2	519.2	505.9	498.4
27.5°	483.3	449.3	436.0	436.0
30°	428.5	402.1	389.0	389.0
32.5°	389.0	373.9	364.4	366.3
35°	356.9	347.4	341.7	343.6
37.5°	336.1	321.0	307.7	307.7
40°	315.2	296.4	279.5	279.5
42.5°	296.4	277.6	266.2	264.3
45°	277.6	264.3	254.8	253.1
47.5°	268.1	256.7	247.3	245.5
50°	264.3	253.1	239.8	239.8
52.5°	268.1	258.6	234.1	234.1
55°	275.6	270.0	234.1	230.3
57.5°	268.1	258.6	236.0	230.3
60°	251.1	236.0	232.2	228.5
62.5°	239.8	224.7	232.2	230.3
65°	230.3	219.0	236.0	232.2
67.5°	220.9	209.6	236.0	228.5
70°	209.6	198.3	215.2	202.0
71°	203.8	190.7	203.8	192.6
72.5°	194.4	179.3	183.2	175.6
75°	175.6	160.4	156.8	154.8
77.5°	145.3	128.4	122.7	120.8
80°	111.4	100.0	100.0	94.4
82.5°	83.0	73.6	71.8	62.3
85°	43.4	34.0	28.4	28.4
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)