

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: P227717

Luminaire Tested: **ISS-AF-1200-LED-E1-T3-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227717  
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-T3-7060  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

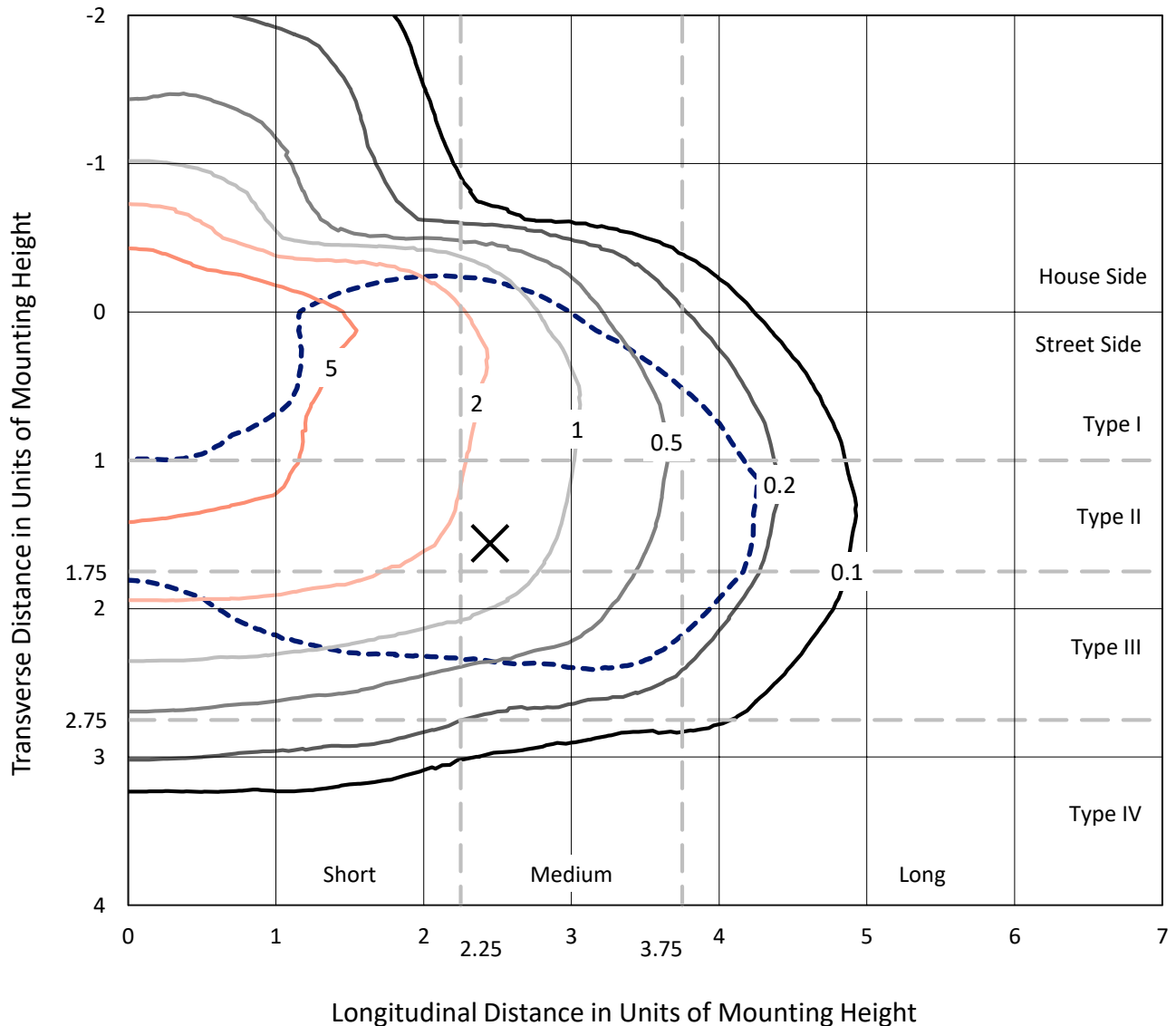
Lumens per Lamp: N/A  
Luminaire Lumens: 6577 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (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

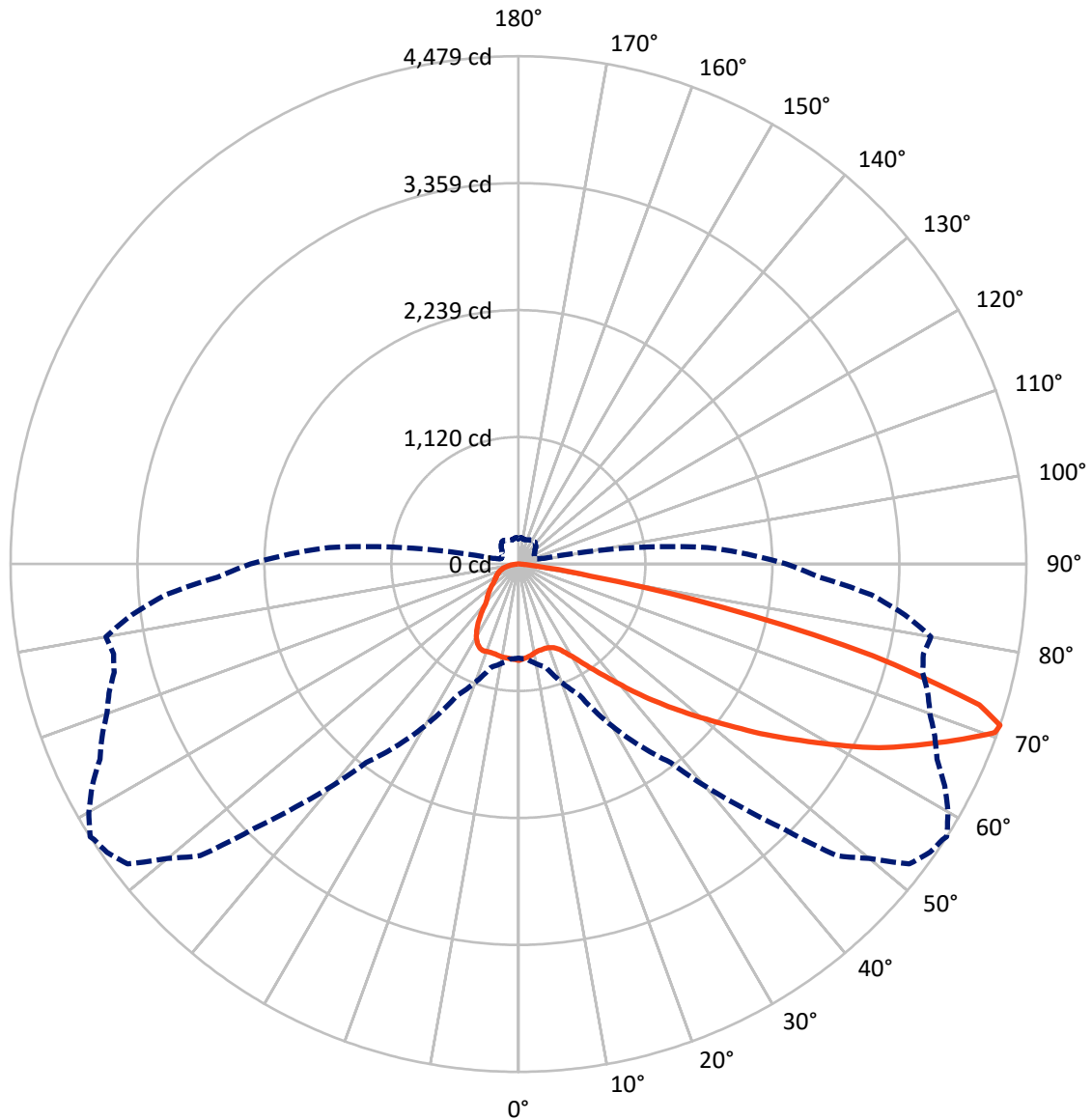
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 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
<b>House Side</b>	Lumens	1431.8	0.0	1431.8
	% Fixture	21.8	0.0	21.8
<b>Street Side</b>	Lumens	5145.2	0.0	5145.2
	% Fixture	78.2	0.0	78.2
<b>Total</b>	Lumens	6577.0	0.0	6577.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	1.2
10°-20°	230.4	3.5
20°-30°	382.5	5.8
30°-40°	608.9	9.3
40°-50°	989.2	15.0
50°-60°	1483.2	22.6
60°-70°	1769.4	26.9
70°-80°	955.6	14.5
80°-90°	77.8	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°	6577.0	100.0
0°-180°	6577.0	100.0



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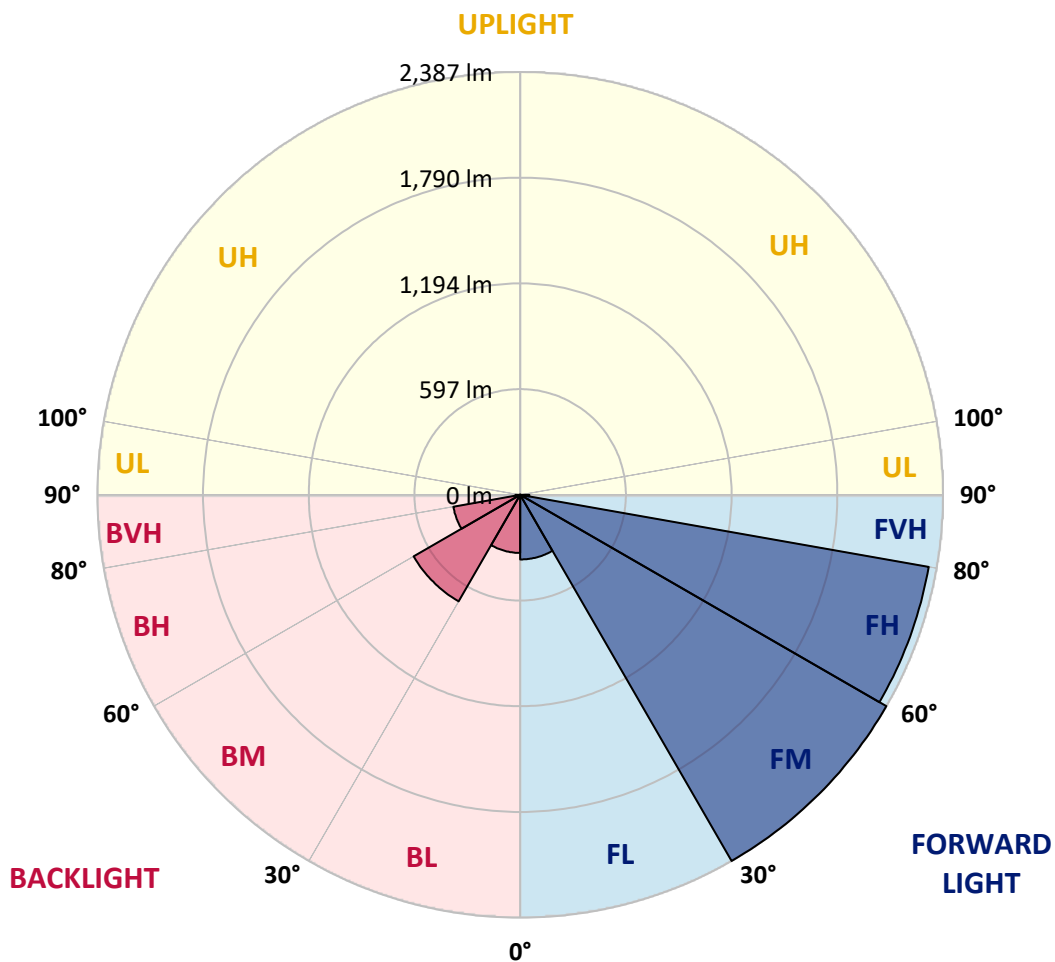
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.9	5.5			
FM	(30°-60°)	2387.0	36.3			
FH	(60°-80°)	2342.0	35.6			G2/5000
FVH	(80°-90°)	51.2	0.8			G1/100
BL	(0°-30°)	328.0	5.0	B1/500		
BM	(30°-60°)	694.3	10.6	B1/1000		
BH	(60°-80°)	383.0	5.8	B1/500		G1/500
BVH	(80°-90°)	26.5	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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	849.6	847.5	845.3	845.3	845.3	843.1	836.6	838.8	845.3	841.0	847.5
5°	847.5	843.1	841.0	841.0	841.0	834.4	832.3	830.1	843.1	832.3	841.0
7.5°	823.6	823.6	819.2	823.6	827.9	821.4	817.1	819.2	830.1	819.2	830.1
10°	806.2	801.8	799.7	799.7	804.0	795.3	791.0	795.3	808.4	795.3	810.5
12.5°	799.7	801.8	795.3	795.3	793.2	782.3	782.3	782.3	793.2	782.3	795.3
15°	810.5	808.4	801.8	797.5	791.0	782.3	780.1	782.3	791.0	777.9	793.2
17.5°	825.7	825.7	814.9	804.0	797.5	788.8	788.8	784.5	791.0	782.3	793.2
20°	864.9	858.3	843.1	825.7	808.4	804.0	795.3	795.3	799.7	791.0	797.5
22.5°	932.2	925.7	899.6	867.0	838.8	827.9	823.6	821.4	817.1	812.7	812.7
25°	1021.3	1010.5	980.0	940.9	893.1	884.4	875.7	869.2	854.0	854.0	843.1
27.5°	1116.9	1106.1	1073.5	1030.0	971.3	958.3	947.4	938.7	912.7	912.7	893.1
30°	1225.6	1212.5	1173.4	1125.6	1058.3	1053.9	1038.7	1025.7	990.9	988.7	962.6
32.5°	1351.6	1334.2	1295.1	1232.1	1160.4	1162.6	1138.7	1130.0	1084.3	1086.5	1051.7
35°	1495.0	1475.5	1436.4	1353.8	1279.9	1286.4	1264.7	1249.5	1193.0	1193.0	1156.0
37.5°	1647.1	1647.1	1597.2	1501.6	1412.5	1427.7	1401.6	1386.4	1329.9	1338.6	1279.9
40°	1816.6	1827.5	1773.2	1664.5	1573.3	1579.8	1560.2	1542.8	1475.5	1490.7	1427.7
42.5°	1994.8	2014.4	1966.6	1853.6	1751.5	1773.2	1740.6	1723.2	1651.5	1684.1	1610.2
45°	2253.4	2257.8	2168.7	2060.0	1975.3	1994.8	1949.2	1942.7	1853.6	1888.4	1814.5
47.5°	2416.4	2405.5	2340.3	2275.1	2225.2	2264.3	2223.0	2212.1	2110.0	2133.9	2029.6
50°	2527.2	2533.7	2483.8	2477.2	2485.9	2559.8	2553.3	2531.6	2409.9	2392.5	2262.1
52.5°	2627.2	2598.9	2590.2	2651.1	2744.5	2831.4	2866.2	2838.0	2705.4	2657.6	2531.6
55°	2609.8	2568.5	2614.1	2761.9	2946.6	3081.3	3085.7	3066.1	2946.6	2927.1	2790.2
57.5°	2492.4	2501.1	2594.6	2805.4	3118.3	3257.3	3281.3	3257.3	3159.6	3176.9	3064.0
60°	2329.5	2346.9	2494.6	2766.2	3255.2	3374.7	3385.6	3413.8	3348.6	3394.2	3316.0
62.5°	2086.1	2110.0	2299.0	2668.5	3159.6	3337.8	3437.7	3502.9	3489.9	3594.2	3552.9
65°	1916.6	1916.6	2101.3	2555.5	3066.1	3300.8	3450.7	3572.4	3589.8	3755.0	3739.8
67.5°	1601.5	1612.4	1771.0	2240.4	2953.1	3218.2	3444.2	3650.7	3755.0	4015.7	4028.8
70°	1108.2	1116.9	1221.2	1599.3	2386.0	2612.0	2944.4	3281.3	3594.2	3987.5	4191.7
71°	830.1	841.0	943.1	1275.6	2020.9	2207.8	2553.3	2903.1	3296.5	3807.1	4037.5
72.5°	406.4	412.9	512.8	819.2	1405.9	1645.0	1844.9	2179.5	2596.8	3181.3	3507.2
75°	189.1	191.2	213.0	295.5	536.7	638.9	728.0	943.1	1201.7	1714.5	2110.0
77.5°	139.1	139.1	152.1	193.4	278.1	282.5	278.1	284.7	343.3	491.1	738.8
80°	102.1	102.1	110.8	130.4	184.7	184.7	178.2	180.4	173.8	180.4	204.3
82.5°	67.4	67.4	71.7	78.2	113.0	113.0	108.7	108.7	104.3	102.1	110.8
85°	39.1	41.3	43.5	36.9	47.8	45.6	41.3	45.6	43.5	39.1	47.8
87.5°	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.2	0.0	2.2
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):**

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	838.8	845.3	845.3	836.6	843.1	836.6	841.0	834.4	841.0	830.1	843.1
5°	832.3	838.8	838.8	825.7	838.8	825.7	836.6	821.4	836.6	819.2	836.6
7.5°	814.9	830.1	830.1	812.7	827.9	814.9	827.9	812.7	825.7	806.2	827.9
10°	795.3	810.5	812.7	795.3	812.7	797.5	817.1	797.5	817.1	795.3	819.2
12.5°	782.3	799.7	804.0	784.5	806.2	786.6	810.5	788.8	810.5	786.6	814.9
15°	780.1	795.3	799.7	782.3	801.8	780.1	808.4	782.3	810.5	784.5	817.1
17.5°	782.3	795.3	799.7	780.1	799.7	782.3	806.2	784.5	810.5	786.6	817.1
20°	788.8	797.5	797.5	786.6	801.8	786.6	806.2	784.5	812.7	791.0	819.2
22.5°	808.4	810.5	810.5	801.8	810.5	799.7	814.9	799.7	819.2	801.8	827.9
25°	841.0	838.8	834.4	832.3	834.4	827.9	836.6	825.7	845.3	830.1	856.2
27.5°	897.5	888.8	884.4	884.4	882.2	884.4	884.4	880.1	888.8	884.4	901.8
30°	967.0	951.8	945.3	951.8	943.1	951.8	949.6	947.4	956.1	951.8	967.0
32.5°	1058.3	1032.2	1027.8	1040.9	1023.5	1038.7	1025.7	1032.2	1038.7	1043.0	1051.7
35°	1164.7	1134.3	1130.0	1143.0	1123.4	1145.2	1130.0	1138.7	1143.0	1153.9	1160.4
37.5°	1290.8	1253.8	1247.3	1264.7	1238.6	1262.5	1240.8	1266.9	1260.3	1275.6	1282.1
40°	1442.9	1399.4	1384.2	1408.1	1377.7	1397.2	1375.5	1403.8	1397.2	1427.7	1434.2
42.5°	1629.8	1566.7	1551.5	1575.4	1529.8	1536.3	1518.9	1551.5	1547.2	1588.5	1595.0
45°	1823.2	1747.1	1725.4	1749.3	1697.1	1710.2	1684.1	1718.9	1716.7	1749.3	1775.4
47.5°	2038.3	1944.8	1916.6	1942.7	1879.7	1894.9	1868.8	1905.7	1907.9	1944.8	1970.9
50°	2262.1	2164.3	2127.4	2151.3	2092.6	2103.5	2077.4	2123.0	2120.9	2170.8	2190.4
52.5°	2505.5	2405.5	2377.3	2388.1	2318.6	2331.6	2309.9	2366.4	2353.4	2383.8	2422.9
55°	2774.9	2659.8	2627.2	2659.8	2577.2	2594.6	2566.3	2618.5	2596.8	2635.9	2646.7
57.5°	3050.9	2937.9	2911.8	2935.7	2857.5	2870.6	2833.6	2877.1	2859.7	2885.8	2903.1
60°	3344.3	3242.1	3216.1	3242.1	3166.1	3168.3	3105.2	3150.9	3124.8	3157.4	3150.9
62.5°	3624.6	3537.7	3531.1	3568.1	3472.5	3461.6	3385.6	3418.2	3381.2	3402.9	3376.9
65°	3863.6	3813.6	3822.3	3852.8	3768.0	3741.9	3655.0	3672.4	3618.1	3618.1	3585.5
67.5°	4176.5	4122.2	4122.2	4148.3	4041.8	3974.4	3854.9	3839.7	3750.6	3733.2	3657.2
70°	4437.3	4452.5	4435.1	4456.9	4330.8	4193.9	4035.3	3959.2	3841.9	3785.4	3696.3
71°	4343.9	4430.8	4461.2	4478.6	4374.3	4237.4	4072.2	3974.4	3861.4	3785.4	3689.8
72.5°	3920.1	4130.9	4250.4	4250.4	4263.5	4176.5	4017.9	3911.4	3783.2	3683.3	3594.2
75°	2746.7	3090.0	3244.3	3226.9	3339.9	3379.0	3392.1	3346.4	3274.7	3131.3	3068.3
77.5°	1223.4	1612.4	1844.9	1847.1	1968.8	2075.2	2160.0	2249.1	2216.5	2146.9	2142.6
80°	278.1	504.1	645.4	651.9	762.7	860.5	919.2	1008.3	1019.1	919.2	862.7
82.5°	119.5	141.2	160.8	158.6	195.6	234.7	278.1	302.0	291.2	241.2	228.2
85°	50.0	65.2	69.5	65.2	80.4	89.1	104.3	106.5	123.9	110.8	117.3
87.5°	0.0	2.2	2.2	0.0	4.3	0.0	4.3	2.2	10.9	4.3	13.0
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°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	834.4	845.3	834.4	845.3	838.8	845.3	843.1	845.3	834.4	845.3	832.3
5°	819.2	836.6	821.4	834.4	821.4	836.6	836.6	836.6	821.4	838.8	823.6
7.5°	806.2	825.7	806.2	825.7	812.7	827.9	827.9	834.4	817.1	836.6	814.9
10°	793.2	817.1	793.2	821.4	799.7	823.6	825.7	830.1	806.2	832.3	810.5
12.5°	786.6	817.1	788.8	817.1	791.0	823.6	825.7	830.1	804.0	836.6	808.4
15°	786.6	819.2	788.8	819.2	791.0	823.6	827.9	832.3	804.0	838.8	808.4
17.5°	786.6	819.2	793.2	821.4	795.3	825.7	830.1	834.4	808.4	838.8	812.7
20°	793.2	823.6	797.5	827.9	801.8	832.3	834.4	841.0	812.7	841.0	817.1
22.5°	808.4	834.4	812.7	841.0	821.4	845.3	847.5	854.0	832.3	856.2	836.6
25°	834.4	862.7	845.3	867.0	856.2	875.7	880.1	880.1	871.4	886.6	880.1
27.5°	888.8	910.5	897.5	917.0	910.5	925.7	925.7	927.9	934.4	938.7	945.3
30°	958.3	973.5	969.2	980.0	982.2	990.9	990.9	1003.9	1030.0	1003.9	1001.8
32.5°	1051.7	1060.4	1062.6	1067.0	1075.6	1082.2	1090.9	1106.1	1127.8	1067.0	1047.4
35°	1166.9	1169.1	1175.6	1182.1	1197.3	1201.7	1229.9	1219.1	1219.1	1123.4	1082.2
37.5°	1292.9	1292.9	1310.3	1310.3	1347.3	1349.4	1377.7	1321.2	1288.6	1164.7	1103.9
40°	1451.6	1449.4	1469.0	1473.3	1523.3	1525.5	1521.1	1397.2	1327.7	1175.6	1093.0
42.5°	1618.9	1625.4	1651.5	1660.2	1697.1	1710.2	1655.8	1449.4	1345.1	1169.1	1056.1
45°	1801.4	1814.5	1847.1	1871.0	1910.1	1894.9	1764.5	1473.3	1325.5	1130.0	984.4
47.5°	2001.3	2014.4	2040.5	2086.1	2103.5	2086.1	1853.6	1482.0	1295.1	1069.1	880.1
50°	2203.4	2225.2	2262.1	2327.3	2336.0	2292.5	1962.2	1514.6	1271.2	1006.1	760.6
52.5°	2431.6	2453.3	2496.8	2605.4	2583.7	2494.6	2090.4	1575.4	1277.7	967.0	658.4
55°	2672.8	2703.2	2788.0	2894.5	2846.6	2707.6	2231.7	1664.5	1303.8	925.7	545.4
57.5°	2927.1	2959.6	3070.5	3196.5	3103.1	2916.2	2375.1	1734.1	1316.8	841.0	421.6
60°	3179.1	3224.8	3368.2	3472.5	3326.9	3094.4	2503.3	1779.7	1282.1	680.2	326.0
62.5°	3409.5	3483.3	3644.1	3700.6	3468.1	3207.4	2572.8	1747.1	1140.8	469.4	262.9
65°	3572.4	3668.0	3772.4	3765.8	3442.1	3170.4	2520.7	1597.2	849.6	310.7	223.8
67.5°	3642.0	3731.1	3755.0	3644.1	3255.2	3007.5	2333.8	1286.4	488.9	232.5	195.6
70°	3668.0	3744.1	3609.4	3342.1	2890.1	2607.6	1907.9	819.2	267.3	189.1	169.5
71°	3657.2	3694.1	3437.7	3124.8	2657.6	2362.1	1673.2	623.7	228.2	176.0	160.8
72.5°	3509.4	3457.3	3061.8	2714.1	2253.4	1953.5	1301.6	393.3	186.9	158.6	149.9
75°	2868.4	2633.7	2253.4	1925.3	1534.1	1227.8	706.2	202.1	149.9	136.9	130.4
77.5°	1875.3	1671.0	1358.1	1103.9	838.8	636.7	289.0	139.1	119.5	115.2	113.0
80°	669.3	536.7	406.4	356.4	269.5	221.6	141.2	106.5	93.4	95.6	93.4
82.5°	189.1	173.8	149.9	139.1	121.7	119.5	91.3	80.4	73.9	78.2	76.1
85°	93.4	80.4	58.7	56.5	43.5	50.0	45.6	54.3	47.8	50.0	45.6
87.5°	6.5	8.7	2.2	6.5	0.0	6.5	8.7	10.9	2.2	8.7	6.5
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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	847.5	838.8	849.6	838.8	849.6	843.1	849.6	843.1	849.6	854.0	854.0
5°	843.1	827.9	847.5	836.6	849.6	838.8	847.5	841.0	851.8	856.2	860.5
7.5°	841.0	825.7	845.3	830.1	849.6	834.4	847.5	838.8	851.8	856.2	864.9
10°	838.8	819.2	845.3	823.6	847.5	832.3	847.5	834.4	849.6	854.0	856.2
12.5°	838.8	817.1	845.3	821.4	847.5	825.7	845.3	825.7	847.5	845.3	838.8
15°	841.0	812.7	845.3	817.1	845.3	819.2	843.1	817.1	838.8	832.3	827.9
17.5°	841.0	812.7	843.1	814.9	841.0	817.1	836.6	812.7	832.3	830.1	823.6
20°	845.3	817.1	843.1	823.6	843.1	819.2	834.4	812.7	827.9	814.9	788.8
22.5°	858.3	838.8	858.3	838.8	847.5	825.7	832.3	806.2	804.0	782.3	741.0
25°	888.8	880.1	875.7	851.8	845.3	817.1	808.4	777.9	767.1	734.5	678.0
27.5°	927.9	908.3	882.2	854.0	825.7	791.0	767.1	743.2	719.3	678.0	606.3
30°	954.0	925.7	871.4	832.3	780.1	751.9	710.6	684.5	649.7	597.6	528.0
32.5°	971.3	927.9	845.3	799.7	730.1	693.2	638.9	610.6	560.6	510.7	460.7
35°	975.7	919.2	810.5	760.6	669.3	628.0	556.3	525.9	478.1	443.3	423.7
37.5°	958.3	888.8	756.2	691.0	591.1	543.3	475.9	454.2	425.9	412.9	404.2
40°	923.5	830.1	671.5	595.4	493.3	456.3	421.6	421.6	406.4	399.8	384.6
42.5°	860.5	743.2	562.8	488.9	419.4	412.9	393.3	402.0	391.1	386.8	365.1
45°	762.7	619.3	454.2	410.7	378.1	382.5	369.4	378.1	371.6	369.4	343.3
47.5°	636.7	493.3	382.5	367.2	345.5	352.0	341.2	352.0	345.5	347.7	328.1
50°	508.5	399.8	339.0	330.3	315.1	319.4	312.9	323.8	321.6	330.3	319.4
52.5°	406.4	341.2	302.0	295.5	286.8	289.0	286.8	297.7	299.9	317.3	317.3
55°	336.8	293.4	271.6	269.5	260.8	262.9	265.1	276.0	284.7	306.4	317.3
57.5°	289.0	262.9	247.7	245.6	241.2	243.4	247.7	260.8	269.5	297.7	321.6
60°	254.2	239.0	228.2	228.2	223.8	228.2	232.5	245.6	256.4	289.0	312.9
62.5°	228.2	217.3	210.8	213.0	210.8	215.1	219.5	232.5	245.6	276.0	299.9
65°	204.3	197.7	193.4	195.6	195.6	202.1	206.4	219.5	230.3	258.6	289.0
67.5°	184.7	180.4	178.2	180.4	182.5	189.1	195.6	204.3	213.0	239.0	273.8
70°	169.5	165.1	165.1	165.1	167.3	173.8	182.5	186.9	195.6	223.8	256.4
71°	160.8	158.6	158.6	158.6	160.8	167.3	176.0	180.4	189.1	217.3	247.7
72.5°	149.9	149.9	152.1	149.9	154.3	156.5	165.1	169.5	180.4	208.6	236.9
75°	132.6	132.6	134.7	134.7	139.1	139.1	145.6	149.9	163.0	186.9	213.0
77.5°	117.3	117.3	121.7	119.5	119.5	115.2	123.9	128.2	139.1	163.0	189.1
80°	100.0	97.8	102.1	95.6	93.4	89.1	95.6	102.1	119.5	134.7	139.1
82.5°	78.2	71.7	73.9	67.4	67.4	63.0	69.5	71.7	82.6	97.8	106.5
85°	47.8	39.1	43.5	36.9	41.3	36.9	39.1	41.3	50.0	60.8	58.7
87.5°	10.9	6.5	8.7	2.2	6.5	0.0	6.5	2.2	6.5	2.2	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°	849.6	849.6	849.6	849.6
2.5°	858.3	856.2	858.3	856.2
5°	869.2	869.2	871.4	873.6
7.5°	871.4	875.7	880.1	877.9
10°	856.2	851.8	856.2	851.8
12.5°	832.3	827.9	832.3	832.3
15°	830.1	827.9	830.1	830.1
17.5°	814.9	804.0	799.7	797.5
20°	771.4	751.9	747.5	741.0
22.5°	710.6	682.3	673.6	667.1
25°	636.7	597.6	582.4	573.7
27.5°	556.3	517.2	502.0	502.0
30°	493.3	462.9	447.6	447.6
32.5°	447.6	430.3	419.4	421.6
35°	410.7	399.8	393.3	395.5
37.5°	386.8	369.4	354.2	354.2
40°	362.9	341.2	321.6	321.6
42.5°	341.2	319.4	306.4	304.2
45°	319.4	304.2	293.4	291.2
47.5°	308.6	295.5	284.7	282.5
50°	304.2	291.2	276.0	276.0
52.5°	308.6	297.7	269.5	269.5
55°	317.3	310.7	269.5	265.1
57.5°	308.6	297.7	271.6	265.1
60°	289.0	271.6	267.3	262.9
62.5°	276.0	258.6	267.3	265.1
65°	265.1	252.1	271.6	267.3
67.5°	254.2	241.2	271.6	262.9
70°	241.2	228.2	247.7	232.5
71°	234.7	219.5	234.7	221.6
72.5°	223.8	206.4	210.8	202.1
75°	202.1	184.7	180.4	178.2
77.5°	167.3	147.8	141.2	139.1
80°	128.2	115.2	115.2	108.7
82.5°	95.6	84.7	82.6	71.7
85°	50.0	39.1	32.6	32.6
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)