

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: P227585

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227585  
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  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5793 lumens  
Efficiency: N/A  
Efficacy: 106.1 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 - G2

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

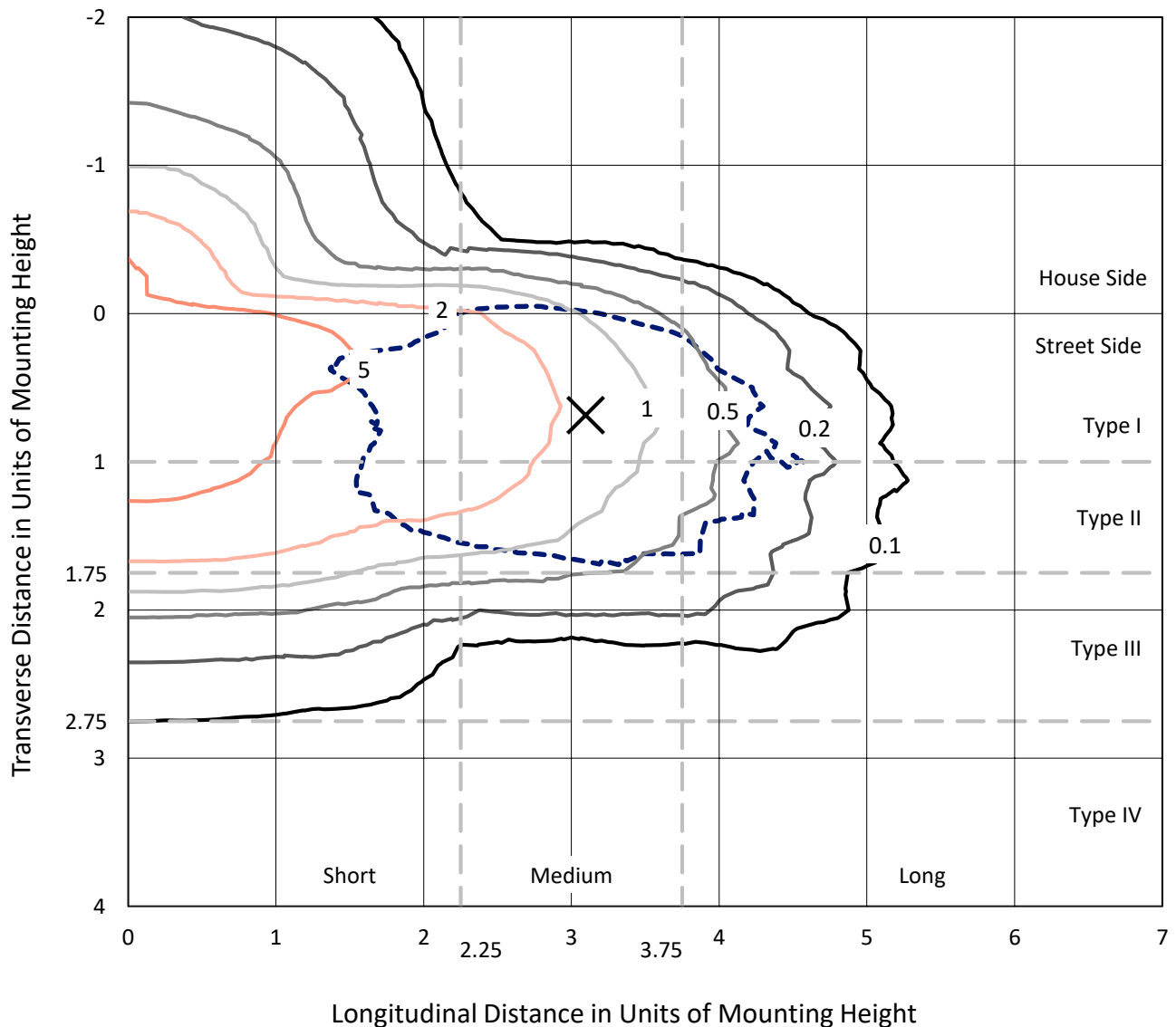


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

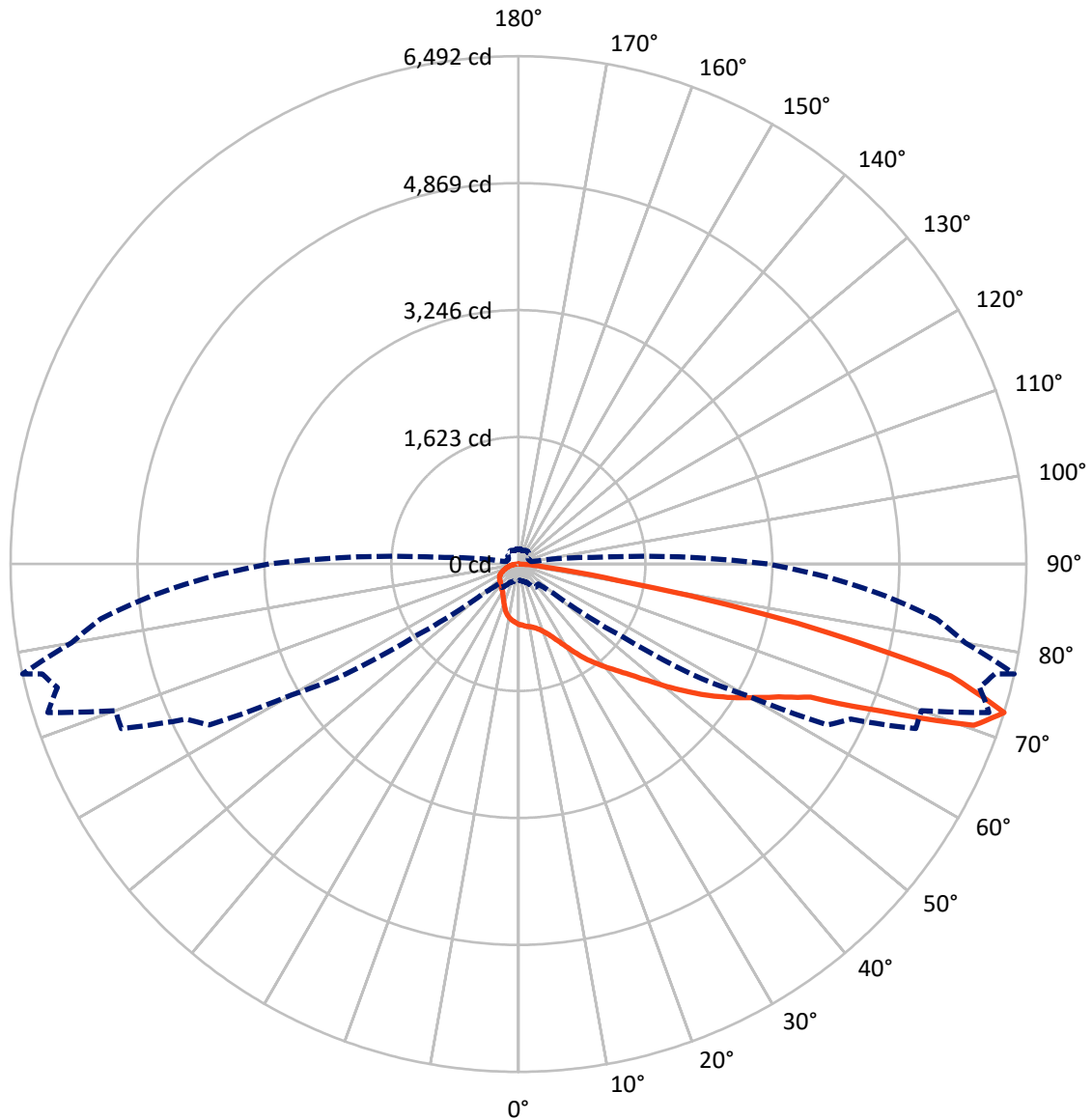


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - Non-Cutoff

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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
<b>House Side</b>	Lumens	959.9	0.0	959.9
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	4833.1	0.0	4833.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	5793.0	0.0	5793.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	1.2
10°-20°	220.3	3.8
20°-30°	391.1	6.8
30°-40°	619.6	10.7
40°-50°	929.5	16.0
50°-60°	1204.5	20.8
60°-70°	1368.6	23.6
70°-80°	908.2	15.7
80°-90°	79.4	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°	5793.0	100.0
0°-180°	5793.0	100.0



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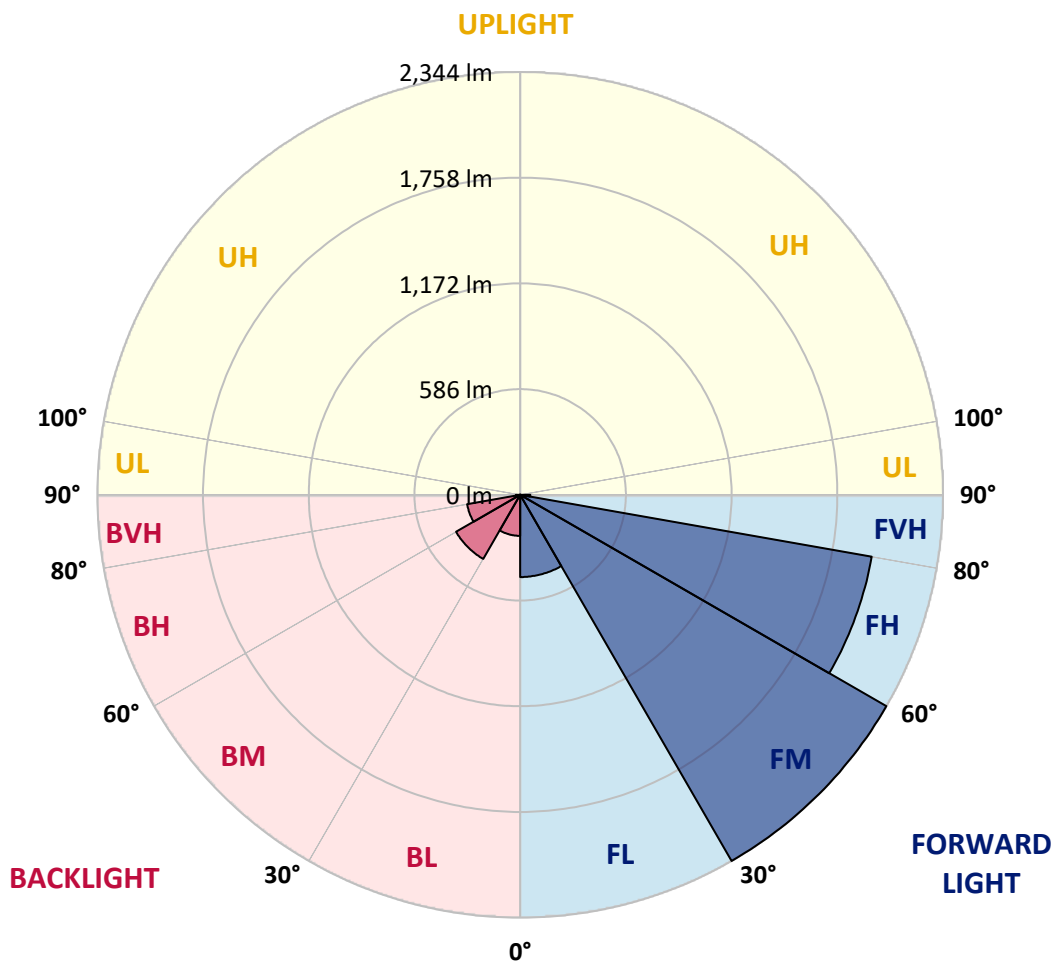
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.7	7.9			
FM (30°-60°)	2343.5	40.5			
FH (60°-80°)	1978.3	34.2			G2/5000
FVH (80°-90°)	55.5	1.0			G1/100
BL (0°-30°)	227.4	3.9	B1/500		
BM (30°-60°)	410.0	7.1	B1/1000		
BH (60°-80°)	298.5	5.2	B1/500		G1/500
BVH (80°-90°)	23.9	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5
2.5°	837.9	834.0	832.1	828.2	824.3	822.2	816.4	812.5	818.4	816.4	816.4
5°	900.4	896.5	890.7	884.8	877.0	871.1	865.3	859.4	863.3	859.4	855.5
7.5°	951.2	947.3	939.5	933.6	925.8	918.0	910.2	908.3	904.3	898.5	896.5
10°	980.5	976.6	972.7	968.7	957.1	951.2	941.4	935.6	937.5	929.8	929.8
12.5°	1007.8	1003.9	1002.0	1002.0	992.3	986.3	982.4	976.6	980.5	968.7	964.8
15°	1033.3	1029.3	1023.5	1029.3	1027.3	1025.4	1023.5	1021.5	1027.3	1015.7	1017.6
17.5°	1074.3	1072.3	1060.6	1052.7	1054.8	1060.6	1064.5	1062.5	1062.5	1056.7	1058.7
20°	1138.7	1138.7	1123.1	1109.4	1087.9	1087.9	1089.9	1087.9	1091.8	1095.8	1101.6
22.5°	1187.5	1183.7	1177.7	1166.1	1142.6	1123.1	1123.1	1115.2	1121.2	1123.1	1134.8
25°	1250.0	1246.2	1232.5	1232.5	1209.0	1183.7	1179.8	1168.0	1181.7	1156.2	1175.8
27.5°	1326.3	1322.3	1304.8	1296.9	1285.2	1253.9	1246.2	1248.1	1261.8	1224.7	1244.2
30°	1421.9	1418.0	1396.5	1375.1	1355.5	1322.3	1318.4	1316.4	1347.7	1304.8	1330.1
32.5°	1543.0	1543.0	1519.6	1490.2	1451.3	1406.3	1390.7	1392.6	1435.6	1388.8	1431.7
35°	1726.6	1703.2	1660.2	1615.2	1574.3	1521.5	1500.1	1496.2	1535.2	1488.3	1537.2
37.5°	1843.8	1828.2	1789.1	1755.9	1711.0	1660.2	1644.6	1650.4	1683.7	1615.2	1685.6
40°	1949.3	1947.3	1921.9	1900.4	1855.5	1804.8	1824.3	1902.4	1990.3	1857.5	1859.4
42.5°	2019.6	2023.5	2021.6	2023.5	1998.1	1945.3	1978.6	2087.9	2238.3	2160.3	2087.9
45°	2031.3	2045.0	2050.8	2089.9	2115.3	2084.1	2101.7	2216.8	2517.7	2638.8	2312.6
47.5°	2060.6	2074.2	2062.6	2109.4	2226.7	2224.7	2295.0	2338.0	2379.0	2398.5	2644.6
50°	2099.7	2125.1	2113.3	2152.4	2248.1	2302.8	2363.3	2418.1	2384.8	2261.7	2328.2
52.5°	2101.7	2130.9	2195.4	2234.4	2328.2	2316.5	2357.5	2328.2	2379.0	2252.0	2316.5
55°	1929.8	1935.6	2123.1	2320.4	2484.4	2451.3	2425.8	2359.4	2423.9	2265.7	2347.8
57.5°	1658.3	1677.7	1873.1	2205.2	2556.8	2586.0	2578.2	2572.3	2623.2	2412.2	2502.0
60°	1359.4	1382.8	1568.4	1959.1	2406.3	2482.5	2588.0	2652.4	2783.3	2699.3	2847.8
62.5°	847.7	865.3	1070.3	1558.7	2123.1	2273.5	2427.8	2504.0	2693.4	2732.5	2984.5
65°	404.3	410.2	490.3	847.7	1543.0	1826.3	2054.8	2216.8	2449.3	2625.1	2964.9
67.5°	314.5	316.4	345.8	451.2	791.0	980.5	1240.2	1455.1	1703.2	2183.7	2605.6
70°	252.0	252.0	275.4	332.0	490.3	515.7	582.1	654.3	759.7	1146.5	1488.3
72.5°	210.9	210.9	226.6	261.8	363.2	369.2	365.3	359.4	359.4	453.2	578.2
75°	177.8	175.7	185.6	209.0	269.5	277.3	273.4	259.7	244.2	244.2	275.4
77.5°	144.5	144.5	152.3	164.1	195.3	199.3	199.3	187.5	173.8	175.7	189.5
80°	113.2	113.2	119.2	126.9	136.8	134.7	134.7	123.1	113.2	111.3	119.2
82.5°	82.0	84.0	97.7	91.8	87.9	82.0	82.0	80.1	72.2	66.4	70.3
85°	25.4	27.3	46.9	54.7	44.9	37.1	35.2	29.3	31.2	25.4	29.3
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5
2.5°	806.7	810.6	802.8	802.8	793.0	798.8	789.1	791.0	781.2	785.2	785.2
5°	845.8	847.7	837.9	834.0	824.3	824.3	814.5	814.5	800.8	804.8	800.8
7.5°	882.8	882.8	873.1	865.3	855.5	851.6	839.8	834.0	822.2	820.3	814.5
10°	914.1	914.1	900.4	892.6	880.9	875.0	859.4	853.6	839.8	830.1	824.3
12.5°	953.2	949.3	933.6	925.8	906.2	904.3	880.9	877.0	857.4	851.6	841.8
15°	1000.0	1003.9	978.6	976.6	949.3	947.3	916.1	914.1	884.8	882.8	869.2
17.5°	1050.8	1058.7	1037.2	1035.2	1002.0	1002.0	964.8	962.9	923.8	921.9	904.3
20°	1095.8	1105.5	1091.8	1095.8	1066.4	1068.4	1027.3	1027.3	972.7	968.7	953.2
22.5°	1136.8	1156.2	1144.6	1166.1	1136.8	1150.4	1095.8	1105.5	1041.1	1033.3	1009.8
25°	1177.7	1203.2	1199.3	1234.4	1212.9	1236.3	1179.8	1199.3	1115.2	1121.2	1089.9
27.5°	1218.7	1252.0	1248.1	1298.8	1291.1	1337.9	1289.1	1310.6	1218.7	1224.7	1189.5
30°	1287.2	1324.3	1310.6	1363.3	1363.3	1439.5	1402.4	1435.6	1334.0	1345.8	1304.8
32.5°	1378.9	1421.9	1380.9	1449.3	1445.3	1545.0	1515.7	1572.3	1472.7	1488.3	1437.6
35°	1478.6	1546.9	1480.5	1556.7	1545.0	1648.5	1628.9	1720.8	1615.2	1632.8	1582.1
37.5°	1609.4	1691.4	1603.6	1670.0	1617.3	1736.4	1724.7	1849.7	1742.3	1787.2	1726.6
40°	1763.8	1828.2	1718.8	1775.4	1687.6	1810.6	1791.1	1962.9	1863.3	1935.6	1880.9
42.5°	1906.3	1951.3	1806.7	1877.0	1771.5	1896.6	1861.4	2068.4	1982.5	2093.8	2033.3
45°	2035.3	2086.0	1894.6	1972.8	1855.5	1992.3	1931.7	2170.0	2111.4	2279.3	2218.8
47.5°	2218.8	2144.6	1974.7	2076.3	1945.3	2095.8	2015.7	2289.2	2267.7	2505.9	2435.6
50°	2158.3	2207.1	2041.1	2146.6	2027.4	2211.0	2123.1	2431.8	2437.6	2752.0	2711.0
52.5°	2164.2	2246.2	2091.8	2238.3	2123.1	2371.2	2279.3	2603.6	2630.9	2990.3	2933.7
55°	2199.2	2320.4	2168.0	2365.3	2257.9	2548.9	2484.4	2789.2	2836.0	3214.9	3181.8
57.5°	2287.2	2455.2	2298.9	2556.8	2445.4	2752.0	2693.4	2980.6	3045.0	3439.6	3429.9
60°	2625.1	2824.3	2550.8	2836.0	2687.6	2982.5	2904.4	3181.8	3246.2	3654.4	3679.9
62.5°	3002.1	3347.8	3185.7	3482.5	3089.9	3388.8	3158.3	3429.9	3433.7	3884.9	3965.0
65°	3099.7	3631.0	3769.7	4322.4	4117.3	4424.0	3808.8	3990.3	3756.0	4304.8	4420.1
67.5°	3062.6	3713.0	4097.8	4720.8	4953.3	5488.4	5384.9	5322.4	4779.4	5174.0	5312.7
70°	2248.1	2937.6	3879.0	4511.8	5181.9	5533.3	6090.0	6146.7	6123.3	6068.6	6160.3
72.5°	1023.5	1605.5	2625.1	3347.8	4453.3	4689.6	5496.3	5480.7	6308.8	6103.7	6248.3
75°	402.3	619.2	1250.0	1869.2	3080.2	3371.2	4285.3	4058.8	5091.9	4791.2	5099.8
77.5°	220.8	277.3	468.7	802.8	1681.7	1836.0	2623.2	2244.3	3158.3	2636.8	2740.3
80°	132.8	166.0	214.8	304.7	714.8	755.9	1119.2	902.3	1291.1	980.5	951.2
82.5°	72.2	89.8	107.4	150.4	265.7	294.9	386.8	347.7	414.1	353.5	345.8
85°	29.3	39.1	41.0	60.6	87.9	101.6	123.1	132.8	162.1	148.4	144.5
87.5°	0.0	1.9	0.0	3.9	0.0	3.9	0.0	5.8	5.8	9.7	11.8
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°	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5
2.5°	779.3	785.2	777.3	777.3	767.6	773.5	767.6	761.8	752.0	753.9	740.3
5°	793.0	796.9	787.2	783.3	777.3	775.4	763.7	752.0	738.3	738.3	722.7
7.5°	806.7	806.7	793.0	793.0	779.3	775.4	757.8	738.3	718.7	716.8	693.4
10°	814.5	812.5	794.9	794.9	775.4	773.5	752.0	722.7	695.3	687.5	654.3
12.5°	830.1	828.2	806.7	802.8	777.3	777.3	746.1	707.1	668.0	654.3	607.4
15°	849.7	851.6	826.2	820.3	791.0	789.1	746.1	687.5	634.7	613.3	556.7
17.5°	880.9	882.8	847.7	841.8	806.7	800.8	748.1	664.1	589.8	566.4	515.7
20°	921.9	916.1	869.2	867.3	820.3	814.5	746.1	628.9	544.9	521.5	476.6
22.5°	972.7	966.8	906.2	900.4	845.8	836.0	744.2	591.8	503.9	478.5	449.3
25°	1043.0	1035.2	961.0	953.2	884.8	869.2	742.3	552.8	468.7	449.3	431.7
27.5°	1130.9	1115.2	1025.4	1017.6	925.8	906.2	734.4	507.8	433.6	419.9	412.1
30°	1236.3	1222.7	1107.4	1095.8	980.5	955.1	726.6	466.8	408.3	402.3	396.5
32.5°	1361.3	1347.7	1207.1	1193.4	1050.8	1013.7	712.9	433.6	392.6	392.6	384.7
35°	1492.3	1480.5	1314.5	1304.8	1128.9	1080.1	695.3	404.3	378.9	378.9	371.1
37.5°	1609.4	1619.2	1431.7	1423.8	1207.1	1146.5	675.8	384.7	367.2	363.2	355.5
40°	1736.4	1759.8	1541.1	1546.9	1289.1	1216.8	652.3	369.2	353.5	349.6	347.7
42.5°	1865.2	1910.3	1656.3	1677.7	1371.2	1289.1	634.7	359.4	347.7	339.8	337.9
45°	2025.4	2089.9	1798.9	1839.9	1466.8	1377.0	628.9	347.7	330.1	320.3	314.5
47.5°	2224.7	2310.6	1974.7	2021.6	1593.8	1482.5	640.7	343.7	318.3	306.7	294.9
50°	2461.0	2543.1	2183.7	2203.2	1736.4	1597.7	666.0	349.6	314.5	296.9	279.3
52.5°	2711.0	2773.5	2404.3	2382.9	1884.8	1711.0	695.3	351.6	304.7	287.1	265.7
55°	2968.8	3004.0	2609.4	2552.8	2019.6	1824.3	734.4	349.6	296.9	277.3	250.0
57.5°	3220.8	3232.5	2791.1	2736.4	2152.4	1959.1	783.3	343.7	285.2	265.7	236.3
60°	3466.9	3486.4	2992.3	2941.5	2296.9	2132.9	853.6	334.0	269.5	255.8	224.6
62.5°	3736.4	3800.9	3232.5	3240.3	2496.2	2404.3	986.3	322.2	253.9	238.2	207.0
65°	4103.7	4349.8	3629.0	3812.6	2879.0	2916.1	1240.2	289.1	232.4	212.9	191.4
67.5°	5023.6	5293.2	4591.9	4666.2	3775.5	3554.9	1400.4	246.1	205.1	191.4	177.8
70°	6176.0	5982.6	5484.6	5035.4	4299.0	3654.4	1232.5	207.0	181.7	173.8	166.0
72.5°	6492.4	5799.0	5388.8	4715.0	3974.8	3187.6	943.4	177.8	162.1	158.3	152.3
75°	5705.3	4701.4	4724.8	3746.3	3295.0	2429.8	644.6	152.3	140.7	138.7	136.8
77.5°	3648.6	2416.1	2941.5	1851.6	1902.4	1125.0	314.5	126.9	121.1	121.1	117.2
80°	1296.9	804.8	910.2	584.0	531.2	357.4	169.9	101.6	97.7	99.6	97.7
82.5°	388.7	308.6	302.8	236.3	183.6	150.4	93.7	78.2	74.3	76.2	72.2
85°	156.2	121.1	101.6	78.2	64.4	58.6	50.7	52.8	46.9	50.7	44.9
87.5°	9.7	7.8	5.8	7.8	0.0	3.9	9.7	7.8	1.9	7.8	5.8
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°	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5
2.5°	750.0	736.3	742.3	736.3	740.3	728.5	732.4	722.7	722.7	720.8	711.0
5°	724.7	711.0	709.0	695.3	697.2	681.7	679.8	662.2	662.2	646.5	617.2
7.5°	689.5	668.0	666.0	638.7	636.8	615.3	607.4	587.9	585.9	568.4	550.8
10°	644.6	611.3	605.5	570.3	572.2	548.8	546.9	533.3	533.3	525.4	525.4
12.5°	593.7	556.7	552.8	525.4	527.3	511.8	513.7	505.8	509.7	513.7	527.3
15°	546.9	517.6	513.7	496.1	498.1	494.2	500.0	500.0	505.8	515.7	539.1
17.5°	507.8	482.4	484.4	476.6	484.4	482.4	494.2	492.2	503.9	515.7	544.9
20°	472.7	459.0	464.8	462.9	472.7	472.7	482.4	484.4	494.2	509.7	543.0
22.5°	449.3	445.3	451.2	451.2	459.0	460.9	470.8	476.6	482.4	498.1	527.3
25°	435.6	433.6	439.5	441.4	447.2	449.3	459.0	459.0	468.7	478.5	494.2
27.5°	416.0	412.1	419.9	419.9	427.8	425.8	437.5	433.6	443.3	447.2	451.2
30°	402.3	396.5	402.3	400.4	406.2	400.4	406.2	400.4	406.2	406.2	400.4
32.5°	388.7	382.8	384.7	377.0	382.8	375.0	377.0	369.2	373.1	369.2	371.1
35°	375.0	367.2	367.2	357.4	357.4	347.7	351.6	343.7	351.6	357.4	355.5
37.5°	355.5	349.6	349.6	341.8	345.8	341.8	349.6	345.8	347.7	339.8	326.2
40°	343.7	347.7	345.8	351.6	347.7	341.8	335.9	324.3	322.2	318.3	310.6
42.5°	326.2	330.1	320.3	328.2	322.2	324.3	320.3	314.5	310.6	306.7	298.8
45°	300.7	300.7	293.0	304.7	298.8	310.6	306.7	306.7	302.8	296.9	291.0
47.5°	279.3	281.2	273.4	283.3	279.3	294.9	293.0	298.8	298.8	294.9	279.3
50°	265.7	261.8	255.8	265.7	263.7	277.3	279.3	291.0	289.1	291.0	277.3
52.5°	253.9	246.1	240.3	246.1	246.1	257.8	261.8	275.4	277.3	281.2	273.4
55°	240.3	230.5	226.6	230.5	230.5	242.2	248.1	257.8	263.7	275.4	271.5
57.5°	228.5	214.8	210.9	214.8	216.8	228.5	234.4	244.2	252.0	267.6	265.7
60°	214.8	203.2	199.3	205.1	207.0	218.7	224.6	234.4	240.3	257.8	257.8
62.5°	199.3	189.5	189.5	191.4	195.3	207.0	210.9	224.6	226.6	248.1	250.0
65°	185.6	179.7	179.7	181.7	185.6	195.3	197.2	210.9	212.9	234.4	240.3
67.5°	173.8	169.9	169.9	171.9	173.8	181.7	183.6	197.2	201.2	220.8	230.5
70°	162.1	158.3	156.2	156.2	162.1	168.0	171.9	185.6	187.5	205.1	216.8
72.5°	148.4	144.5	144.5	142.6	148.4	152.3	160.2	168.0	171.9	189.5	197.2
75°	134.7	130.8	130.8	128.9	132.8	140.7	142.6	150.4	152.3	168.0	175.7
77.5°	117.2	113.2	113.2	113.2	117.2	119.2	121.1	128.9	132.8	146.5	154.3
80°	97.7	93.7	95.7	93.7	99.6	91.8	97.7	105.5	109.4	117.2	113.2
82.5°	74.3	68.3	70.3	70.3	72.2	66.4	70.3	74.3	78.2	84.0	82.0
85°	46.9	41.0	44.9	41.0	44.9	39.1	43.0	43.0	46.9	43.0	41.0
87.5°	9.7	3.9	9.7	3.9	11.8	0.0	5.8	0.0	3.9	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°	773.5	773.5	773.5	773.5
2.5°	701.2	693.4	689.5	687.5
5°	601.6	587.9	584.0	580.1
7.5°	541.0	537.2	537.2	535.2
10°	529.3	535.2	537.2	537.2
12.5°	543.0	552.8	560.6	560.6
15°	560.6	578.2	587.9	587.9
17.5°	574.3	597.7	607.4	609.4
20°	576.2	599.7	613.3	615.3
22.5°	558.6	574.3	584.0	584.0
25°	513.7	521.5	527.3	527.3
27.5°	457.1	455.1	453.2	460.9
30°	398.4	394.6	386.8	394.6
32.5°	377.0	363.2	343.7	349.6
35°	343.7	339.8	330.1	332.0
37.5°	332.0	365.3	363.2	365.3
40°	318.3	359.4	357.4	361.3
42.5°	306.7	330.1	306.7	308.6
45°	285.2	294.9	275.4	275.4
47.5°	275.4	271.5	263.7	261.8
50°	267.6	267.6	263.7	259.7
52.5°	261.8	257.8	271.5	269.5
55°	253.9	250.0	259.7	259.7
57.5°	248.1	238.2	253.9	253.9
60°	242.2	232.4	248.1	248.1
62.5°	238.2	226.6	246.1	244.2
65°	232.4	220.8	246.1	242.2
67.5°	224.6	209.0	242.2	236.3
70°	209.0	195.3	228.5	212.9
72.5°	193.3	177.8	195.3	181.7
75°	169.9	156.2	158.3	156.2
77.5°	142.6	126.9	123.1	125.0
80°	107.4	97.7	93.7	93.7
82.5°	78.2	66.4	68.3	56.7
85°	35.2	25.4	19.5	19.5
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)