

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: P227984

Luminaire Tested: **ISS-AF-1000-LED-E1-T4W-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227984  
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-1000-LED-E1-T4W-7030  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5119 lumens  
Efficiency: N/A  
Efficacy: 93.8 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 - 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

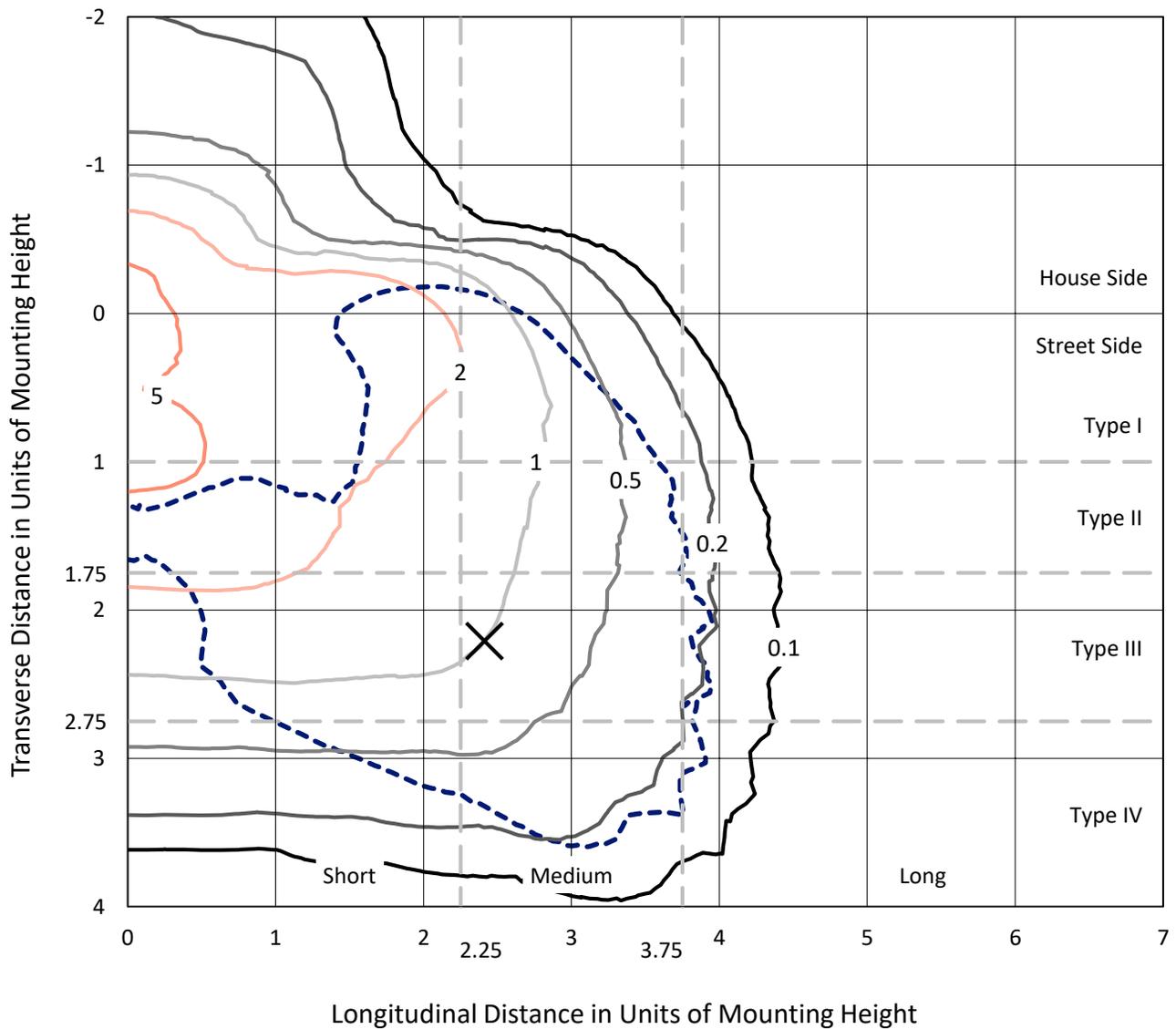


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### Iso-Footcandle Lines of Horizontal Illumination

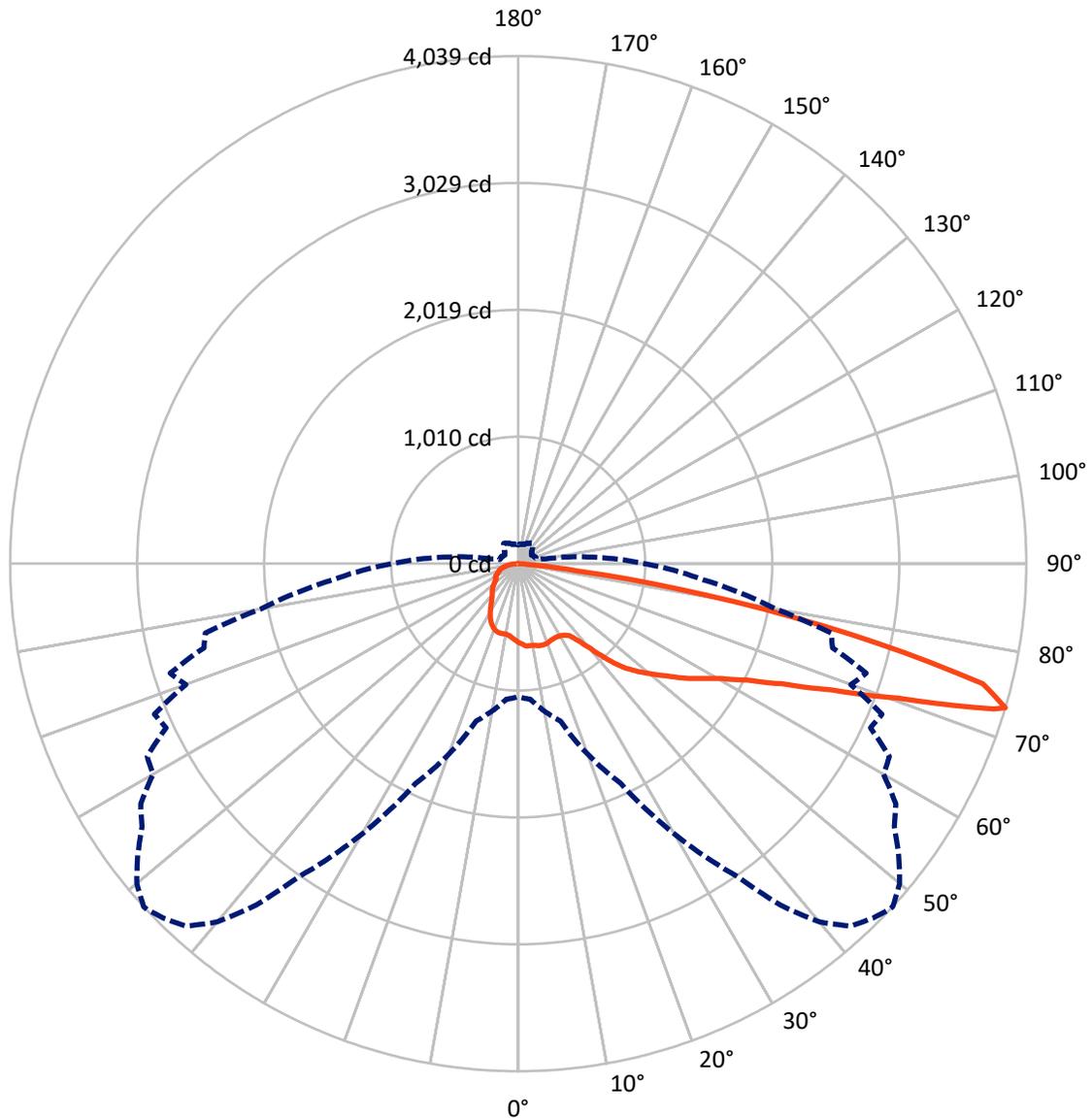
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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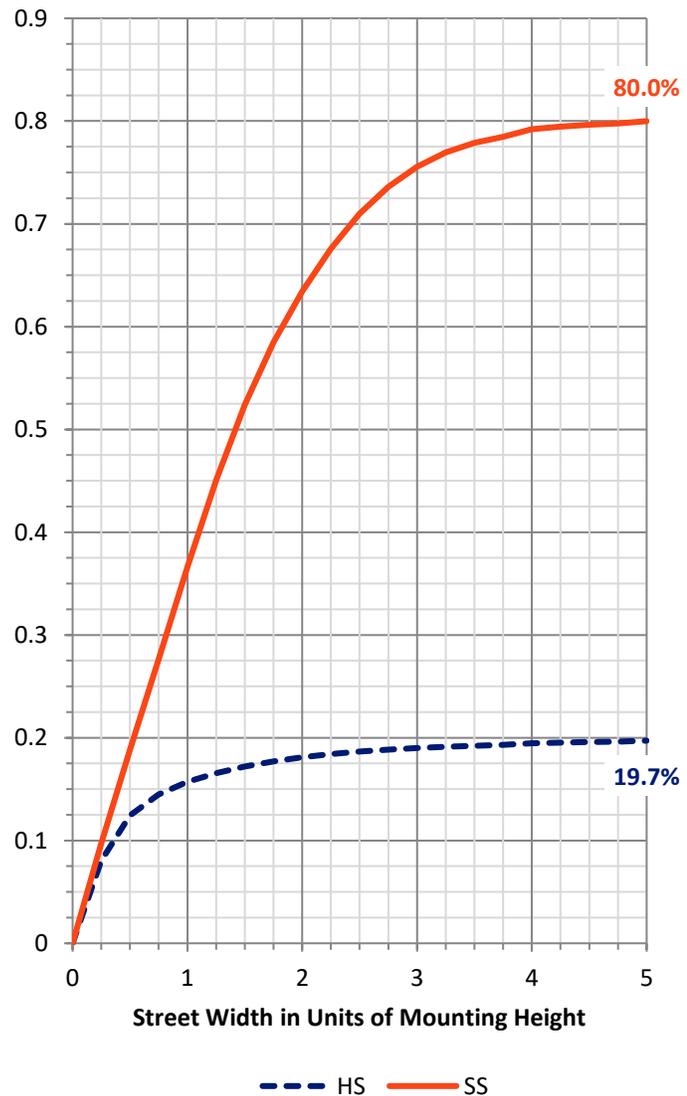
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1022.7	0.0	1022.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	4096.3	0.0	4096.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	5119.0	0.0	5119.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	1.2
10°-20°	178.1	3.5
20°-30°	273.8	5.3
30°-40°	399.4	7.8
40°-50°	658.6	12.9
50°-60°	1031.1	20.1
60°-70°	1398.7	27.3
70°-80°	1035.8	20.2
80°-90°	83.7	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°	5119.0	100.0
0°-180°	5119.0	100.0



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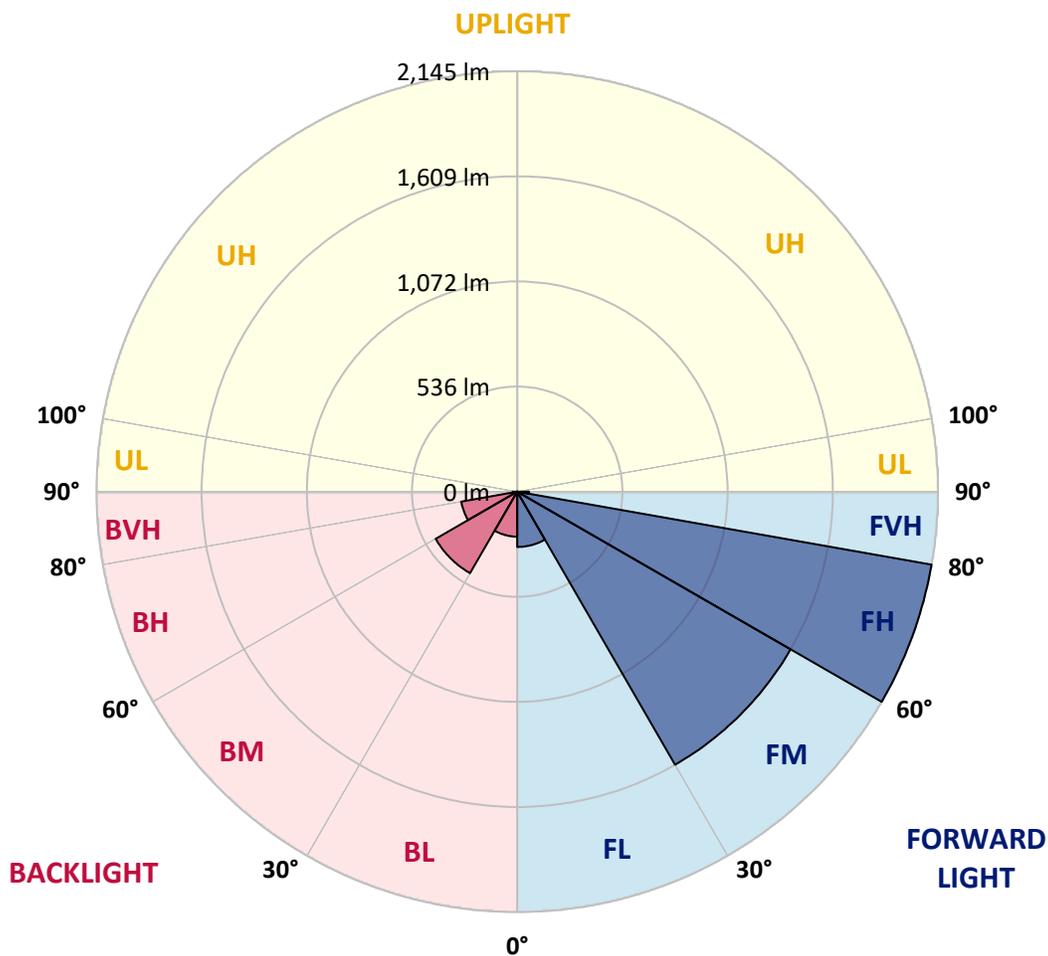
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.2	5.5			
FM	(30°-60°)	1608.8	31.4			
FH	(60°-80°)	2144.9	41.9			G2/5000
FVH	(80°-90°)	60.4	1.2			G1/100
BL	(0°-30°)	229.6	4.5	B1/500		
BM	(30°-60°)	480.2	9.4	B1/1000		
BH	(60°-80°)	289.6	5.7	B1/500		G1/500
BVH	(80°-90°)	23.3	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°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	665.8	664.1	659.0	657.3	652.3	648.9	647.2	645.5	650.6	647.2	642.1
5°	708.0	704.7	697.9	687.8	677.6	670.9	669.2	665.8	665.8	662.4	659.0
7.5°	738.5	736.8	726.6	711.4	694.5	682.7	675.9	670.9	672.5	669.2	659.0
10°	767.2	763.8	746.9	728.3	703.0	689.4	681.0	672.5	679.3	674.2	660.7
12.5°	789.1	785.8	762.1	738.5	709.7	694.5	686.1	681.0	687.8	684.4	669.2
15°	801.0	797.6	773.9	745.2	714.8	697.9	694.5	691.1	696.2	689.4	675.9
17.5°	794.2	794.2	772.2	741.8	716.5	699.6	694.5	691.1	697.9	691.1	675.9
20°	768.9	772.2	757.0	724.9	706.3	694.5	689.4	682.7	689.4	682.7	672.5
22.5°	736.8	740.1	731.7	703.0	689.4	681.0	679.3	672.5	677.6	672.5	662.4
25°	708.0	708.0	704.7	679.3	677.6	670.9	672.5	669.2	672.5	665.8	659.0
27.5°	709.7	709.7	696.2	670.9	669.2	669.2	669.2	669.2	670.9	665.8	659.0
30°	809.4	812.8	773.9	703.0	677.6	674.2	675.9	674.2	675.9	674.2	665.8
32.5°	959.8	959.8	922.6	812.8	723.2	701.3	692.8	691.1	686.1	684.4	677.6
35°	1108.5	1106.8	1069.7	948.0	834.8	792.5	765.5	740.1	728.3	716.5	704.7
37.5°	1233.6	1228.5	1223.4	1084.9	966.6	917.6	885.5	848.3	824.6	804.4	777.3
40°	1350.2	1358.6	1377.2	1211.6	1098.4	1052.8	1020.7	973.3	949.7	924.3	892.2
42.5°	1510.7	1522.5	1524.2	1348.5	1218.4	1187.9	1162.6	1127.1	1101.8	1071.3	1042.6
45°	1666.2	1667.9	1672.9	1495.5	1365.4	1326.5	1307.9	1274.1	1242.0	1203.2	1179.5
47.5°	1772.6	1767.6	1789.5	1664.5	1537.7	1493.8	1466.8	1416.1	1367.1	1318.1	1282.6
50°	1902.7	1897.7	1897.7	1857.1	1737.1	1686.4	1639.1	1544.5	1492.1	1431.3	1380.6
52.5°	2017.6	1999.1	2010.9	2034.5	1946.7	1882.5	1799.7	1693.2	1623.9	1549.6	1485.4
55°	2174.8	2078.5	2105.5	2188.3	2154.5	2054.8	1945.0	1831.8	1752.3	1667.9	1608.7
57.5°	2120.7	2054.8	2134.2	2279.6	2277.9	2184.9	2092.0	1953.4	1874.0	1794.6	1721.9
60°	1926.4	1960.2	2132.6	2342.1	2350.5	2277.9	2201.8	2073.4	2010.9	1928.1	1855.4
62.5°	1776.0	1825.0	2061.6	2337.0	2433.3	2365.8	2303.2	2227.2	2183.3	2114.0	2039.6
65°	1767.6	1796.3	2026.1	2332.0	2549.9	2514.5	2485.7	2450.2	2441.8	2391.1	2304.9
67.5°	1848.7	1875.7	2086.9	2462.1	2722.3	2707.1	2749.3	2742.6	2779.8	2754.4	2683.4
70°	1689.8	1705.0	1965.3	2507.7	3116.0	3183.6	3278.3	3273.2	3352.6	3291.8	3209.0
72.5°	1186.3	1216.7	1446.5	2071.7	3124.5	3486.1	3705.8	3891.7	3977.8	3993.1	3954.2
73°	1059.5	1083.2	1296.1	1929.8	3040.0	3425.3	3721.0	3911.9	3988.0	4035.3	4038.7
75°	368.4	380.2	566.1	1169.4	2430.0	2989.3	3369.5	3541.9	3523.3	3661.8	3813.9
77.5°	118.3	120.0	147.0	302.5	1172.7	1855.4	2279.6	2438.4	2347.2	2497.6	2700.3
80°	72.7	76.0	96.3	136.9	307.5	562.7	953.1	1193.0	1144.0	1284.3	1500.6
82.5°	43.9	45.6	59.1	84.5	123.4	136.9	179.1	243.3	299.1	359.9	471.5
85°	20.3	22.0	28.7	38.9	50.7	52.4	50.7	47.3	54.1	62.5	72.7
87.5°	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	0.0	1.7	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°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	647.2	642.1	642.1	635.4	638.8	632.0	635.4	628.6	632.0	623.5	628.6
5°	657.3	648.9	648.9	638.8	640.4	628.6	633.7	620.2	626.9	611.7	621.9
7.5°	662.4	647.2	654.0	635.4	643.8	623.5	633.7	611.7	625.2	601.6	618.5
10°	669.2	647.2	659.0	638.8	648.9	625.2	638.8	611.7	628.6	599.9	615.1
12.5°	679.3	655.7	665.8	642.1	655.7	628.6	642.1	615.1	632.0	599.9	618.5
15°	686.1	662.4	672.5	648.9	659.0	628.6	645.5	613.4	632.0	598.2	618.5
17.5°	684.4	662.4	672.5	645.5	657.3	626.9	643.8	611.7	628.6	593.1	615.1
20°	677.6	659.0	665.8	642.1	652.3	621.9	637.1	605.0	623.5	588.1	610.0
22.5°	669.2	650.6	659.0	637.1	647.2	616.8	630.3	601.6	620.2	584.7	605.0
25°	664.1	648.9	654.0	632.0	645.5	618.5	632.0	599.9	620.2	584.7	608.3
27.5°	662.4	648.9	659.0	638.8	650.6	626.9	640.4	611.7	628.6	591.4	615.1
30°	672.5	660.7	669.2	652.3	662.4	638.8	652.3	625.2	642.1	606.6	633.7
32.5°	684.4	672.5	681.0	665.8	681.0	657.3	674.2	647.2	667.5	632.0	657.3
35°	709.7	696.2	708.0	691.1	708.0	689.4	708.0	679.3	704.7	669.2	696.2
37.5°	775.6	738.5	750.3	731.7	748.6	724.9	757.0	728.3	757.0	723.2	760.4
40°	880.4	814.5	826.3	787.5	812.8	777.3	816.2	794.2	833.1	790.8	838.2
42.5°	1017.3	954.7	942.9	883.8	905.7	863.5	902.4	863.5	915.9	875.3	934.5
45°	1142.3	1076.4	1057.8	1000.4	1015.6	959.8	1008.8	954.7	1024.0	976.7	1051.1
47.5°	1245.4	1167.7	1152.5	1086.6	1113.6	1061.2	1122.0	1064.6	1149.1	1101.8	1187.9
50°	1340.0	1243.7	1240.3	1169.4	1215.0	1162.6	1248.8	1209.9	1292.7	1245.4	1346.8
52.5°	1448.2	1326.5	1343.4	1279.2	1351.9	1307.9	1407.6	1351.9	1460.0	1409.3	1520.8
55°	1563.1	1434.7	1478.6	1439.7	1525.9	1497.2	1581.7	1531.0	1637.4	1586.7	1705.0
57.5°	1689.8	1580.0	1657.7	1639.1	1715.2	1679.7	1774.3	1728.7	1835.1	1792.9	1911.2
60°	1855.4	1782.8	1858.8	1857.1	1923.0	1921.3	1982.2	1955.1	2056.5	2037.9	2146.1
62.5°	2070.0	2012.6	2093.7	2071.7	2151.1	2137.6	2212.0	2212.0	2284.6	2310.0	2418.1
65°	2359.0	2283.0	2379.3	2345.5	2424.9	2428.3	2475.6	2484.0	2571.9	2600.6	2693.6
67.5°	2751.0	2663.2	2739.2	2675.0	2766.2	2761.2	2801.7	2818.6	2830.5	2899.7	2909.9
70°	3315.4	3183.6	3252.9	3165.0	3181.9	3193.8	3117.7	3173.5	3038.3	3148.1	2999.4
72.5°	3925.5	3775.1	3655.1	3567.2	3393.2	3367.8	3146.5	3193.8	2906.5	3001.1	2700.3
73°	3957.6	3812.2	3650.0	3558.8	3352.6	3325.6	3089.0	3129.6	2811.9	2901.4	2585.4
75°	3597.6	3636.5	3246.1	3283.3	2925.1	2967.3	2597.3	2644.6	2254.2	2321.8	1914.6
77.5°	2424.9	2555.0	2117.3	2281.3	1836.8	2000.8	1498.9	1514.1	1105.1	1032.5	701.3
80°	1201.5	1313.0	931.1	1017.3	682.7	670.9	408.9	339.7	289.0	295.7	304.2
82.5°	346.4	390.3	241.6	240.0	170.7	162.2	162.2	172.4	175.7	196.0	190.9
85°	65.9	79.4	69.3	92.9	82.8	91.3	84.5	98.0	91.3	113.2	98.0
87.5°	1.7	0.0	1.7	5.1	5.1	11.8	8.4	13.5	13.5	23.7	22.0
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°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	621.9	630.3	626.9	623.5	620.2	618.5	611.7	615.1	606.6	613.4	606.6
5°	608.3	618.5	613.4	606.6	603.3	599.9	588.1	596.5	583.0	594.8	584.7
7.5°	593.1	610.0	605.0	598.2	591.4	588.1	564.4	583.0	562.7	579.6	562.7
10°	588.1	606.6	599.9	591.4	584.7	581.3	552.6	574.5	552.6	571.2	549.2
12.5°	584.7	606.6	596.5	588.1	581.3	576.2	544.1	571.2	542.4	569.5	544.1
15°	581.3	606.6	593.1	583.0	576.2	571.2	537.4	567.8	535.7	566.1	537.4
17.5°	577.9	601.6	589.7	577.9	571.2	567.8	530.6	562.7	528.9	562.7	534.0
20°	572.8	596.5	583.0	571.2	564.4	559.3	522.2	556.0	520.5	554.3	522.2
22.5°	566.1	591.4	579.6	567.8	561.0	552.6	512.0	547.5	510.3	544.1	513.7
25°	567.8	594.8	579.6	567.8	557.6	549.2	505.3	544.1	501.9	535.7	501.9
27.5°	576.2	599.9	584.7	574.5	561.0	550.9	505.3	540.7	498.5	527.2	491.7
30°	593.1	616.8	603.3	588.1	576.2	562.7	513.7	542.4	498.5	517.1	481.6
32.5°	621.9	643.8	630.3	618.5	605.0	584.7	530.6	550.9	501.9	510.3	473.2
35°	659.0	686.1	679.3	670.9	654.0	618.5	559.3	562.7	508.6	503.6	461.3
37.5°	719.9	757.0	755.4	753.7	735.1	670.9	591.4	586.4	515.4	498.5	446.1
40°	799.3	843.2	855.1	866.9	828.0	733.4	628.6	610.0	518.8	488.4	422.5
42.5°	892.2	951.4	986.9	1008.8	937.9	802.7	670.9	637.1	518.8	473.2	395.4
45°	1007.1	1076.4	1144.0	1167.7	1059.5	877.0	714.8	659.0	512.0	449.5	359.9
47.5°	1147.4	1228.5	1321.4	1333.3	1191.3	956.4	745.2	674.2	490.0	417.4	327.8
50°	1302.9	1400.9	1537.7	1529.3	1331.6	1039.2	765.5	684.4	451.2	380.2	289.0
52.5°	1476.9	1600.3	1794.6	1755.7	1502.3	1142.3	784.1	697.9	403.9	336.3	250.1
55°	1694.9	1841.9	2085.2	2002.4	1691.5	1255.5	811.1	699.6	341.3	283.9	221.4
57.5°	1929.8	2086.9	2397.9	2247.5	1868.9	1343.4	799.3	645.5	278.8	240.0	199.4
60°	2212.0	2402.9	2710.5	2475.6	2017.6	1373.8	716.5	532.3	238.3	216.3	189.3
62.5°	2528.0	2717.2	2967.3	2634.4	2102.1	1323.1	532.3	368.4	204.5	192.6	174.1
65°	2864.2	3043.4	3090.7	2648.0	2046.4	1100.1	329.5	241.6	177.4	172.4	160.5
67.5°	3173.5	3190.4	2974.1	2428.3	1776.0	767.2	224.7	192.6	163.9	162.2	155.5
70°	3252.9	2960.6	2472.2	1890.9	1282.6	456.3	182.5	167.3	157.2	157.2	152.1
72.5°	2717.2	2254.2	1652.6	1145.7	699.6	243.3	155.5	152.1	148.7	148.7	145.3
73°	2548.3	2076.8	1480.3	1000.4	591.4	218.0	152.1	148.7	147.0	145.3	143.6
75°	1693.2	1304.5	839.8	506.9	275.4	157.2	135.2	135.2	133.5	135.2	133.5
77.5°	652.3	491.7	324.4	218.0	157.2	123.4	114.9	116.6	114.9	118.3	116.6
80°	287.3	283.9	214.6	153.8	114.9	92.9	92.9	92.9	94.6	96.3	96.3
82.5°	196.0	165.6	126.7	94.6	69.3	67.6	69.3	69.3	71.0	72.7	71.0
85°	108.1	91.3	67.6	42.2	37.2	45.6	45.6	45.6	43.9	43.9	42.2
87.5°	33.8	25.3	18.6	5.1	8.4	8.4	11.8	10.1	10.1	11.8	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):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	613.4	608.3	613.4	605.0	611.7	605.0	610.0	610.0	608.3	608.3	608.3
5°	593.1	584.7	593.1	588.1	593.1	586.4	591.4	593.1	594.8	599.9	598.2
7.5°	577.9	561.0	579.6	562.7	577.9	562.7	576.2	577.9	583.0	589.7	594.8
10°	571.2	549.2	571.2	550.9	569.5	552.6	569.5	571.2	576.2	584.7	593.1
12.5°	567.8	544.1	567.8	547.5	567.8	550.9	567.8	572.8	576.2	583.0	593.1
15°	564.4	540.7	567.8	545.8	567.8	550.9	569.5	572.8	577.9	584.7	593.1
17.5°	562.7	535.7	564.4	544.1	564.4	547.5	567.8	567.8	574.5	583.0	588.1
20°	556.0	530.6	556.0	535.7	556.0	540.7	557.6	557.6	564.4	567.8	576.2
22.5°	545.8	518.8	542.4	523.8	542.4	527.2	540.7	540.7	545.8	550.9	556.0
25°	530.6	505.3	525.5	508.6	522.2	508.6	518.8	517.1	520.5	523.8	527.2
27.5°	513.7	488.4	505.3	486.7	495.1	481.6	488.4	485.0	486.7	488.4	490.0
30°	495.1	469.8	478.2	461.3	463.0	449.5	452.9	447.8	446.1	444.4	441.0
32.5°	474.8	447.8	447.8	430.9	427.5	415.7	415.7	408.9	403.9	397.1	390.3
35°	449.5	425.8	414.0	400.5	393.7	381.9	380.2	371.8	359.9	348.1	341.3
37.5°	424.1	397.1	380.2	366.7	359.9	351.5	349.8	343.0	329.5	316.0	305.9
40°	390.3	363.3	344.7	339.7	334.6	327.8	329.5	321.1	307.5	292.3	283.9
42.5°	356.6	332.9	317.7	316.0	312.6	310.9	312.6	305.9	290.6	277.1	267.0
45°	327.8	304.2	289.0	287.3	285.6	292.3	294.0	292.3	275.4	261.9	248.4
47.5°	299.1	270.4	260.2	256.9	258.5	268.7	272.1	277.1	261.9	246.7	228.1
50°	265.3	238.3	234.9	231.5	233.2	241.6	250.1	260.2	246.7	224.7	199.4
52.5°	234.9	211.2	212.9	209.5	212.9	219.7	226.4	243.3	226.4	204.5	192.6
55°	211.2	192.6	196.0	192.6	196.0	204.5	209.5	223.1	223.1	218.0	207.8
57.5°	194.3	180.8	184.2	180.8	185.9	192.6	197.7	226.4	243.3	229.8	209.5
60°	184.2	172.4	174.1	170.7	174.1	184.2	194.3	228.1	255.2	228.1	212.9
62.5°	169.0	158.8	157.2	157.2	160.5	177.4	182.5	212.9	251.8	226.4	214.6
65°	158.8	150.4	148.7	147.0	150.4	162.2	167.3	197.7	243.3	214.6	194.3
67.5°	153.8	147.0	143.6	140.3	143.6	153.8	158.8	185.9	229.8	204.5	182.5
70°	148.7	141.9	140.3	136.9	138.6	145.3	152.1	170.7	218.0	192.6	170.7
72.5°	141.9	135.2	133.5	128.4	130.1	136.9	140.3	160.5	202.8	180.8	158.8
73°	140.3	133.5	131.8	126.7	128.4	133.5	136.9	157.2	199.4	179.1	157.2
75°	131.8	125.0	123.4	120.0	121.7	121.7	125.0	143.6	189.3	169.0	147.0
77.5°	116.6	111.5	109.8	106.5	104.8	103.1	108.1	126.7	172.4	152.1	118.3
80°	96.3	91.3	89.6	82.8	82.8	82.8	89.6	108.1	128.4	109.8	91.3
82.5°	71.0	67.6	67.6	62.5	60.8	59.1	64.2	74.4	101.4	86.2	71.0
85°	42.2	40.6	42.2	37.2	38.9	37.2	42.2	52.4	55.8	43.9	33.8
87.5°	10.1	11.8	11.8	11.8	10.1	10.1	8.4	6.8	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°	628.6	628.6
2.5°	606.6	605.0
5°	598.2	598.2
7.5°	594.8	594.8
10°	596.5	596.5
12.5°	596.5	599.9
15°	601.6	599.9
17.5°	596.5	596.5
20°	583.0	586.4
22.5°	564.4	564.4
25°	534.0	535.7
27.5°	493.4	496.8
30°	442.7	446.1
32.5°	385.3	388.7
35°	339.7	341.3
37.5°	309.2	309.2
40°	283.9	283.9
42.5°	260.2	258.5
45°	236.6	233.2
47.5°	212.9	211.2
50°	192.6	192.6
52.5°	196.0	196.0
55°	211.2	211.2
57.5°	212.9	211.2
60°	231.5	229.8
62.5°	241.6	246.7
65°	211.2	204.5
67.5°	201.1	190.9
70°	180.8	165.6
72.5°	160.5	152.1
73°	155.5	148.7
75°	138.6	135.2
77.5°	104.8	103.1
80°	87.9	86.2
82.5°	59.1	55.8
85°	25.3	23.7
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)