

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: P271528

Luminaire Tested: **ISS-AF-800-LED-E1-T3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271528  
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-800-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: 4247.8 lumens  
Efficiency: N/A  
Efficacy: 97.7 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 - G1

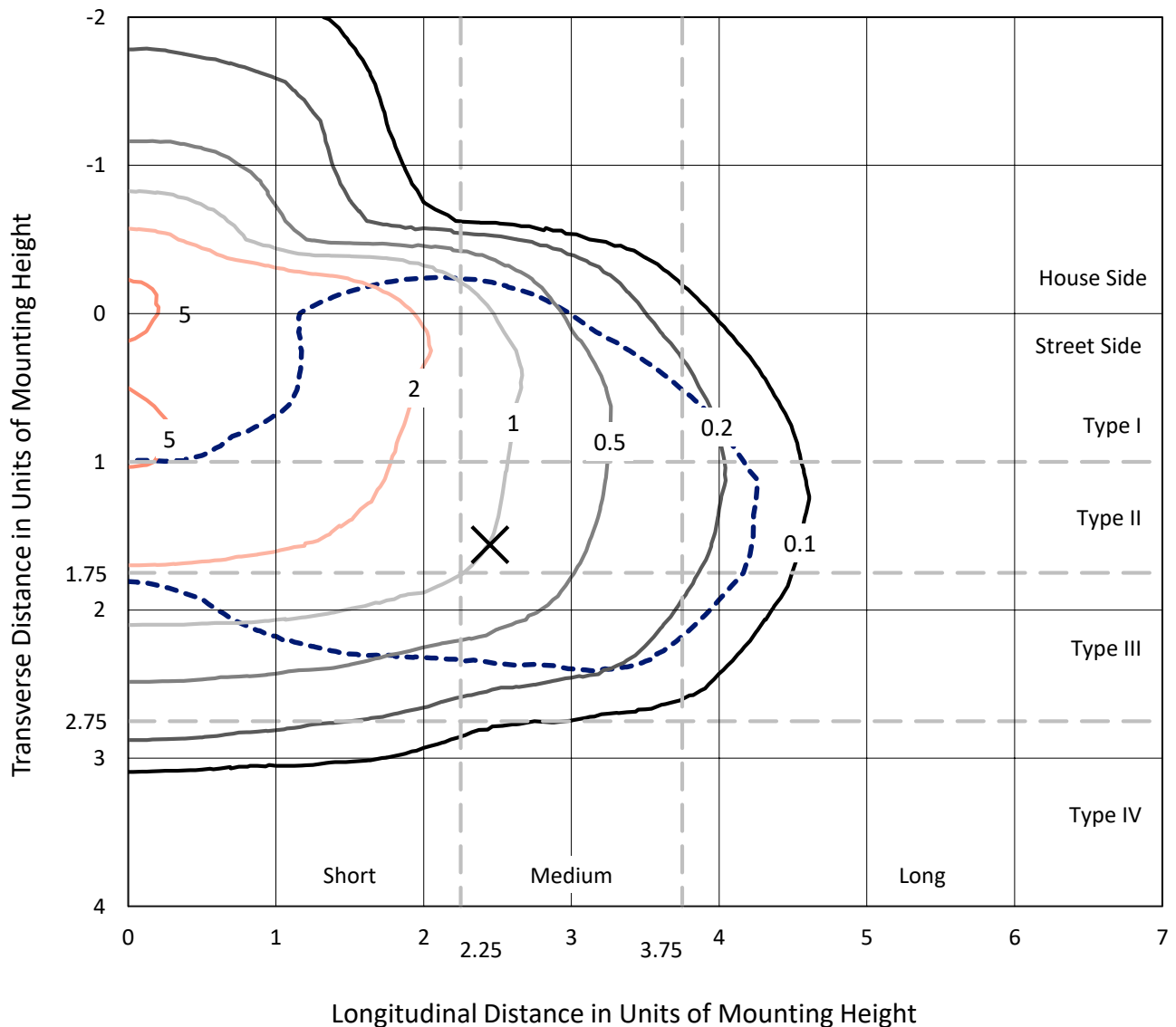
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

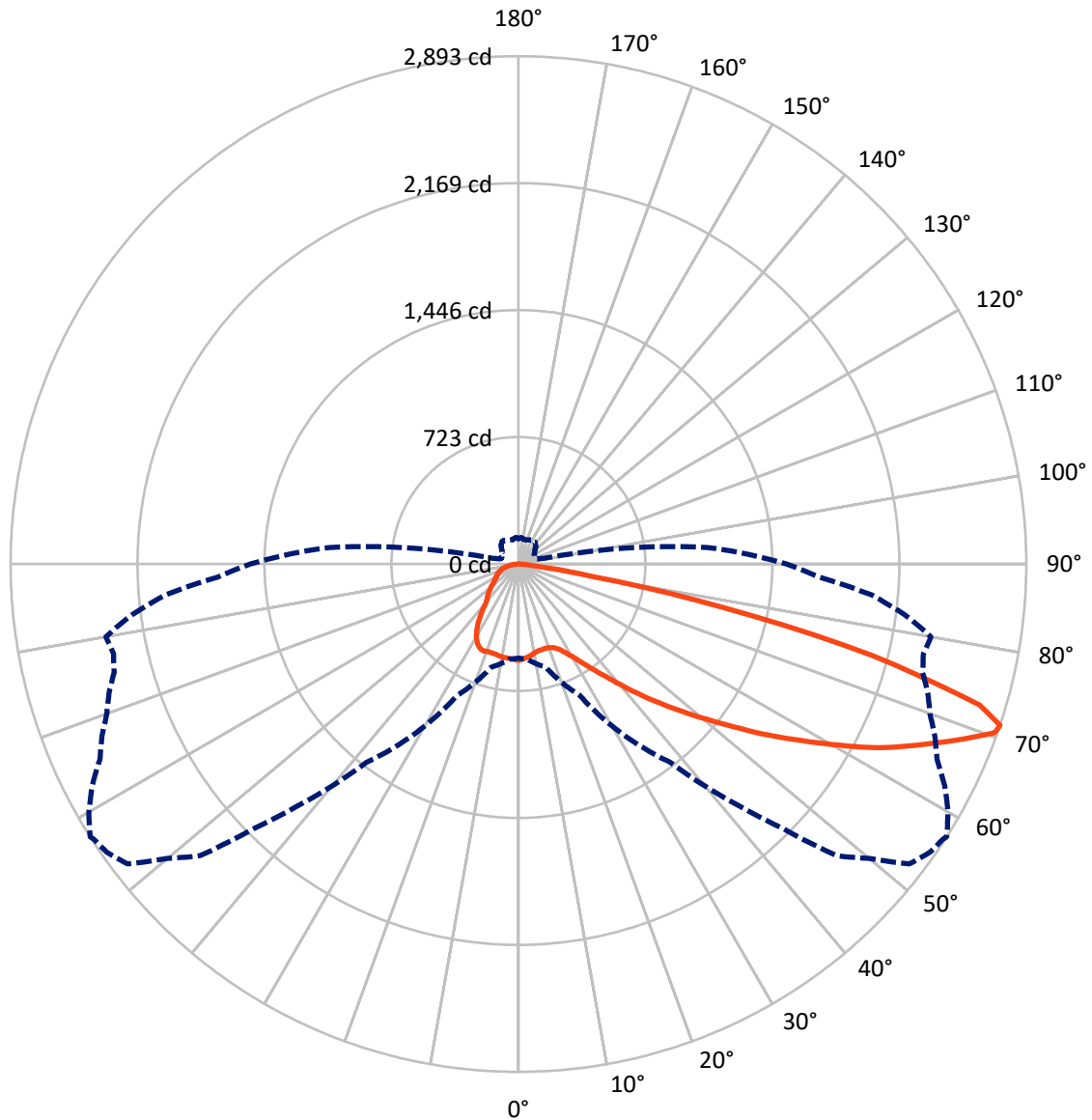
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 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	924.8	0.0	924.8
	% Fixture	21.8	0.0	21.8
<b>Street Side</b>	Lumens	3323.1	0.0	3323.1
	% Fixture	78.2	0.0	78.2
<b>Total</b>	Lumens	4247.8	0.0	4247.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	1.2
10°-20°	148.8	3.5
20°-30°	247.0	5.8
30°-40°	393.3	9.3
40°-50°	638.9	15.0
50°-60°	957.9	22.6
60°-70°	1142.8	26.9
70°-80°	617.2	14.5
80°-90°	50.2	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°	4247.8	100.0
0°-180°	4247.8	100.0



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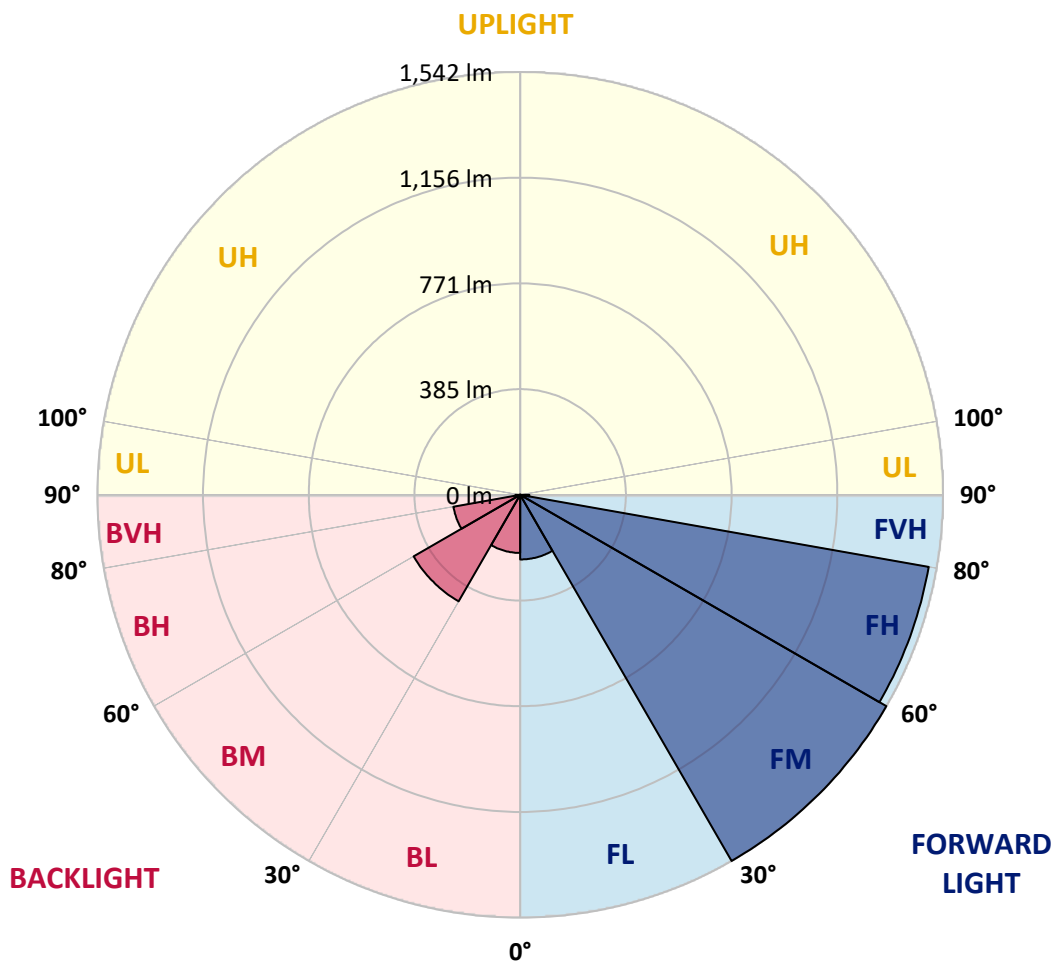
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.7	5.5			
FM	(30°-60°)	1541.7	36.3			
FH	(60°-80°)	1512.6	35.6			G1/1800
FVH	(80°-90°)	33.1	0.8			G1/100
BL	(0°-30°)	211.8	5.0	B1/500		
BM	(30°-60°)	448.4	10.6	B1/1000		
BH	(60°-80°)	247.4	5.8	B1/500		G1/500
BVH	(80°-90°)	17.1	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-G1**

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°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	548.8	547.3	546.0	546.0	546.0	544.6	540.3	541.8	546.0	543.1	547.3
5°	547.3	544.6	543.1	543.1	543.1	538.9	537.5	536.1	544.6	537.5	543.1
7.5°	532.0	532.0	529.1	532.0	534.7	530.4	527.8	529.1	536.1	529.1	536.1
10°	520.7	518.0	516.4	516.4	519.3	513.7	510.9	513.7	522.1	513.7	523.5
12.5°	516.4	518.0	513.7	513.7	512.2	505.3	505.3	505.3	512.2	505.3	513.7
15°	523.5	522.1	518.0	515.1	510.9	505.3	503.9	505.3	510.9	502.4	512.2
17.5°	533.3	533.3	526.2	519.3	515.1	509.5	509.5	506.6	510.9	505.3	512.2
20°	558.6	554.3	544.6	533.3	522.1	519.3	513.7	513.7	516.4	510.9	515.1
22.5°	602.1	597.9	581.0	560.0	541.8	534.7	532.0	530.4	527.8	524.9	524.9
25°	659.6	652.6	632.9	607.7	576.8	571.2	565.7	561.4	551.6	551.6	544.6
27.5°	721.4	714.3	693.3	665.3	627.4	618.9	611.9	606.3	589.5	589.5	576.8
30°	791.6	783.1	757.9	727.0	683.5	680.6	670.9	662.4	640.0	638.5	621.8
32.5°	873.0	861.7	836.5	795.8	749.5	750.8	735.4	729.9	700.3	701.8	679.3
35°	965.6	952.9	927.7	874.4	826.6	830.8	816.8	806.9	770.5	770.5	746.6
37.5°	1063.9	1063.9	1031.5	969.8	912.3	922.1	905.2	895.4	858.9	864.6	826.6
40°	1173.3	1180.4	1145.2	1075.0	1016.2	1020.4	1007.7	996.5	952.9	962.7	922.1
42.5°	1288.3	1301.0	1270.1	1197.2	1131.1	1145.2	1124.2	1113.0	1066.6	1087.7	1040.0
45°	1455.4	1458.2	1400.6	1330.5	1275.8	1288.3	1259.0	1254.8	1197.2	1219.6	1171.9
47.5°	1560.6	1553.7	1511.6	1469.4	1437.2	1462.4	1435.7	1428.8	1362.8	1378.2	1310.9
50°	1632.2	1636.4	1604.1	1599.9	1605.6	1653.3	1649.1	1635.1	1556.4	1545.3	1461.0
52.5°	1696.8	1678.6	1672.9	1712.2	1772.5	1828.7	1851.1	1832.9	1747.3	1716.4	1635.1
55°	1685.6	1658.9	1688.4	1783.9	1903.1	1990.1	1992.9	1980.3	1903.1	1890.4	1802.1
57.5°	1609.9	1615.4	1675.8	1811.9	2014.0	2103.8	2119.2	2103.8	2040.7	2051.9	1978.9
60°	1504.5	1515.8	1611.2	1786.5	2102.4	2179.6	2186.7	2204.9	2162.8	2192.2	2141.6
62.5°	1347.4	1362.8	1484.9	1723.5	2040.7	2155.8	2220.3	2262.4	2253.9	2321.3	2294.7
65°	1237.9	1237.9	1357.2	1650.5	1980.3	2131.9	2228.8	2307.3	2318.5	2425.2	2415.5
67.5°	1034.4	1041.3	1143.8	1447.0	1907.3	2078.6	2224.6	2357.8	2425.2	2593.7	2602.0
70°	715.8	721.4	788.7	1032.9	1541.0	1686.9	1901.7	2119.2	2321.3	2575.4	2707.3
71°	536.1	543.1	609.1	823.8	1305.2	1425.9	1649.1	1875.0	2129.1	2458.9	2607.7
72.5°	262.5	266.7	331.3	529.1	908.1	1062.4	1191.5	1407.6	1677.1	2054.7	2265.2
75°	122.1	123.4	137.5	190.9	346.7	412.6	470.2	609.1	776.1	1107.3	1362.8
77.5°	89.8	89.8	98.3	125.0	179.6	182.4	179.6	183.8	221.7	317.2	477.2
80°	65.9	65.9	71.5	84.2	119.3	119.3	115.2	116.5	112.3	116.5	131.9
82.5°	43.5	43.5	46.4	50.6	73.0	73.0	70.2	70.2	67.4	65.9	71.5
85°	25.2	26.7	28.0	23.9	30.9	29.5	26.7	29.5	28.0	25.2	30.9
87.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	1.3
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):**

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	541.8	546.0	546.0	540.3	544.6	540.3	543.1	538.9	543.1	536.1	544.6
5°	537.5	541.8	541.8	533.3	541.8	533.3	540.3	530.4	540.3	529.1	540.3
7.5°	526.2	536.1	536.1	524.9	534.7	526.2	534.7	524.9	533.3	520.7	534.7
10°	513.7	523.5	524.9	513.7	524.9	515.1	527.8	515.1	527.8	513.7	529.1
12.5°	505.3	516.4	519.3	506.6	520.7	508.0	523.5	509.5	523.5	508.0	526.2
15°	503.9	513.7	516.4	505.3	518.0	503.9	522.1	505.3	523.5	506.6	527.8
17.5°	505.3	513.7	516.4	503.9	516.4	505.3	520.7	506.6	523.5	508.0	527.8
20°	509.5	515.1	515.1	508.0	518.0	508.0	520.7	506.6	524.9	510.9	529.1
22.5°	522.1	523.5	523.5	518.0	523.5	516.4	526.2	516.4	529.1	518.0	534.7
25°	543.1	541.8	538.9	537.5	538.9	534.7	540.3	533.3	546.0	536.1	553.0
27.5°	579.7	574.1	571.2	571.2	569.9	571.2	571.2	568.4	574.1	571.2	582.4
30°	624.5	614.7	610.5	614.7	609.1	614.7	613.4	611.9	617.6	614.7	624.5
32.5°	683.5	666.6	663.8	672.2	661.1	670.9	662.4	666.6	670.9	673.7	679.3
35°	752.3	732.6	729.9	738.2	725.7	739.7	729.9	735.4	738.2	745.2	749.5
37.5°	833.6	809.8	805.6	816.8	800.0	815.4	801.4	818.3	814.0	823.8	828.1
40°	931.9	903.9	894.0	909.4	889.8	902.4	888.4	906.7	902.4	922.1	926.3
42.5°	1052.6	1011.9	1002.1	1017.5	988.0	992.3	980.9	1002.1	999.3	1026.0	1030.2
45°	1177.5	1128.5	1114.3	1129.8	1096.1	1104.6	1087.7	1110.1	1108.8	1129.8	1146.7
47.5°	1316.5	1256.1	1237.9	1254.8	1214.0	1223.9	1207.1	1230.9	1232.3	1256.1	1273.0
50°	1461.0	1397.9	1374.0	1389.5	1351.5	1358.6	1341.7	1371.3	1369.7	1402.1	1414.7
52.5°	1618.2	1553.7	1535.5	1542.4	1497.6	1505.9	1491.8	1528.4	1519.9	1539.7	1564.8
55°	1792.3	1717.9	1696.8	1717.9	1664.5	1675.8	1657.6	1691.1	1677.1	1702.4	1709.5
57.5°	1970.5	1897.5	1880.6	1896.1	1845.6	1854.0	1830.2	1858.2	1846.9	1863.8	1875.0
60°	2160.0	2093.9	2077.2	2093.9	2044.8	2046.2	2005.6	2035.0	2018.2	2039.2	2035.0
62.5°	2341.1	2284.9	2280.7	2304.5	2242.8	2235.7	2186.7	2207.7	2183.8	2197.8	2180.9
65°	2495.4	2463.2	2468.7	2488.3	2433.6	2416.8	2360.7	2371.9	2336.9	2336.9	2315.7
67.5°	2697.5	2662.4	2662.4	2679.3	2610.5	2567.0	2489.7	2480.0	2422.4	2411.2	2362.0
70°	2866.0	2875.7	2864.4	2878.5	2797.1	2708.7	2606.3	2557.1	2481.4	2444.8	2387.3
71°	2805.6	2861.7	2881.3	2892.5	2825.2	2736.8	2630.1	2567.0	2494.0	2444.8	2383.1
72.5°	2531.9	2668.0	2745.2	2745.2	2753.7	2697.5	2595.0	2526.2	2443.5	2378.9	2321.3
75°	1774.1	1995.8	2095.4	2084.2	2157.1	2182.4	2190.9	2161.3	2115.0	2022.4	1981.8
77.5°	790.1	1041.3	1191.5	1192.9	1271.6	1340.3	1395.1	1452.6	1431.6	1386.6	1383.7
80°	179.6	325.5	416.8	421.0	492.6	555.8	593.7	651.2	658.2	593.7	557.2
82.5°	77.2	91.2	103.8	102.5	126.3	151.5	179.6	195.1	188.0	155.8	147.3
85°	32.2	42.1	44.9	42.1	51.9	57.5	67.4	68.8	79.9	71.5	75.7
87.5°	0.0	1.3	1.3	0.0	2.9	0.0	2.9	1.3	7.0	2.9	8.4
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°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	538.9	546.0	538.9	546.0	541.8	546.0	544.6	546.0	538.9	546.0	537.5
5°	529.1	540.3	530.4	538.9	530.4	540.3	540.3	540.3	530.4	541.8	532.0
7.5°	520.7	533.3	520.7	533.3	524.9	534.7	534.7	538.9	527.8	540.3	526.2
10°	512.2	527.8	512.2	530.4	516.4	532.0	533.3	536.1	520.7	537.5	523.5
12.5°	508.0	527.8	509.5	527.8	510.9	532.0	533.3	536.1	519.3	540.3	522.1
15°	508.0	529.1	509.5	529.1	510.9	532.0	534.7	537.5	519.3	541.8	522.1
17.5°	508.0	529.1	512.2	530.4	513.7	533.3	536.1	538.9	522.1	541.8	524.9
20°	512.2	532.0	515.1	534.7	518.0	537.5	538.9	543.1	524.9	543.1	527.8
22.5°	522.1	538.9	524.9	543.1	530.4	546.0	547.3	551.6	537.5	553.0	540.3
25°	538.9	557.2	546.0	560.0	553.0	565.7	568.4	568.4	562.8	572.6	568.4
27.5°	574.1	588.1	579.7	592.3	588.1	597.9	597.9	599.3	603.5	606.3	610.5
30°	618.9	628.7	626.0	632.9	634.3	640.0	640.0	648.4	665.3	648.4	647.0
32.5°	679.3	684.9	686.2	689.1	694.7	698.9	704.5	714.3	728.3	689.1	676.4
35°	753.7	755.0	759.2	763.5	773.4	776.1	794.4	787.4	787.4	725.7	698.9
37.5°	835.1	835.1	846.3	846.3	870.2	871.5	889.8	853.3	832.3	752.3	713.0
40°	937.5	936.1	948.7	951.6	983.8	985.2	982.5	902.4	857.5	759.2	706.0
42.5°	1045.5	1049.8	1066.6	1072.3	1096.1	1104.6	1069.4	936.1	868.8	755.0	682.2
45°	1163.5	1171.9	1192.9	1208.4	1233.6	1223.9	1139.6	951.6	856.2	729.9	635.8
47.5°	1292.6	1301.0	1317.8	1347.4	1358.6	1347.4	1197.2	957.1	836.5	690.4	568.4
50°	1423.2	1437.2	1461.0	1503.1	1508.7	1480.7	1267.3	978.3	821.1	649.8	491.2
52.5°	1570.5	1584.5	1612.5	1682.7	1668.7	1611.2	1350.2	1017.5	825.3	624.5	425.3
55°	1726.3	1745.9	1800.7	1869.5	1838.5	1748.7	1441.4	1075.0	842.1	597.9	352.2
57.5°	1890.4	1911.5	1983.1	2064.6	2004.2	1883.5	1533.9	1120.0	850.5	543.1	272.3
60°	2053.3	2082.8	2175.3	2242.8	2148.7	1998.5	1616.8	1149.4	828.1	439.3	210.6
62.5°	2202.0	2249.7	2353.6	2390.1	2239.9	2071.5	1661.8	1128.5	736.8	303.2	169.8
65°	2307.3	2369.1	2436.5	2432.3	2223.0	2047.7	1628.0	1031.5	548.8	200.7	144.5
67.5°	2352.2	2409.7	2425.2	2353.6	2102.4	1942.5	1507.4	830.8	315.8	150.2	126.3
70°	2369.1	2418.1	2331.2	2158.5	1866.6	1684.1	1232.3	529.1	172.7	122.1	109.4
71°	2362.0	2385.9	2220.3	2018.2	1716.4	1525.6	1080.8	402.8	147.3	113.6	103.8
72.5°	2266.6	2233.0	1977.5	1753.0	1455.4	1261.7	840.6	254.0	120.7	102.5	96.8
75°	1852.6	1701.0	1455.4	1243.4	990.8	792.9	456.1	130.5	96.8	88.4	84.2
77.5°	1211.3	1079.2	877.1	713.0	541.8	411.2	186.7	89.8	77.2	74.4	73.0
80°	432.3	346.7	262.5	230.1	174.0	143.2	91.2	68.8	60.4	61.7	60.4
82.5°	122.1	112.3	96.8	89.8	78.6	77.2	59.0	51.9	47.7	50.6	49.0
85°	60.4	51.9	37.9	36.5	28.0	32.2	29.5	35.0	30.9	32.2	29.5
87.5°	4.2	5.6	1.3	4.2	0.0	4.2	5.6	7.0	1.3	5.6	4.2
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):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	547.3	541.8	548.8	541.8	548.8	544.6	548.8	544.6	548.8	551.6	551.6
5°	544.6	534.7	547.3	540.3	548.8	541.8	547.3	543.1	550.1	553.0	555.8
7.5°	543.1	533.3	546.0	536.1	548.8	538.9	547.3	541.8	550.1	553.0	558.6
10°	541.8	529.1	546.0	532.0	547.3	537.5	547.3	538.9	548.8	551.6	553.0
12.5°	541.8	527.8	546.0	530.4	547.3	533.3	546.0	533.3	547.3	546.0	541.8
15°	543.1	524.9	546.0	527.8	546.0	529.1	544.6	527.8	541.8	537.5	534.7
17.5°	543.1	524.9	544.6	526.2	543.1	527.8	540.3	524.9	537.5	536.1	532.0
20°	546.0	527.8	544.6	532.0	544.6	529.1	538.9	524.9	534.7	526.2	509.5
22.5°	554.3	541.8	554.3	541.8	547.3	533.3	537.5	520.7	519.3	505.3	478.5
25°	574.1	568.4	565.7	550.1	546.0	527.8	522.1	502.4	495.4	474.3	437.8
27.5°	599.3	586.6	569.9	551.6	533.3	510.9	495.4	480.0	464.5	437.8	391.6
30°	616.1	597.9	562.8	537.5	503.9	485.6	458.9	442.1	419.7	385.9	341.1
32.5°	627.4	599.3	546.0	516.4	471.6	447.7	412.6	394.4	362.1	329.8	297.6
35°	630.1	593.7	523.5	491.2	432.3	405.7	359.3	339.6	308.7	286.3	273.6
37.5°	618.9	574.1	488.4	446.3	381.7	350.9	307.4	293.4	275.2	266.7	261.0
40°	596.5	536.1	433.7	384.6	318.6	294.7	272.3	272.3	262.5	258.3	248.4
42.5°	555.8	480.0	363.5	315.8	270.9	266.7	254.0	259.6	252.6	249.8	235.7
45°	492.6	399.9	293.4	265.3	244.2	247.0	238.6	244.2	239.9	238.6	221.7
47.5°	411.2	318.6	247.0	237.2	223.2	227.5	220.4	227.5	223.2	224.6	211.9
50°	328.4	258.3	219.0	213.3	203.5	206.3	202.1	209.1	207.7	213.3	206.3
52.5°	262.5	220.4	195.1	190.9	185.3	186.7	185.3	192.2	193.7	204.9	204.9
55°	217.5	189.5	175.3	174.0	168.4	169.8	171.3	178.2	183.8	197.9	204.9
57.5°	186.7	169.8	160.0	158.6	155.8	157.2	160.0	168.4	174.0	192.2	207.7
60°	164.2	154.4	147.3	147.3	144.5	147.3	150.2	158.6	165.6	186.7	202.1
62.5°	147.3	140.3	136.1	137.5	136.1	139.0	141.8	150.2	158.6	178.2	193.7
65°	131.9	127.6	125.0	126.3	126.3	130.5	133.3	141.8	148.8	167.1	186.7
67.5°	119.3	116.5	115.2	116.5	117.9	122.1	126.3	131.9	137.5	154.4	176.9
70°	109.4	106.7	106.7	106.7	108.1	112.3	117.9	120.7	126.3	144.5	165.6
71°	103.8	102.5	102.5	102.5	103.8	108.1	113.6	116.5	122.1	140.3	160.0
72.5°	96.8	96.8	98.3	96.8	99.6	101.1	106.7	109.4	116.5	134.7	153.0
75°	85.6	85.6	87.0	87.0	89.8	89.8	94.1	96.8	105.2	120.7	137.5
77.5°	75.7	75.7	78.6	77.2	77.2	74.4	79.9	82.8	89.8	105.2	122.1
80°	64.6	63.2	65.9	61.7	60.4	57.5	61.7	65.9	77.2	87.0	89.8
82.5°	50.6	46.4	47.7	43.5	43.5	40.7	44.9	46.4	53.3	63.2	68.8
85°	30.9	25.2	28.0	23.9	26.7	23.9	25.2	26.7	32.2	39.3	37.9
87.5°	7.0	4.2	5.6	1.3	4.2	0.0	4.2	1.3	4.2	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):**

	155°	165°	175°	180°
0°	548.8	548.8	548.8	548.8
2.5°	554.3	553.0	554.3	553.0
5°	561.4	561.4	562.8	564.1
7.5°	562.8	565.7	568.4	567.0
10°	553.0	550.1	553.0	550.1
12.5°	537.5	534.7	537.5	537.5
15°	536.1	534.7	536.1	536.1
17.5°	526.2	519.3	516.4	515.1
20°	498.2	485.6	482.7	478.5
22.5°	458.9	440.7	435.0	430.8
25°	411.2	385.9	376.1	370.6
27.5°	359.3	334.0	324.2	324.2
30°	318.6	299.0	289.2	289.2
32.5°	289.2	277.8	270.9	272.3
35°	265.3	258.3	254.0	255.5
37.5°	249.8	238.6	228.8	228.8
40°	234.4	220.4	207.7	207.7
42.5°	220.4	206.3	197.9	196.5
45°	206.3	196.5	189.5	188.0
47.5°	199.3	190.9	183.8	182.4
50°	196.5	188.0	178.2	178.2
52.5°	199.3	192.2	174.0	174.0
55°	204.9	200.7	174.0	171.3
57.5°	199.3	192.2	175.3	171.3
60°	186.7	175.3	172.7	169.8
62.5°	178.2	167.1	172.7	171.3
65°	171.3	162.9	175.3	172.7
67.5°	164.2	155.8	175.3	169.8
70°	155.8	147.3	160.0	150.2
71°	151.5	141.8	151.5	143.2
72.5°	144.5	133.3	136.1	130.5
75°	130.5	119.3	116.5	115.2
77.5°	108.1	95.4	91.2	89.8
80°	82.8	74.4	74.4	70.2
82.5°	61.7	54.8	53.3	46.4
85°	32.2	25.2	21.0	21.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)