

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: P271417

Luminaire Tested: **ISC-AF-1200-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271417  
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: ISC-AF-1200-LED-E1-T2-7027  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5598.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

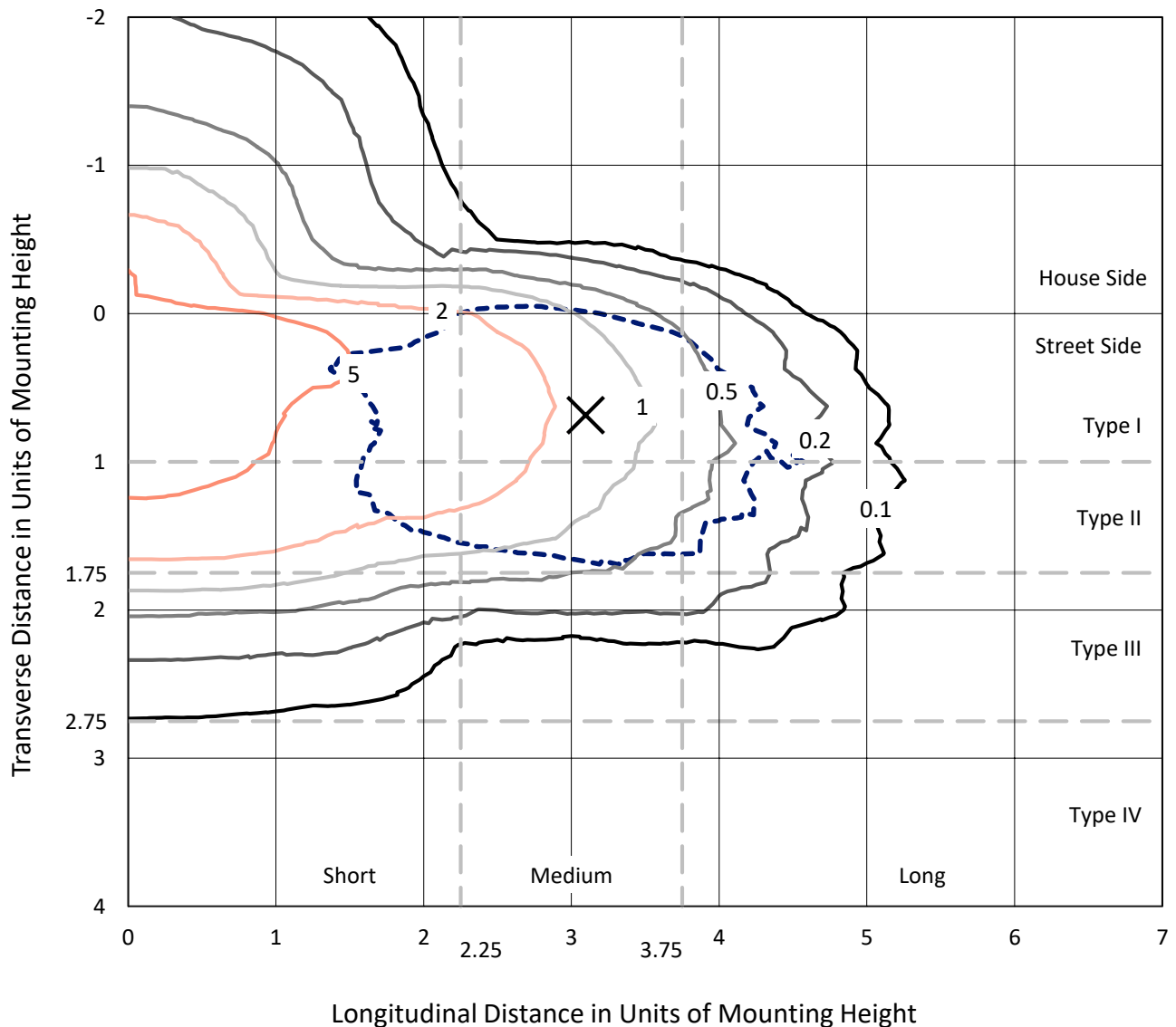
Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

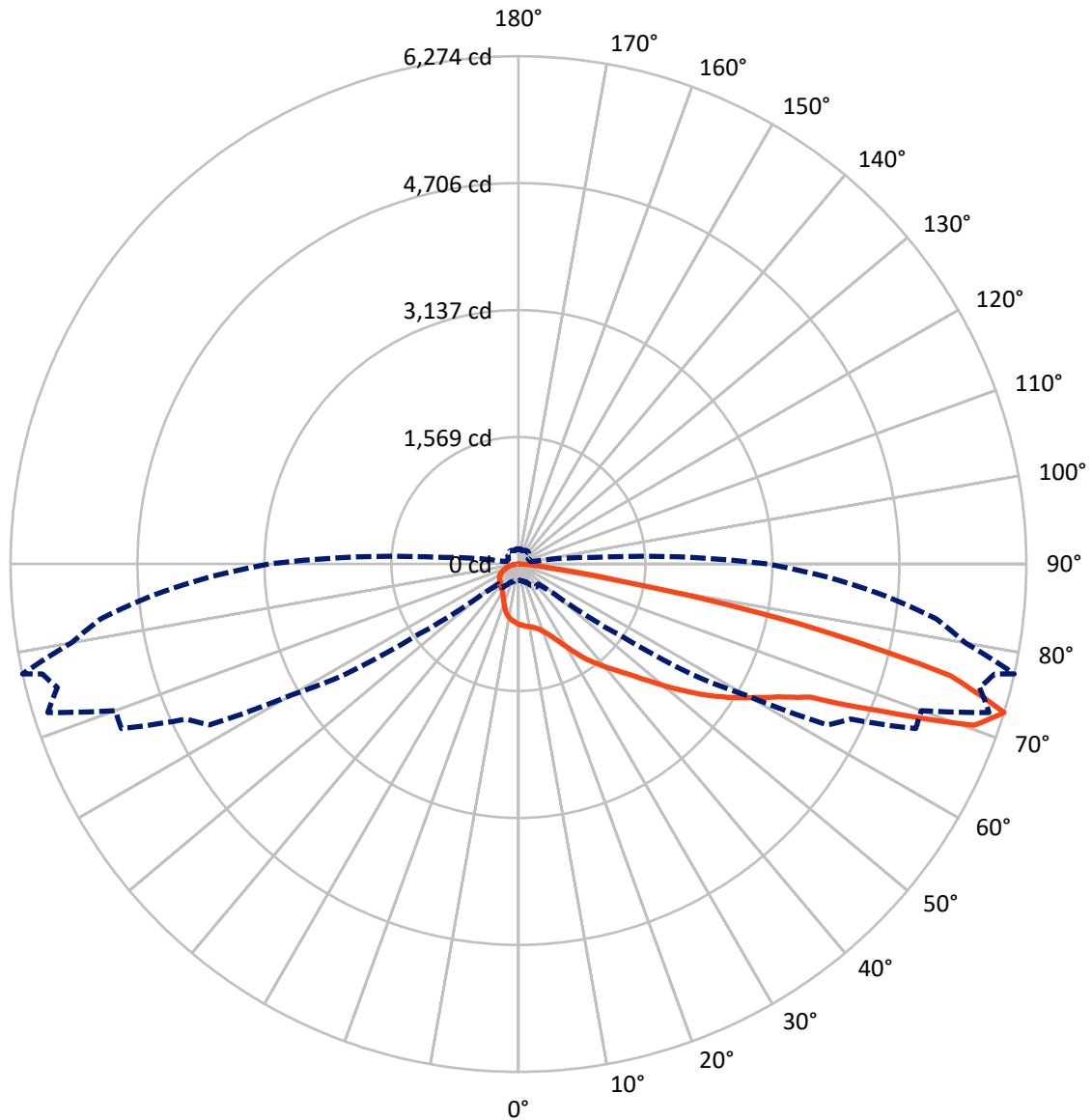
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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	927.6	0.0	927.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	4670.7	0.0	4670.7
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	5598.4	0.0	5598.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	1.2
10°-20°	212.9	3.8
20°-30°	377.9	6.8
30°-40°	598.8	10.7
40°-50°	898.3	16.0
50°-60°	1164.0	20.8
60°-70°	1322.6	23.6
70°-80°	877.7	15.7
80°-90°	76.8	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°	5598.4	100.0
0°-180°	5598.4	100.0



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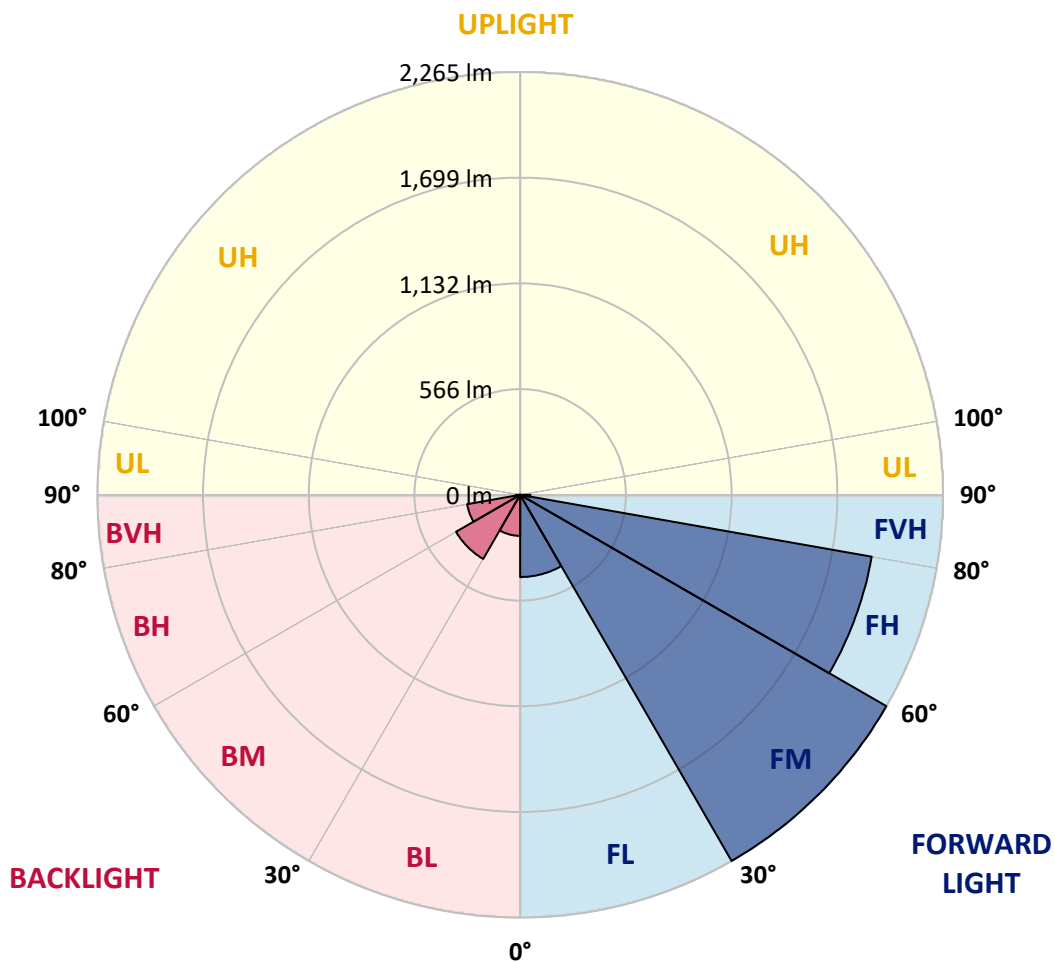
CATALOG NUMBER: ISC-AF-1200-LED-E1-T2-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.4	7.9			
FM (30°-60°)	2264.8	40.5			
FH (60°-80°)	1911.8	34.1			G2/5000
FVH (80°-90°)	53.6	1.0			G1/100
BL (0°-30°)	219.8	3.9	B1/500		
BM (30°-60°)	396.3	7.1	B1/1000		
BH (60°-80°)	288.5	5.2	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	809.7	806.0	804.2	800.3	796.5	794.7	789.0	785.2	790.9	789.0	789.0
5°	870.2	866.3	860.8	855.1	847.6	841.8	836.2	830.6	834.3	830.6	826.8
7.5°	919.2	915.5	908.0	902.3	894.7	887.2	879.6	877.7	873.9	868.3	866.3
10°	947.5	943.8	940.1	936.2	925.0	919.2	909.8	904.1	906.0	898.5	898.5
12.5°	974.0	970.2	968.4	968.4	958.9	953.2	949.5	943.8	947.5	936.2	932.5
15°	998.6	994.7	989.1	994.7	992.9	991.0	989.1	987.1	992.9	981.6	983.5
17.5°	1038.2	1036.3	1025.0	1017.4	1019.3	1025.0	1028.6	1026.9	1026.9	1021.1	1023.1
20°	1100.4	1100.4	1085.3	1072.1	1051.4	1051.4	1053.3	1051.4	1055.1	1058.9	1064.6
22.5°	1147.7	1143.9	1138.2	1126.8	1104.3	1085.3	1085.3	1077.8	1083.4	1085.3	1096.7
25°	1208.0	1204.3	1191.1	1191.1	1168.4	1143.9	1140.1	1128.8	1141.9	1117.4	1136.4
27.5°	1281.6	1277.9	1261.0	1253.3	1242.1	1211.8	1204.3	1206.2	1219.4	1183.4	1202.4
30°	1374.1	1370.4	1349.6	1328.9	1310.0	1277.9	1274.2	1272.2	1302.5	1261.0	1285.5
32.5°	1491.2	1491.2	1468.5	1440.3	1402.4	1359.0	1344.0	1345.8	1387.3	1342.1	1383.6
35°	1668.6	1646.0	1604.5	1561.1	1521.4	1470.4	1449.7	1445.9	1483.6	1438.4	1485.5
37.5°	1781.9	1766.8	1729.0	1697.0	1653.5	1604.5	1589.3	1595.0	1627.1	1561.1	1629.0
40°	1883.7	1881.9	1857.3	1836.7	1793.2	1744.1	1763.0	1838.5	1923.5	1795.2	1797.0
42.5°	1951.7	1955.5	1953.6	1955.5	1931.0	1880.1	1912.1	2017.9	2163.2	2087.8	2017.9
45°	1963.1	1976.3	1982.0	2019.7	2044.3	2014.0	2031.1	2142.4	2433.1	2550.1	2234.9
47.5°	1991.5	2004.6	1993.2	2038.5	2151.8	2149.9	2217.9	2259.5	2299.0	2318.0	2555.8
50°	2029.1	2053.6	2042.4	2080.1	2172.6	2225.4	2284.0	2336.9	2304.7	2185.8	2250.0
52.5°	2031.1	2059.4	2121.7	2159.3	2250.0	2238.7	2278.3	2250.0	2299.0	2176.3	2238.7
55°	1864.9	1870.6	2051.8	2242.5	2401.0	2368.9	2344.4	2280.2	2342.5	2189.6	2268.8
57.5°	1602.6	1621.4	1810.2	2131.0	2470.9	2499.2	2491.6	2485.9	2534.9	2331.1	2418.0
60°	1313.7	1336.4	1515.7	1893.3	2325.5	2399.1	2501.0	2563.3	2689.7	2608.7	2752.0
62.5°	819.3	836.2	1034.4	1506.3	2051.8	2197.2	2346.2	2419.9	2603.0	2640.7	2884.2
65°	390.8	396.4	473.8	819.3	1491.2	1764.9	1985.7	2142.4	2367.0	2536.9	2865.3
67.5°	303.9	305.9	334.1	436.0	764.5	947.5	1198.6	1406.3	1646.0	2110.3	2517.9
70°	243.5	243.5	266.2	320.9	473.8	498.3	562.5	632.4	734.3	1108.0	1438.4
72.5°	203.8	203.8	219.0	253.0	351.1	356.8	352.9	347.4	347.4	437.9	558.7
75°	171.8	169.9	179.3	202.0	260.5	268.1	264.2	251.1	236.0	236.0	266.2
77.5°	139.7	139.7	147.2	158.6	188.7	192.6	192.6	181.2	168.1	169.9	183.1
80°	109.4	109.4	115.2	122.7	132.1	130.3	130.3	118.9	109.4	107.5	115.2
82.5°	79.3	81.2	94.4	88.8	84.9	79.3	79.3	77.4	69.9	64.2	67.9
85°	24.5	26.4	45.4	52.8	43.4	35.8	34.0	28.3	30.3	24.5	28.3
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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	779.5	783.3	775.8	775.8	766.3	772.0	762.6	764.5	755.0	758.8	758.8
5°	817.3	819.3	809.7	806.0	796.5	796.5	787.2	787.2	773.9	777.8	773.9
7.5°	853.2	853.2	843.8	836.2	826.8	822.9	811.7	806.0	794.7	792.8	787.2
10°	883.4	883.4	870.2	862.6	851.3	845.7	830.6	824.8	811.7	802.3	796.5
12.5°	921.1	917.3	902.3	894.7	875.8	873.9	851.3	847.6	828.7	822.9	813.5
15°	966.5	970.2	945.6	943.8	917.3	915.5	885.3	883.4	855.1	853.2	839.9
17.5°	1015.5	1023.1	1002.3	1000.4	968.4	968.4	932.5	930.6	892.8	890.8	873.9
20°	1058.9	1068.4	1055.1	1058.9	1030.6	1032.5	992.9	992.9	940.1	936.2	921.1
22.5°	1098.5	1117.4	1106.2	1126.8	1098.5	1111.8	1058.9	1068.4	1006.1	998.6	975.9
25°	1138.2	1162.8	1158.9	1192.9	1172.2	1194.8	1140.1	1158.9	1077.8	1083.4	1053.3
27.5°	1177.9	1209.9	1206.2	1255.2	1247.7	1293.0	1245.8	1266.6	1177.9	1183.4	1149.5
30°	1244.0	1279.7	1266.6	1317.5	1317.5	1391.1	1355.4	1387.3	1289.2	1300.6	1261.0
32.5°	1332.6	1374.1	1334.5	1400.5	1396.9	1493.1	1464.8	1519.6	1423.3	1438.4	1389.3
35°	1428.9	1495.0	1430.8	1504.4	1493.1	1593.1	1574.2	1662.9	1561.1	1578.1	1528.9
37.5°	1555.3	1634.6	1549.7	1613.9	1562.9	1678.0	1666.7	1787.5	1683.7	1727.1	1668.6
40°	1704.4	1766.8	1661.1	1715.9	1630.9	1749.8	1730.9	1897.0	1800.7	1870.6	1817.7
42.5°	1842.2	1885.7	1746.0	1813.9	1712.0	1832.8	1798.9	1999.0	1915.8	2023.5	1965.0
45°	1966.9	2016.0	1830.9	1906.5	1793.2	1925.3	1866.8	2097.1	2040.5	2202.8	2144.3
47.5°	2144.3	2072.6	1908.3	2006.5	1880.1	2025.4	1948.0	2212.3	2191.4	2421.8	2353.8
50°	2085.8	2132.9	1972.5	2074.5	1959.3	2136.8	2051.8	2350.1	2355.6	2659.6	2620.0
52.5°	2091.4	2170.8	2021.5	2163.2	2051.8	2291.6	2202.8	2516.2	2542.6	2889.8	2835.1
55°	2125.4	2242.5	2095.2	2285.8	2182.1	2463.3	2401.0	2695.5	2740.8	3107.0	3074.9
57.5°	2210.4	2372.7	2221.7	2470.9	2363.2	2659.6	2603.0	2880.4	2942.8	3324.0	3314.6
60°	2536.9	2729.4	2465.2	2740.8	2597.3	2882.3	2806.8	3074.9	3137.2	3531.7	3556.2
62.5°	2901.2	3235.3	3078.6	3365.6	2986.1	3275.0	3052.2	3314.6	3318.4	3754.4	3831.8
65°	2995.6	3509.0	3643.1	4177.2	3979.0	4275.3	3680.7	3856.3	3629.8	4160.2	4271.6
67.5°	2959.7	3588.3	3960.2	4562.3	4786.9	5304.1	5204.0	5143.7	4618.9	5000.1	5134.3
70°	2172.6	2838.9	3748.8	4360.4	5007.7	5347.5	5885.4	5940.2	5917.6	5864.8	5953.4
72.5°	989.1	1551.6	2536.9	3235.3	4303.7	4532.1	5311.7	5296.6	6096.9	5898.7	6038.4
75°	388.9	598.5	1208.0	1806.4	2976.7	3258.0	4141.4	3922.4	4920.9	4630.2	4928.6
77.5°	213.3	268.1	453.0	775.8	1625.2	1774.3	2534.9	2168.8	3052.2	2548.2	2648.2
80°	128.4	160.4	207.7	294.5	690.9	730.5	1081.6	872.1	1247.7	947.5	919.2
82.5°	69.9	86.9	103.8	145.3	256.7	285.0	373.8	336.0	400.1	341.6	334.1
85°	28.3	37.8	39.6	58.5	84.9	98.2	118.9	128.4	156.7	143.5	139.7
87.5°	0.0	1.9	0.0	3.8	0.0	3.8	0.0	5.7	5.7	9.4	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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	753.2	758.8	751.3	751.3	741.8	747.5	741.8	736.1	726.7	728.6	715.4
5°	766.3	770.2	760.7	756.9	751.3	749.4	738.0	726.7	713.5	713.5	698.4
7.5°	779.5	779.5	766.3	766.3	753.2	749.4	732.4	713.5	694.6	692.8	670.0
10°	787.2	785.2	768.2	768.2	749.4	747.5	726.7	698.4	672.0	664.5	632.4
12.5°	802.3	800.3	779.5	775.8	751.3	751.3	721.1	683.3	645.5	632.4	587.0
15°	821.1	822.9	798.4	792.8	764.5	762.6	721.1	664.5	613.5	592.7	537.9
17.5°	851.3	853.2	819.3	813.5	779.5	773.9	723.0	641.7	570.1	547.3	498.3
20°	890.8	885.3	839.9	838.1	792.8	787.2	721.1	607.8	526.7	503.9	460.7
22.5°	940.1	934.3	875.8	870.2	817.3	807.8	719.1	572.0	487.0	462.4	434.2
25°	1008.0	1000.4	928.7	921.1	855.1	839.9	717.3	534.2	453.0	434.2	417.2
27.5°	1092.9	1077.8	991.0	983.5	894.7	875.8	709.8	490.7	419.0	405.9	398.3
30°	1194.8	1181.6	1070.3	1058.9	947.5	923.0	702.1	451.1	394.4	388.9	383.1
32.5°	1315.7	1302.5	1166.4	1153.3	1015.5	979.6	689.0	419.0	379.4	379.4	371.9
35°	1442.0	1430.8	1270.3	1261.0	1091.0	1043.8	672.0	390.8	366.1	366.1	358.6
37.5°	1555.3	1564.8	1383.6	1376.0	1166.4	1108.0	653.1	371.9	354.9	351.1	343.5
40°	1678.0	1700.7	1489.3	1495.0	1245.8	1175.9	630.4	356.8	341.6	337.9	336.0
42.5°	1802.6	1846.1	1600.7	1621.4	1325.1	1245.8	613.5	347.4	336.0	328.4	326.5
45°	1957.5	2019.7	1738.5	1778.0	1417.5	1330.7	607.8	336.0	319.0	309.6	303.9
47.5°	2149.9	2233.0	1908.3	1953.6	1540.2	1432.7	619.1	332.2	307.7	296.4	285.0
50°	2378.4	2457.7	2110.3	2129.3	1678.0	1544.1	643.6	337.9	303.9	286.9	269.9
52.5°	2620.0	2680.4	2323.6	2302.9	1821.5	1653.5	672.0	339.8	294.5	277.5	256.7
55°	2869.2	2903.1	2521.8	2467.0	1951.7	1763.0	709.8	337.9	286.9	268.1	241.6
57.5°	3112.5	3123.9	2697.3	2644.5	2080.1	1893.3	756.9	332.2	275.6	256.7	228.3
60°	3350.5	3369.4	2891.7	2842.7	2219.8	2061.3	824.8	322.9	260.5	247.2	217.1
62.5°	3611.0	3673.2	3123.9	3131.5	2412.3	2323.6	953.2	311.4	245.3	230.2	200.1
65°	3965.7	4203.7	3507.2	3684.6	2782.3	2818.2	1198.6	279.4	224.7	205.7	185.1
67.5°	4854.9	5115.4	4437.6	4509.4	3648.6	3435.4	1353.4	237.8	198.2	185.1	171.8
70°	5968.5	5781.6	5300.3	4866.2	4154.5	3531.7	1191.1	200.1	175.6	168.1	160.4
72.5°	6274.3	5604.3	5207.8	4556.7	3841.2	3080.6	911.7	171.8	156.7	152.9	147.2
75°	5513.5	4543.4	4566.1	3620.3	3184.3	2348.2	623.0	147.2	135.9	133.9	132.1
77.5°	3525.9	2335.0	2842.7	1789.4	1838.5	1087.3	303.9	122.7	117.0	117.0	113.3
80°	1253.3	777.8	879.6	564.3	513.4	345.4	164.2	98.2	94.4	96.3	94.4
82.5°	375.6	298.2	292.6	228.3	177.4	145.3	90.5	75.5	71.8	73.6	69.9
85°	151.1	117.0	98.2	75.5	62.3	56.6	49.0	50.9	45.4	49.0	43.4
87.5°	9.4	7.5	5.7	7.5	0.0	3.8	9.4	7.5	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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	724.8	711.5	717.3	711.5	715.4	704.1	707.9	698.4	698.4	696.5	687.0
5°	700.3	687.0	685.1	672.0	673.9	658.7	656.9	640.0	640.0	624.8	596.5
7.5°	666.4	645.5	643.6	617.2	615.4	594.6	587.0	568.2	566.3	549.2	532.2
10°	623.0	590.8	585.2	551.2	553.1	530.4	528.6	515.3	515.3	507.7	507.7
12.5°	573.8	537.9	534.2	507.7	509.7	494.6	496.4	488.9	492.7	496.4	509.7
15°	528.6	500.2	496.4	479.4	481.3	477.6	483.2	483.2	488.9	498.3	520.9
17.5°	490.7	466.2	468.2	460.7	468.2	466.2	477.6	475.7	487.0	498.3	526.7
20°	456.8	443.7	449.2	447.4	456.8	456.8	466.2	468.2	477.6	492.7	524.7
22.5°	434.2	430.4	436.0	436.0	443.7	445.5	454.9	460.7	466.2	481.3	509.7
25°	420.9	419.0	424.7	426.5	432.3	434.2	443.7	443.7	453.0	462.4	477.6
27.5°	402.0	398.3	405.9	405.9	413.4	411.5	422.8	419.0	428.5	432.3	436.0
30°	388.9	383.1	388.9	387.0	392.6	387.0	392.6	387.0	392.6	392.6	387.0
32.5°	375.6	369.9	371.9	364.4	369.9	362.5	364.4	356.8	360.5	356.8	358.6
35°	362.5	354.9	354.9	345.4	345.4	336.0	339.8	332.2	339.8	345.4	343.5
37.5°	343.5	337.9	337.9	330.4	334.1	330.4	337.9	334.1	336.0	328.4	315.2
40°	332.2	336.0	334.1	339.8	336.0	330.4	324.6	313.4	311.4	307.7	300.1
42.5°	315.2	319.0	309.6	317.1	311.4	313.4	309.6	303.9	300.1	296.4	288.7
45°	290.7	290.7	283.1	294.5	288.7	300.1	296.4	296.4	292.6	286.9	281.3
47.5°	269.9	271.7	264.2	273.7	269.9	285.0	283.1	288.7	288.7	285.0	269.9
50°	256.7	253.0	247.2	256.7	254.8	268.1	269.9	281.3	279.4	281.3	268.1
52.5°	245.3	237.8	232.2	237.8	237.8	249.2	253.0	266.2	268.1	271.7	264.2
55°	232.2	222.7	219.0	222.7	222.7	234.1	239.7	249.2	254.8	266.2	262.3
57.5°	220.8	207.7	203.8	207.7	209.6	220.8	226.6	236.0	243.5	258.6	256.7
60°	207.7	196.3	192.6	198.2	200.1	211.4	217.1	226.6	232.2	249.2	249.2
62.5°	192.6	183.1	183.1	185.1	188.7	200.1	203.8	217.1	219.0	239.7	241.6
65°	179.3	173.6	173.6	175.6	179.3	188.7	190.6	203.8	205.7	226.6	232.2
67.5°	168.1	164.2	164.2	166.1	168.1	175.6	177.4	190.6	194.4	213.3	222.7
70°	156.7	152.9	151.1	151.1	156.7	162.3	166.1	179.3	181.2	198.2	209.6
72.5°	143.5	139.7	139.7	137.8	143.5	147.2	154.8	162.3	166.1	183.1	190.6
75°	130.3	126.5	126.5	124.5	128.4	135.9	137.8	145.3	147.2	162.3	169.9
77.5°	113.3	109.4	109.4	109.4	113.3	115.2	117.0	124.5	128.4	141.6	149.1
80°	94.4	90.5	92.4	90.5	96.3	88.8	94.4	102.0	105.7	113.3	109.4
82.5°	71.8	66.0	67.9	67.9	69.9	64.2	67.9	71.8	75.5	81.2	79.3
85°	45.4	39.6	43.4	39.6	43.4	37.8	41.5	41.5	45.4	41.5	39.6
87.5°	9.4	3.8	9.4	3.8	11.3	0.0	5.7	0.0	3.8	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°	747.5	747.5	747.5	747.5
2.5°	677.6	670.0	666.4	664.5
5°	581.3	568.2	564.3	560.6
7.5°	522.8	519.1	519.1	517.2
10°	511.6	517.2	519.1	519.1
12.5°	524.7	534.2	541.8	541.8
15°	541.8	558.7	568.2	568.2
17.5°	555.0	577.6	587.0	588.9
20°	556.8	579.5	592.7	594.6
22.5°	539.8	555.0	564.3	564.3
25°	496.4	503.9	509.7	509.7
27.5°	441.7	439.8	437.9	445.5
30°	385.0	381.3	373.8	381.3
32.5°	364.4	351.1	332.2	337.9
35°	332.2	328.4	319.0	320.9
37.5°	320.9	352.9	351.1	352.9
40°	307.7	347.4	345.4	349.2
42.5°	296.4	319.0	296.4	298.2
45°	275.6	285.0	266.2	266.2
47.5°	266.2	262.3	254.8	253.0
50°	258.6	258.6	254.8	251.1
52.5°	253.0	249.2	262.3	260.5
55°	245.3	241.6	251.1	251.1
57.5°	239.7	230.2	245.3	245.3
60°	234.1	224.7	239.7	239.7
62.5°	230.2	219.0	237.8	236.0
65°	224.7	213.3	237.8	234.1
67.5°	217.1	202.0	234.1	228.3
70°	202.0	188.7	220.8	205.7
72.5°	186.8	171.8	188.7	175.6
75°	164.2	151.1	152.9	151.1
77.5°	137.8	122.7	118.9	120.8
80°	103.8	94.4	90.5	90.5
82.5°	75.5	64.2	66.0	54.8
85°	34.0	24.5	18.9	18.9
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)