

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: P271414

Luminaire Tested: **ISC-AF-1200-LED-E1-SL4-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)  
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-SL4-7027  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5054.6 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

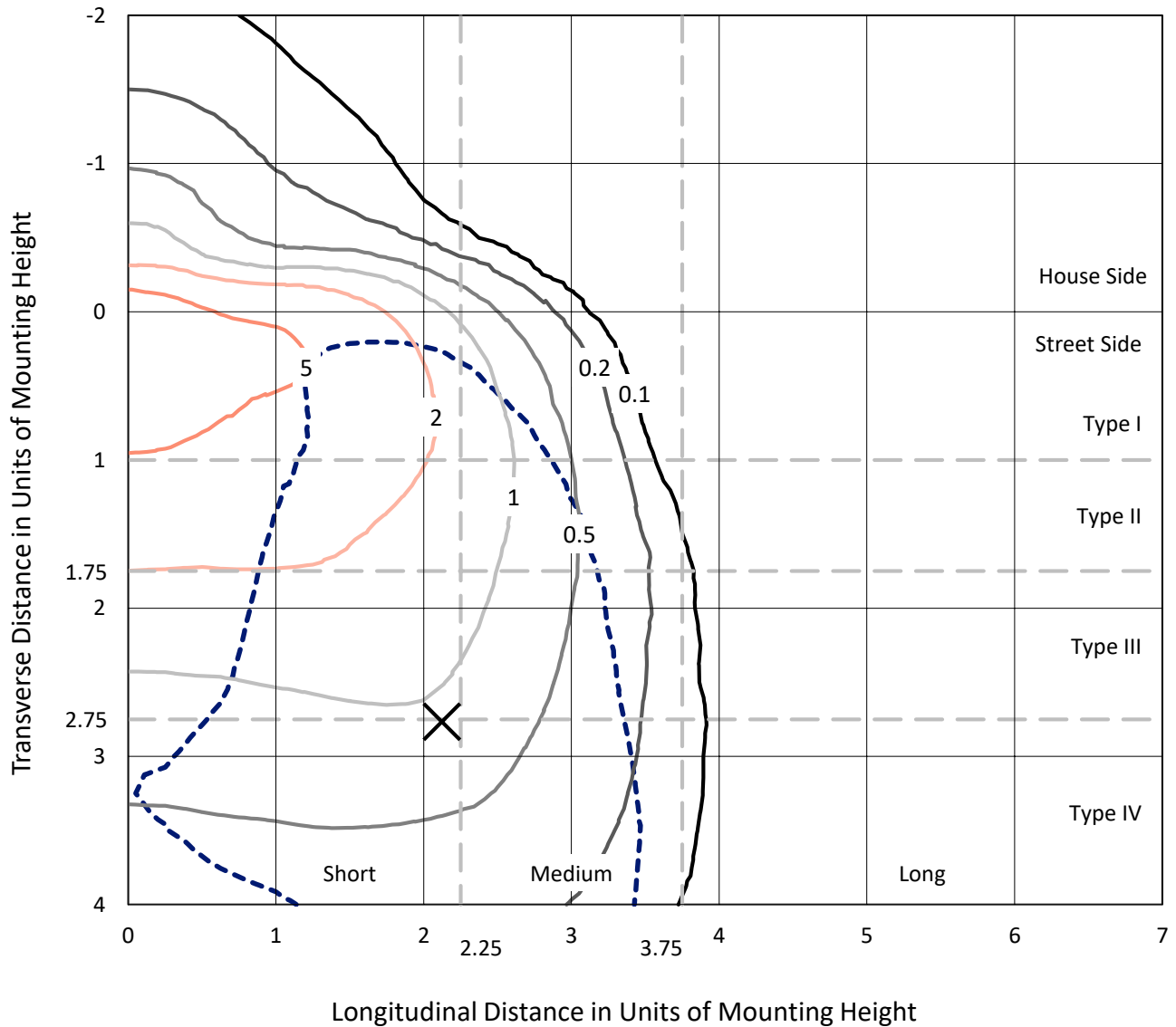
Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

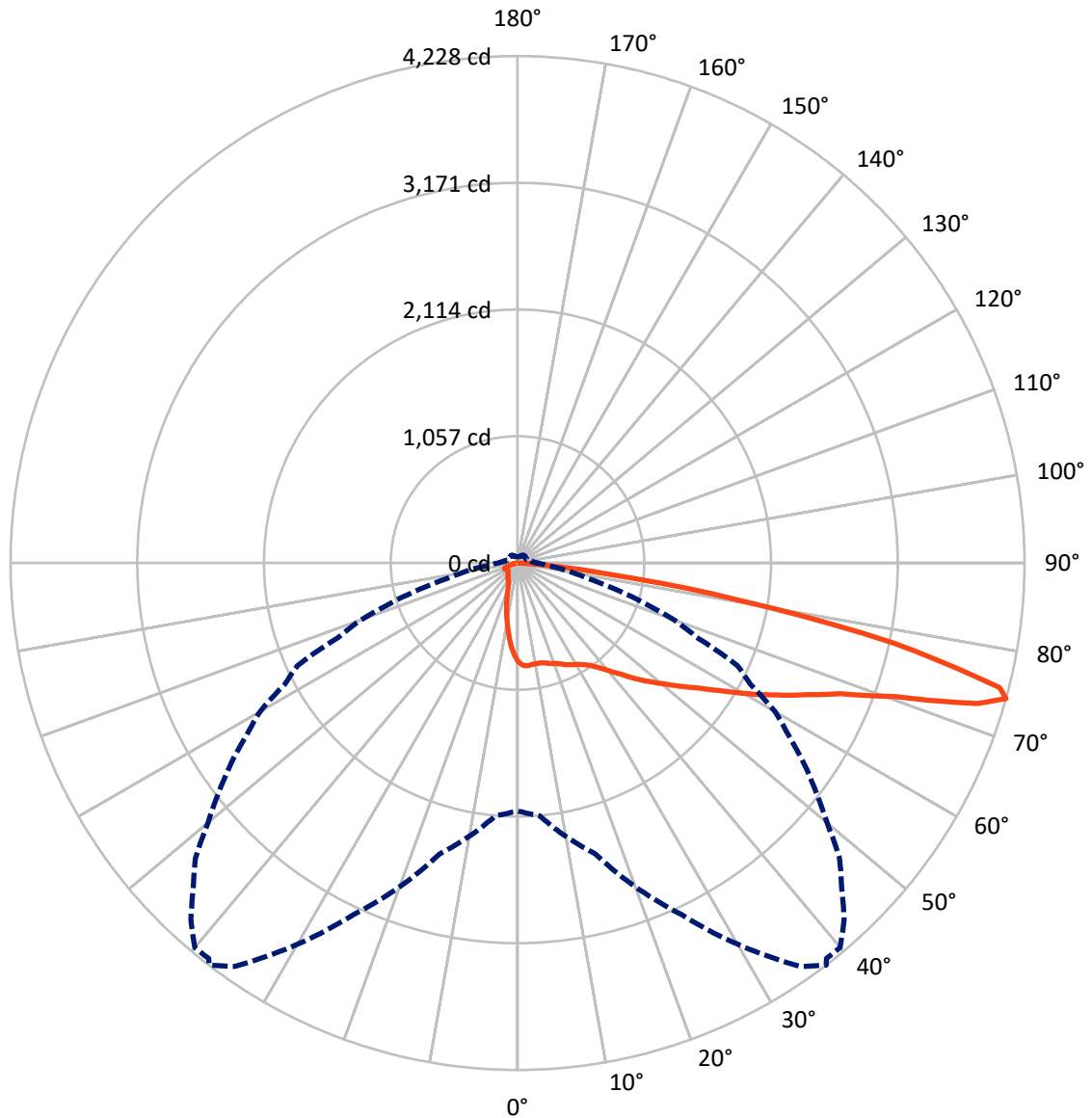
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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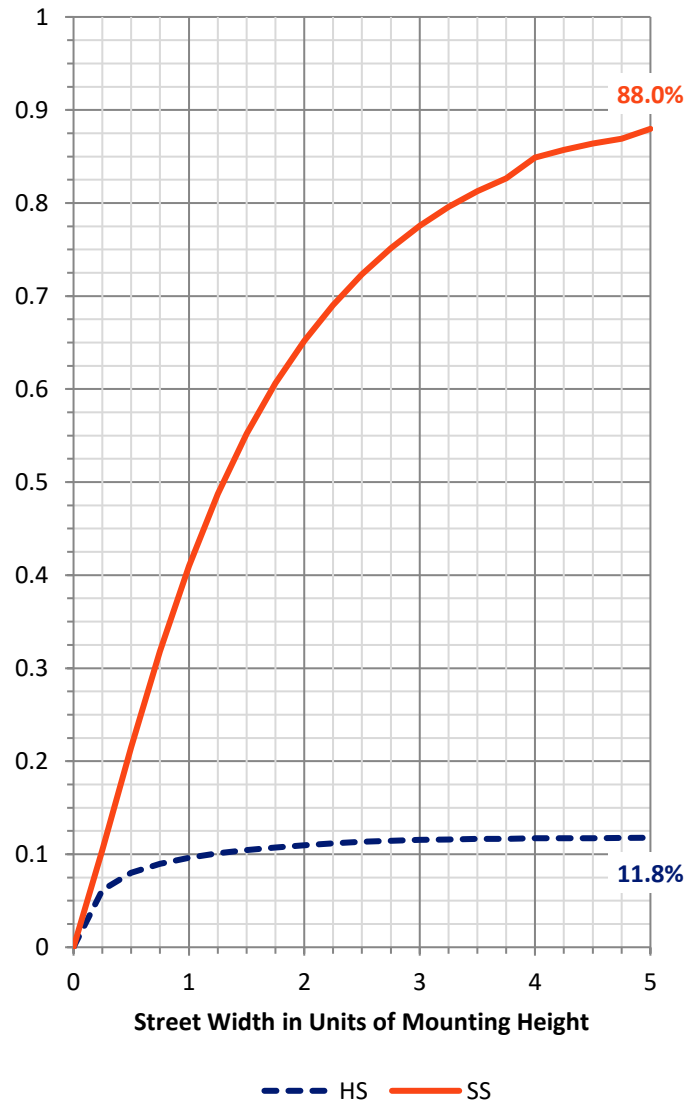
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	599.4	0.0	599.4
	% Fixture	11.9	0.0	11.9
<b>Street Side</b>	Lumens	4455.3	0.0	4455.3
	% Fixture	88.1	0.0	88.1
<b>Total</b>	Lumens	5054.6	0.0	5054.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	1.4
10°-20°	182.9	3.6
20°-30°	283.5	5.6
30°-40°	420.5	8.3
40°-50°	646.9	12.8
50°-60°	956.1	18.9
60°-70°	1274.5	25.2
70°-80°	1100.1	21.8
80°-90°	118.3	2.3
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°	5054.6	100.0
0°-180°	5054.6	100.0



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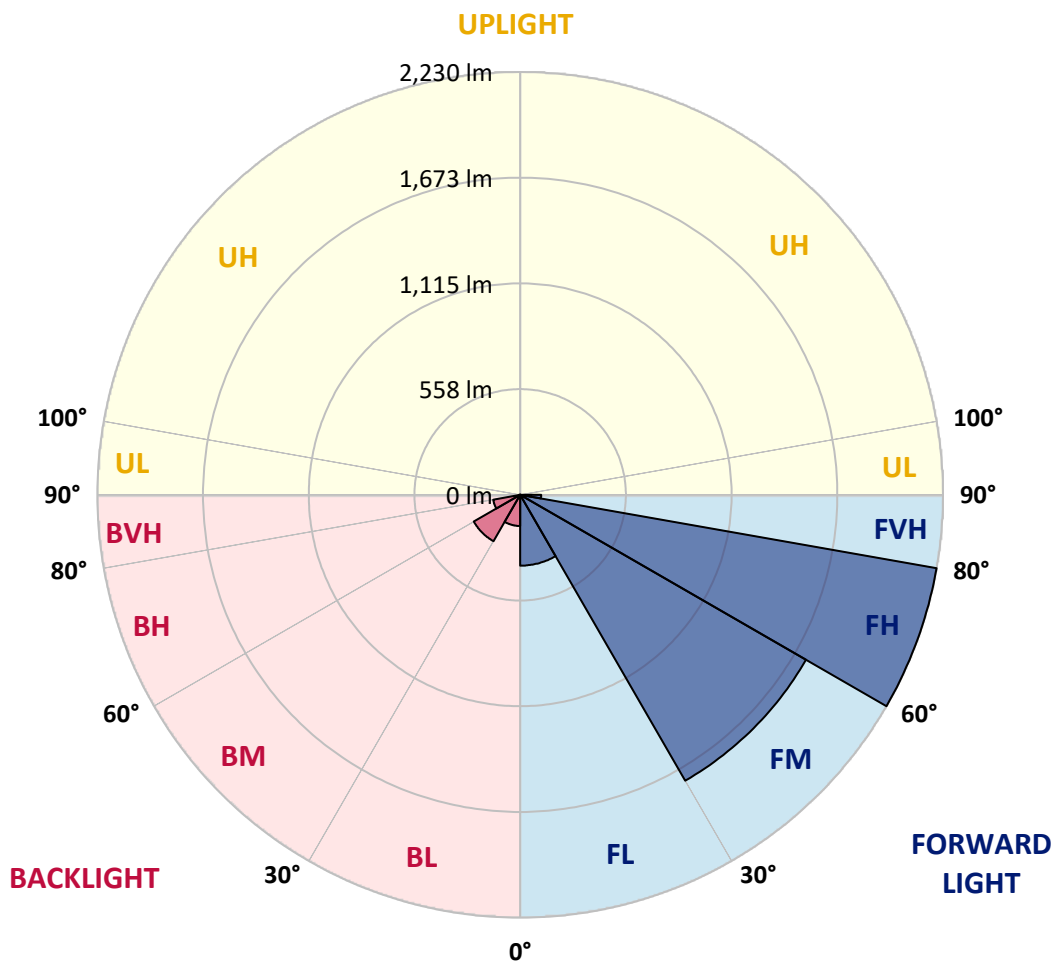
CATALOG NUMBER: ISC-AF-1200-LED-E1-SL4-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.7	7.4			
FM	(30°-60°)	1740.9	34.4			
FH	(60°-80°)	2230.1	44.1			G2/5000
FVH	(80°-90°)	110.5	2.2			G2/225
BL	(0°-30°)	164.6	3.3	B1/500		
BM	(30°-60°)	282.5	5.6	B1/1000		
BH	(60°-80°)	144.5	2.9	B1/500		G1/500
BVH	(80°-90°)	7.8	0.2			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	872.1	870.2	866.3	864.5	860.7	855.1	860.7	853.1	849.3	853.1	845.7
5°	887.2	885.2	881.5	873.9	870.2	860.7	866.3	856.9	855.1	858.8	849.3
7.5°	889.1	885.2	879.6	870.2	866.3	855.1	858.8	847.6	843.7	847.6	841.8
10°	883.3	881.5	875.8	860.7	856.9	853.1	851.2	843.7	841.8	839.9	838.1
12.5°	873.9	873.9	870.2	864.5	862.6	855.1	856.9	849.3	851.2	847.6	843.7
15°	870.2	868.2	872.1	875.8	875.8	864.5	872.1	866.3	862.6	864.5	858.8
17.5°	866.3	868.2	881.5	889.1	892.7	881.5	892.7	881.5	873.9	883.3	873.9
20°	864.5	870.2	892.7	909.7	911.7	892.7	911.7	892.7	892.7	904.1	887.2
22.5°	873.9	883.3	915.5	934.2	938.1	913.6	936.2	911.7	911.7	921.1	904.1
25°	904.1	913.6	949.4	970.2	966.4	940.0	960.7	936.2	934.2	945.6	923.0
27.5°	943.8	957.0	990.9	1009.9	996.6	960.7	990.9	955.1	955.1	972.1	941.9
30°	1000.4	1009.9	1040.0	1041.9	1024.9	981.5	1015.4	975.8	970.2	1000.4	962.6
32.5°	1062.7	1070.2	1092.9	1079.7	1055.1	1009.9	1049.4	1002.3	1000.4	1032.4	989.0
35°	1128.7	1136.3	1143.8	1121.2	1098.4	1049.4	1092.9	1045.6	1043.8	1079.7	1038.1
37.5°	1196.7	1196.7	1196.7	1170.2	1155.1	1108.0	1147.7	1109.9	1106.0	1143.8	1104.2
40°	1251.4	1255.2	1249.5	1225.0	1217.5	1183.4	1217.5	1183.4	1189.2	1223.1	1191.1
42.5°	1296.7	1300.5	1302.4	1281.6	1289.2	1270.3	1296.7	1272.2	1274.1	1311.9	1292.9
45°	1342.0	1340.1	1355.3	1349.5	1372.3	1374.0	1389.2	1379.8	1383.5	1411.9	1406.2
47.5°	1389.2	1379.8	1396.8	1421.3	1462.8	1476.1	1485.4	1489.2	1504.3	1517.6	1530.7
50°	1434.5	1425.0	1436.4	1491.2	1557.2	1585.5	1587.3	1606.3	1623.2	1642.1	1668.5
52.5°	1481.7	1474.1	1485.4	1562.8	1668.5	1708.1	1702.5	1734.5	1759.2	1779.9	1823.3
55°	1530.7	1523.2	1534.6	1649.6	1787.4	1842.2	1836.6	1881.8	1929.0	1936.6	1985.6
57.5°	1578.0	1568.5	1600.6	1751.5	1929.0	2012.0	1985.6	2055.5	2100.8	2097.0	2164.9
60°	1628.9	1621.4	1672.4	1876.2	2106.4	2214.1	2174.3	2267.0	2298.9	2285.7	2350.0
62.5°	1677.9	1676.1	1761.0	2021.5	2321.6	2425.4	2389.6	2470.7	2493.3	2476.4	2508.4
65°	1723.3	1734.5	1857.2	2166.8	2529.3	2648.1	2599.1	2680.3	2706.6	2693.5	2748.2
67.5°	1798.8	1812.0	1976.2	2351.9	2785.9	2908.6	2867.1	2952.0	2991.6	2987.9	3048.3
70°	1910.2	1934.7	2151.7	2614.2	3176.7	3333.3	3310.6	3414.5	3510.8	3503.2	3563.6
72.5°	2104.5	2144.3	2440.5	3021.9	3818.3	4009.0	3982.6	4041.1	4024.1	3886.3	3774.9
74°	2066.8	2115.9	2512.3	3235.2	4107.2	4228.1	4184.6	4186.6	4031.8	3822.2	3642.9
75°	1929.0	1980.0	2408.4	3208.7	4086.4	4152.4	4090.3	4012.8	3825.9	3612.6	3391.8
77.5°	1323.1	1389.2	1770.5	2591.5	3290.0	3199.3	3184.2	3037.0	2789.8	2550.0	2267.0
80°	677.6	724.8	915.5	1355.3	1951.7	1861.1	1891.3	1772.4	1566.6	1393.0	1104.2
82.5°	162.3	173.6	269.9	524.7	845.7	773.9	785.2	694.6	575.6	470.0	364.4
85°	84.9	96.3	132.1	145.3	222.7	230.2	224.6	217.1	177.4	149.1	130.3
87.5°	0.0	0.0	0.0	3.8	1.9	0.0	1.9	0.0	0.0	1.9	3.8
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):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	851.2	847.6	851.2	839.9	845.7	836.1	839.9	830.6	834.3	826.7	828.6
5°	855.1	845.7	851.2	841.8	843.7	836.1	834.3	830.6	828.6	822.9	819.2
7.5°	845.7	838.1	836.1	832.4	826.7	828.6	821.1	819.2	813.5	813.5	802.2
10°	836.1	838.1	826.7	830.6	821.1	822.9	809.7	813.5	804.1	811.6	794.6
12.5°	843.7	845.7	836.1	841.8	824.8	828.6	817.3	822.9	809.7	819.2	798.4
15°	860.7	858.8	855.1	855.1	838.1	845.7	832.4	836.1	822.9	834.3	811.6
17.5°	875.8	873.9	868.2	866.3	855.1	856.9	843.7	851.2	836.1	845.7	822.9
20°	892.7	883.3	881.5	879.6	866.3	866.3	856.9	860.7	845.7	856.9	830.6
22.5°	906.0	898.5	896.6	889.1	879.6	883.3	870.2	872.1	856.9	868.2	845.7
25°	926.7	917.3	917.3	906.0	900.3	898.5	890.8	896.6	881.5	889.1	868.2
27.5°	955.1	934.2	941.9	930.6	926.7	924.9	921.1	924.9	913.6	919.2	898.5
30°	981.5	955.1	966.4	951.2	958.9	951.2	957.0	951.2	951.2	951.2	941.9
32.5°	1017.4	985.4	1007.9	985.4	1000.4	989.0	1007.9	996.6	1004.1	1002.3	998.5
35°	1068.4	1030.5	1062.7	1032.4	1058.9	1043.8	1070.2	1064.5	1079.7	1072.0	1079.7
37.5°	1136.3	1096.7	1134.4	1106.0	1138.2	1115.5	1153.2	1149.5	1181.6	1170.2	1181.6
40°	1221.2	1192.9	1221.2	1200.5	1234.5	1225.0	1264.6	1266.5	1302.4	1296.7	1309.9
42.5°	1315.6	1294.9	1323.1	1311.9	1345.8	1353.4	1398.6	1410.0	1443.9	1453.4	1455.3
45°	1417.5	1413.8	1436.4	1447.7	1481.7	1504.3	1544.0	1572.2	1610.0	1630.9	1627.0
47.5°	1536.4	1551.6	1566.6	1594.9	1625.1	1672.4	1712.0	1747.8	1791.2	1804.4	1810.2
50°	1670.5	1696.9	1710.0	1749.7	1779.9	1838.4	1893.2	1938.5	1985.6	1980.0	1983.7
52.5°	1812.0	1845.9	1864.8	1912.0	1951.7	2019.6	2066.8	2110.2	2168.8	2153.7	2147.9
55°	1968.6	2019.6	2034.8	2087.6	2121.5	2191.3	2232.8	2308.5	2333.0	2317.9	2285.7
57.5°	2134.7	2195.2	2212.2	2283.9	2300.9	2376.4	2412.2	2463.2	2483.9	2459.4	2417.9
60°	2323.5	2378.3	2391.5	2455.7	2478.2	2548.1	2574.5	2619.9	2635.0	2574.5	2516.1
62.5°	2512.3	2569.0	2576.4	2633.0	2655.7	2716.1	2746.3	2772.7	2765.3	2676.5	2602.9
65°	2727.4	2782.2	2801.1	2857.7	2870.8	2916.2	2940.7	2910.5	2893.5	2759.5	2676.5
67.5°	3069.1	3127.6	3135.2	3148.3	3146.4	3123.8	3112.4	3008.6	2933.1	2685.9	2567.0
70°	3518.3	3474.8	3389.9	3291.7	3220.1	3091.8	3016.1	2802.9	2644.4	2366.9	2166.8
72.5°	3599.5	3457.8	3248.5	3080.4	2906.7	2704.8	2542.5	2219.7	1996.9	1706.3	1494.9
74°	3369.1	3138.9	2918.1	2682.1	2482.1	2187.6	2023.4	1615.7	1394.9	1100.4	843.7
75°	3091.8	2821.8	2572.7	2272.5	2085.7	1732.7	1578.0	1138.2	917.3	653.1	439.8
77.5°	1972.4	1649.6	1411.9	1064.5	919.2	634.2	464.3	288.7	213.3	186.8	162.3
80°	885.2	630.4	500.2	345.4	288.7	220.8	186.8	150.9	137.8	120.8	115.2
82.5°	283.1	226.6	215.1	192.6	192.6	154.8	132.1	103.8	94.4	81.2	73.6
85°	122.7	115.2	118.9	109.4	111.4	84.9	67.9	50.9	50.9	35.8	32.1
87.5°	3.8	0.0	1.9	0.0	3.8	0.0	1.9	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):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	821.1	824.8	822.9	815.4	813.5	807.8	794.6	796.5	789.0	794.6	785.2
5°	813.5	811.6	804.1	794.6	785.2	773.9	764.5	760.7	753.0	749.4	743.7
7.5°	802.2	794.6	781.4	766.3	753.0	738.0	730.4	717.3	713.4	700.3	698.4
10°	798.4	785.2	770.0	751.3	728.5	705.9	704.0	681.4	679.5	658.7	653.1
12.5°	806.0	789.0	770.0	747.5	721.0	688.9	688.9	655.0	653.1	624.7	615.2
15°	821.1	800.3	775.8	749.4	715.4	675.7	673.8	634.2	630.4	596.5	585.2
17.5°	834.3	806.0	783.3	747.5	707.9	662.5	653.1	613.5	605.9	566.2	551.1
20°	843.7	811.6	785.2	743.7	694.6	641.7	628.5	587.0	570.1	530.4	509.6
22.5°	855.1	824.8	789.0	741.8	687.0	624.7	596.5	558.7	534.1	492.6	464.3
25°	872.1	845.7	802.2	747.5	681.4	607.7	570.1	530.4	496.4	454.9	413.4
27.5°	898.5	872.1	821.1	754.9	679.5	590.7	549.2	500.2	458.7	413.4	366.1
30°	936.2	907.8	853.1	775.8	681.4	577.6	526.6	473.8	424.7	371.9	322.9
32.5°	985.4	962.6	894.7	798.4	688.9	566.2	505.8	445.5	385.0	334.1	290.7
35°	1053.3	1038.1	953.2	841.8	707.9	560.6	485.1	419.0	351.1	300.1	253.0
37.5°	1153.2	1132.5	1038.1	904.1	738.0	556.8	470.0	386.9	322.9	268.1	228.3
40°	1279.7	1251.4	1138.2	979.6	785.2	558.7	456.8	362.4	298.2	239.7	207.6
42.5°	1430.7	1389.2	1260.8	1072.0	832.4	562.5	449.2	339.8	279.4	217.1	192.6
45°	1600.6	1553.3	1406.2	1187.2	900.3	572.0	443.5	320.9	262.3	200.1	183.1
47.5°	1766.7	1719.5	1555.2	1302.4	970.2	588.9	447.4	309.6	251.1	190.6	171.8
50°	1929.0	1880.0	1687.5	1406.2	1030.5	611.6	462.4	311.4	249.2	186.8	166.1
52.5°	2072.5	2012.0	1800.7	1487.3	1073.9	626.7	475.7	317.1	251.1	185.1	164.2
55°	2215.8	2138.5	1891.3	1551.6	1100.4	628.5	475.7	319.0	253.0	185.1	162.3
57.5°	2323.5	2234.8	1961.1	1589.3	1109.9	619.1	464.3	309.6	241.6	183.1	158.6
60°	2391.5	2297.1	2010.1	1613.9	1096.7	579.5	403.9	273.7	213.3	169.9	147.2
62.5°	2448.2	2351.9	2025.3	1572.2	985.4	460.5	315.2	222.7	177.4	150.9	135.9
65°	2461.3	2346.1	1919.6	1389.2	770.0	319.0	228.3	175.5	145.3	133.9	122.7
67.5°	2261.2	2123.4	1613.9	1087.2	524.7	219.0	169.9	143.5	124.5	118.9	115.2
70°	1838.4	1687.5	1181.6	711.5	292.6	152.9	130.3	118.9	107.5	107.5	101.9
72.5°	1185.3	1028.6	605.9	303.9	149.1	117.0	105.7	101.9	92.4	94.4	88.8
74°	605.9	471.9	247.2	160.4	122.7	103.8	94.4	92.4	83.0	84.9	79.3
75°	307.7	243.5	173.6	133.9	113.3	98.2	86.9	86.9	75.5	77.3	71.8
77.5°	143.5	137.8	118.9	105.7	96.3	83.0	71.8	69.9	58.5	62.3	54.8
80°	100.0	100.0	92.4	88.8	79.3	67.9	54.8	54.8	43.4	45.4	39.6
82.5°	56.6	52.8	52.8	60.4	62.3	50.9	39.6	37.8	32.1	32.1	26.4
85°	24.5	28.3	34.0	41.5	45.4	39.6	28.3	26.4	17.0	17.0	9.4
87.5°	0.0	1.9	1.9	3.8	7.5	7.5	0.0	3.8	0.0	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):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	789.0	779.5	785.2	775.8	779.5	770.0	773.9	768.2	762.5	754.9	753.0
5°	738.0	730.4	728.5	719.1	721.0	713.4	705.9	696.5	685.1	670.0	664.4
7.5°	681.4	679.5	666.4	660.6	653.1	645.5	632.2	617.2	594.6	573.7	560.6
10°	632.2	626.7	607.7	598.3	587.0	577.6	558.7	537.9	505.8	473.8	456.8
12.5°	590.7	583.2	558.7	547.3	530.4	519.1	496.4	470.0	424.7	379.4	358.6
15°	556.8	545.5	517.2	500.2	477.4	466.2	441.7	403.9	349.2	302.0	273.7
17.5°	517.2	502.1	471.9	451.1	428.4	407.7	383.1	343.5	281.2	237.8	209.6
20°	473.8	454.9	422.8	394.4	369.9	351.1	326.5	286.9	224.6	190.6	175.5
22.5°	428.4	398.3	369.9	345.4	317.1	298.2	273.7	237.8	190.6	171.8	166.1
25°	381.3	347.4	319.0	294.5	268.1	251.1	230.2	202.0	173.6	168.1	168.1
27.5°	334.1	300.1	273.7	249.2	226.6	215.1	196.3	177.4	164.2	166.1	168.1
30°	290.7	256.6	232.1	213.3	192.6	185.1	169.9	158.6	156.7	162.3	164.2
32.5°	253.0	222.7	200.1	185.1	168.1	164.2	150.9	145.3	150.9	158.6	156.7
35°	220.8	196.3	173.6	164.2	149.1	147.2	137.8	133.9	141.6	150.9	150.9
37.5°	196.3	173.6	156.7	149.1	137.8	135.9	128.4	124.5	130.3	143.5	147.2
40°	175.5	162.3	145.3	137.8	130.3	126.4	122.7	118.9	120.8	137.8	139.7
42.5°	162.3	152.9	137.8	133.9	124.5	122.7	117.0	113.3	115.2	128.4	133.9
45°	152.9	145.3	132.1	130.3	120.8	118.9	113.3	109.4	111.4	122.7	128.4
47.5°	145.3	137.8	126.4	122.7	117.0	115.2	111.4	107.5	107.5	118.9	124.5
50°	141.6	133.9	122.7	118.9	113.3	111.4	107.5	103.8	105.7	115.2	118.9
52.5°	139.7	130.3	120.8	115.2	111.4	107.5	103.8	100.0	101.9	111.4	115.2
55°	139.7	128.4	120.8	115.2	109.4	103.8	101.9	96.3	100.0	107.5	113.3
57.5°	139.7	128.4	120.8	115.2	111.4	105.7	101.9	98.2	100.0	107.5	113.3
60°	135.9	126.4	122.7	117.0	115.2	109.4	107.5	103.8	103.8	113.3	122.7
62.5°	130.3	124.5	122.7	118.9	118.9	115.2	115.2	111.4	111.4	122.7	132.1
65°	122.7	118.9	120.8	118.9	118.9	118.9	117.0	117.0	117.0	126.4	137.8
67.5°	115.2	113.3	115.2	115.2	117.0	115.2	117.0	115.2	115.2	124.5	135.9
70°	103.8	103.8	105.7	103.8	105.7	105.7	107.5	107.5	107.5	113.3	124.5
72.5°	90.5	88.8	90.5	88.8	92.4	88.8	92.4	94.4	92.4	94.4	100.0
74°	81.2	79.3	81.2	79.3	83.0	79.3	81.2	81.2	79.3	64.2	54.8
75°	73.6	71.8	73.6	71.8	75.5	71.8	75.5	73.6	69.9	47.3	45.4
77.5°	58.5	52.8	58.5	52.8	56.6	50.9	54.8	47.3	35.8	34.0	34.0
80°	43.4	37.8	41.5	35.8	34.0	26.4	28.3	26.4	24.5	26.4	26.4
82.5°	26.4	18.9	22.6	17.0	20.8	15.1	18.9	17.0	15.1	15.1	15.1
85°	13.3	9.4	13.3	7.5	11.3	7.5	9.4	9.4	5.7	5.7	5.7
87.5°	1.9	0.0	3.8	0.0	3.8	0.0	1.9	1.9	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°	824.8	824.8
2.5°	747.5	749.4
5°	655.0	660.6
7.5°	553.1	556.8
10°	445.5	449.2
12.5°	343.5	347.4
15°	258.6	254.8
17.5°	198.2	194.4
20°	168.1	168.1
22.5°	164.2	162.3
25°	166.1	164.2
27.5°	166.1	164.2
30°	162.3	160.4
32.5°	156.7	154.8
35°	150.9	150.9
37.5°	147.2	149.1
40°	141.6	143.5
42.5°	135.9	137.8
45°	130.3	132.1
47.5°	124.5	124.5
50°	117.0	117.0
52.5°	115.2	115.2
55°	115.2	115.2
57.5°	118.9	118.9
60°	130.3	132.1
62.5°	152.9	154.8
65°	175.5	179.3
67.5°	177.4	183.1
70°	171.8	177.4
72.5°	118.9	118.9
74°	52.8	50.9
75°	45.4	43.4
77.5°	34.0	34.0
80°	24.5	22.6
82.5°	13.3	13.3
85°	3.8	3.8
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)