

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: P271393

Luminaire Tested: **ISC-AF-800-LED-E1-SL3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-800-LED-E1-SL3-7027  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

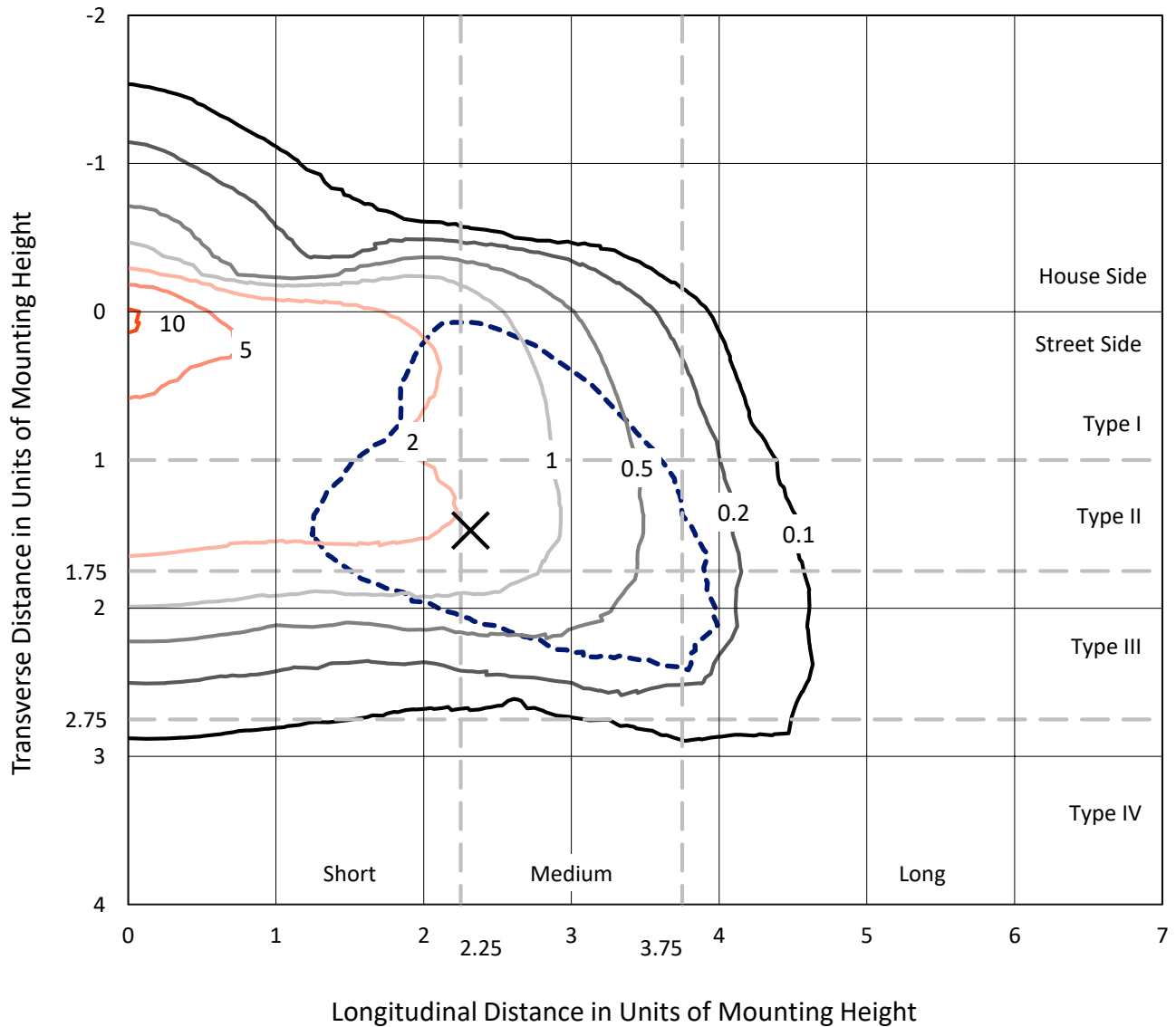
Lumens per Lamp: N/A  
Luminaire Lumens: 3954.4 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input 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

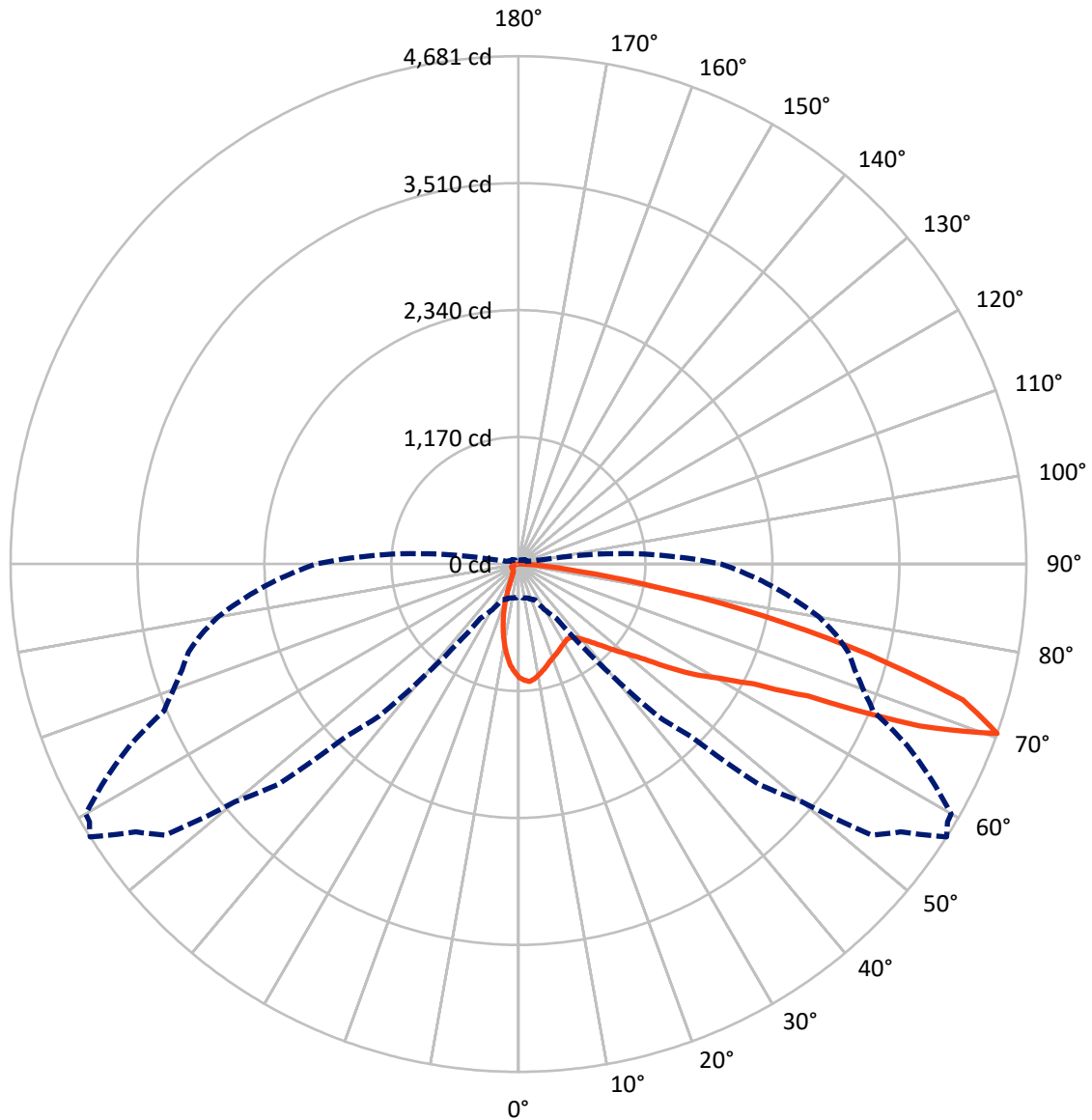
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	489.3	0.0	489.3
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	3465.1	0.0	3465.1
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	3954.4	0.0	3954.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	2.3
10°-20°	196.2	5.0
20°-30°	246.6	6.2
30°-40°	322.2	8.1
40°-50°	483.5	12.2
50°-60°	764.3	19.3
60°-70°	1101.7	27.9
70°-80°	681.8	17.2
80°-90°	67.6	1.7
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°	3954.4	100.0
0°-180°	3954.4	100.0



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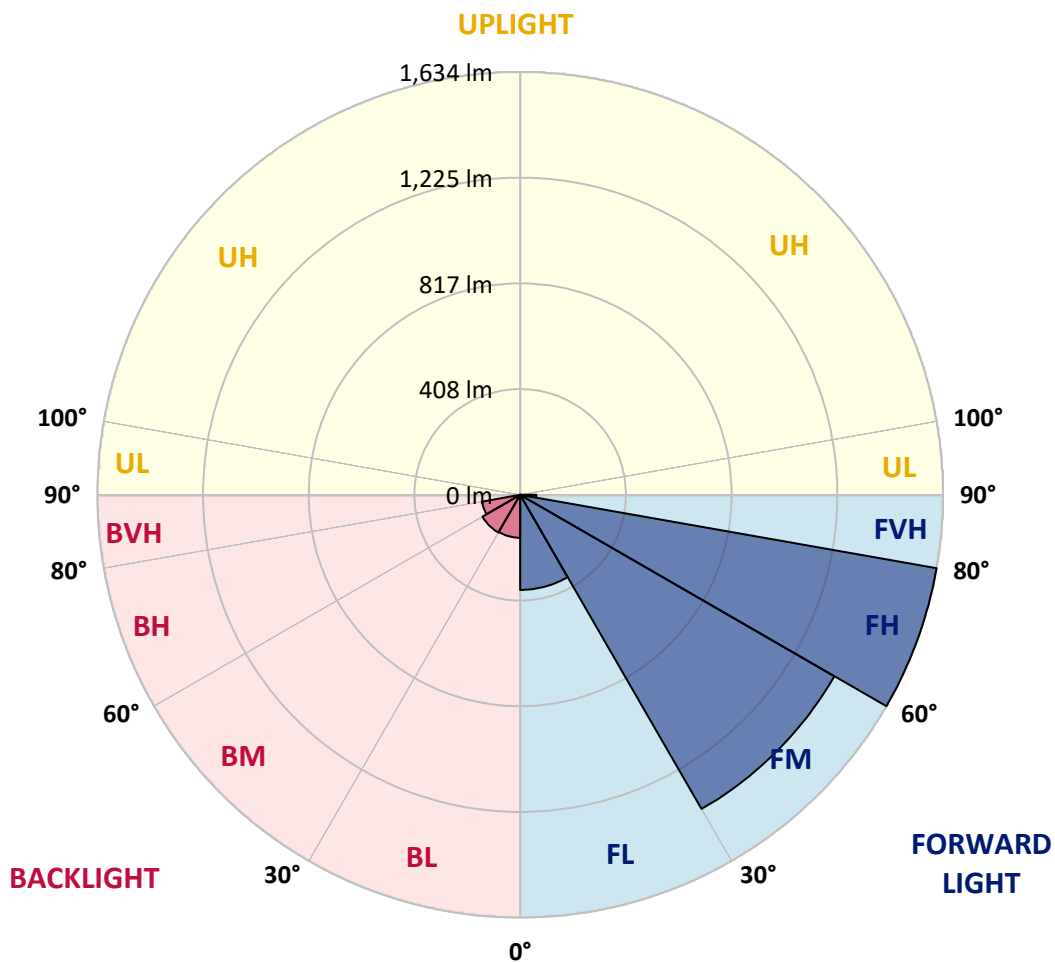
CATALOG NUMBER: ISC-AF-800-LED-E1-SL3-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.3	9.3			
FM	(30°-60°)	1401.8	35.4			
FH	(60°-80°)	1633.8	41.3			G1/1800
FVH	(80°-90°)	62.2	1.6			G1/100
BL	(0°-30°)	165.9	4.2	B1/500		
BM	(30°-60°)	168.3	4.3	B0/220		
BH	(60°-80°)	149.8	3.8	B1/500		G1/500
BVH	(80°-90°)	5.4	0.1			G0/10
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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1098.5	1097.2	1094.3	1088.7	1085.9	1088.7	1085.9	1081.6	1076.1	1080.3	1077.6
5°	1095.8	1098.5	1093.0	1088.7	1095.8	1098.5	1093.0	1093.0	1087.4	1093.0	1090.1
7.5°	1041.0	1042.4	1043.8	1042.4	1060.7	1060.7	1057.8	1060.7	1062.1	1064.9	1066.3
10°	972.2	973.8	976.5	980.7	1003.1	1006.0	1007.4	1010.1	1014.4	1017.2	1025.7
12.5°	903.5	906.4	912.0	926.1	949.9	952.7	956.9	961.1	968.1	972.2	987.8
15°	846.0	847.4	853.0	868.5	903.5	910.5	913.4	919.0	933.0	933.0	949.9
17.5°	792.8	795.4	799.7	818.0	853.0	864.3	872.6	875.5	893.7	897.9	917.6
20°	752.0	753.4	754.8	771.6	803.9	820.8	827.8	838.9	853.0	864.3	881.1
22.5°	729.5	731.0	728.2	735.3	763.2	784.3	792.8	803.9	809.6	829.1	838.9
25°	731.0	732.4	725.4	721.2	735.3	757.6	764.6	775.9	773.1	801.1	801.1
27.5°	745.1	747.7	740.8	728.2	729.5	747.7	752.0	756.2	747.7	775.9	770.3
30°	773.1	775.9	767.4	757.6	742.2	753.4	753.4	753.4	738.0	761.9	752.0
32.5°	802.5	805.3	802.5	795.4	775.9	778.7	773.1	770.3	749.3	768.9	753.4
35°	846.0	847.4	848.8	848.8	820.8	826.4	811.0	802.5	783.0	798.3	777.2
37.5°	897.9	897.9	907.7	912.0	881.1	881.1	864.3	853.0	834.9	840.5	819.3
40°	944.3	948.4	970.9	983.6	955.4	944.3	930.3	920.4	906.4	906.4	885.3
42.5°	997.6	1006.0	1032.6	1056.5	1041.0	1024.2	1010.1	1000.4	993.3	992.0	969.5
45°	1063.5	1073.4	1102.8	1125.3	1129.3	1116.9	1105.5	1095.8	1090.1	1087.4	1067.7
47.5°	1137.8	1147.7	1174.4	1201.0	1220.7	1217.8	1205.2	1195.4	1199.6	1196.8	1184.1
50°	1220.7	1226.3	1243.1	1274.0	1318.8	1328.6	1325.9	1318.8	1327.2	1327.2	1316.1
52.5°	1286.6	1290.8	1303.4	1339.9	1414.2	1436.7	1455.0	1469.0	1483.0	1491.5	1484.4
55°	1346.9	1346.9	1348.4	1394.6	1505.5	1541.9	1582.6	1612.1	1630.3	1664.0	1678.0
57.5°	1445.1	1438.1	1436.7	1485.8	1615.0	1652.8	1711.7	1753.9	1779.0	1847.8	1846.4
60°	1417.1	1420.0	1470.3	1615.0	1839.4	1873.1	1926.3	1971.2	2019.0	2069.4	2073.6
62.5°	1222.1	1229.0	1304.8	1520.9	1982.5	2157.9	2322.0	2446.8	2517.1	2562.0	2500.3
65°	855.8	872.6	975.1	1238.9	1825.4	2096.1	2355.6	2644.7	2866.4	3210.1	3309.7
67.5°	426.5	439.1	456.0	649.7	1363.8	1744.0	2101.8	2496.0	2790.7	3295.7	3577.7
70°	305.9	311.4	324.1	364.8	610.3	913.4	1334.3	1898.3	2244.9	3006.6	3405.1
72.5°	237.2	242.7	259.6	317.1	404.1	446.2	530.4	867.0	1289.3	2076.5	2615.2
75°	183.8	192.1	216.0	286.2	388.7	412.5	416.7	447.5	510.7	921.8	1466.1
77.5°	129.1	130.4	154.3	246.9	377.4	423.7	416.7	416.7	425.1	470.0	627.2
80°	85.6	87.0	102.5	171.1	331.1	385.8	426.5	406.9	408.3	415.3	426.5
82.5°	44.8	47.7	60.4	103.8	193.7	261.0	355.0	370.4	364.8	371.8	369.0
85°	12.7	12.7	21.0	39.3	95.4	101.0	157.1	214.7	218.8	248.3	265.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	5.6	12.7	14.0
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):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1080.3	1074.7	1073.4	1070.5	1071.9	1067.7	1066.3	1060.7	1060.7	1057.8	1055.1
5°	1087.4	1081.6	1087.4	1077.6	1079.0	1074.7	1067.7	1067.7	1062.1	1057.8	1049.5
7.5°	1067.7	1067.7	1069.2	1063.5	1064.9	1063.5	1055.1	1053.7	1045.3	1045.3	1035.5
10°	1031.3	1031.3	1036.8	1032.6	1033.9	1032.6	1028.4	1027.0	1024.2	1024.2	1008.8
12.5°	989.1	997.6	1006.0	1001.8	1001.8	1004.6	1004.6	1006.0	1004.6	1003.1	990.5
15°	954.1	966.7	975.1	973.8	975.1	982.2	984.9	986.2	990.5	989.1	978.0
17.5°	921.8	935.9	942.8	948.4	952.7	958.2	966.7	970.9	976.5	975.1	963.9
20°	892.4	905.0	917.6	924.5	926.1	937.2	947.0	959.7	962.4	965.3	951.2
22.5°	861.5	872.6	897.9	893.7	903.5	924.5	930.3	948.4	948.4	958.2	938.5
25°	834.9	836.2	875.5	868.5	876.8	914.7	919.0	951.2	942.8	956.9	934.3
27.5°	808.1	806.8	854.5	846.0	855.8	907.7	910.5	955.4	947.0	963.9	934.3
30°	788.5	784.3	838.9	822.2	836.2	900.7	902.2	959.7	952.7	975.1	944.3
32.5°	784.3	777.2	824.9	812.3	826.4	893.7	902.2	975.1	966.7	994.7	955.4
35°	802.5	791.2	832.0	820.8	832.0	896.6	909.2	998.9	989.1	1021.5	982.2
37.5°	836.2	827.8	861.5	850.2	858.7	916.2	927.4	1029.9	1028.4	1067.7	1022.8
40°	895.1	886.6	913.4	897.9	905.0	958.2	963.9	1073.4	1077.6	1125.3	1080.3
42.5°	975.1	961.1	982.2	963.9	973.8	1021.5	1015.8	1126.7	1139.3	1205.2	1153.2
45°	1077.6	1059.3	1071.9	1052.3	1059.3	1100.0	1084.5	1198.2	1210.8	1292.2	1245.9
47.5°	1189.7	1167.3	1182.8	1157.5	1161.7	1205.2	1177.2	1283.8	1303.4	1405.8	1360.9
50°	1324.4	1295.0	1300.6	1276.7	1279.5	1323.0	1292.2	1389.0	1412.9	1526.5	1487.2
52.5°	1497.0	1455.0	1455.0	1422.6	1424.0	1467.7	1429.7	1513.8	1540.5	1655.6	1629.0
55°	1724.4	1690.6	1683.6	1650.0	1638.8	1647.1	1593.9	1652.8	1682.3	1790.2	1769.2
57.5°	1905.3	1901.2	1922.1	1874.4	1863.3	1866.0	1798.7	1802.9	1836.6	1920.8	1927.8
60°	2125.6	2132.6	2135.5	2096.1	2092.0	2052.6	1983.9	1972.7	2014.8	2072.3	2094.7
62.5°	2476.4	2469.4	2434.2	2404.9	2378.2	2272.9	2235.1	2173.3	2232.2	2264.4	2310.8
65°	3229.8	3156.8	2932.3	2952.0	2881.9	2653.1	2620.9	2496.0	2588.6	2590.0	2676.9
67.5°	3976.2	4119.3	3981.7	3984.6	3826.0	3412.1	3312.6	3064.2	3116.1	3055.9	3100.7
70°	4103.9	4304.5	4680.5	4613.2	4604.7	4286.3	3950.9	3537.1	3381.3	3252.2	3148.4
72.5°	3531.5	3732.1	4283.5	4130.6	4188.1	4284.8	3935.6	3625.4	3277.5	3113.3	2888.8
75°	2484.7	2773.8	3333.6	3253.6	3295.7	3455.7	3155.4	3118.9	2716.3	2606.8	2261.8
77.5°	1331.5	1689.3	2316.4	2218.2	2236.4	2327.6	2014.8	1950.2	1561.5	1453.5	1062.1
80°	599.1	830.7	1300.6	1191.2	1158.9	1107.0	815.1	642.6	392.9	261.0	181.0
82.5°	397.1	412.5	576.6	499.5	467.2	385.8	249.8	147.3	116.4	98.3	94.1
85°	266.5	244.1	242.7	214.7	199.2	157.1	116.4	72.9	60.4	50.6	46.4
87.5°	15.5	9.8	14.0	15.5	11.2	9.8	7.0	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):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1048.1	1048.1	1046.6	1036.8	1031.3	1028.4	1018.6	1017.2	1013.0	1011.6	1011.6
5°	1046.6	1041.0	1033.9	1019.9	1006.0	993.3	989.1	979.3	972.2	963.9	963.9
7.5°	1027.0	1021.5	1006.0	984.9	966.7	948.4	938.5	924.5	913.4	902.2	899.3
10°	1004.6	996.1	975.1	947.0	923.2	890.8	878.4	860.0	847.4	830.7	813.8
12.5°	980.7	975.1	949.9	917.6	881.1	840.5	820.8	795.4	778.7	759.1	733.7
15°	970.9	959.7	927.4	886.6	841.8	792.8	764.6	738.0	712.7	690.3	656.6
17.5°	958.2	944.3	907.7	860.0	803.9	745.1	708.5	679.1	645.4	621.5	583.7
20°	944.3	923.2	883.9	826.4	763.2	693.1	646.8	617.3	572.4	548.5	503.7
22.5°	933.0	906.4	858.7	794.1	718.4	639.9	585.1	551.4	500.9	472.8	416.7
25°	930.3	897.9	840.5	767.4	680.5	587.9	521.9	488.3	425.1	392.9	326.9
27.5°	931.6	893.7	829.1	745.1	646.8	541.6	463.0	423.7	343.7	310.1	234.3
30°	933.0	895.1	818.0	725.4	616.0	493.9	401.3	355.0	259.6	230.1	162.8
32.5°	947.0	900.7	815.1	709.9	587.9	446.2	331.1	289.1	183.8	166.9	120.6
35°	963.9	919.0	820.8	707.1	566.8	398.5	259.6	216.0	131.9	127.6	98.3
37.5°	998.9	947.0	843.1	714.2	554.3	349.4	193.7	165.6	103.8	106.6	85.6
40°	1052.3	994.7	879.7	735.3	552.7	300.2	143.1	129.1	89.8	92.5	78.6
42.5°	1123.8	1060.7	935.9	780.1	559.8	254.0	115.1	110.9	82.7	85.6	75.7
45°	1217.8	1153.2	1014.4	837.6	579.5	216.0	101.0	101.0	79.9	82.7	74.4
47.5°	1337.0	1265.5	1111.2	914.7	610.3	195.0	95.4	96.7	78.6	82.7	74.4
50°	1471.7	1393.2	1234.7	1014.4	658.0	189.5	96.7	96.7	79.9	82.7	74.4
52.5°	1612.1	1539.2	1368.0	1128.0	723.9	202.0	99.6	98.3	79.9	82.7	72.9
55°	1755.2	1689.3	1515.4	1261.3	815.1	246.9	106.6	102.5	79.9	82.7	74.4
57.5°	1898.3	1851.9	1669.6	1404.4	928.8	328.3	134.7	119.3	88.4	89.8	75.7
60°	2059.6	2025.9	1843.6	1592.4	1090.1	454.6	197.9	150.2	105.2	99.6	81.4
62.5°	2268.7	2260.2	2115.8	1863.3	1349.7	637.0	280.6	182.4	113.6	103.8	87.0
65°	2637.7	2660.2	2522.6	2180.3	1522.3	641.2	273.6	160.0	106.6	98.3	85.6
67.5°	3008.2	2942.2	2588.6	2132.6	1373.6	426.5	174.0	124.9	94.1	91.2	79.9
70°	2994.1	2814.5	2347.3	1864.6	1084.5	231.5	126.3	103.8	84.2	84.2	75.7
72.5°	2685.4	2418.9	1919.4	1475.9	723.9	147.3	106.6	91.2	77.2	75.7	70.2
75°	2021.7	1707.5	1233.2	850.2	322.7	95.4	81.4	74.4	67.4	67.4	61.7
77.5°	951.2	536.0	297.5	197.9	108.1	64.6	56.1	56.1	54.8	56.1	50.6
80°	129.1	116.4	99.6	87.0	65.9	44.8	40.7	42.1	40.7	42.1	37.9
82.5°	78.6	70.2	57.5	54.8	40.7	30.8	29.5	30.8	28.0	29.5	22.5
85°	37.9	33.7	26.7	25.2	21.0	18.2	15.5	18.2	14.0	15.5	9.8
87.5°	0.0	2.9	1.3	2.9	2.9	2.9	0.0	2.9	0.0	2.9	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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1004.6	1000.4	998.9	993.3	992.0	986.2	984.9	979.3	969.5	965.3	958.2
5°	951.2	944.3	938.5	935.9	924.5	919.0	910.5	899.3	878.4	868.5	851.6
7.5°	876.8	875.5	858.7	853.0	838.9	829.1	816.6	798.3	767.4	749.3	722.6
10°	795.4	789.9	770.3	759.1	740.8	726.8	709.9	683.3	635.6	597.7	556.9
12.5°	719.7	702.9	680.5	663.7	641.2	621.5	602.0	561.2	485.4	423.7	367.6
15°	641.2	616.0	592.1	564.0	540.2	509.2	486.8	433.5	333.9	258.2	223.0
17.5°	561.2	526.1	499.5	461.5	434.9	392.9	369.0	304.4	218.8	185.2	174.0
20°	477.0	430.7	401.3	355.0	328.3	275.0	256.7	210.5	168.3	155.8	152.9
22.5°	387.2	331.1	298.9	248.3	230.1	197.9	183.8	161.3	141.8	136.1	138.9
25°	293.3	232.9	211.9	175.3	168.3	151.5	146.0	134.7	124.9	124.9	129.1
27.5°	209.0	162.8	157.1	134.7	133.3	124.9	120.6	115.1	112.3	115.1	120.6
30°	152.9	123.4	123.4	110.9	110.9	105.2	103.8	101.0	101.0	106.6	112.3
32.5°	120.6	101.0	103.8	94.1	95.4	91.2	92.5	91.2	92.5	96.7	101.0
35°	101.0	87.0	91.2	82.7	85.6	81.4	84.2	84.2	87.0	88.4	89.8
37.5°	89.8	79.9	82.7	77.2	79.9	75.7	79.9	79.9	81.4	81.4	81.4
40°	82.7	74.4	78.6	72.9	77.2	72.9	77.2	77.2	75.7	74.4	75.7
42.5°	78.6	72.9	77.2	71.5	75.7	71.5	74.4	72.9	70.2	70.2	70.2
45°	77.2	71.5	74.4	70.2	72.9	68.7	71.5	70.2	65.9	64.6	67.4
47.5°	77.2	70.2	74.4	68.7	71.5	67.4	70.2	65.9	61.7	61.7	65.9
50°	77.2	70.2	74.4	68.7	71.5	65.9	67.4	63.2	57.5	58.9	64.6
52.5°	78.6	72.9	75.7	70.2	71.5	63.2	65.9	60.4	56.1	57.5	61.7
55°	79.9	72.9	75.7	67.4	68.7	63.2	63.2	60.4	56.1	56.1	60.4
57.5°	79.9	71.5	72.9	65.9	67.4	60.4	61.7	58.9	54.8	53.3	56.1
60°	82.7	74.4	74.4	64.6	65.9	58.9	60.4	57.5	53.3	50.6	51.9
62.5°	85.6	75.7	77.2	67.4	67.4	60.4	61.7	56.1	50.6	47.7	49.0
65°	85.6	75.7	77.2	68.7	68.7	61.7	61.7	56.1	47.7	44.8	44.8
67.5°	81.4	74.4	75.7	68.7	68.7	61.7	61.7	54.8	46.4	42.1	40.7
70°	78.6	71.5	72.9	64.6	65.9	58.9	58.9	51.9	43.5	39.3	36.5
72.5°	71.5	65.9	65.9	60.4	58.9	51.9	51.9	47.7	40.7	35.0	32.2
75°	61.7	56.1	54.8	49.0	49.0	44.8	43.5	39.3	33.7	29.5	28.0
77.5°	50.6	43.5	43.5	36.5	36.5	32.2	33.7	29.5	25.2	23.9	22.5
80°	36.5	29.5	29.5	23.9	23.9	19.7	21.0	19.7	18.2	18.2	16.9
82.5°	22.5	15.5	16.9	12.7	15.5	11.2	12.7	11.2	11.2	9.8	9.8
85°	11.2	5.6	8.4	4.2	7.0	1.3	4.2	2.9	2.9	2.9	2.9
87.5°	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	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°	1046.6	1046.6
2.5°	951.2	955.4
5°	846.0	847.4
7.5°	718.4	715.5
10°	548.5	541.6
12.5°	353.6	343.7
15°	213.3	210.5
17.5°	171.1	171.1
20°	152.9	152.9
22.5°	141.8	141.8
25°	133.3	134.7
27.5°	126.3	126.3
30°	117.9	117.9
32.5°	103.8	103.8
35°	92.5	91.2
37.5°	82.7	84.2
40°	75.7	77.2
42.5°	72.9	72.9
45°	70.2	70.2
47.5°	70.2	70.2
50°	68.7	70.2
52.5°	67.4	67.4
55°	63.2	64.6
57.5°	58.9	60.4
60°	54.8	54.8
62.5°	49.0	49.0
65°	44.8	44.8
67.5°	39.3	39.3
70°	35.0	35.0
72.5°	30.8	30.8
75°	26.7	26.7
77.5°	22.5	21.0
80°	16.9	16.9
82.5°	9.8	9.8
85°	2.9	2.9
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)