

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: P271511

Luminaire Tested: **ISS-AF-600-LED-E1-RW-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-600-LED-E1-RW-7027  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3387.1 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

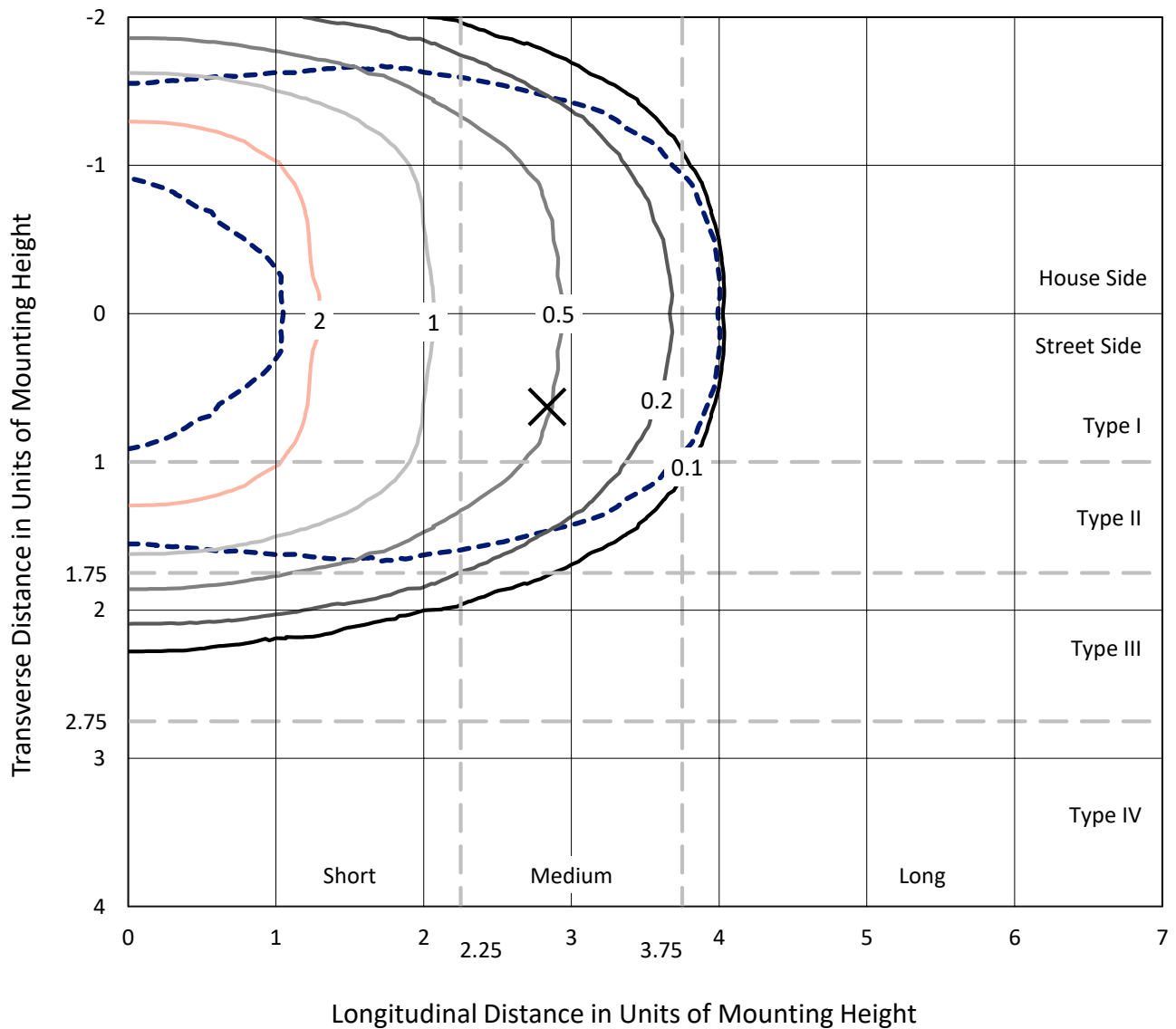
Input Watts (W): 33.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

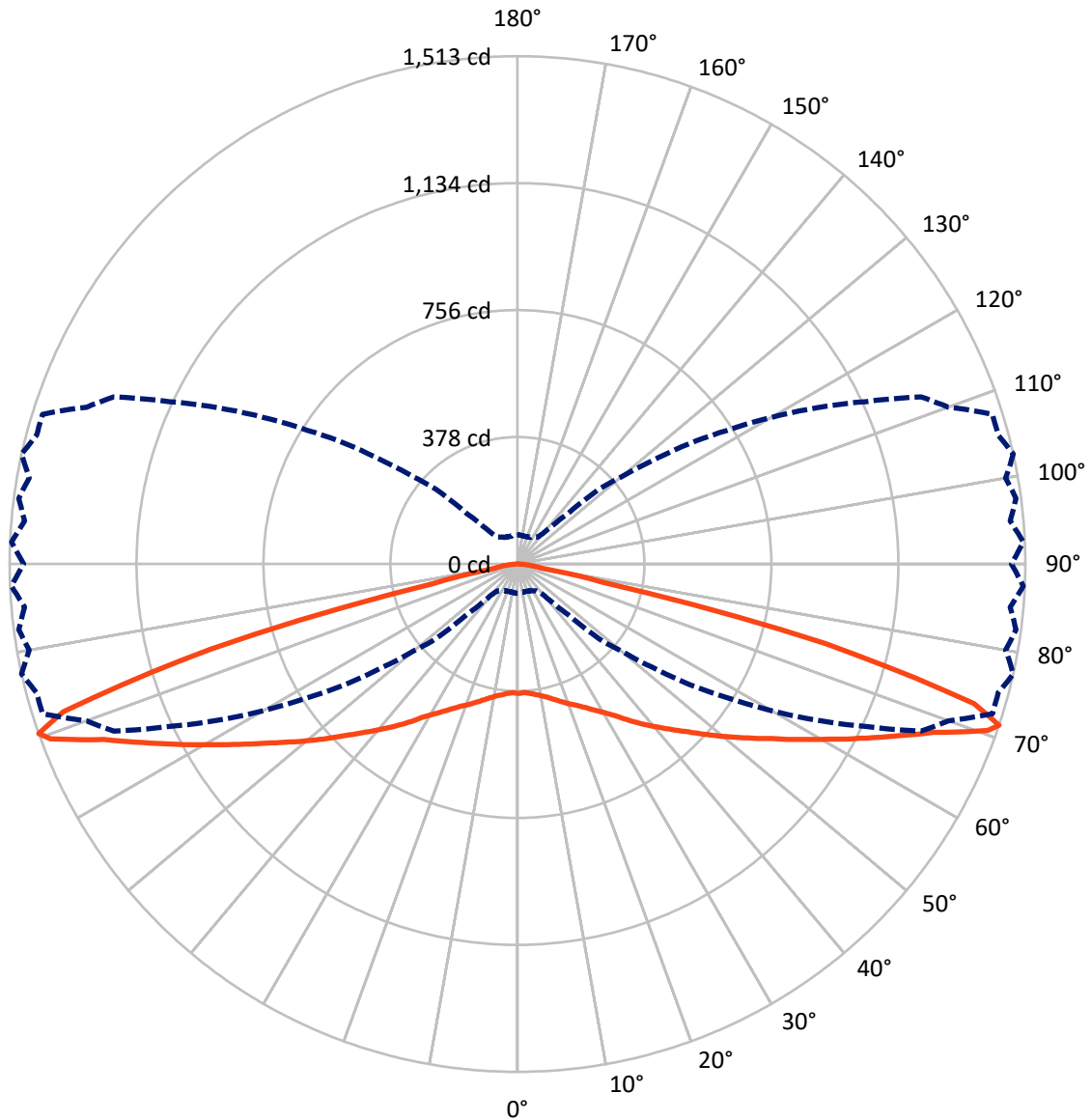
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1693.5	0.0	1693.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1693.5	0.0	1693.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3387.1	0.0	3387.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.3	1.1
10°-20°	116.4	3.4
20°-30°	217.9	6.4
30°-40°	379.2	11.2
40°-50°	618.8	18.3
50°-60°	853.9	25.2
60°-70°	810.0	23.9
70°-80°	333.4	9.8
80°-90°	20.1	0.6
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°	3387.1	100.0
0°-180°	3387.1	100.0



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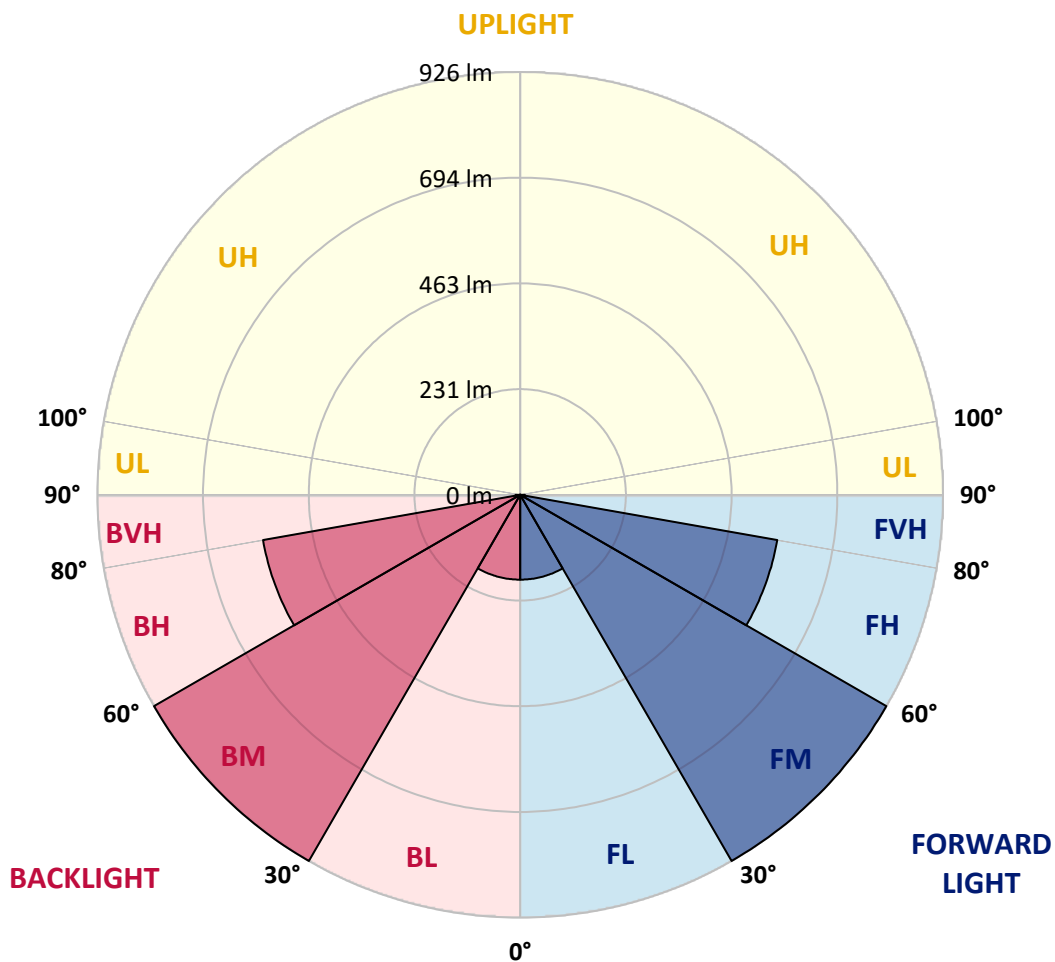
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	185.8	5.5			
FM	(30°-60°)	926.0	27.3			
FH	(60°-80°)	571.7	16.9			G0/660
FVH	(80°-90°)	10.1	0.3			G1/100
BL	(0°-30°)	185.8	5.5	B1/500		
BM	(30°-60°)	926.0	27.3	B1/1000		
BH	(60°-80°)	571.7	16.9	B2/1000		G2/1000
BVH	(80°-90°)	10.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-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°	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7
2.5°	384.6	383.5	384.6	384.6	385.7	385.7	385.7	385.7	384.6	386.8	386.8
5°	384.6	384.6	385.7	385.7	387.9	390.1	386.8	387.9	389.1	387.9	390.1
7.5°	384.6	384.6	384.6	386.8	390.1	392.4	390.1	391.3	393.5	393.5	395.7
10°	381.2	380.1	382.3	386.8	392.4	395.7	394.6	399.2	397.9	399.2	401.4
12.5°	375.6	375.6	380.1	386.8	396.9	399.2	400.3	402.5	405.9	404.8	408.1
15°	376.7	377.8	382.3	391.3	403.6	405.9	407.0	407.0	412.6	410.3	417.0
17.5°	384.6	385.7	390.1	399.2	413.7	413.7	414.8	417.0	424.9	420.5	429.4
20°	396.9	397.9	402.5	412.6	426.1	424.9	427.1	429.4	439.5	435.0	444.0
22.5°	411.4	413.7	419.3	430.6	445.1	438.4	442.9	447.4	457.5	449.6	461.9
25°	431.6	435.0	440.6	452.9	468.6	460.8	465.3	468.6	479.9	468.6	481.0
27.5°	460.8	463.1	467.5	481.0	494.4	488.9	491.0	493.3	506.7	494.4	507.9
30°	495.5	498.9	503.4	515.8	529.2	520.2	524.7	526.9	538.2	525.8	537.1
32.5°	539.3	542.7	548.2	559.5	570.6	557.2	558.4	561.7	572.8	560.6	572.8
35°	590.8	593.2	601.0	614.4	622.3	601.0	602.0	602.0	616.7	599.8	613.3
37.5°	644.6	646.9	655.9	669.3	678.3	654.8	654.8	655.9	669.3	650.2	662.6
40°	700.7	707.4	717.6	731.0	737.7	710.8	713.1	712.0	727.6	705.2	717.6
42.5°	756.8	762.4	776.9	792.7	800.5	773.6	774.7	771.4	787.1	763.5	773.6
45°	805.0	809.6	827.4	849.9	862.1	834.2	834.2	834.2	849.9	820.7	833.0
47.5°	844.2	847.6	866.7	899.1	919.3	891.3	893.5	889.1	912.6	876.7	893.5
50°	872.3	873.4	898.0	935.0	969.8	944.0	947.4	949.6	972.1	940.6	955.3
52.5°	881.2	883.4	911.5	956.3	1006.8	990.0	1002.3	1006.8	1027.0	993.3	1013.6
55°	849.9	855.5	898.0	964.2	1032.6	1027.0	1041.6	1050.6	1076.3	1048.3	1069.6
57.5°	744.4	751.3	810.6	919.3	1038.2	1047.2	1067.4	1081.9	1118.9	1102.1	1125.7
60°	594.2	599.8	660.3	791.6	967.6	1022.5	1068.4	1109.9	1148.0	1151.4	1181.7
62.5°	408.1	415.9	474.2	599.8	814.0	886.9	953.0	1021.5	1085.3	1162.7	1201.9
65°	199.5	204.1	253.4	374.4	597.6	690.7	768.1	864.3	923.9	1034.8	1098.8
67.5°	109.9	109.9	117.7	155.9	319.5	411.4	494.4	615.5	676.1	812.9	894.7
70°	92.0	92.0	89.7	95.3	121.1	143.5	186.1	255.6	339.6	477.6	551.6
71°	87.5	86.3	85.2	87.5	97.6	102.0	119.9	156.9	213.0	329.6	402.5
72.5°	81.8	79.6	76.3	77.3	82.9	82.9	86.3	92.0	113.3	154.7	207.4
75°	70.7	68.5	65.0	65.0	66.1	67.2	68.5	70.7	71.8	74.0	82.9
77.5°	58.3	56.1	52.7	52.7	51.6	52.7	55.0	56.1	53.8	58.3	59.4
80°	44.8	41.5	40.3	40.3	39.3	38.1	38.1	38.1	39.3	41.5	42.6
82.5°	28.0	25.8	26.9	25.8	24.6	24.6	24.6	24.6	25.8	25.8	28.0
85°	13.5	13.5	14.6	13.5	11.2	11.2	10.2	8.9	10.2	8.9	11.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	77.5°
0°	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7
2.5°	383.5	385.7	384.6	385.7	383.5	385.7	382.3	385.7	384.6	385.7	383.5
5°	386.8	390.1	386.8	391.3	386.8	391.3	386.8	391.3	387.9	391.3	386.8
7.5°	390.1	396.9	392.4	397.9	392.4	399.2	392.4	399.2	394.6	400.3	392.4
10°	396.9	404.8	397.9	404.8	397.9	405.9	397.9	407.0	400.3	409.2	399.2
12.5°	402.5	411.4	404.8	413.7	403.6	415.9	405.9	419.3	408.1	421.6	408.1
15°	410.3	421.6	414.8	424.9	414.8	428.3	415.9	431.6	419.3	433.9	419.3
17.5°	421.6	433.9	424.9	437.3	426.1	440.6	427.1	444.0	431.6	446.2	431.6
20°	437.3	447.4	438.4	451.8	439.5	452.9	441.8	455.2	445.1	458.6	445.1
22.5°	455.2	464.2	457.5	465.3	454.0	465.3	454.0	465.3	457.5	468.6	457.5
25°	475.3	482.1	474.2	482.1	472.0	481.0	470.9	479.9	472.0	482.1	474.2
27.5°	502.3	505.7	496.7	503.4	491.0	500.1	488.9	497.8	489.9	498.9	493.3
30°	531.4	534.9	525.8	530.3	516.9	522.5	510.1	518.1	511.2	518.1	514.5
32.5°	564.0	568.4	558.4	560.6	549.3	550.5	540.4	543.7	538.2	540.4	539.3
35°	601.0	606.5	595.4	598.7	586.3	586.3	577.4	576.4	574.1	571.8	571.8
37.5°	648.0	650.2	641.3	641.3	626.7	626.7	615.5	615.5	611.0	606.5	604.3
40°	699.6	700.7	686.1	685.0	670.5	670.5	658.1	654.8	646.9	641.3	638.0
42.5°	754.6	753.4	732.1	734.4	713.1	714.2	698.5	695.1	687.2	680.6	673.8
45°	810.6	806.0	784.8	783.7	759.0	760.1	741.1	738.9	727.6	720.9	713.1
47.5°	867.9	865.6	842.0	836.4	810.6	809.6	784.8	784.8	773.6	766.8	759.0
50°	927.2	926.2	899.1	895.8	868.9	864.3	835.2	835.2	821.8	819.5	808.4
52.5°	992.3	987.8	958.6	957.4	931.7	928.3	897.0	894.7	874.5	873.4	861.0
55°	1056.1	1048.3	1029.2	1020.3	994.4	993.3	965.3	959.7	934.0	934.0	918.2
57.5°	1114.4	1107.7	1092.0	1084.2	1059.6	1056.1	1025.9	1025.9	1003.5	1002.3	985.5
60°	1174.9	1177.2	1160.4	1157.1	1133.5	1132.3	1102.1	1102.1	1079.8	1078.5	1059.6
62.5°	1226.5	1248.9	1242.3	1244.5	1224.3	1221.0	1190.6	1188.5	1162.7	1159.4	1143.6
65°	1176.2	1254.7	1305.1	1338.7	1336.4	1335.3	1306.1	1301.6	1269.1	1260.2	1234.5
67.5°	987.8	1089.7	1181.7	1282.6	1356.6	1412.7	1429.6	1422.7	1394.7	1368.9	1337.6
70°	661.5	779.2	895.8	1021.5	1148.0	1271.4	1398.1	1453.0	1511.3	1491.2	1485.5
71°	503.4	624.5	741.1	873.4	1007.9	1144.7	1300.6	1365.5	1483.3	1482.1	1512.5
72.5°	283.7	391.3	515.8	631.1	757.9	899.1	1059.6	1131.2	1300.6	1334.3	1421.7
75°	90.8	124.4	164.7	260.1	338.6	467.5	586.3	658.1	770.3	826.4	948.5
77.5°	60.5	67.2	69.5	80.7	90.8	129.0	174.9	214.2	235.4	246.7	259.0
80°	43.7	47.1	49.4	55.0	56.1	62.8	62.8	69.5	68.5	72.9	69.5
82.5°	28.0	31.4	32.5	34.8	35.9	40.3	42.6	47.1	47.1	49.4	48.1
85°	13.5	15.7	15.7	18.0	18.0	21.3	21.3	24.6	24.6	28.0	26.9
87.5°	1.1	1.1	1.1	2.2	2.2	2.2	3.3	4.5	4.5	4.5	4.5
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):**

	80°	82.5°	85°	87.5°	90°
0°	385.7	385.7	385.7	385.7	385.7
2.5°	386.8	385.7	386.8	384.6	386.8
5°	392.4	387.9	393.5	387.9	393.5
7.5°	401.4	395.7	402.5	393.5	401.4
10°	409.2	401.4	410.3	401.4	409.2
12.5°	422.7	410.3	424.9	410.3	424.9
15°	436.1	421.6	439.5	423.8	438.4
17.5°	448.4	435.0	451.8	436.1	450.7
20°	459.8	447.4	461.9	446.2	461.9
22.5°	470.9	463.1	474.2	463.1	474.2
25°	485.4	479.9	487.7	479.9	487.7
27.5°	502.3	500.1	504.5	498.9	505.7
30°	521.4	522.5	523.6	522.5	524.7
32.5°	544.9	550.5	548.2	548.2	548.2
35°	577.4	587.5	580.8	583.0	581.9
37.5°	607.6	622.3	613.3	616.7	614.4
40°	641.3	651.5	649.1	649.1	646.9
42.5°	678.3	690.7	687.2	688.4	686.1
45°	718.6	729.9	725.4	724.2	725.4
47.5°	764.6	776.9	771.4	770.3	771.4
50°	812.9	827.4	822.9	820.7	822.9
52.5°	865.6	883.4	881.2	879.0	882.3
55°	927.2	944.0	941.7	944.0	945.2
57.5°	988.9	1007.9	1003.5	1009.1	1011.3
60°	1066.2	1077.4	1078.5	1079.8	1080.8
62.5°	1144.7	1149.2	1152.5	1155.8	1157.1
65°	1235.5	1236.7	1238.9	1235.5	1238.9
67.5°	1322.9	1315.1	1314.0	1317.4	1319.6
70°	1458.7	1458.7	1447.3	1463.1	1449.7
71°	1476.5	1497.8	1473.2	1508.0	1471.0
72.5°	1389.0	1428.3	1400.4	1431.7	1394.7
75°	966.5	1057.2	1056.1	1101.1	1065.1
77.5°	268.0	251.2	268.0	231.0	220.8
80°	72.9	66.1	71.8	60.5	68.5
82.5°	48.1	41.5	40.3	32.5	34.8
85°	28.0	21.3	21.3	16.8	18.0
87.5°	4.5	1.1	4.5	2.2	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)