

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: P531955

Luminaire Tested: **GALN-SA7B-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-735-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20410 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

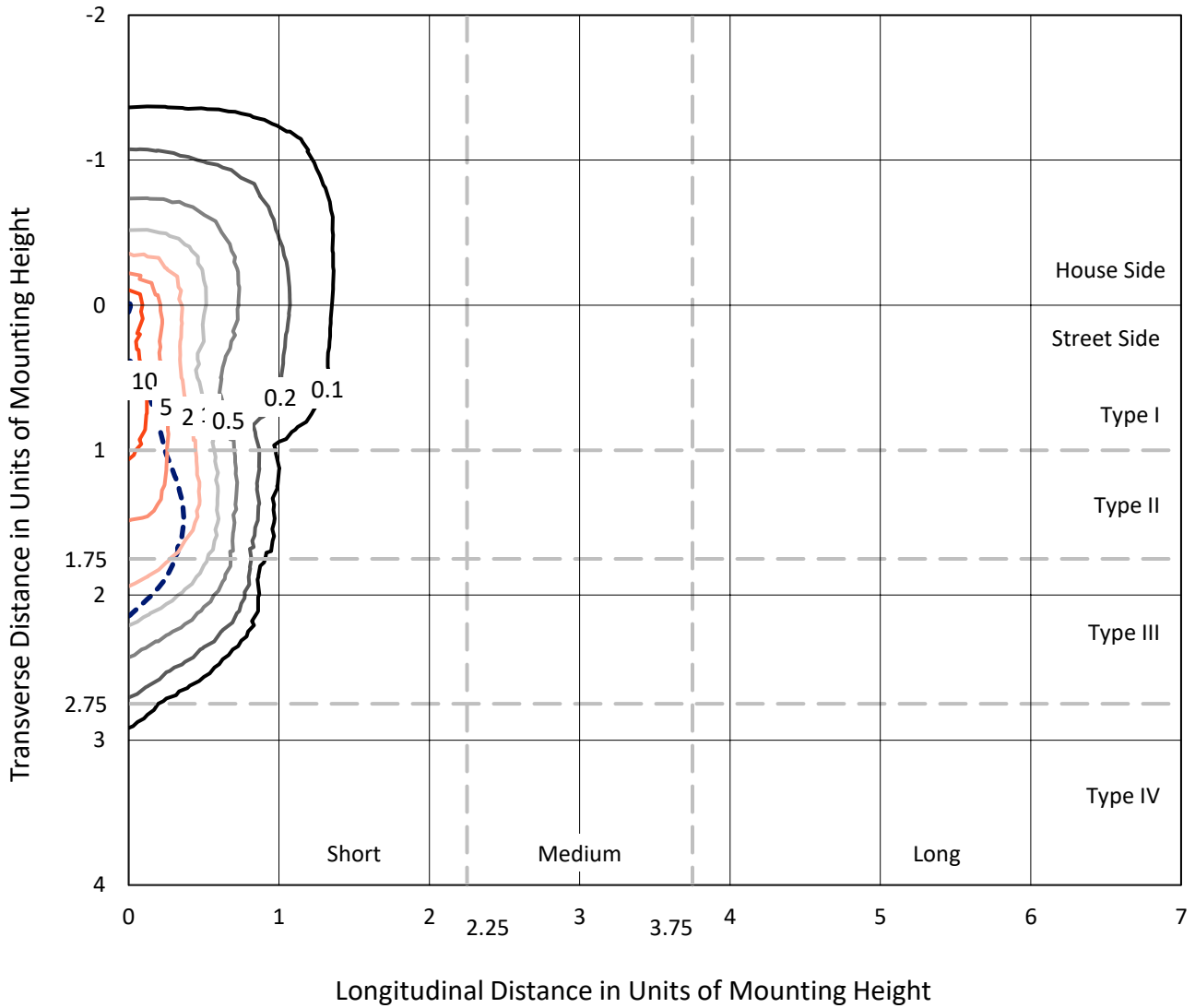
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

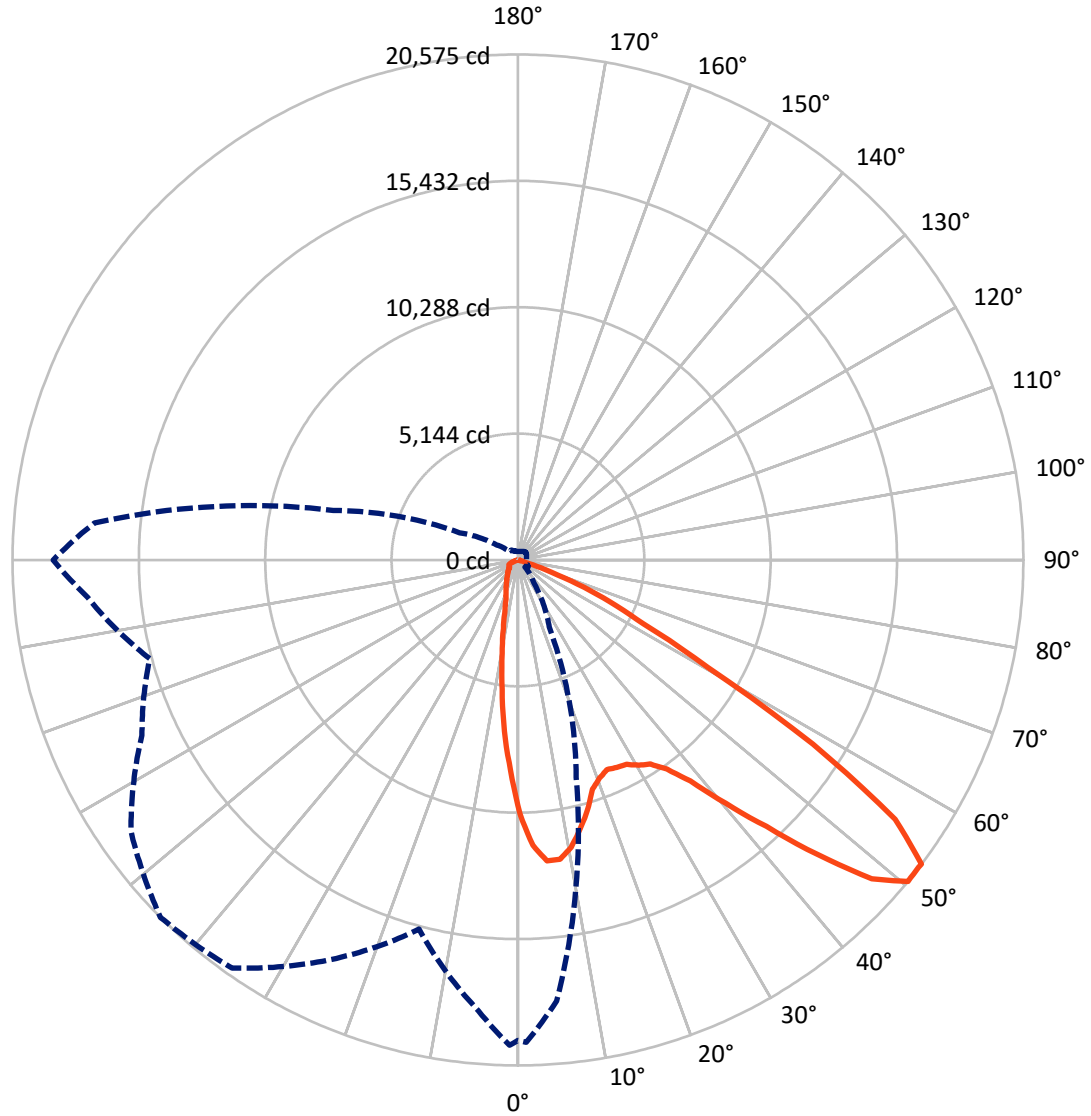
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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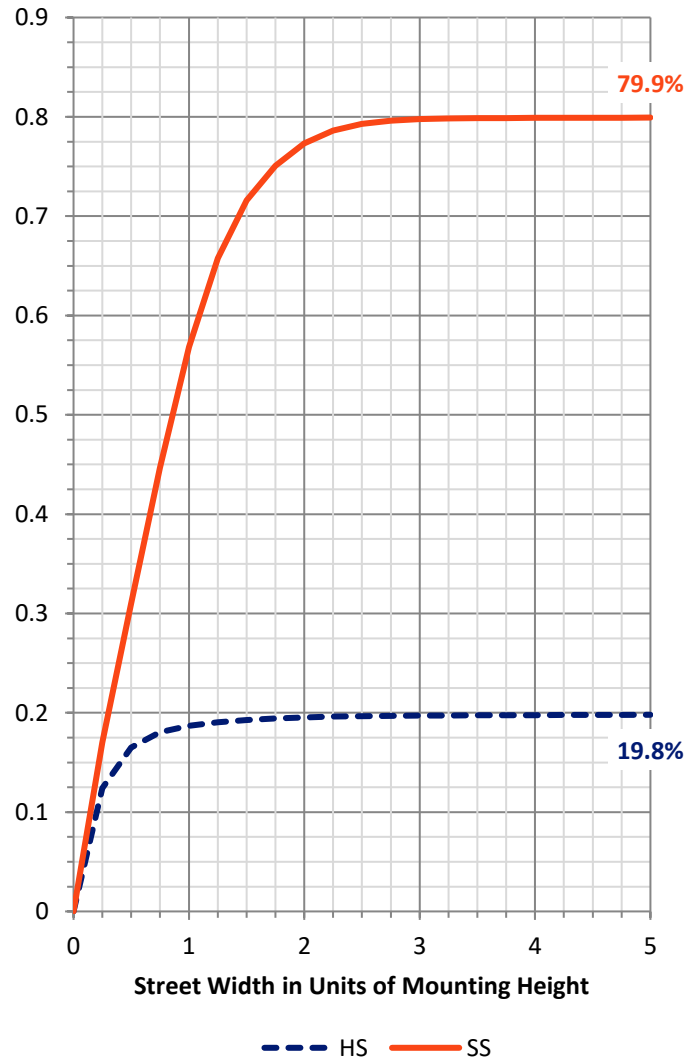
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4088.1	0.0	4088.1
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	16321.9	0.0	16321.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	20410.0	0.0	20410.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.4	3.7
10°-20°	1499.4	7.3
20°-30°	2252.6	11.0
30°-40°	3381.0	16.6
40°-50°	4751.8	23.3
50°-60°	5125.7	25.1
60°-70°	2379.8	11.7
70°-80°	223.9	1.1
80°-90°	41.3	0.2
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°	20410.0	100.0
0°-180°	20410.0	100.0

**Coefficient of Utilization**

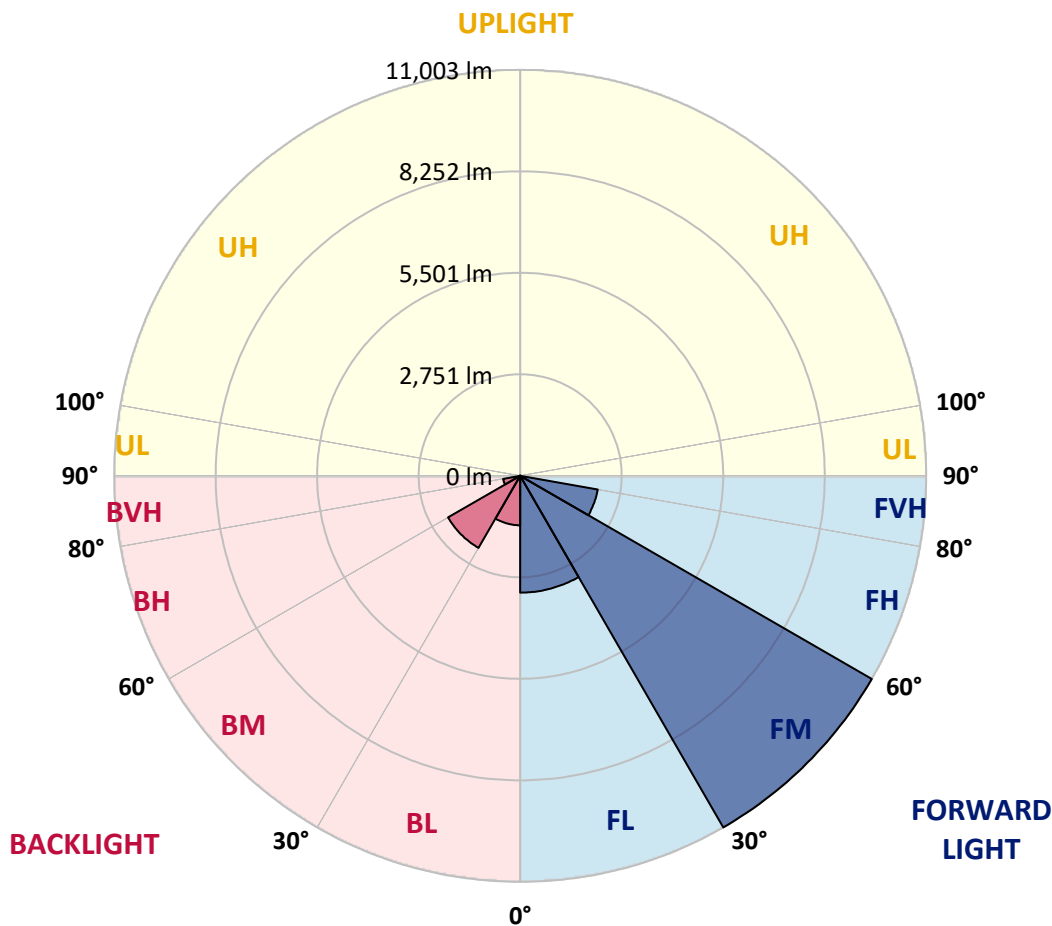


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3166.4	15.5			
FM (30°-60°)	11002.5	53.9			
FH (60°-80°)	2134.3	10.5			G2/5000
FVH (80°-90°)	18.6	0.1			G1/100
BL (0°-30°)	1340.0	6.6	B3/2500		
BM (30°-60°)	2256.0	11.1	B2/2500		
BH (60°-80°)	469.4	2.3	B1/500		G1/500
BVH (80°-90°)	22.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4
2.5°	10759.4	10593.4	10382.8	10208.7	9949.5	9427.2	9285.4	9115.4	8973.6	8783.3	8516.0
5°	9783.5	9730.9	9633.7	8977.7	8503.9	7872.2	7353.8	7135.2	6847.7	6612.8	6442.7
7.5°	9038.4	8827.8	8520.1	7860.0	7102.8	6426.5	5851.5	5515.4	5134.7	5005.1	4774.3
10°	8240.7	8289.3	7835.7	6908.4	5993.2	5446.5	5090.2	4766.2	4422.0	4195.2	3867.2
12.5°	7985.6	7827.6	7479.4	6333.4	5551.8	5041.6	4608.3	4207.4	3842.9	3478.5	3162.6
15°	8151.6	7908.6	7422.7	6211.9	5211.7	4575.9	4033.3	3490.6	3154.5	2688.8	2360.8
17.5°	8746.9	8552.5	7900.5	6341.5	5037.5	4130.5	3324.6	2765.8	2251.5	1830.4	1664.3
20°	9739.0	9463.6	8645.6	6507.5	4778.4	3591.9	2696.9	2008.5	1522.6	1344.4	1251.3
22.5°	10710.8	10561.0	9528.4	6827.4	4547.6	3114.0	2024.7	1352.5	1137.9	1105.5	1044.8
25°	12561.5	12112.0	10876.9	7406.5	4369.4	2664.6	1526.6	1089.3	963.8	939.5	947.6
27.5°	13662.9	13286.3	12124.1	7791.2	4171.0	2320.3	1291.8	1000.2	915.2	862.5	842.3
30°	14719.8	14282.5	12743.7	8017.9	3745.8	1955.9	1146.0	959.7	939.5	862.5	838.2
32.5°	15533.8	15104.5	13638.6	8358.1	3571.6	1721.0	943.5	749.2	696.5	688.4	761.3
35°	16781.0	16323.4	14404.0	8544.4	3438.0	1599.5	818.0	668.2	607.4	583.1	587.2
37.5°	17943.2	17631.4	15112.6	8617.3	3296.3	1563.1	733.0	599.3	546.7	530.5	526.4
40°	18915.1	18218.6	15784.8	8694.2	3235.5	1494.3	680.3	546.7	510.2	485.9	485.9
42.5°	19360.5	18651.9	16538.0	8649.7	3219.3	1384.9	680.3	502.1	473.8	449.5	445.4
45°	19263.3	18975.8	16874.1	8629.4	3219.3	1275.6	619.6	490.0	449.5	417.1	409.0
47.5°	19514.4	19137.8	17295.3	8714.5	3154.5	1198.6	522.4	514.3	425.2	384.7	376.6
50°	19558.9	19631.8	18028.2	9155.8	3012.8	1101.5	409.0	506.2	409.0	348.3	340.2
52°	19850.5	19397.0	18251.0	9390.7	2863.0	1028.6	344.2	433.3	392.8	324.0	315.9
52.5°	19449.6	19745.2	18303.6	9475.8	2879.2	980.0	332.1	425.2	384.7	324.0	303.7
55°	19000.1	19283.6	18089.0	9658.0	2640.3	769.4	259.2	307.8	348.3	283.5	271.3
57.5°	16513.7	16801.2	15720.0	8844.0	2150.3	542.6	214.6	230.8	307.8	263.2	251.1
60°	14679.3	14472.8	13193.2	7378.1	1526.6	303.7	170.1	178.2	336.1	243.0	238.9
62.5°	13415.9	12974.5	11026.7	5697.6	931.4	202.5	133.6	137.7	259.2	226.8	226.8
65°	9925.2	9431.2	7325.5	3446.1	457.6	141.7	101.2	109.3	162.0	194.4	194.4
67.5°	5665.2	5474.9	3539.2	1555.0	190.3	89.1	76.9	85.0	125.5	157.9	149.8
70°	2603.8	2336.5	1360.6	328.0	89.1	60.7	60.7	68.8	101.2	117.4	109.3
72.5°	761.3	720.8	332.1	52.6	36.4	36.4	40.5	52.6	76.9	89.1	81.0
75°	56.7	36.4	24.3	16.2	16.2	24.3	32.4	52.6	76.9	85.0	68.8
77.5°	4.0	8.1	4.0	4.0	12.1	24.3	36.4	64.8	101.2	105.3	76.9
80°	4.0	4.0	0.0	4.0	12.1	24.3	40.5	72.9	113.4	121.5	64.8
82.5°	0.0	0.0	0.0	4.0	16.2	32.4	48.6	76.9	105.3	129.6	68.8
85°	0.0	0.0	0.0	4.0	24.3	44.5	56.7	20.2	12.1	0.0	0.0
87.5°	0.0	0.0	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4
2.5°	8706.4	8601.1	8560.6	8597.0	8584.9	8572.7	8795.4	8746.9	8738.8	8811.6	8795.4
5°	6535.8	6349.6	6859.8	6653.3	6867.9	6997.5	7021.8	7033.9	7183.8	7025.8	7232.4
7.5°	4656.9	4705.5	4701.4	4839.1	5086.1	5304.8	5434.4	5333.2	5325.1	5304.8	5215.7
10°	3721.5	3636.4	3620.2	3587.8	3664.8	3851.0	4009.0	3883.4	3794.4	3915.8	3879.4
12.5°	3041.2	2923.7	2858.9	2729.3	2733.4	2858.9	2858.9	2858.9	2948.0	3016.9	3069.5
15°	2332.5	2235.3	2235.3	2105.7	2077.4	2081.4	2146.2	2154.3	2296.0	2336.5	2356.8
17.5°	1631.9	1579.3	1640.0	1692.7	1660.3	1668.4	1692.7	1700.8	1721.0	1704.8	1745.3
20°	1255.3	1247.2	1263.4	1356.6	1425.4	1465.9	1437.6	1397.1	1372.8	1316.1	1316.1
22.5°	1065.0	1081.2	1109.6	1186.5	1275.6	1299.9	1267.5	1174.3	1101.5	1093.4	1097.4
25°	947.6	963.8	1008.3	1056.9	1105.5	1146.0	1113.6	1044.8	1004.3	967.8	967.8
27.5°	874.7	882.8	907.1	943.5	984.0	1016.4	1004.3	967.8	923.3	907.1	870.6
30°	818.0	830.1	858.5	866.6	903.0	919.2	899.0	890.9	862.5	842.3	830.1
32.5°	789.6	785.6	805.8	813.9	818.0	830.1	805.8	818.0	813.9	781.5	769.4
35°	595.3	627.7	680.3	724.9	737.0	753.2	749.2	733.0	688.4	652.0	607.4
37.5°	534.5	554.8	583.1	619.6	668.2	688.4	680.3	639.8	587.2	562.9	554.8
40°	494.0	506.2	530.5	554.8	603.4	639.8	611.5	575.0	534.5	514.3	502.1
42.5°	457.6	461.6	473.8	498.1	534.5	591.2	542.6	494.0	477.8	465.7	457.6
45°	417.1	417.1	433.3	445.4	485.9	538.6	490.0	445.4	437.3	429.2	425.2
47.5°	384.7	388.7	396.8	413.0	445.4	481.9	449.5	413.0	392.8	388.7	380.7
50°	344.2	348.3	364.5	380.7	421.1	441.4	421.1	380.7	360.4	348.3	348.3
52°	311.8	324.0	340.2	372.6	400.9	433.3	409.0	364.5	340.2	328.0	319.9
52.5°	307.8	315.9	332.1	368.5	400.9	429.2	404.9	360.4	332.1	324.0	315.9
55°	275.4	287.5	315.9	360.4	396.8	429.2	396.8	356.4	315.9	295.6	287.5
57.5°	263.2	271.3	307.8	364.5	392.8	429.2	396.8	356.4	315.9	279.4	271.3
60°	251.1	267.3	307.8	352.3	388.7	433.3	400.9	352.3	307.8	263.2	263.2
62.5°	238.9	251.1	303.7	344.2	372.6	417.1	384.7	344.2	295.6	251.1	247.0
65°	206.5	226.8	267.3	287.5	319.9	360.4	328.0	299.7	259.2	222.7	218.7
67.5°	157.9	166.0	198.4	222.7	243.0	279.4	263.2	226.8	198.4	170.1	170.1
70°	109.3	117.4	141.7	153.9	174.1	194.4	182.2	153.9	133.6	117.4	113.4
72.5°	76.9	81.0	89.1	97.2	105.3	113.4	109.3	89.1	76.9	72.9	68.8
75°	60.7	68.8	72.9	68.8	64.8	60.7	60.7	52.6	44.5	40.5	40.5
77.5°	60.7	64.8	60.7	52.6	44.5	40.5	36.4	32.4	24.3	20.2	24.3
80°	52.6	52.6	52.6	44.5	40.5	36.4	32.4	28.3	24.3	20.2	20.2
82.5°	56.7	56.7	52.6	44.5	44.5	36.4	36.4	32.4	28.3	20.2	20.2
85°	0.0	0.0	0.0	8.1	20.2	36.4	36.4	32.4	28.3	24.3	24.3
87.5°	0.0	0.0	0.0	0.0	4.0	8.1	16.2	20.2	24.3	24.3	24.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4
2.5°	8941.2	9095.1	9386.7	9678.2	9856.4	10067.0	10447.6	10650.1	10913.3	11042.9	11298.0
5°	7204.0	7568.5	7698.0	8030.1	8386.5	8742.8	9309.7	9933.3	10451.7	10808.0	11269.7
7.5°	5256.2	5341.2	5843.4	6066.1	6649.2	7297.1	8070.6	8856.2	9512.2	10095.3	10447.6
10°	3940.1	4251.9	4567.8	4993.0	5462.7	6130.9	6871.9	7738.5	8588.9	9172.0	9617.5
12.5°	3166.7	3413.7	3834.8	4292.4	4871.5	5312.9	6058.0	6916.5	8017.9	8588.9	9176.1
15°	2397.3	2713.1	3191.0	3664.8	4276.2	4741.9	5495.1	6576.3	7993.7	8779.2	9285.4
17.5°	1777.7	1992.3	2421.6	2952.1	3575.7	4231.7	5248.1	6539.9	8265.0	9200.4	9722.8
20°	1360.6	1433.5	1704.8	2178.6	2854.9	3713.4	4847.2	6697.8	9066.8	10224.9	10755.4
22.5°	1101.5	1133.9	1239.1	1567.1	2223.2	3259.8	4656.9	6807.2	9969.8	11451.9	12160.6
25°	959.7	951.6	1020.5	1162.2	1737.2	2834.6	4413.9	7220.2	11075.3	12893.5	13529.3
27.5°	874.7	874.7	907.1	1008.3	1441.6	2559.3	4260.0	7515.8	12188.9	14161.0	14505.2
30°	830.1	838.2	931.4	963.8	1198.6	2231.3	4004.9	7815.5	13253.9	14970.9	15444.7
32.5°	769.4	737.0	716.8	797.7	1008.3	1935.6	3749.8	7941.0	14116.4	15963.0	16368.0
35°	591.2	575.0	599.3	660.1	866.6	1684.6	3466.3	8082.7	15108.6	17113.1	17194.0
37.5°	534.5	530.5	546.7	599.3	728.9	1465.9	3263.9	8046.3	15865.8	18064.7	17846.0
40°	494.0	494.0	506.2	550.7	652.0	1312.0	3053.3	8013.9	16598.8	19133.7	18493.9
42.5°	461.6	461.6	481.9	510.2	619.6	1210.8	2895.4	7969.4	17214.3	19789.8	18874.6
45°	417.1	429.2	461.6	490.0	627.7	1142.0	2777.9	7799.3	17424.9	19781.7	18692.3
47.5°	384.7	400.9	433.3	473.8	566.9	1121.7	2696.9	7649.4	17352.0	19295.7	18121.4
50°	348.3	368.5	413.0	481.9	481.9	1081.2	2611.9	7783.1	17299.3	18919.1	17574.7
52°	324.0	340.2	396.8	469.7	421.1	996.2	2559.3	8042.2	17514.0	18870.5	17331.7
52.5°	319.9	332.1	384.7	461.6	400.9	980.0	2522.8	8103.0	17582.8	18749.0	17497.8
55°	283.5	299.7	352.3	360.4	328.0	805.8	2405.4	8240.7	17242.6	18510.1	17339.8
57.5°	267.3	275.4	311.8	295.6	283.5	607.4	2069.3	8026.0	15315.1	16440.8	16133.1
60°	247.0	255.1	291.6	230.8	238.9	425.2	1555.0	6969.1	12298.2	13699.4	14254.1
62.5°	238.9	234.9	275.4	186.3	202.5	307.8	1097.4	5665.2	9475.8	11277.8	12237.5
65°	210.6	206.5	198.4	157.9	174.1	238.9	656.0	3697.2	6677.6	8532.2	9058.7
67.5°	162.0	170.1	145.8	125.5	145.8	186.3	364.5	1656.2	3502.8	5118.5	5543.7
70°	113.4	121.5	117.4	109.3	129.6	153.9	210.6	566.9	1449.7	2688.8	2964.2
72.5°	68.8	85.0	89.1	93.1	113.4	133.6	149.8	182.2	384.7	951.6	1182.4
75°	40.5	56.7	68.8	81.0	93.1	113.4	125.5	129.6	133.6	178.2	287.5
77.5°	28.3	40.5	60.7	76.9	93.1	113.4	133.6	141.7	133.6	125.5	133.6
80°	24.3	40.5	56.7	72.9	97.2	117.4	133.6	133.6	129.6	113.4	121.5
82.5°	24.3	40.5	60.7	76.9	93.1	113.4	129.6	133.6	121.5	113.4	117.4
85°	28.3	44.5	64.8	81.0	101.2	93.1	85.0	68.8	64.8	52.6	56.7
87.5°	28.3	40.5	40.5	44.5	48.6	48.6	48.6	44.5	36.4	32.4	32.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4	10350.4
2.5°	11310.2	11634.1	11622.0	11630.1	11581.5	11253.5	11095.5	10694.6	10808.0	10759.4
5°	11743.5	12063.4	12338.7	12306.3	11933.8	11488.3	10828.3	10204.7	10034.6	9783.5
7.5°	11310.2	12079.6	12334.7	12298.2	11747.5	11176.5	10123.7	9500.1	9204.4	9038.4
10°	10621.8	11512.6	11828.5	11893.3	11520.7	10654.2	9686.3	8686.1	8528.2	8240.7
12.5°	10229.0	10876.9	11071.2	11245.4	11115.8	10467.9	9354.3	8394.5	8175.9	7985.6
15°	9909.1	10293.8	10374.7	10573.2	10650.1	10301.8	9528.4	8710.4	8171.8	8151.6
17.5°	10204.7	10046.7	9751.1	9811.9	10054.8	10305.9	9977.9	9334.0	8811.6	8746.9
20°	10694.6	9998.1	9330.0	9479.8	9682.3	10451.7	10658.2	10204.7	9905.0	9739.0
22.5°	11257.5	10083.2	9196.3	9269.2	9653.9	10779.7	11759.7	11508.6	10949.8	10710.8
25°	12298.2	10318.0	9301.6	9350.2	9876.7	11237.3	12755.8	12942.1	12610.0	12561.5
27.5°	13314.7	10925.5	9532.5	9423.1	9990.0	11682.7	13359.2	14359.4	13776.3	13662.9
30°	13833.0	11419.5	9876.7	9690.4	10459.8	11954.0	13723.7	15282.7	14772.5	14719.8
32.5°	14626.7	11869.0	10143.9	9905.0	10723.0	12290.1	14404.0	16291.0	15797.0	15533.8
35°	14958.7	12359.0	10731.1	10451.7	11476.2	12759.9	14752.2	17190.0	17036.1	16781.0
37.5°	15598.6	12885.4	11423.6	11407.4	12387.3	13371.3	15379.9	18412.9	18384.6	17943.2
40°	15651.2	13460.4	12516.9	13027.1	13796.5	14436.4	15930.6	18753.1	19214.7	18915.1
42.5°	15732.2	14468.8	14408.0	14829.2	15489.2	15351.5	15950.9	18834.1	19538.7	19360.5
45°	15768.6	15477.1	16331.5	17109.0	17384.4	16550.2	15760.5	18680.2	19708.8	19263.3
47.5°	15477.1	16343.7	17886.5	19388.9	19469.8	17287.2	15679.5	18522.3	19810.0	19514.4
50°	15517.6	16886.3	19230.9	20575.4	20279.7	17939.1	15554.0	18425.1	19757.4	19558.9
52°	15420.4	16898.4	19421.3	20551.1	20344.5	17578.7	15339.4	18052.5	19708.8	19850.5
52.5°	15529.7	16825.5	19222.8	20567.3	20300.0	17756.9	15311.0	18259.1	19737.1	19449.6
55°	15153.1	15959.0	18060.6	18631.6	18591.1	16116.9	14440.4	17574.7	18996.1	19000.1
57.5°	13695.3	13833.0	14165.0	14152.9	13966.6	12670.8	12350.9	16161.4	16934.9	16513.7
60°	12067.4	10127.7	9232.8	8868.3	8661.8	8451.2	10925.5	14784.6	14857.5	14679.3
62.5°	10427.4	7021.8	5831.2	5730.0	5778.6	6548.0	10561.0	14237.9	13800.6	13415.9
65°	8414.8	5118.5	4235.7	4102.1	4575.9	5406.0	8548.4	10917.4	10245.2	9925.2
67.5°	5284.6	3733.6	2863.0	2611.9	3182.9	3721.5	5616.6	6859.8	6106.6	5665.2
70°	3134.3	2085.5	1295.8	1162.2	1308.0	1984.2	3146.4	3421.8	2830.6	2603.8
72.5°	1235.1	765.3	360.4	307.8	319.9	696.5	1158.1	1129.8	854.4	761.3
75°	332.1	230.8	125.5	101.2	85.0	129.6	186.3	121.5	44.5	56.7
77.5°	153.9	137.7	109.3	85.0	64.8	48.6	24.3	8.1	8.1	4.0
80°	133.6	117.4	101.2	85.0	64.8	40.5	20.2	4.0	4.0	4.0
82.5°	125.5	109.3	93.1	76.9	60.7	40.5	20.2	4.0	0.0	0.0
85°	52.6	68.8	76.9	72.9	64.8	40.5	20.2	4.0	0.0	0.0
87.5°	28.3	24.3	20.2	16.2	12.1	8.1	8.1	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

(END OF REPORT)