

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: P652503

Luminaire Tested: **GALN-SA7B-840-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-840-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32625.8 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

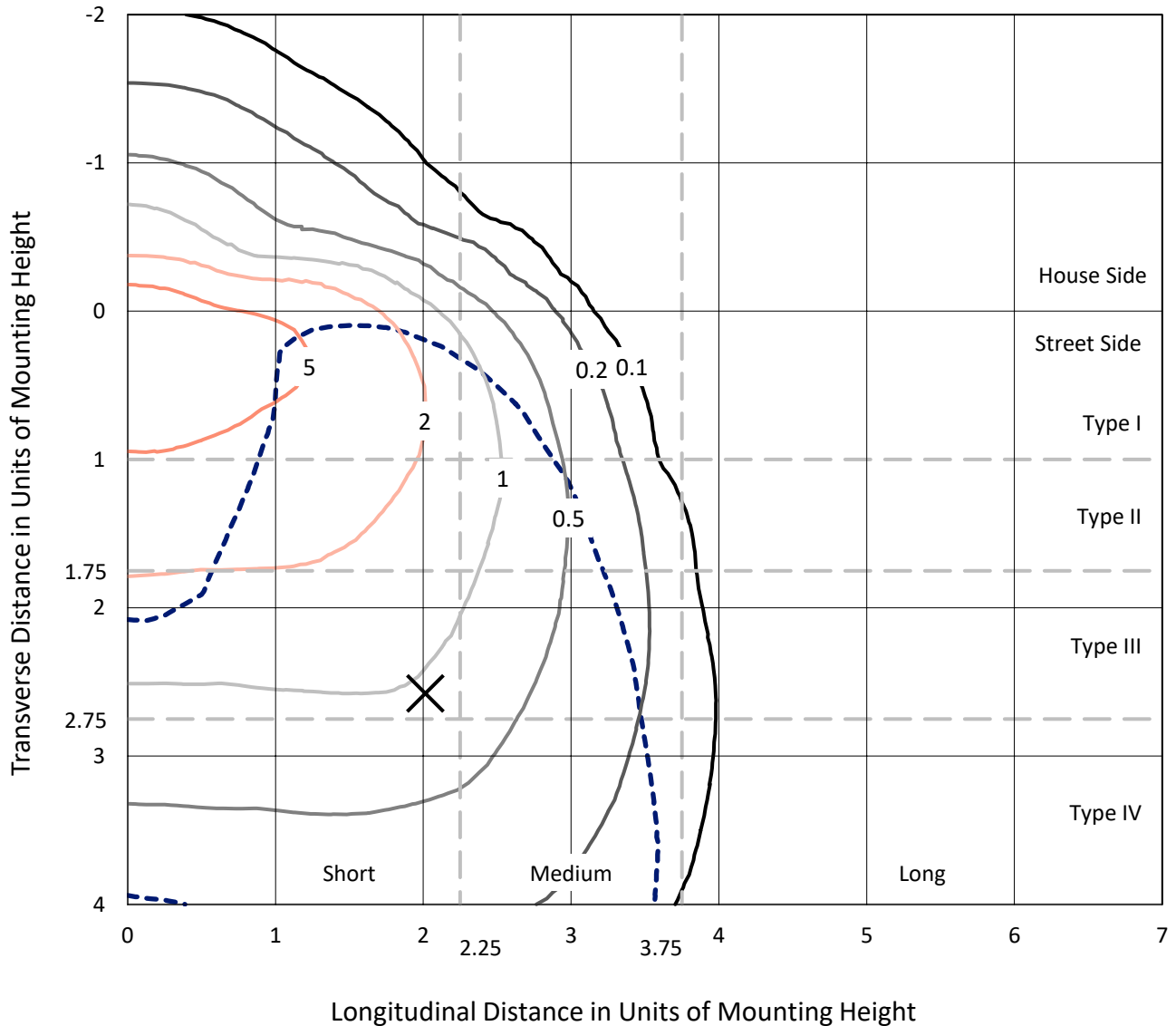
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

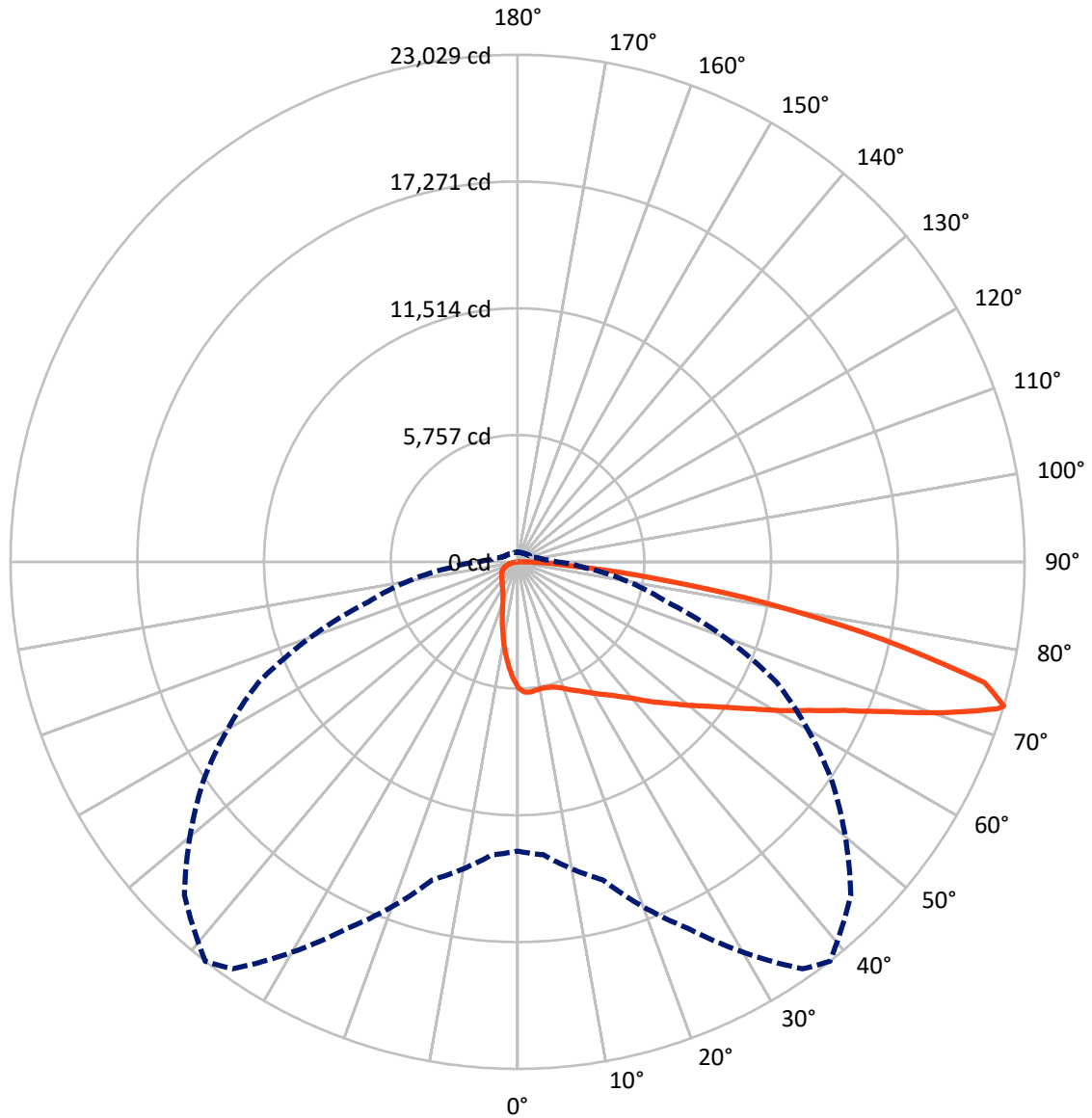
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical



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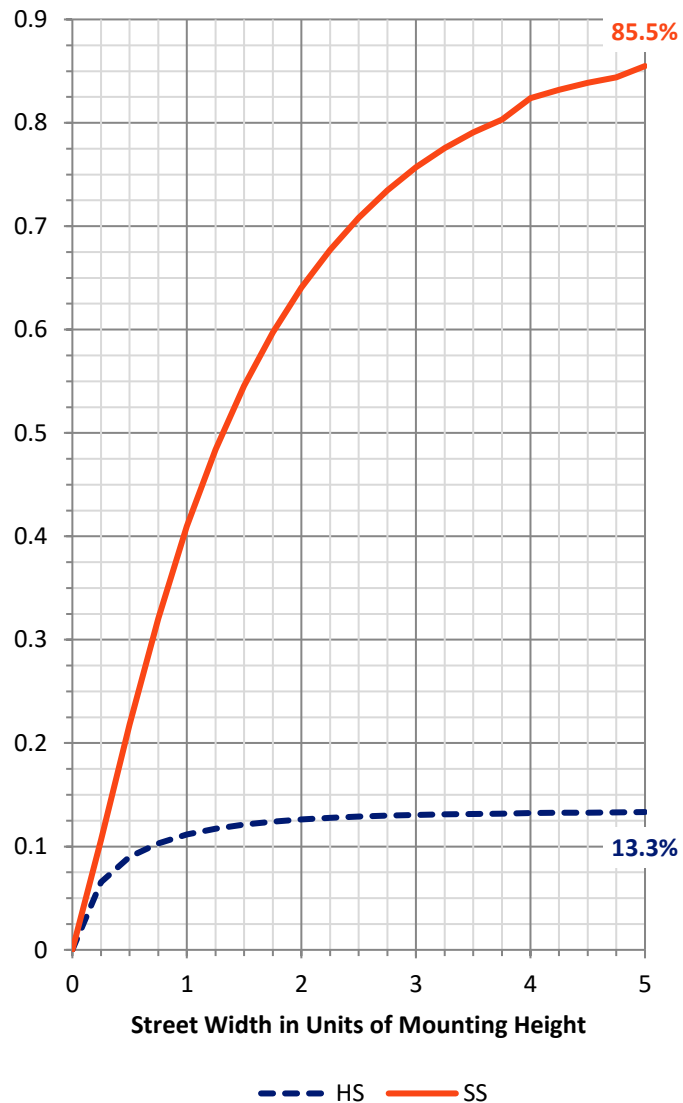
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4385.9	0.0	4385.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	28239.9	0.0	28239.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	32625.8	0.0	32625.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.3	1.5
10°-20°	1283.0	3.9
20°-30°	1997.9	6.1
30°-40°	2930.4	9.0
40°-50°	4346.9	13.3
50°-60°	6158.7	18.9
60°-70°	7812.5	23.9
70°-80°	6503.3	19.9
80°-90°	1092.7	3.3
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°	32625.8	100.0
0°-180°	32625.8	100.0

**Coefficient of Utilization**

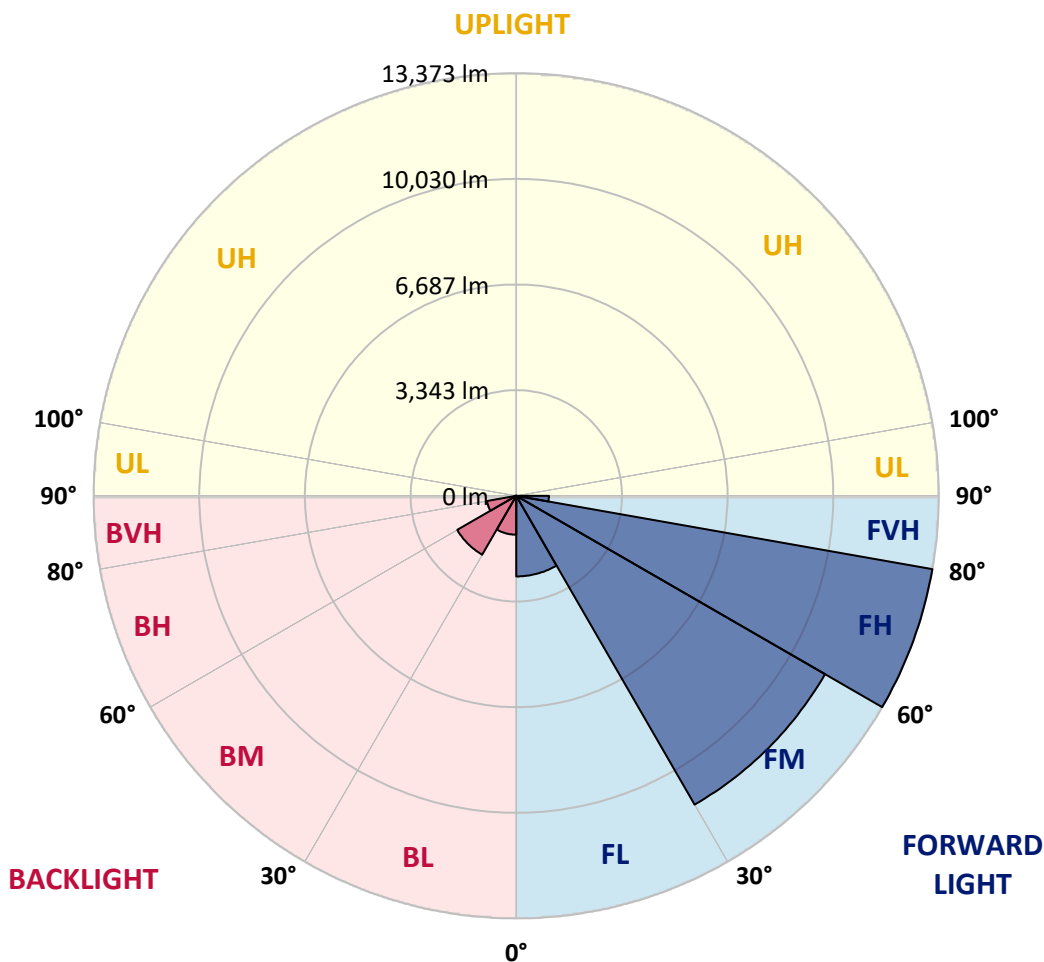


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.5	7.8			
FM (30°-60°)	11282.9	34.6			
FH (60°-80°)	13373.2	41.0			G5
FVH (80°-90°)	1033.4	3.2			G5
BL (0°-30°)	1230.7	3.8	B3/2500		
BM (30°-60°)	2153.2	6.6	B2/2500		
BH (60°-80°)	942.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	59.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8
2.5°	5962.1	5991.5	5976.8	5956.6	5943.7	5930.8	5912.3	5858.9	5816.5	5770.5	5698.6
5°	6006.3	6024.8	6011.8	5986.1	5956.6	5943.7	5908.7	5838.6	5770.5	5693.1	5586.3
7.5°	5980.5	5987.9	5973.1	5941.8	5916.0	5892.0	5851.5	5774.1	5691.3	5597.3	5457.2
10°	5888.4	5916.0	5916.0	5890.3	5864.5	5851.5	5811.1	5737.3	5661.8	5554.9	5389.1
12.5°	5812.8	5842.3	5866.3	5858.9	5857.1	5857.1	5825.8	5770.5	5682.0	5580.7	5383.6
15°	5761.3	5796.3	5847.9	5877.3	5895.7	5901.3	5888.4	5840.5	5750.3	5632.3	5405.7
17.5°	5750.3	5792.6	5886.6	5951.0	5998.9	5997.1	5993.4	5927.1	5827.6	5706.0	5433.3
20°	5800.0	5855.2	5986.1	6087.4	6157.4	6144.5	6124.2	6037.6	5921.6	5785.2	5459.1
22.5°	5949.2	6006.3	6150.1	6260.6	6328.8	6328.8	6268.0	6153.7	6030.3	5877.3	5494.1
25°	6162.9	6225.6	6378.5	6490.8	6522.2	6498.2	6437.4	6299.3	6157.4	6010.0	5567.8
27.5°	6424.6	6500.1	6642.0	6735.9	6726.7	6708.3	6645.7	6468.8	6326.9	6192.4	5693.1
30°	6750.6	6806.0	6953.3	6975.4	6942.3	6938.6	6850.1	6673.3	6540.6	6437.4	5871.8
32.5°	7058.3	7108.0	7226.0	7235.2	7176.3	7183.7	7100.7	6938.6	6863.1	6826.2	6172.1
35°	7384.5	7410.2	7511.6	7500.5	7461.9	7456.3	7423.2	7268.3	7292.3	7358.7	6597.7
37.5°	7657.1	7708.7	7765.8	7775.0	7773.2	7791.6	7813.7	7740.1	7878.2	8086.4	7156.0
40°	7907.7	7951.9	8036.7	8066.1	8138.0	8174.9	8250.4	8252.2	8571.0	8913.7	7843.3
42.5°	8077.2	8152.7	8311.2	8364.6	8539.7	8650.2	8762.5	8882.3	9344.8	9785.1	8653.9
45°	8224.6	8324.0	8587.5	8753.4	8991.0	9125.5	9363.2	9613.8	10278.9	10855.5	9477.5
47.5°	8447.5	8536.0	8838.2	9131.1	9490.3	9645.1	10000.7	10374.7	11244.3	11876.3	10266.0
50°	8757.1	8810.5	9118.2	9595.4	10054.2	10253.1	10722.9	11262.8	12276.1	12884.1	10958.7
52.5°	9153.2	9175.3	9420.3	10056.0	10660.3	10907.2	11529.9	12160.0	13178.9	13759.3	11507.8
55°	9621.1	9584.3	9776.0	10544.2	11353.1	11675.4	12344.3	13068.3	14194.1	14466.7	11907.6
57.5°	10083.6	10026.5	10179.4	11137.4	12208.0	12596.7	13376.0	14004.3	15100.6	15128.2	12187.7
60°	10573.7	10531.3	10713.8	11833.9	13256.3	13716.9	14437.3	14975.3	15977.6	15588.8	12231.8
62.5°	11076.6	11008.5	11268.3	12616.9	14437.3	14855.5	15553.8	16007.0	16837.9	15760.1	11806.3
65°	11564.9	11533.6	11935.2	13547.3	15782.2	16257.5	16935.6	17243.3	17527.0	15502.2	10750.6
67.5°	12084.5	12147.2	12788.3	14789.2	17536.2	18133.1	18864.6	18575.3	17724.2	14280.7	9053.7
70°	12876.7	12917.3	13908.5	16416.1	19796.9	20517.3	20871.0	19048.8	16773.5	11961.0	6806.0
72.5°	13217.6	13396.3	14908.9	18124.0	22365.2	22805.6	21545.3	17993.1	13973.0	8125.1	3576.2
73°	13142.1	13355.8	14955.0	18383.8	22566.0	23028.5	21401.6	17449.7	12989.1	6997.5	3065.8
75°	12200.6	12464.0	14356.2	18166.4	22175.5	21899.1	19091.2	14872.1	8777.3	3181.8	1396.6
77.5°	9626.7	9702.2	11375.1	14669.4	17462.5	16950.4	14288.0	9295.1	3585.4	1182.9	792.2
80°	4829.0	5107.2	6411.6	8403.3	11677.3	11509.7	9018.7	4396.0	1494.2	694.6	525.1
82.5°	2323.3	2520.5	3122.9	4097.5	6452.2	6299.3	4466.0	2402.5	948.8	405.4	309.5
85°	1496.1	1643.5	1988.0	1954.8	2653.1	2533.3	2006.4	1818.5	562.0	211.8	215.5
87.5°	987.5	1081.5	1297.1	1037.3	965.5	873.3	886.2	1024.4	110.5	81.1	29.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8	5731.8
2.5°	5669.2	5645.2	5566.0	5488.6	5414.9	5344.9	5298.8	5238.0	5197.5	5208.6	5225.1
5°	5527.3	5473.8	5333.8	5197.5	5068.5	4915.6	4792.2	4692.7	4617.1	4589.5	4584.0
7.5°	5378.0	5287.8	5087.0	4853.0	4633.7	4443.9	4224.7	4116.0	3988.9	3944.6	3929.9
10°	5287.8	5166.2	4884.3	4558.1	4228.4	3913.3	3675.7	3482.2	3307.1	3274.0	3257.4
12.5°	5262.0	5101.7	4722.1	4302.1	3863.6	3476.7	3124.7	2870.5	2701.0	2662.3	2605.2
15°	5247.3	5048.3	4571.1	4044.1	3487.7	3016.1	2645.7	2349.1	2194.3	2091.1	2093.0
17.5°	5234.3	4987.5	4401.5	3762.2	3163.4	2620.0	2210.9	1943.7	1801.9	1746.6	1741.1
20°	5215.9	4915.6	4206.3	3465.6	2793.1	2258.8	1888.5	1689.5	1593.7	1547.6	1545.8
22.5°	5208.6	4845.6	4014.7	3163.4	2465.1	1980.6	1674.8	1534.7	1473.9	1442.7	1442.7
25°	5227.0	4795.8	3813.9	2876.1	2174.1	1743.0	1527.3	1431.6	1396.6	1380.0	1374.4
27.5°	5284.1	4773.8	3614.9	2588.6	1906.9	1580.8	1427.8	1361.6	1335.8	1322.9	1324.7
30°	5392.7	4771.9	3419.5	2304.8	1707.9	1457.4	1348.6	1302.6	1282.4	1275.0	1273.1
32.5°	5567.8	4812.5	3227.9	2070.9	1540.3	1354.2	1275.0	1241.8	1232.6	1227.0	1225.3
35°	5864.5	4926.7	3038.2	1857.2	1411.3	1262.1	1205.0	1188.3	1175.5	1181.0	1182.9
37.5°	6264.3	5123.8	2857.6	1689.5	1313.6	1193.9	1146.0	1131.2	1123.9	1129.4	1134.9
40°	6800.4	5407.5	2706.5	1555.0	1243.7	1136.8	1094.4	1081.5	1074.1	1083.4	1085.2
42.5°	7391.8	5735.5	2581.3	1450.0	1186.5	1088.8	1048.3	1033.6	1028.0	1033.6	1035.4
45°	7999.8	6116.8	2516.8	1374.4	1138.6	1053.9	1011.5	994.9	982.0	978.3	983.9
47.5°	8598.6	6448.5	2514.9	1328.4	1099.9	1022.6	976.5	958.1	941.5	932.2	930.4
50°	9086.8	6711.9	2559.2	1308.1	1066.7	987.5	941.5	923.1	901.0	882.5	886.2
52.5°	9455.4	6883.3	2579.4	1298.9	1048.3	950.7	904.7	888.0	862.3	838.3	838.3
55°	9693.0	6923.9	2529.6	1289.7	1033.6	912.0	862.3	847.5	821.7	797.8	797.8
57.5°	9774.1	6798.6	2350.9	1267.6	1018.9	878.8	819.9	807.0	786.8	762.8	759.1
60°	9586.1	6374.8	2037.7	1201.3	989.4	843.9	773.8	768.3	760.9	740.7	738.8
62.5°	8862.0	5475.7	1696.9	1114.7	939.6	807.0	731.4	740.7	746.2	735.1	733.3
65°	7657.1	4445.8	1450.0	994.9	873.3	755.4	685.4	709.3	724.1	724.1	720.4
67.5°	6210.8	3414.0	1221.6	891.7	790.4	685.4	633.8	652.2	663.3	659.6	668.8
70°	4414.5	2312.2	994.9	773.8	685.4	606.2	567.5	567.5	560.1	556.4	556.4
72.5°	2140.9	1321.0	807.0	646.7	584.1	517.7	486.4	473.5	458.8	456.9	447.7
73°	1789.0	1184.7	770.1	622.8	560.1	504.9	469.8	449.5	440.3	432.9	431.1
75°	1088.8	899.1	643.0	525.1	477.2	434.8	403.5	385.1	375.8	370.3	368.5
77.5°	716.7	670.6	499.3	401.7	364.8	339.0	326.1	307.7	302.2	294.8	294.8
80°	534.3	512.2	357.4	283.8	261.6	239.5	235.8	232.1	217.4	208.2	204.5
82.5°	344.6	364.8	243.2	189.7	165.8	147.4	149.3	154.7	140.0	127.2	123.5
85°	245.1	263.5	147.4	86.6	70.0	60.8	68.2	60.8	62.7	49.8	40.5
87.5°	40.5	70.0	25.8	11.0	5.6	3.7	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

(END OF REPORT)