

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: P648130

Luminaire Tested: **GALN-SA8A-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28851.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

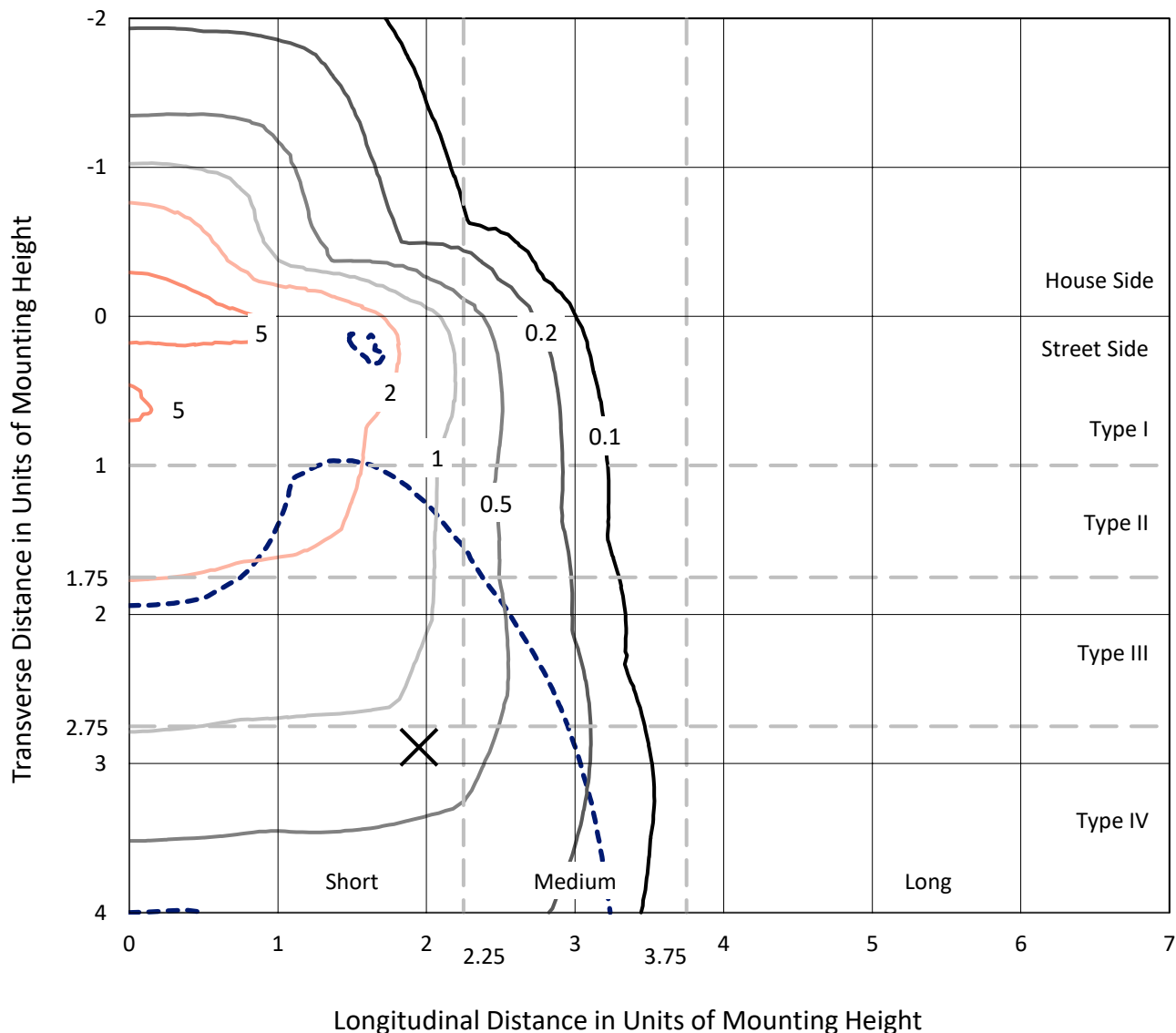
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

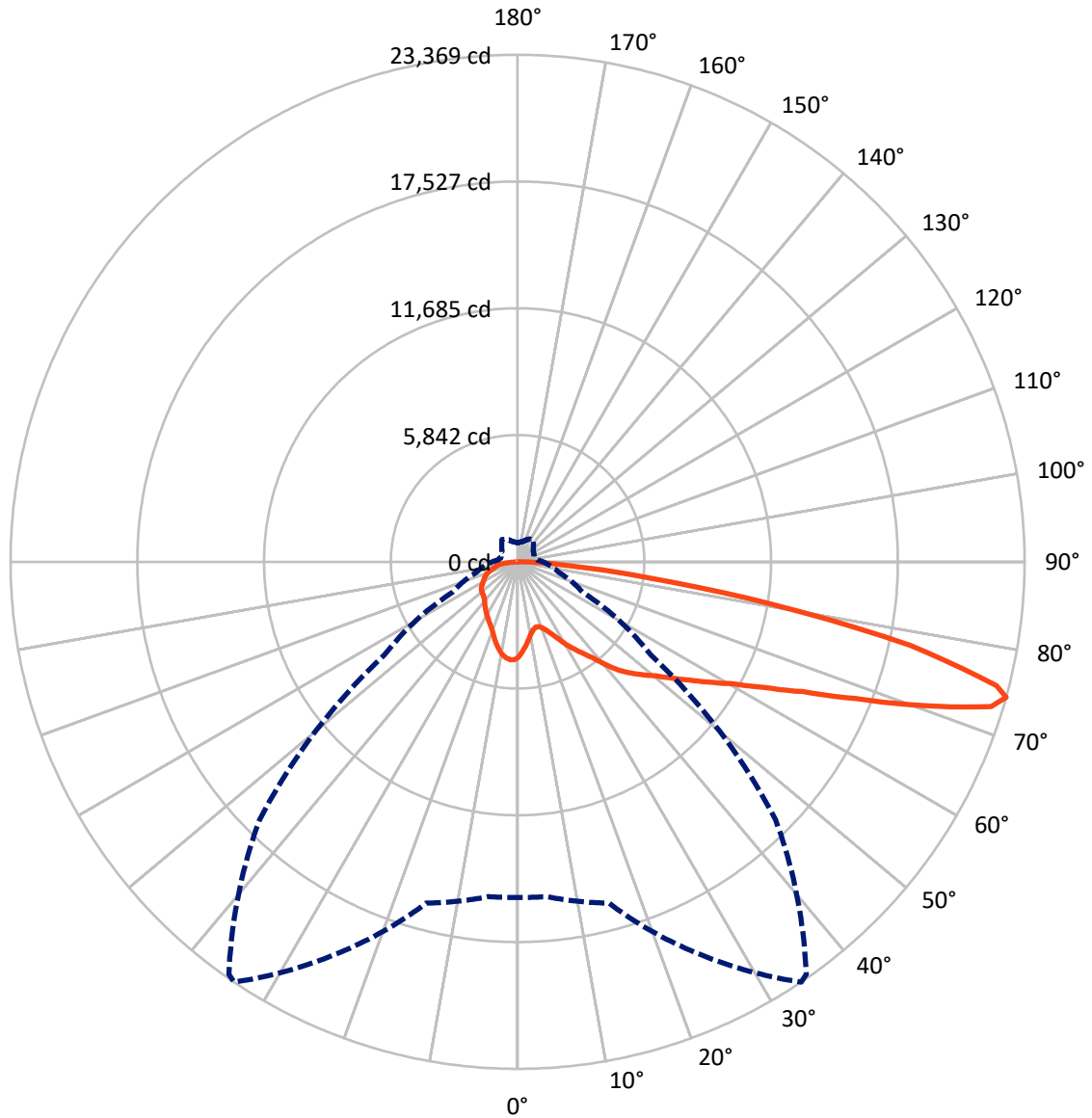
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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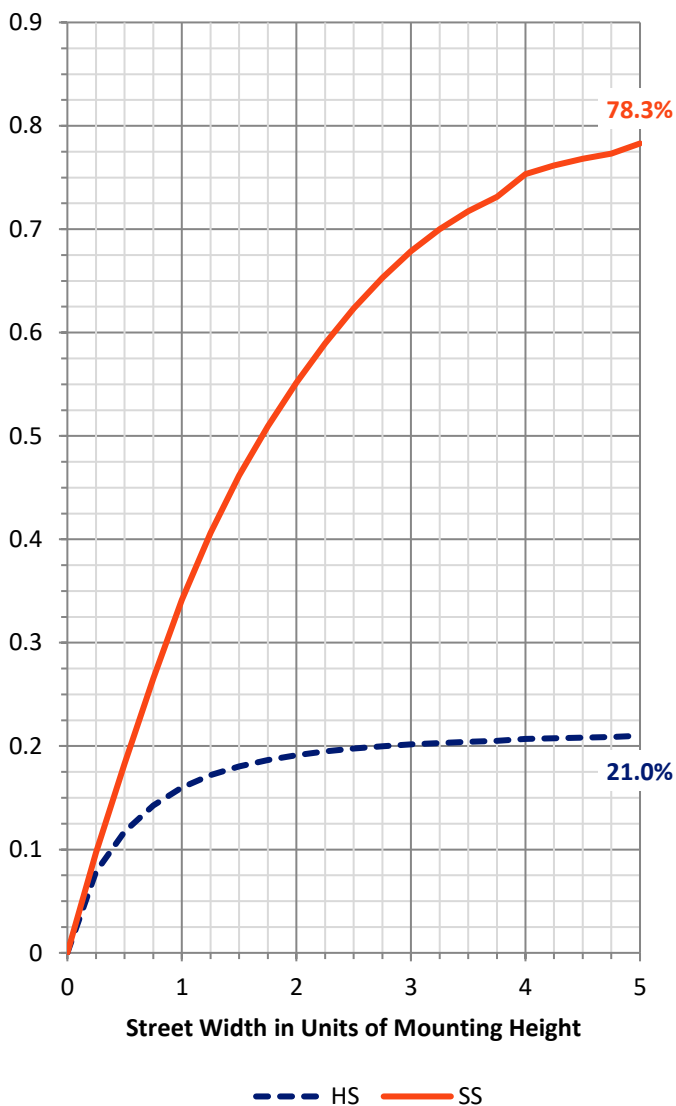
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6139.7	0.0	6139.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	22711.5	0.0	22711.5
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	28851.2	0.0	28851.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.6	1.4
10°-20°	1096.7	3.8
20°-30°	1808.1	6.3
30°-40°	2708.4	9.4
40°-50°	3937.2	13.6
50°-60°	5499.4	19.1
60°-70°	6884.9	23.9
70°-80°	5693.3	19.7
80°-90°	822.6	2.9
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°	28851.2	100.0
0°-180°	28851.2	100.0

**Coefficient of Utilization**

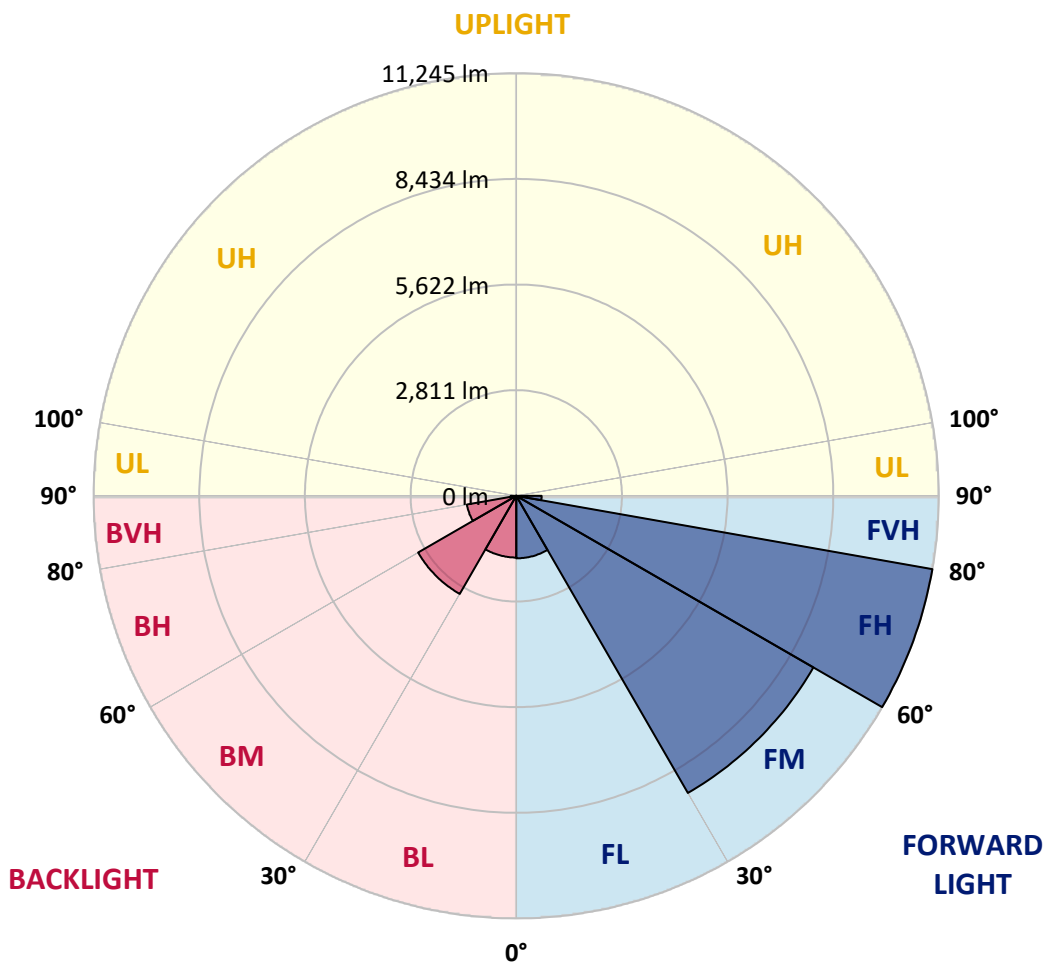


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.1	5.8			
FM (30°-60°)	9129.7	31.6			
FH (60°-80°)	11244.7	39.0			G4/12000
FVH (80°-90°)	673.9	2.3			G4/750
BL (0°-30°)	1642.3	5.7	B3/2500		
BM (30°-60°)	3015.2	10.5	B3/5000		
BH (60°-80°)	1333.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	148.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0
2.5°	4071.0	4091.7	4102.9	4142.9	4152.5	4165.2	4198.8	4243.5	4301.1	4352.2	4397.0
5°	3732.1	3764.0	3783.2	3818.5	3887.1	3893.5	3983.0	4085.3	4202.0	4310.7	4400.2
7.5°	3410.8	3446.0	3462.0	3525.9	3617.0	3631.4	3762.5	3923.9	4118.9	4283.6	4421.0
10°	3169.5	3187.0	3222.3	3270.2	3378.9	3388.4	3559.5	3775.2	4027.8	4270.7	4456.1
12.5°	3038.4	3048.0	3056.0	3107.2	3214.2	3228.6	3407.6	3652.2	3955.9	4280.3	4513.7
15°	3057.6	3060.8	3025.7	3035.2	3121.5	3142.3	3319.8	3570.7	3911.1	4304.3	4600.0
17.5°	3219.1	3207.9	3121.5	3076.8	3137.6	3147.1	3302.1	3538.7	3890.3	4349.1	4689.5
20°	3473.2	3457.2	3308.6	3209.4	3244.6	3252.6	3359.7	3562.6	3911.1	4422.6	4828.6
22.5°	3789.6	3783.2	3557.9	3438.0	3436.4	3436.4	3492.3	3649.0	3973.5	4523.3	4974.0
25°	4232.3	4198.8	3904.7	3749.7	3706.6	3703.4	3696.9	3791.3	4053.4	4630.3	5146.7
27.5°	4686.3	4628.8	4366.6	4128.5	4035.8	4024.6	3983.0	3992.7	4155.7	4751.9	5343.2
30°	5093.9	5057.2	4811.0	4547.3	4436.9	4411.4	4296.3	4243.5	4326.7	4970.8	5656.5
32.5°	5405.6	5383.2	5191.4	4951.6	4788.6	4783.8	4616.0	4572.8	4593.6	5236.2	6014.5
35°	5658.1	5666.1	5568.6	5360.8	5173.8	5146.7	5034.8	4980.4	4919.7	5619.7	6465.2
37.5°	6003.3	6021.0	6014.5	5835.5	5607.0	5613.3	5587.8	5498.3	5336.8	6048.1	6965.6
40°	6383.7	6396.6	6394.9	6326.2	6206.3	6212.7	6203.2	6100.8	5859.5	6593.1	7521.7
42.5°	6909.6	6848.8	6690.7	6759.3	6829.7	6860.0	6925.6	6828.1	6497.3	7174.9	8044.4
45°	7497.8	7382.7	7024.7	7056.6	7317.1	7374.7	7736.0	7601.7	7189.3	7843.0	8659.7
47.5°	7868.6	7755.1	7453.1	7446.6	7791.9	7847.9	8487.2	8437.6	7819.0	8563.9	9411.0
50°	8199.4	8183.4	7843.0	7924.5	8261.8	8344.9	9305.5	9259.1	8447.2	9414.2	10229.3
52.5°	8690.1	8560.7	8289.0	8456.8	8902.7	9011.4	10117.5	9981.6	9024.2	10165.4	11023.7
55°	8910.7	8880.3	8864.3	9009.8	9622.0	9700.3	10907.0	10595.3	9516.5	10801.6	11627.9
57.5°	9500.5	9444.5	9602.8	9701.9	10469.1	10589.0	11731.8	11236.3	9948.0	11306.6	11922.0
60°	10264.5	10234.1	10379.6	10558.6	11415.3	11597.5	12671.6	11782.9	10294.9	11560.8	11760.5
62.5°	11405.7	11402.5	11375.3	11758.9	12756.3	12924.1	13750.5	12315.2	10349.2	11370.6	10926.2
65°	13042.4	12984.9	12748.3	13167.1	14425.0	14621.6	14874.1	12612.5	10021.5	10393.9	9200.0
67.5°	14754.2	14751.0	14559.3	15102.7	16820.9	17023.8	16279.0	12546.9	9112.1	8420.0	6534.0
70°	16173.6	16104.8	16349.4	17797.4	19881.7	20116.6	17508.1	11774.9	7258.0	5560.6	3882.3
72.5°	16514.0	16517.2	17025.5	19875.3	22821.0	22857.8	17950.9	9543.7	4857.3	3067.2	1942.0
74°	15465.5	15492.7	16280.6	19979.2	23369.3	23203.0	16819.2	7501.0	3284.6	2002.7	1400.2
75°	14116.5	13945.5	15085.0	19287.1	22800.3	22621.2	15494.2	6019.3	2506.2	1599.9	1225.9
77.5°	7547.3	7721.6	9479.7	14393.0	18523.1	18316.9	10505.8	2886.6	1353.8	1114.1	882.3
80°	2686.8	2963.3	4165.2	7531.4	11875.6	11939.6	5013.9	1323.4	952.6	821.5	623.3
82.5°	1096.4	1126.8	1788.5	3342.1	6030.5	6088.1	2047.5	786.4	680.9	565.8	372.4
85°	428.4	441.1	791.1	1502.4	2573.3	2741.1	708.1	415.5	418.7	324.5	190.2
87.5°	143.8	163.0	324.5	500.3	874.3	856.7	206.2	123.1	150.3	140.6	59.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0
2.5°	4419.4	4449.8	4470.5	4492.9	4513.7	4520.1	4515.3	4529.7	4531.3	4532.9	4534.5
5°	4444.9	4486.5	4526.4	4548.8	4558.5	4550.5	4523.3	4508.9	4496.1	4486.5	4489.7
7.5°	4480.1	4539.3	4576.0	4585.6	4560.0	4523.3	4456.1	4403.4	4369.8	4347.5	4345.9
10°	4534.5	4592.0	4622.4	4595.2	4524.9	4435.4	4329.9	4230.8	4155.7	4133.3	4131.7
12.5°	4603.2	4668.7	4667.1	4587.2	4464.1	4304.3	4133.3	4018.2	3915.9	3864.8	3885.6
15°	4692.7	4742.2	4695.9	4552.0	4357.1	4138.1	3927.1	3770.5	3655.4	3601.0	3604.2
17.5°	4796.6	4839.7	4716.7	4489.7	4206.8	3925.5	3681.0	3532.3	3441.2	3401.3	3398.1
20°	4926.1	4938.9	4716.7	4381.0	4013.4	3677.8	3444.4	3340.5	3289.4	3268.6	3275.0
22.5°	5065.1	5039.5	4691.1	4227.6	3759.3	3418.8	3262.2	3215.9	3190.3	3187.0	3190.3
25°	5221.7	5149.9	4638.3	4019.8	3494.0	3195.0	3104.0	3112.0	3116.7	3116.7	3127.9
27.5°	5413.6	5269.7	4550.5	3757.7	3183.9	2987.3	2961.7	3017.7	3043.2	3048.0	3056.0
30°	5666.1	5400.7	4405.0	3430.0	2920.1	2800.2	2845.0	2920.1	2948.9	2966.5	2963.3
32.5°	5966.6	5544.7	4208.4	3102.4	2707.6	2669.2	2723.6	2800.2	2832.3	2841.8	2829.1
35°	6319.8	5707.7	3949.5	2795.5	2522.2	2544.5	2608.5	2632.4	2661.3	2661.3	2667.6
37.5°	6700.2	5838.7	3633.0	2514.2	2378.3	2459.9	2506.2	2483.8	2471.0	2455.0	2463.0
40°	7087.0	5936.2	3222.3	2236.1	2234.4	2371.9	2384.7	2320.8	2269.6	2253.6	2245.6
42.5°	7424.2	5996.9	2851.5	2020.3	2098.6	2285.7	2295.2	2192.9	2111.4	2063.4	2047.5
45°	7822.2	6067.3	2488.6	1841.3	1972.4	2216.9	2240.9	2103.4	1983.5	1882.8	1857.3
47.5°	8367.3	6227.1	2202.5	1702.2	1881.2	2173.8	2207.3	2029.8	1871.7	1740.6	1719.8
50°	8982.7	6446.0	1980.4	1607.9	1810.9	2135.4	2176.9	1954.8	1767.8	1622.3	1606.3
52.5°	9546.9	6564.4	1788.5	1523.2	1742.2	2065.1	2137.0	1900.4	1665.4	1504.1	1489.7
55°	9855.3	6372.5	1599.9	1440.1	1647.9	1973.9	2081.1	1825.3	1566.4	1441.7	1420.9
57.5°	9896.9	5976.2	1428.9	1350.6	1548.8	1862.1	1977.2	1734.2	1502.4	1398.5	1381.0
60°	9575.6	5384.8	1296.3	1277.1	1448.1	1735.8	1860.5	1654.2	1436.9	1350.6	1333.0
62.5°	8776.4	4742.2	1203.5	1210.0	1345.8	1603.1	1774.1	1577.6	1374.6	1297.8	1281.8
65°	7401.9	3914.3	1114.1	1141.2	1254.7	1499.2	1695.8	1513.6	1312.2	1257.9	1243.5
67.5°	5141.8	2825.8	1040.5	1069.3	1168.4	1393.7	1604.8	1444.9	1241.9	1213.1	1190.8
70°	2846.6	1739.0	954.2	987.8	1078.9	1275.5	1502.4	1341.0	1139.6	1126.8	1094.9
72.5°	1496.1	1107.6	856.7	893.5	957.4	1123.6	1345.8	1227.5	1038.9	984.5	943.0
74°	1168.4	907.9	791.1	829.5	872.7	1034.1	1253.1	1146.0	967.0	903.0	871.1
75°	1018.1	808.8	735.2	784.8	823.2	973.3	1181.2	1088.4	927.1	866.3	837.5
77.5°	719.3	605.8	601.0	660.1	680.9	853.5	1064.5	991.0	826.3	762.4	735.2
80°	505.0	453.9	476.3	513.1	541.8	754.4	987.8	856.7	677.7	602.6	593.0
82.5°	329.3	297.3	340.4	374.0	383.6	556.2	797.6	650.5	493.9	401.2	372.4
85°	151.8	148.6	195.0	190.2	188.6	271.7	473.1	380.4	284.5	212.6	199.8
87.5°	38.4	36.7	47.9	39.9	47.9	41.6	43.1	11.2	1.6	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)