

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: P648647

Luminaire Tested: **GALN-SA9B-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40317.5 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

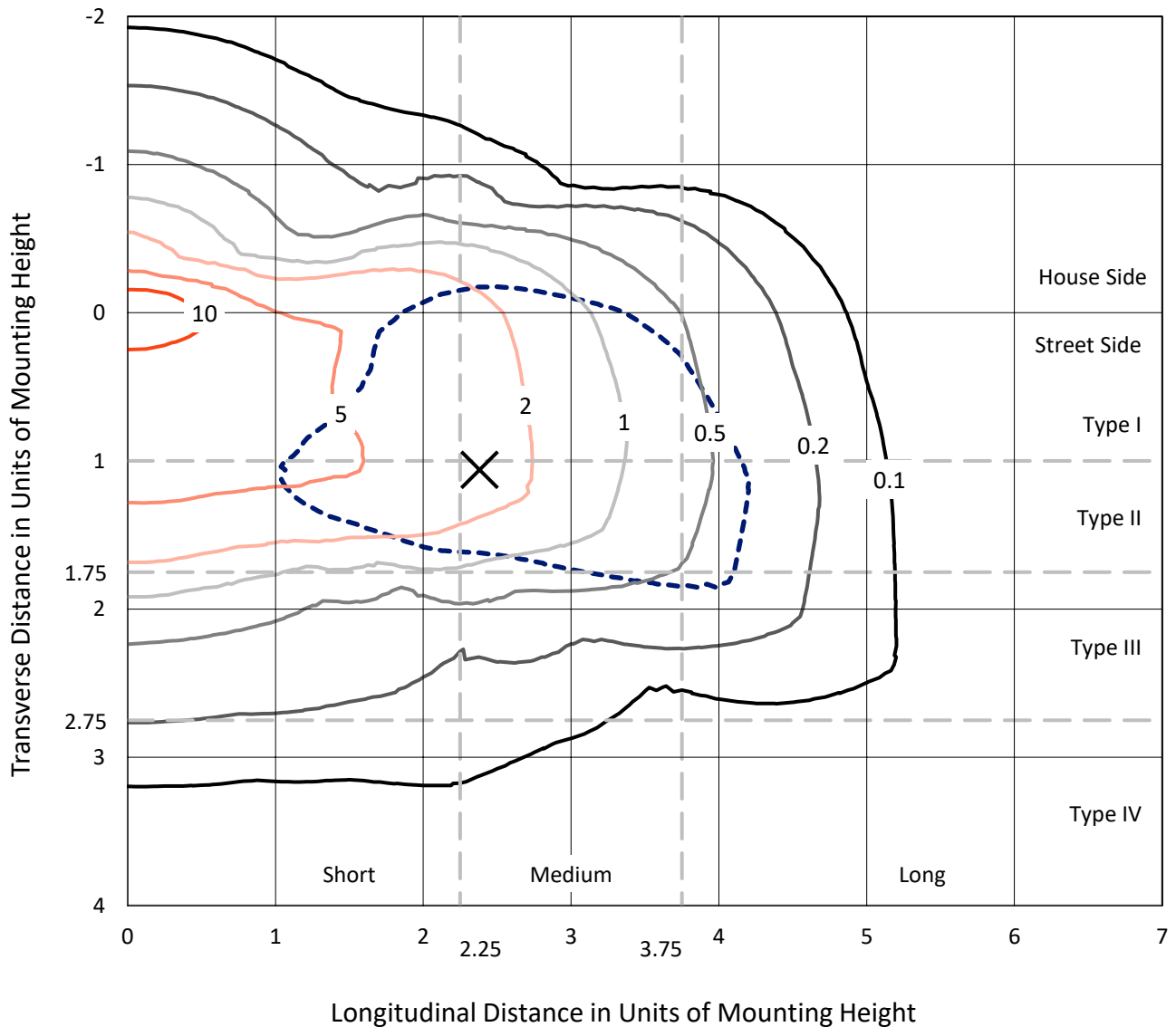
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

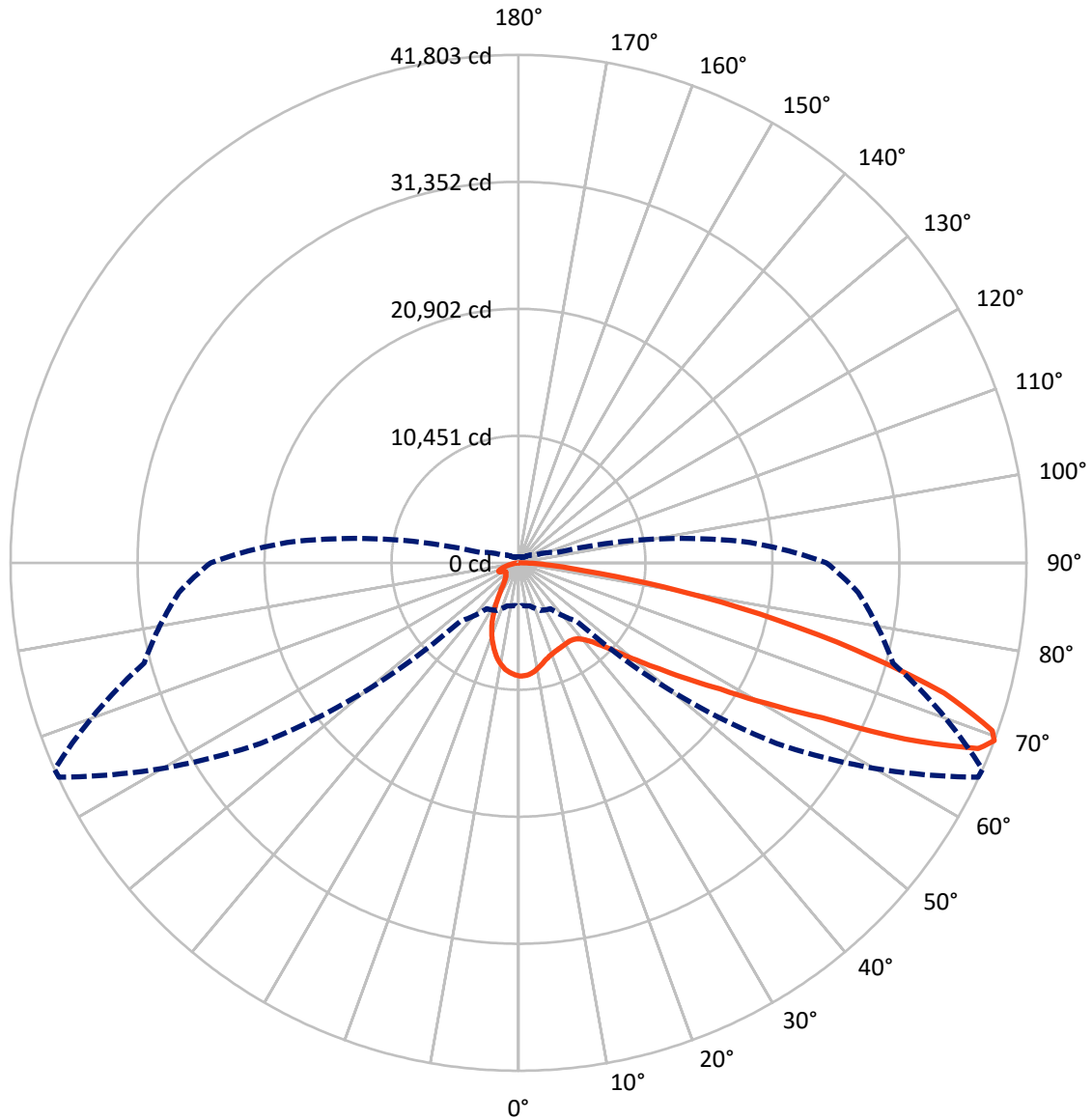
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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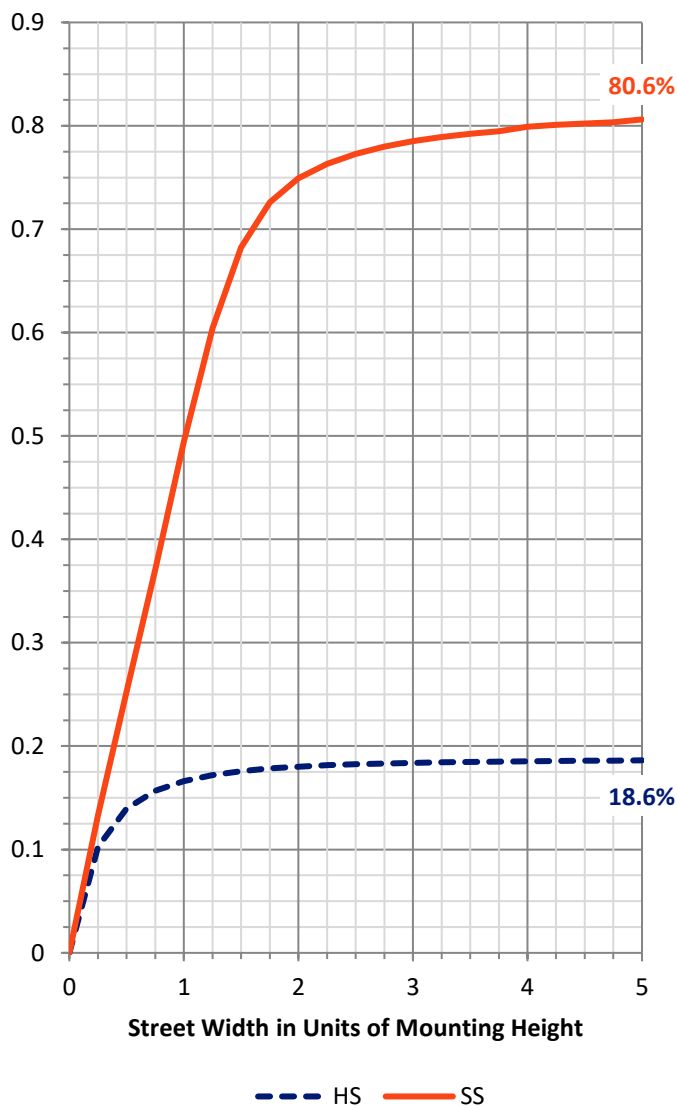
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7582.2	0.0	7582.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	32735.3	0.0	32735.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	40317.5	0.0	40317.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.5	2.0
10°-20°	1917.7	4.8
20°-30°	2610.7	6.5
30°-40°	3508.2	8.7
40°-50°	5238.4	13.0
50°-60°	8332.5	20.7
60°-70°	10248.5	25.4
70°-80°	6668.2	16.5
80°-90°	984.7	2.4
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°	40317.5	100.0
0°-180°	40317.5	100.0

**Coefficient of Utilization**

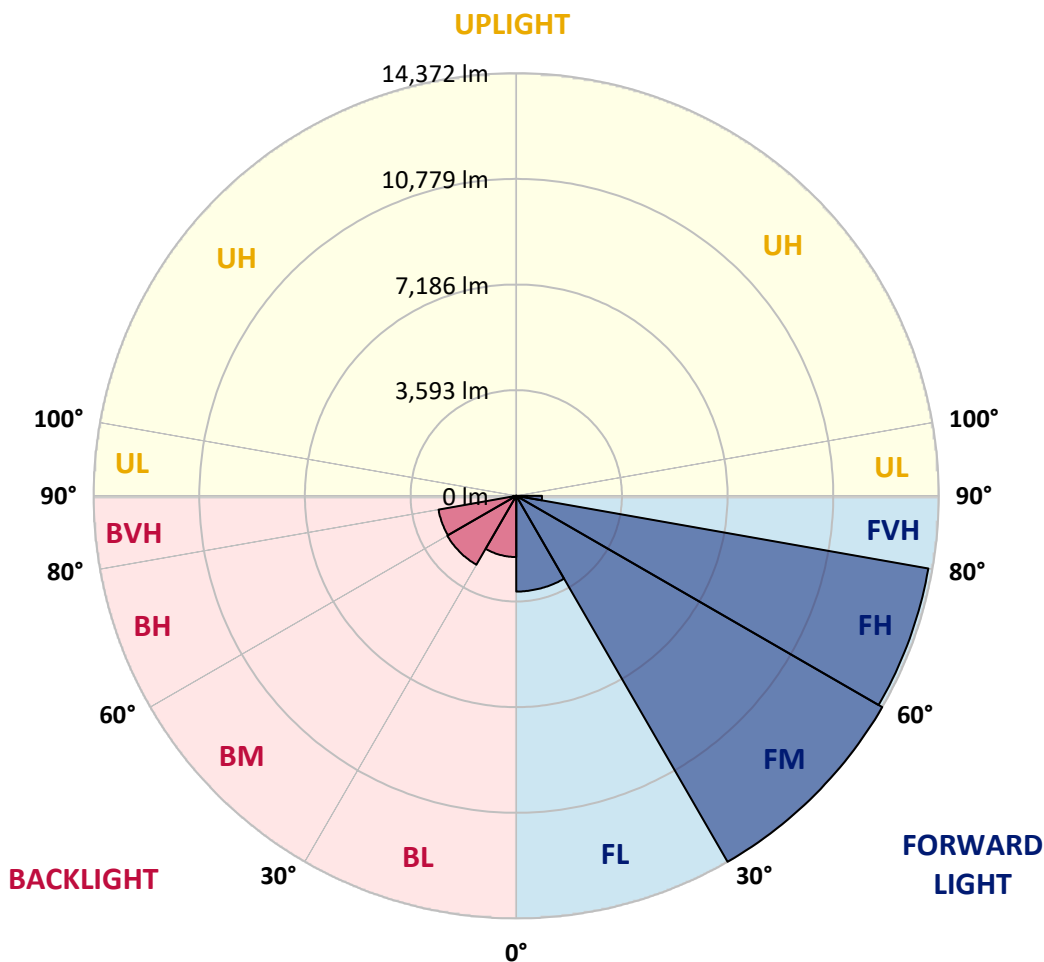


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3255.6	8.1			
FM (30°-60°)	14372.0	35.6			
FH (60°-80°)	14232.3	35.3			G5
FVH (80°-90°)	875.4	2.2			G5
BL (0°-30°)	2081.3	5.2	B3/2500		
BM (30°-60°)	2707.2	6.7	B3/5000		
BH (60°-80°)	2684.4	6.7	B4/5000		G4/5000
BVH (80°-90°)	109.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4
2.5°	8984.5	9020.2	9060.3	9105.0	9189.8	9236.7	9270.3	9308.2	9312.7	9332.7	9317.2
5°	8321.3	8363.8	8424.1	8508.9	8636.2	8834.8	9040.3	9207.7	9227.8	9321.6	9348.4
7.5°	7767.6	7792.2	7841.3	7977.5	8158.3	8379.4	8678.5	9018.0	9067.1	9290.3	9368.4
10°	7316.6	7341.2	7399.2	7539.9	7718.5	7995.4	8323.5	8770.1	8810.3	9194.3	9372.9
12.5°	6979.4	7001.8	7064.3	7202.7	7408.1	7667.1	8028.8	8502.2	8560.2	9067.1	9330.5
15°	6722.7	6765.1	6816.5	6930.3	7146.9	7397.0	7747.6	8256.6	8303.5	8933.1	9301.5
17.5°	6613.3	6633.4	6669.1	6774.0	6932.6	7178.2	7531.0	8064.6	8120.4	8839.3	9294.8
20°	6617.8	6637.9	6644.5	6702.6	6816.5	7028.6	7376.9	7912.8	7979.7	8756.7	9306.0
22.5°	6769.6	6771.9	6747.3	6727.1	6771.9	6948.2	7267.5	7798.8	7877.0	8721.0	9314.9
25°	7004.0	7044.2	7008.5	6914.8	6832.1	6916.9	7225.1	7736.4	7810.0	8669.6	9303.7
27.5°	7383.6	7390.3	7361.3	7234.0	7019.7	6957.1	7207.2	7689.5	7752.0	8631.7	9247.9
30°	7892.6	7872.5	7845.7	7705.1	7368.0	7111.2	7245.2	7647.0	7711.8	8575.9	9180.9
32.5°	8408.4	8470.9	8446.4	8281.2	7843.5	7410.4	7368.0	7642.5	7696.2	8533.4	9107.2
35°	8955.4	8984.5	9100.6	9015.7	8567.0	7894.9	7597.9	7711.8	7754.2	8535.6	9055.9
37.5°	9384.1	9462.2	9734.6	9808.3	9386.4	8535.6	7970.8	7908.3	7926.2	8645.1	9076.0
40°	9902.1	10036.0	10386.6	10688.0	10411.2	9368.4	8604.9	8272.2	8294.6	8908.5	9207.7
42.5°	10558.5	10652.2	11123.4	11531.9	11487.3	10469.2	9372.9	8868.3	8879.5	9433.2	9576.1
45°	11326.6	11460.5	11989.7	12603.6	12708.6	11715.1	10482.6	9770.4	9763.7	10248.1	10263.8
47.5°	12309.0	12391.6	12916.3	13586.1	14010.3	13280.1	11828.9	11065.4	10993.9	11435.9	11308.7
50°	13213.2	13342.7	13740.2	14472.4	15528.5	15113.2	13599.5	12744.3	12576.9	12990.0	12775.6
52.5°	13592.8	13729.0	14063.9	14972.6	16830.2	17484.4	15847.8	14747.1	14468.0	14785.0	14706.9
55°	12934.1	13110.5	13423.0	14528.3	17401.8	20219.5	18879.9	17062.4	16859.2	16723.0	16745.4
57.5°	11163.5	11331.0	11753.0	12972.0	16718.5	22204.3	23209.1	20038.6	19603.3	18975.8	19083.0
60°	8497.7	8602.7	8821.4	10172.3	14693.5	22720.1	28125.5	23800.8	23523.9	21219.7	21295.6
62.5°	6035.1	6153.4	6305.2	6979.4	10757.2	21266.6	31974.7	29054.3	28065.2	23543.9	23470.3
65°	4900.8	4820.5	5003.5	5318.3	6311.9	16481.9	32841.0	36346.4	34984.4	26605.0	25582.4
67.5°	4030.0	3945.2	4126.0	4686.5	4800.3	9567.2	29719.6	41079.7	40807.3	29934.0	27728.1
69°	3567.9	3523.2	3681.7	4320.3	4608.3	6794.2	25890.5	41738.4	41803.1	31896.5	28058.5
70°	3215.1	3233.0	3387.0	4135.0	4521.3	5601.9	22128.4	40829.7	41378.9	32876.8	27701.3
72.5°	2366.7	2404.7	2619.0	3425.0	4438.7	4753.4	13168.6	35663.1	36634.4	32934.8	25341.3
75°	1654.5	1636.5	1826.3	2578.8	4193.0	4711.0	7734.2	27580.7	28681.4	28467.1	21293.4
77.5°	1082.9	1111.9	1263.7	1821.9	3527.7	4675.3	5041.5	19567.5	20282.0	19038.3	12594.7
80°	763.6	761.4	846.2	1243.6	2616.7	4492.2	4128.3	12333.5	12152.6	7481.8	3735.3
82.5°	437.6	468.9	567.1	875.2	1750.5	3954.2	3797.9	5898.8	5385.3	2132.3	1261.5
85°	243.4	254.6	337.2	529.2	1022.6	2978.5	3315.6	2683.7	2531.9	890.8	542.5
87.5°	78.1	84.9	140.6	267.9	464.4	1406.6	1877.7	1239.2	1143.2	321.5	218.8
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°	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4	9310.4
2.5°	9323.8	9350.6	9279.2	9210.0	9147.4	9060.3	8982.2	8917.4	8872.8	8866.1	8843.8
5°	9355.0	9357.3	9221.1	9038.0	8859.4	8663.0	8459.8	8314.6	8178.4	8102.5	8064.6
7.5°	9377.4	9357.3	9111.7	8814.8	8470.9	8113.7	7756.5	7470.7	7249.6	7162.6	7196.0
10°	9368.4	9306.0	8946.5	8470.9	7970.8	7437.2	6923.7	6521.8	6153.4	5963.6	5968.0
12.5°	9319.3	9216.6	8700.9	8084.6	7350.1	6635.6	5849.7	5307.2	4880.8	4628.4	4550.2
15°	9276.9	9098.3	8412.9	7559.9	6646.8	5626.4	4668.6	3998.8	3641.6	3442.9	3440.6
17.5°	9232.3	8984.5	8098.0	7004.0	5838.5	4525.7	3521.0	3009.7	2842.2	2862.3	2828.8
20°	9185.4	8850.5	7769.9	6385.6	4853.9	3375.8	2636.8	2429.2	2476.1	2567.6	2581.0
22.5°	9131.8	8707.6	7417.0	5704.6	3817.9	2540.8	2138.9	2107.7	2228.3	2371.2	2391.2
25°	9049.2	8529.0	6972.8	4992.3	2944.9	2047.4	1873.2	1895.6	2013.9	2134.5	2147.8
27.5°	8933.1	8307.9	6524.0	4103.7	2212.6	1757.1	1712.5	1741.5	1799.6	1873.2	1891.1
30°	8776.8	8057.9	6008.3	3335.7	1772.8	1612.0	1594.2	1609.8	1643.3	1674.5	1683.4
32.5°	8620.5	7816.8	5488.0	2554.2	1580.8	1516.0	1498.1	1498.1	1498.1	1502.7	1504.8
35°	8475.3	7589.0	4929.8	1989.4	1480.3	1440.1	1415.5	1388.7	1384.3	1368.7	1368.7
37.5°	8395.0	7381.3	4335.9	1665.6	1406.6	1377.6	1344.1	1299.5	1274.9	1277.2	1272.6
40°	8410.7	7245.2	3795.6	1482.5	1346.3	1315.0	1263.7	1212.4	1196.7	1196.7	1192.3
42.5°	8587.0	7200.5	3277.6	1386.5	1288.3	1252.6	1187.8	1140.9	1132.0	1129.8	1134.3
45°	8993.4	7309.9	2813.2	1324.0	1239.2	1185.5	1120.8	1078.4	1069.5	1069.5	1067.2
47.5°	9786.0	7664.9	2480.5	1283.8	1203.5	1134.3	1067.2	1024.8	1009.2	1004.7	1004.7
50°	11018.5	8435.2	2232.7	1248.1	1158.8	1087.4	1018.1	969.0	944.5	942.2	940.0
52.5°	12731.0	9636.4	2136.7	1221.3	1109.7	1038.2	962.3	915.4	884.2	877.4	873.0
55°	14733.7	11313.2	2268.4	1201.2	1058.3	982.4	904.3	855.1	826.1	812.7	810.5
57.5°	17053.5	13327.1	2768.5	1174.4	1011.4	922.1	846.2	797.1	765.9	750.2	745.7
60°	19136.6	15396.8	3641.6	1158.8	971.2	857.4	779.2	734.5	705.6	689.9	687.7
62.5°	21425.2	17370.5	4684.2	1201.2	953.4	794.8	716.7	676.5	651.9	636.3	636.3
65°	23870.0	19346.4	5374.1	1344.1	980.2	745.7	649.7	616.2	593.9	582.7	580.5
67.5°	25517.7	20029.7	4427.5	1491.5	1047.1	692.2	585.0	558.2	544.8	533.6	533.6
69°	25339.1	19165.6	3266.4	1529.4	1067.2	665.3	549.3	529.2	511.3	506.8	502.4
70°	24774.2	18181.0	2737.3	1504.8	1051.6	640.8	527.0	502.4	486.7	482.2	480.1
72.5°	22066.0	15767.4	2038.5	1308.4	895.3	555.9	466.7	444.3	430.9	424.2	424.2
75°	18332.8	12887.2	1591.9	1040.5	701.1	468.9	399.6	381.8	370.6	366.1	363.9
77.5°	10274.9	7196.0	1143.2	814.9	531.4	379.6	334.9	319.3	308.1	303.6	303.6
80°	2862.3	2056.3	672.0	538.1	361.7	288.0	265.7	254.6	238.9	227.8	234.4
82.5°	1078.4	890.8	384.1	323.8	230.0	192.0	185.3	176.4	169.7	154.1	154.1
85°	524.7	433.2	245.6	171.9	127.2	100.5	96.0	91.5	87.1	76.0	78.1
87.5°	180.9	192.0	107.2	62.5	38.0	24.6	20.1	11.2	11.2	11.2	11.2
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)