

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: P457998

Luminaire Tested: **GALN-SA9B-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457998  
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-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 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: 37852 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

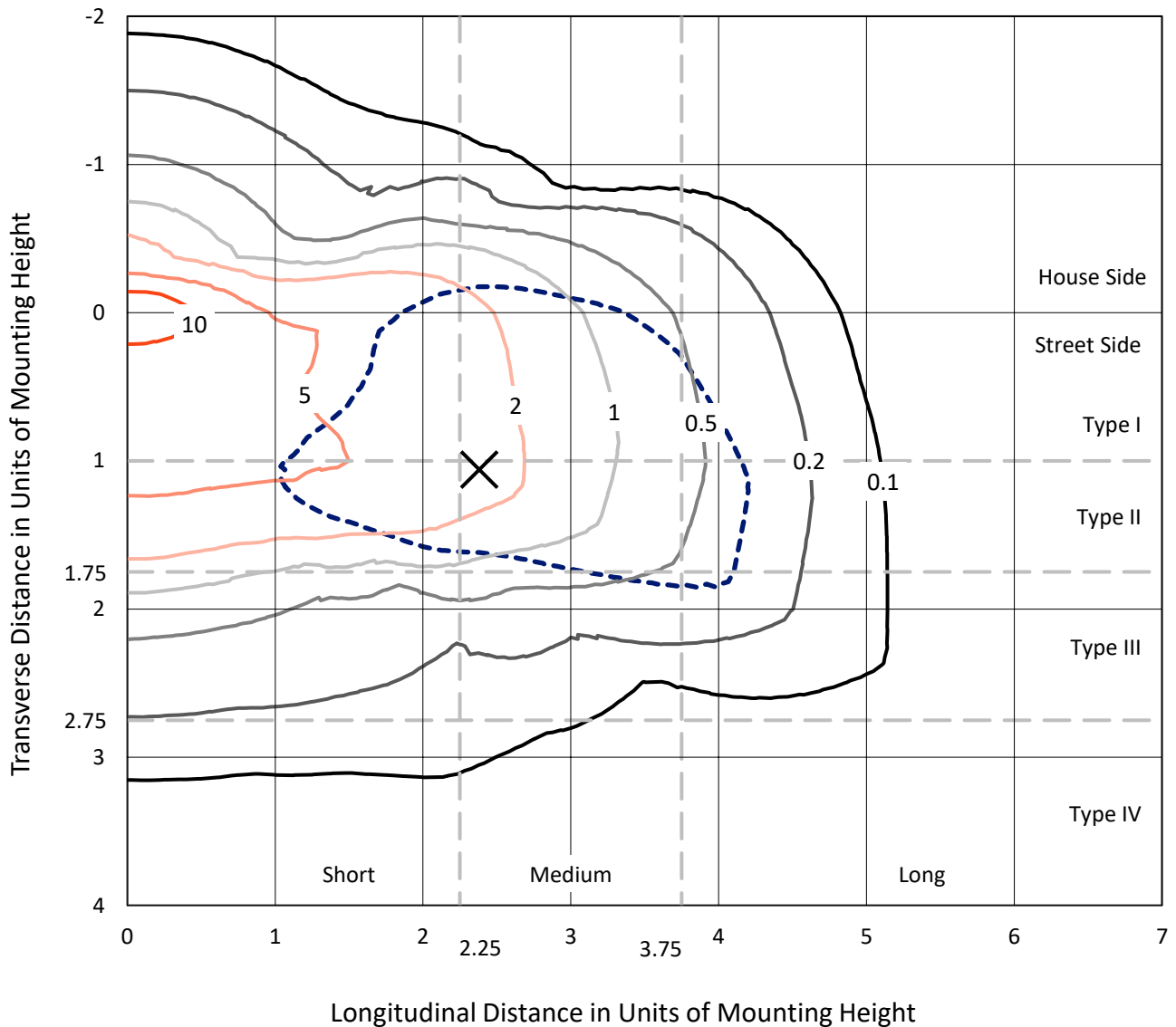
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

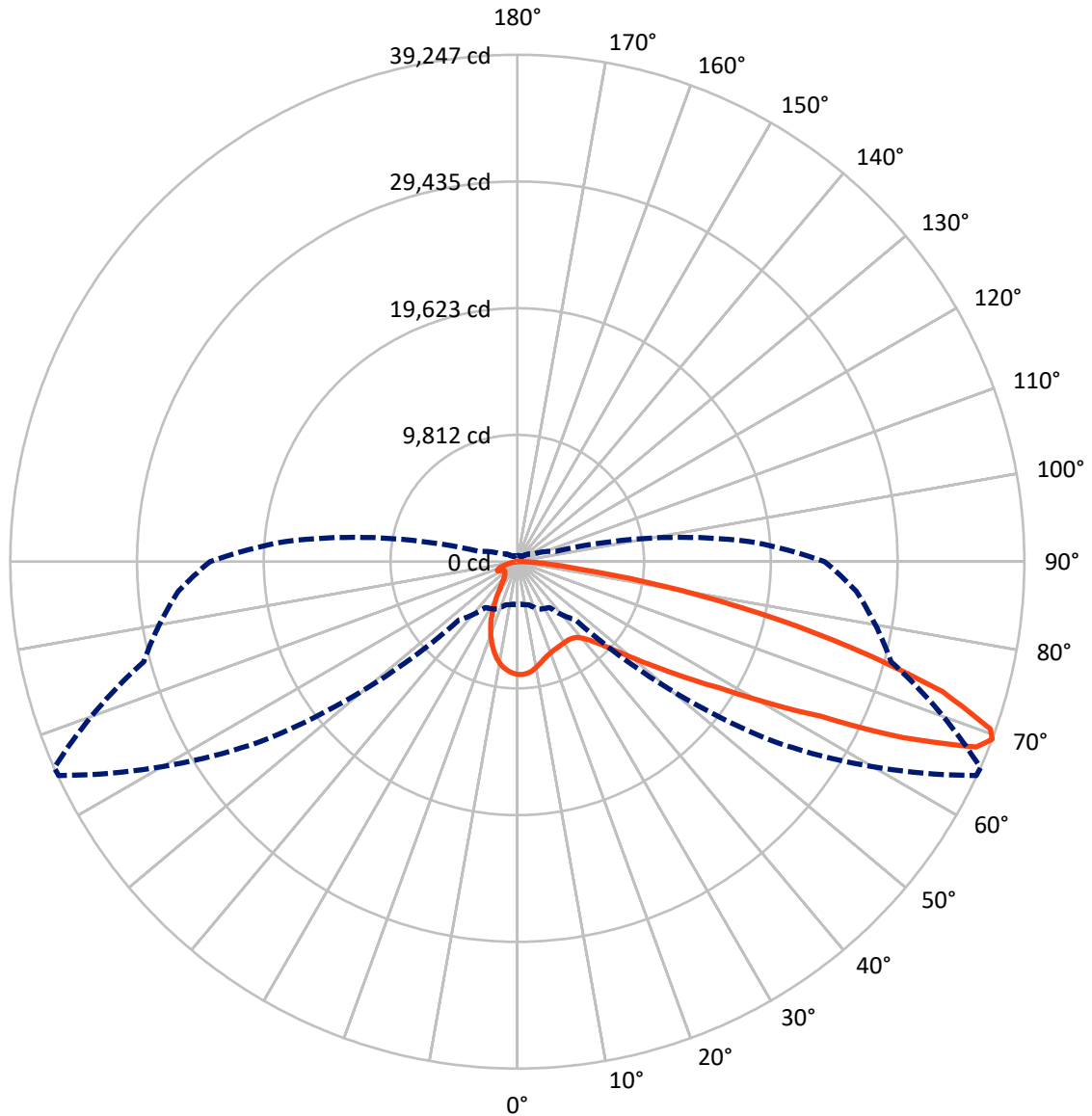
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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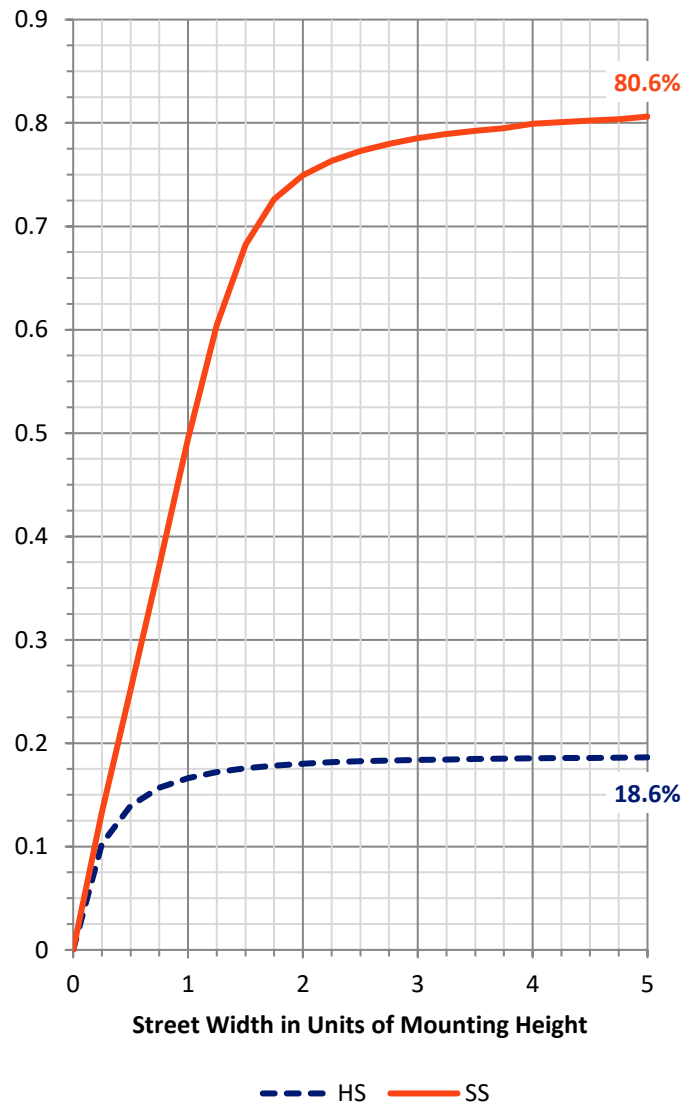
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7118.5	0.0	7118.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30733.5	0.0	30733.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	37852.0	0.0	37852.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.1	2.0
10°-20°	1800.4	4.8
20°-30°	2451.1	6.5
30°-40°	3293.7	8.7
40°-50°	4918.1	13.0
50°-60°	7823.0	20.7
60°-70°	9621.8	25.4
70°-80°	6260.4	16.5
80°-90°	924.5	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°	37852.0	100.0
0°-180°	37852.0	100.0



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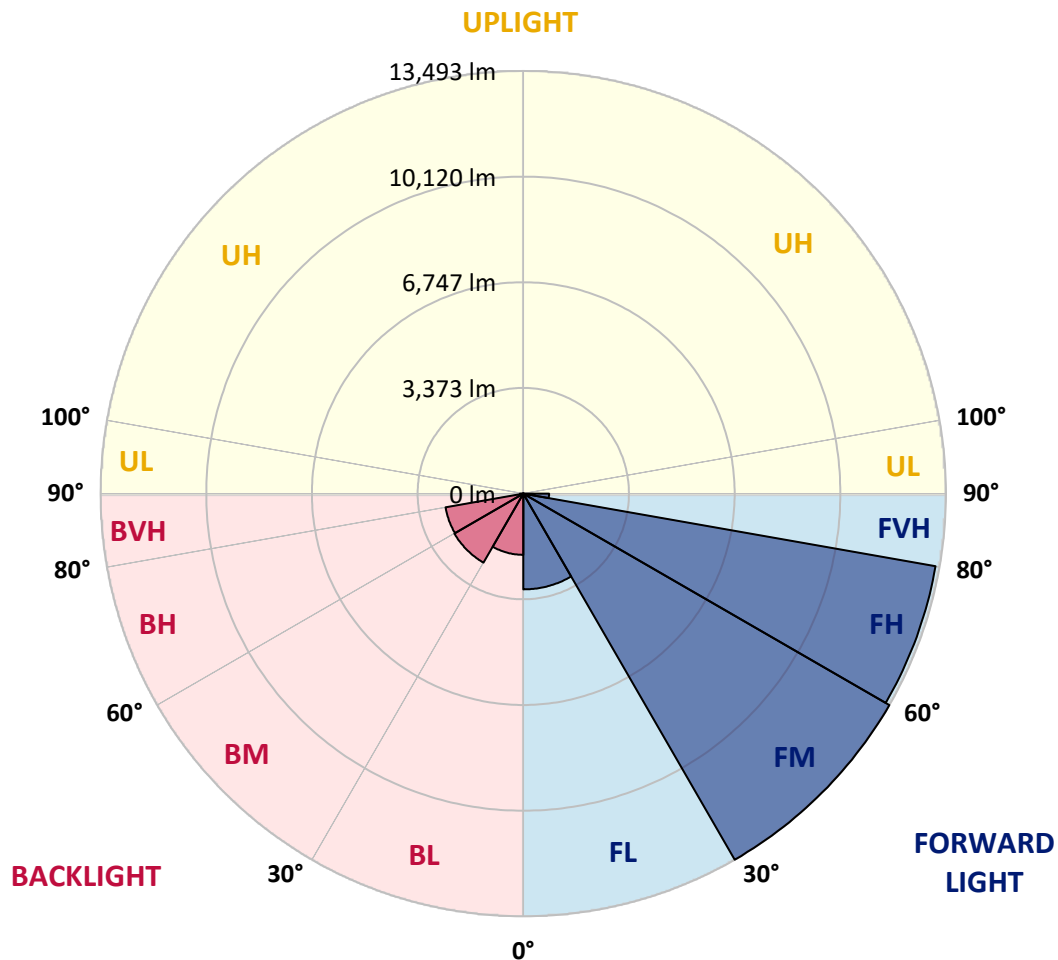
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3056.5	8.1			
FM	(30°-60°)	13493.1	35.6			
FH	(60°-80°)	13362.0	35.3			G5
FVH	(80°-90°)	821.9	2.2			G5
BL	(0°-30°)	1954.1	5.2	B3/2500		
BM	(30°-60°)	2541.6	6.7	B3/5000		
BH	(60°-80°)	2520.3	6.7	B4/5000		G4/5000
BVH	(80°-90°)	102.6	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°	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1
2.5°	8435.0	8468.6	8506.3	8548.2	8627.9	8671.9	8703.3	8739.0	8743.2	8762.0	8747.4
5°	7812.5	7852.3	7908.9	7988.5	8108.0	8294.6	8487.4	8644.7	8663.5	8751.6	8776.7
7.5°	7292.6	7315.7	7361.8	7489.7	7659.4	7867.0	8147.9	8466.5	8512.6	8722.2	8795.6
10°	6869.2	6892.2	6946.7	7078.8	7246.5	7506.4	7814.6	8233.8	8271.5	8632.1	8799.8
12.5°	6552.7	6573.6	6632.3	6762.3	6955.1	7198.3	7537.9	7982.3	8036.8	8512.6	8759.9
15°	6311.6	6351.4	6399.6	6506.5	6709.9	6944.7	7273.8	7751.7	7795.7	8386.8	8732.7
17.5°	6208.9	6227.8	6261.3	6359.8	6508.6	6739.2	7070.4	7571.4	7623.8	8298.8	8726.4
20°	6213.1	6231.9	6238.2	6292.7	6399.6	6598.8	6925.8	7428.9	7491.8	8221.2	8736.9
22.5°	6355.6	6357.7	6334.7	6315.8	6357.7	6523.3	6823.1	7322.0	7395.3	8187.7	8745.3
25°	6575.7	6613.5	6579.9	6491.9	6414.3	6494.0	6783.2	7263.3	7332.4	8139.5	8734.8
27.5°	6932.1	6938.4	6911.1	6791.6	6590.4	6531.7	6766.5	7219.3	7277.9	8103.8	8682.4
30°	7410.0	7391.1	7366.0	7233.9	6917.4	6676.3	6802.1	7179.4	7240.2	8051.4	8619.5
32.5°	7894.2	7952.9	7929.9	7774.7	7363.9	6957.2	6917.4	7175.2	7225.5	8011.6	8550.3
35°	8407.8	8435.0	8544.0	8464.4	8043.0	7412.1	7133.3	7240.2	7280.0	8013.7	8502.1
37.5°	8810.3	8883.6	9139.4	9208.5	8812.3	8013.7	7483.4	7424.7	7441.4	8116.4	8521.0
40°	9296.6	9422.3	9751.4	10034.4	9774.5	8795.6	8078.7	7766.4	7787.3	8363.8	8644.7
42.5°	9912.8	10000.9	10443.2	10826.8	10784.9	9829.0	8799.8	8326.0	8336.5	8856.4	8990.5
45°	10633.9	10759.7	11256.5	11832.9	11931.5	10998.7	9841.6	9172.9	9166.6	9621.5	9636.1
47.5°	11556.3	11633.8	12126.4	12755.3	13153.5	12468.1	11105.6	10388.7	10321.6	10736.6	10617.2
50°	12405.2	12526.8	12899.9	13587.5	14578.9	14189.1	12767.8	11965.0	11807.8	12195.6	11994.4
52.5°	12761.6	12889.4	13203.8	14057.0	15801.0	16415.2	14878.7	13845.3	13583.3	13880.9	13807.6
55°	12143.2	12308.8	12602.2	13639.9	16337.6	18983.0	17725.3	16019.0	15828.3	15700.4	15721.4
57.5°	10480.9	10638.1	11034.3	12178.8	15696.2	20846.5	21789.8	18813.2	18404.5	17815.4	17916.1
60°	7978.1	8076.6	8282.0	9550.2	13795.0	21330.7	26405.6	22345.3	22085.4	19922.1	19993.4
62.5°	5666.0	5777.1	5919.6	6552.7	10099.4	19966.1	30019.4	27277.6	26349.0	22104.2	22035.1
65°	4601.1	4525.7	4697.5	4993.1	5925.9	15474.0	30832.7	34123.7	32845.1	24978.1	24018.1
67.5°	3783.6	3704.0	3873.7	4399.9	4506.8	8982.1	27902.3	38567.7	38311.9	28103.5	26032.5
69°	3349.7	3307.8	3456.6	4056.1	4326.5	6378.7	24307.3	39186.0	39246.8	29946.1	26342.7
70°	3018.5	3035.3	3179.9	3882.1	4244.8	5259.3	20775.3	38332.9	38848.5	30866.3	26007.3
72.5°	2222.0	2257.6	2458.8	3215.5	4167.2	4462.8	12363.3	33482.3	34394.2	30920.8	23791.7
75°	1553.3	1536.5	1714.7	2421.1	3936.6	4422.9	7261.2	25894.1	26927.6	26726.3	19991.3
77.5°	1016.6	1043.9	1186.4	1710.5	3312.0	4389.4	4733.2	18370.9	19041.7	17874.1	11824.6
80°	716.9	714.8	794.5	1167.6	2456.7	4217.5	3875.8	11579.3	11409.5	7024.3	3506.9
82.5°	410.9	440.2	532.4	821.7	1643.4	3712.3	3565.6	5538.1	5056.0	2001.9	1184.3
85°	228.5	239.0	316.5	496.8	960.1	2796.3	3112.8	2519.6	2377.1	836.4	509.4
87.5°	73.4	79.7	132.1	251.5	436.0	1320.6	1762.9	1163.4	1073.2	301.9	205.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1	8741.1
2.5°	8753.7	8778.8	8711.7	8646.8	8588.1	8506.3	8432.9	8372.2	8330.2	8323.9	8303.0
5°	8783.0	8785.1	8657.2	8485.3	8317.6	8133.2	7942.4	7806.2	7678.3	7607.0	7571.4
7.5°	8804.0	8785.1	8554.5	8275.7	7952.9	7617.5	7282.1	7013.8	6806.3	6724.6	6756.0
10°	8795.6	8736.9	8399.4	7952.9	7483.4	6982.4	6500.3	6122.9	5777.1	5598.9	5603.1
12.5°	8749.5	8653.0	8168.8	7590.3	6900.6	6229.9	5492.0	4982.6	4582.3	4345.4	4272.0
15°	8709.6	8541.9	7898.4	7097.7	6240.3	5282.4	4383.1	3754.3	3418.9	3232.3	3230.2
17.5°	8667.7	8435.0	7602.9	6575.7	5481.5	4249.0	3305.7	2825.7	2668.4	2687.3	2655.9
20°	8623.7	8309.3	7294.7	5995.1	4557.1	3169.4	2475.6	2280.6	2324.7	2410.6	2423.2
22.5°	8573.4	8175.1	6963.5	5355.7	3584.5	2385.5	2008.1	1978.8	2092.0	2226.1	2245.0
25°	8495.8	8007.4	6546.4	4687.1	2764.9	1922.2	1758.7	1779.7	1890.8	2003.9	2016.5
27.5°	8386.8	7799.9	6125.0	3852.8	2077.3	1649.7	1607.8	1635.0	1689.5	1758.7	1775.5
30°	8240.1	7565.1	5640.8	3131.7	1664.4	1513.4	1496.7	1511.3	1542.8	1572.1	1580.5
32.5°	8093.4	7338.7	5152.4	2398.0	1484.1	1423.3	1406.5	1406.5	1406.5	1410.7	1412.8
35°	7957.1	7124.9	4628.4	1867.7	1389.8	1352.0	1329.0	1303.8	1299.6	1285.0	1285.0
37.5°	7881.6	6930.0	4070.8	1563.8	1320.6	1293.3	1261.9	1220.0	1196.9	1199.0	1194.8
40°	7896.3	6802.1	3563.5	1391.9	1264.0	1234.7	1186.4	1138.2	1123.6	1123.6	1119.4
42.5°	8061.9	6760.2	3077.2	1301.7	1209.5	1176.0	1115.2	1071.1	1062.8	1060.7	1064.9
45°	8443.4	6862.9	2641.2	1243.0	1163.4	1113.1	1052.3	1012.5	1004.1	1004.1	1002.0
47.5°	9187.6	7196.2	2328.9	1205.3	1129.8	1064.9	1002.0	962.1	947.5	943.3	943.3
50°	10344.7	7919.4	2096.2	1171.8	1087.9	1020.8	955.9	909.7	886.7	884.6	882.5
52.5°	11952.4	9047.1	2006.0	1146.6	1041.8	974.7	903.5	859.4	830.1	823.8	819.6
55°	13832.7	10621.4	2129.7	1127.7	993.6	922.3	849.0	802.8	775.6	763.0	760.9
57.5°	16010.6	12512.1	2599.3	1102.6	949.6	865.7	794.5	748.3	719.0	704.3	700.1
60°	17966.4	14455.3	3418.9	1087.9	911.8	804.9	731.6	689.6	662.4	647.7	645.6
62.5°	20115.0	16308.3	4397.8	1127.7	895.1	746.2	672.9	635.1	612.1	597.4	597.4
65°	22410.3	18163.4	5045.5	1261.9	920.2	700.1	610.0	578.5	557.6	547.1	545.0
67.5°	23957.3	18804.8	4156.7	1400.2	983.1	649.8	549.2	524.0	511.5	501.0	501.0
69°	23789.6	17993.6	3066.7	1435.9	1002.0	624.7	515.7	496.8	480.0	475.8	471.6
70°	23259.2	17069.2	2569.9	1412.8	987.3	601.6	494.7	471.6	457.0	452.8	450.7
72.5°	20716.6	14803.2	1913.8	1228.4	840.6	521.9	438.1	417.1	404.6	398.3	398.3
75°	17211.7	12099.2	1494.6	976.8	658.2	440.2	375.2	358.4	348.0	343.8	341.7
77.5°	9646.6	6756.0	1073.2	765.1	498.9	356.4	314.4	299.8	289.3	285.1	285.1
80°	2687.3	1930.6	631.0	505.2	339.6	270.4	249.4	239.0	224.3	213.8	220.1
82.5°	1012.5	836.4	360.5	303.9	215.9	180.3	174.0	165.6	159.3	144.6	144.6
85°	492.6	406.7	230.6	161.4	119.5	94.3	90.1	85.9	81.8	71.3	73.4
87.5°	169.8	180.3	100.6	58.7	35.6	23.1	18.9	10.5	10.5	10.5	10.5
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)