

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: P944504

Luminaire Tested: **GALN-SB9C-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46202 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 449.8
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

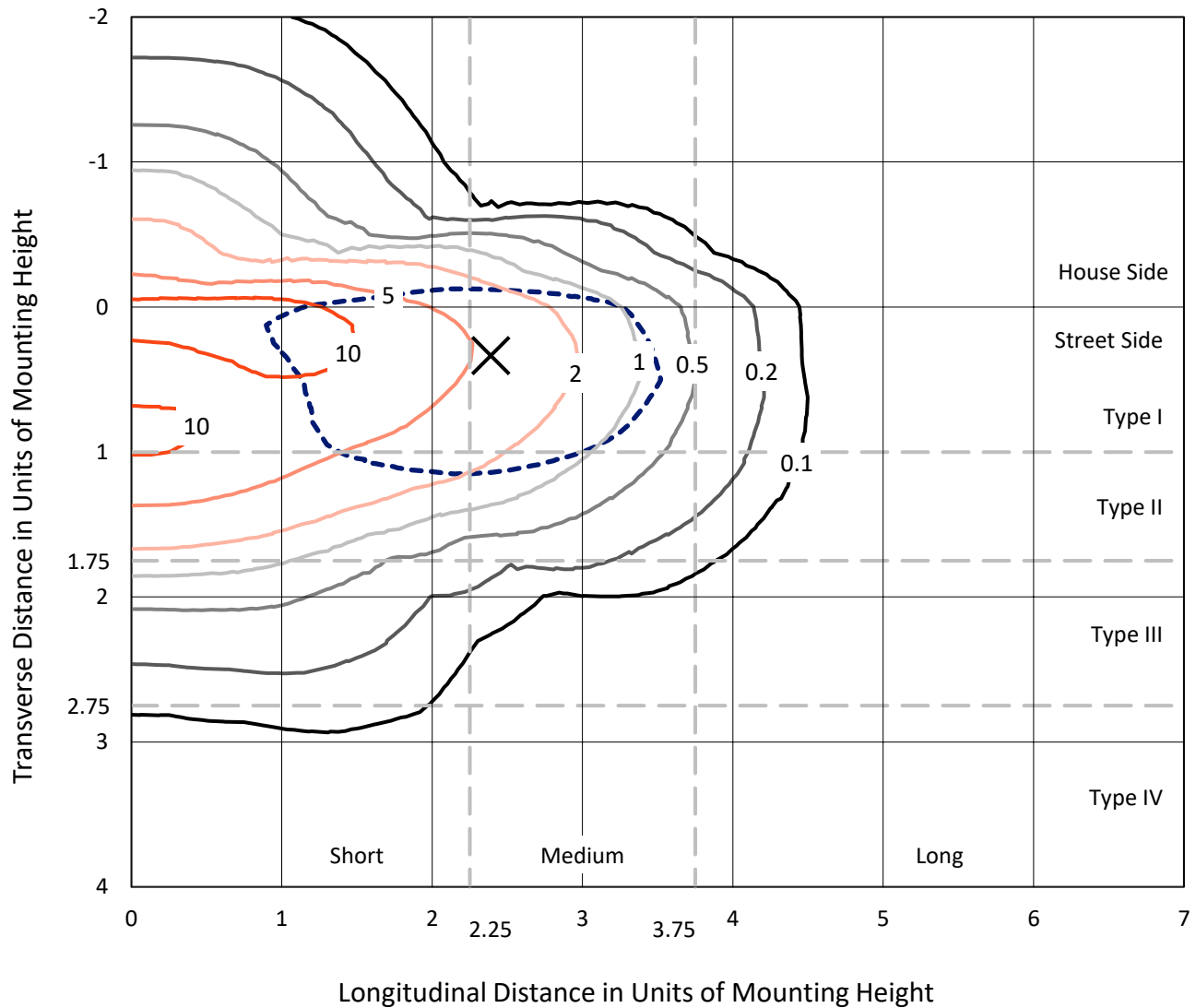


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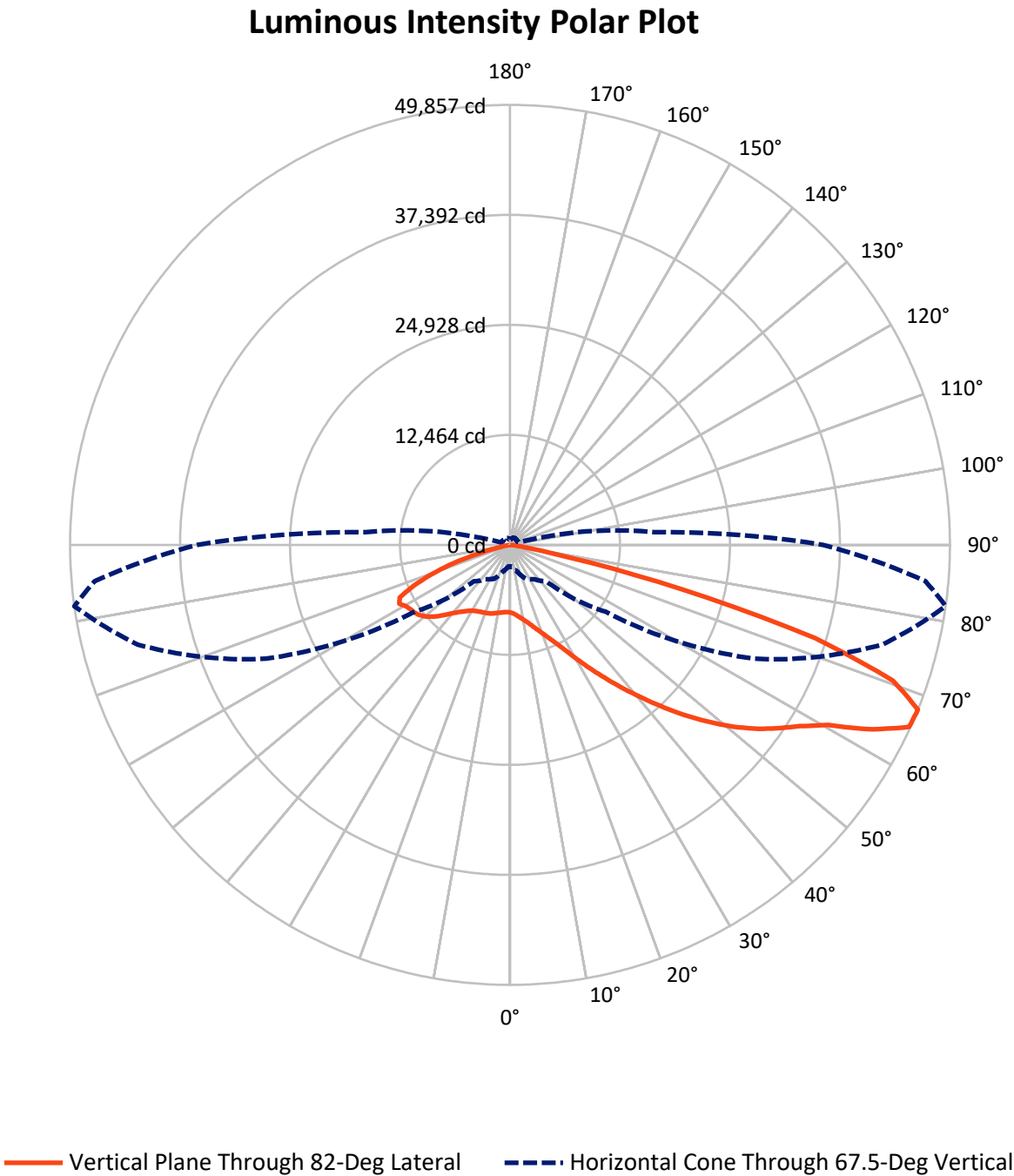
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Medium - N/A

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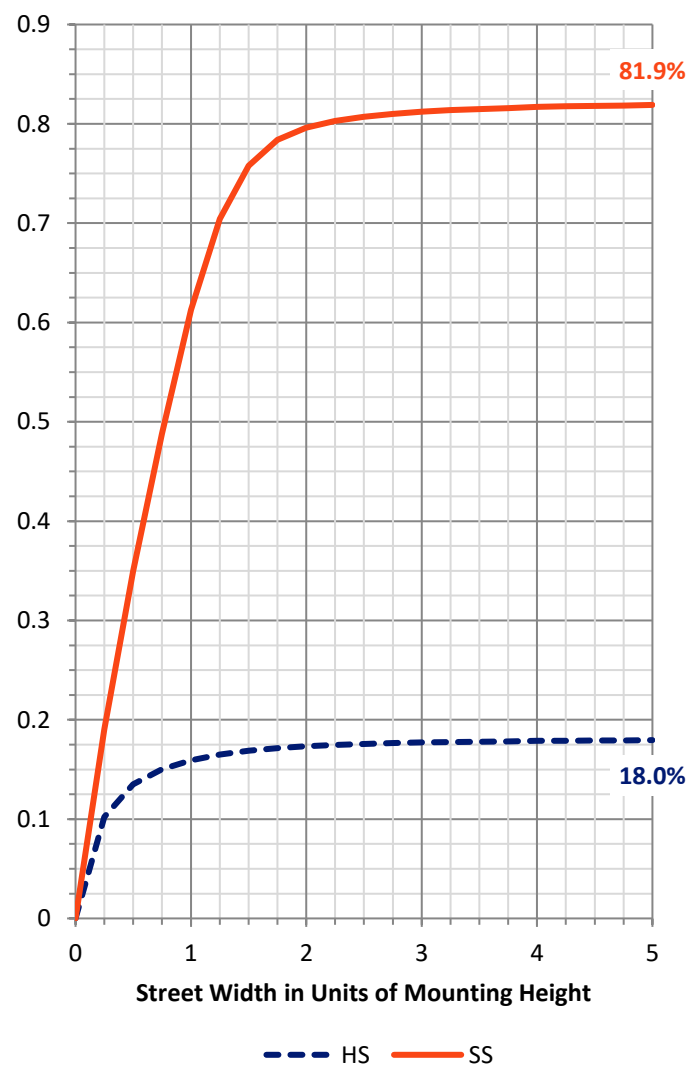
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8369.1	0.0	8369.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	37832.9	0.0	37832.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	46202.0	0.0	46202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.9	1.5
10°-20°	1772.1	3.8
20°-30°	2838.3	6.1
30°-40°	5018.9	10.9
40°-50°	8793.6	19.0
50°-60°	11728.2	25.4
60°-70°	10918.4	23.6
70°-80°	4190.5	9.1
80°-90°	260.3	0.6
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°	46202.0	100.0
0°-180°	46202.0	100.0

Coefficient of Utilization



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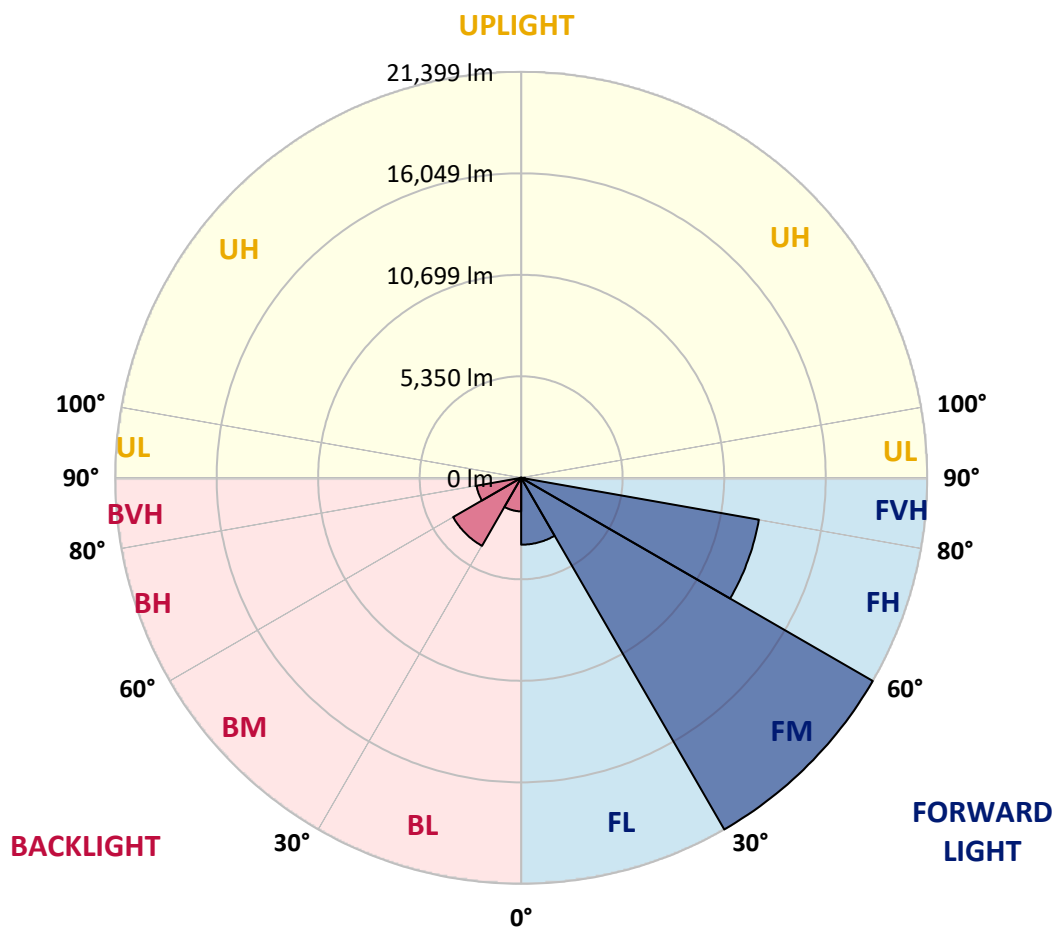
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3524.7	7.6			
FM	(30°-60°)	21398.9	46.3			
FH	(60°-80°)	12720.1	27.5			G5
FVH	(80°-90°)	189.2	0.4			G2/225
BL	(0°-30°)	1767.5	3.8	B3/2500		
BM	(30°-60°)	4141.8	9.0	B3/5000		
BH	(60°-80°)	2388.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	71.0	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1
2.5°	8089.9	8136.4	8109.8	8096.5	8073.2	8040.0	8013.4	7930.2	7843.7	7787.2	7767.2
5°	8252.9	8299.4	8296.1	8309.4	8326.0	8336.0	8329.4	8236.2	8113.2	8016.7	7960.1
7.5°	8113.2	8166.4	8209.6	8276.1	8392.6	8515.7	8575.5	8555.6	8429.2	8296.1	8226.3
10°	7717.3	7773.9	7877.0	8033.3	8279.5	8545.6	8768.5	8871.6	8791.7	8645.4	8548.9
12.5°	6992.1	7048.7	7251.6	7590.9	8003.4	8465.8	8891.5	9167.6	9187.6	9041.2	8928.1
15°	6177.2	6233.7	6449.9	6875.7	7504.4	8246.2	8958.1	9480.3	9656.6	9530.2	9393.8
17.5°	5671.6	5721.5	5884.4	6227.1	6882.4	7807.1	8934.8	9813.0	10215.5	10115.7	9952.7
20°	5518.5	5561.8	5638.3	5877.8	6423.3	7351.4	8781.8	10125.6	10817.5	10761.0	10578.0
22.5°	5681.5	5721.5	5744.7	5851.2	6193.8	7052.0	8588.8	10445.0	11516.1	11522.7	11299.9
25°	6057.4	6097.3	6070.7	6137.3	6286.9	6958.9	8515.7	10820.9	12394.3	12467.4	12214.6
27.5°	6676.1	6679.5	6616.3	6612.9	6636.2	7098.6	8592.2	11223.4	13502.0	13638.3	13325.7
30°	7916.9	7867.0	7624.2	7361.4	7241.6	7517.7	8805.1	11699.0	14809.3	15052.1	14659.6
32.5°	9829.6	9756.4	9310.7	8682.0	8050.0	8193.0	9187.6	12241.3	16233.0	16672.1	16193.0
35°	11905.3	11885.3	11419.6	10484.9	9380.5	9154.3	9809.6	12953.1	17786.4	18485.0	17916.1
37.5°	13834.6	13824.6	13558.5	12457.5	11113.6	10494.9	10807.6	13884.5	19449.6	20460.9	19788.9
40°	15597.6	15627.6	15361.4	14376.8	13023.0	12214.6	12164.7	15035.4	21299.1	22613.0	21814.7
42.5°	17121.1	17154.4	16884.9	16156.5	14909.0	14117.4	13831.3	16445.9	23105.4	24924.9	23980.2
45°	18155.6	18361.9	18322.0	17739.8	16845.0	16023.4	15833.8	18215.5	25164.4	27376.5	26268.8
47.5°	18448.4	18638.0	18937.3	19017.2	18471.6	17663.3	17889.5	20347.8	27246.8	29831.4	28570.7
50°	17726.5	17902.8	18524.9	19353.2	19732.4	19482.9	19888.7	22633.0	29379.0	32279.6	30829.3
52.5°	16302.8	16482.4	17267.5	18578.1	20124.9	20909.9	21894.5	24885.0	31444.7	34598.2	32968.2
55°	14243.8	14433.4	15441.3	16924.9	19376.4	21498.7	23567.7	27133.7	33337.4	36683.8	34897.5
57.5°	11442.9	11582.6	12630.4	14706.1	17493.7	20913.2	24801.8	29588.6	35120.4	38732.9	36810.2
60°	7457.8	7580.9	8798.4	11113.6	14373.5	18957.3	25048.0	32326.2	37488.8	41397.4	39388.2
62.5°	4959.7	5042.9	5764.7	7464.5	10122.3	15201.8	23607.7	34511.7	40961.6	46034.4	43809.0
65°	3402.9	3486.1	4207.9	5392.1	6539.8	10055.8	19466.2	34222.3	44108.4	49716.8	47085.6
67.5°	2428.3	2498.1	3110.2	4227.9	4733.5	5841.2	13195.9	30523.3	43656.0	49856.5	47261.9
70°	1739.7	1779.6	2285.3	3293.2	3762.2	3509.4	7338.1	23344.9	38224.0	46037.7	43662.7
72.5°	1217.5	1230.8	1586.7	2508.1	3030.4	2561.3	3492.7	15564.4	28910.0	36135.0	33849.7
75°	825.0	841.6	1067.8	1839.5	2431.6	1955.9	1849.5	8346.0	16971.4	20001.8	17929.4
77.5°	505.6	512.3	688.6	1257.4	1819.6	1490.2	1190.9	3536.0	6566.4	6446.6	5495.3
80°	286.1	286.1	439.1	781.7	1240.8	961.3	834.9	1503.5	2079.0	1826.2	1610.0
82.5°	159.7	163.0	319.3	485.7	821.6	568.8	459.0	695.2	898.1	795.0	691.9
85°	66.5	73.2	196.3	229.5	392.5	282.7	186.3	292.7	332.6	296.1	216.2
87.5°	6.7	10.0	59.9	43.2	46.6	56.5	26.6	56.5	46.6	46.6	33.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1	7654.1
2.5°	7704.0	7654.1	7527.7	7381.3	7188.4	7095.3	6968.9	6882.4	6809.2	6815.8	6749.3
5°	7853.7	7727.3	7444.5	7091.9	6652.9	6340.2	6007.5	5778.0	5591.7	5551.8	5462.0
7.5°	8059.9	7860.3	7364.7	6729.4	5987.6	5425.4	4923.1	4600.4	4370.9	4297.7	4224.6
10°	8326.0	8036.6	7261.6	6273.6	5205.9	4490.7	3951.8	3699.0	3542.6	3489.4	3449.5
12.5°	8635.4	8239.6	7125.2	5718.1	4400.9	3712.3	3369.7	3243.3	3193.4	3176.7	3166.8
15°	9024.6	8492.4	6919.0	5059.5	3718.9	3236.6	3090.3	3073.6	3080.3	3073.6	3070.3
17.5°	9487.0	8768.5	6583.0	4380.9	3259.9	2993.8	2940.6	2953.9	2970.5	2967.2	2960.5
20°	9992.6	9041.2	6153.9	3778.8	2947.2	2820.8	2790.9	2804.2	2817.5	2810.8	2807.5
22.5°	10568.1	9334.0	5678.2	3309.8	2737.6	2661.1	2627.9	2631.2	2631.2	2617.9	2611.2
25°	11256.6	9656.6	5179.2	2977.2	2578.0	2518.1	2478.2	2464.9	2444.9	2405.0	2398.4
27.5°	12078.3	9999.2	4700.2	2744.3	2451.6	2395.0	2348.5	2315.2	2265.3	2198.8	2192.1
30°	13003.0	10415.0	4294.4	2597.9	2351.8	2295.2	2242.0	2192.1	2118.9	2035.8	2029.1
32.5°	14090.7	10860.8	3998.4	2501.5	2262.0	2202.1	2138.9	2079.0	1999.2	1916.0	1919.3
35°	15388.0	11399.7	3825.4	2434.9	2192.1	2112.3	2042.4	1975.9	1916.0	1842.8	1836.2
37.5°	16795.1	11971.8	3772.2	2401.7	2145.5	2022.5	1942.6	1896.1	1889.4	1846.2	1842.8
40°	18335.3	12650.4	3812.1	2381.7	2095.6	1936.0	1849.5	1839.5	1856.1	1779.6	1783.0
42.5°	19965.2	13455.4	3878.6	2358.4	2025.8	1849.5	1766.3	1766.3	1753.0	1646.6	1646.6
45°	21728.2	14383.5	3945.1	2301.9	1942.6	1763.0	1699.8	1676.5	1620.0	1516.9	1513.5
47.5°	23504.5	15328.2	3995.0	2198.8	1842.8	1689.8	1633.3	1580.1	1496.9	1403.8	1400.4
50°	25191.0	16176.4	3941.8	2045.8	1729.7	1620.0	1560.1	1486.9	1397.1	1333.9	1323.9
52.5°	26697.9	16911.6	3715.6	1866.1	1610.0	1546.8	1493.6	1417.1	1343.9	1277.3	1270.7
55°	28008.5	17507.0	3316.4	1696.5	1503.5	1483.6	1430.4	1333.9	1234.1	1177.6	1170.9
57.5°	29265.9	17959.4	2817.5	1556.8	1407.1	1413.7	1333.9	1247.4	1154.3	1094.4	1087.7
60°	30939.1	18564.8	2311.9	1427.0	1304.0	1323.9	1237.4	1174.2	1057.8	981.3	971.3
62.5°	33613.5	19506.2	1836.2	1267.4	1184.2	1190.9	1154.3	1077.8	938.1	848.2	841.6
65°	35735.8	19160.2	1447.0	1094.4	1047.8	1057.8	1057.8	974.6	825.0	721.8	711.9
67.5°	35496.3	16405.9	1154.3	924.7	918.1	924.7	948.0	878.2	731.8	648.7	635.3
70°	32698.8	13049.6	924.7	768.4	798.3	781.7	848.2	801.7	658.6	575.5	565.5
72.5°	26681.3	9400.5	705.2	635.3	612.1	638.7	765.1	721.8	548.9	455.7	445.7
75°	15591.0	5016.3	525.6	502.3	442.4	532.2	678.6	615.4	419.1	336.0	326.0
77.5°	5076.1	1749.7	385.9	369.2	329.3	429.1	578.8	518.9	342.6	266.1	256.1
80°	1360.5	528.9	262.8	242.8	212.9	319.3	459.0	412.5	246.2	173.0	169.6
82.5°	545.5	222.9	153.0	136.4	116.4	219.5	362.6	332.6	183.0	109.8	109.8
85°	176.3	73.2	56.5	43.2	53.2	136.4	216.2	226.2	129.7	56.5	43.2
87.5°	23.3	10.0	10.0	13.3	10.0	23.3	66.5	63.2	36.6	6.7	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)