

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: P943994

Luminaire Tested: **GALN-SB8D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943994
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-SB8D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA 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: 55733 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 584.9
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

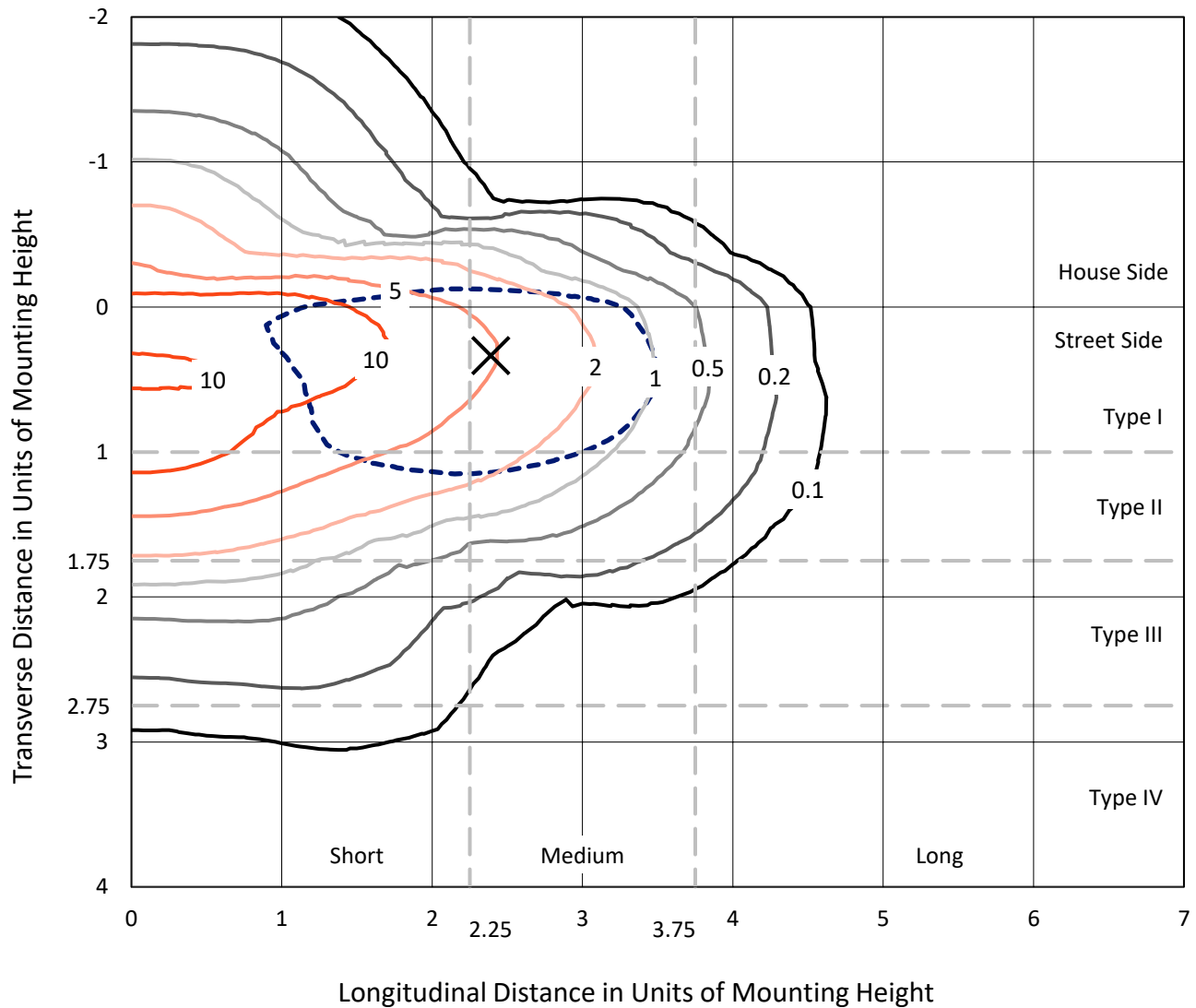


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

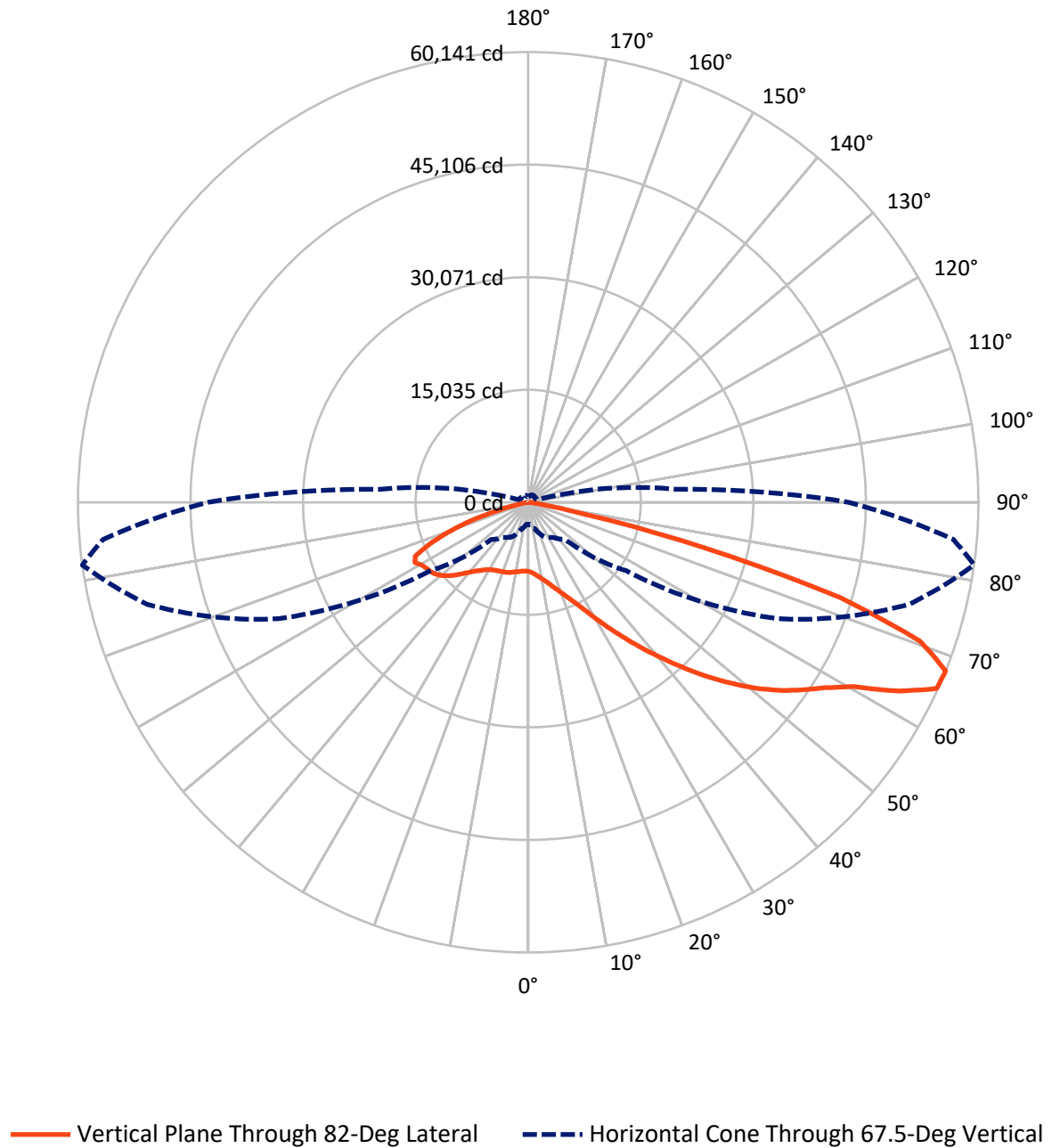


Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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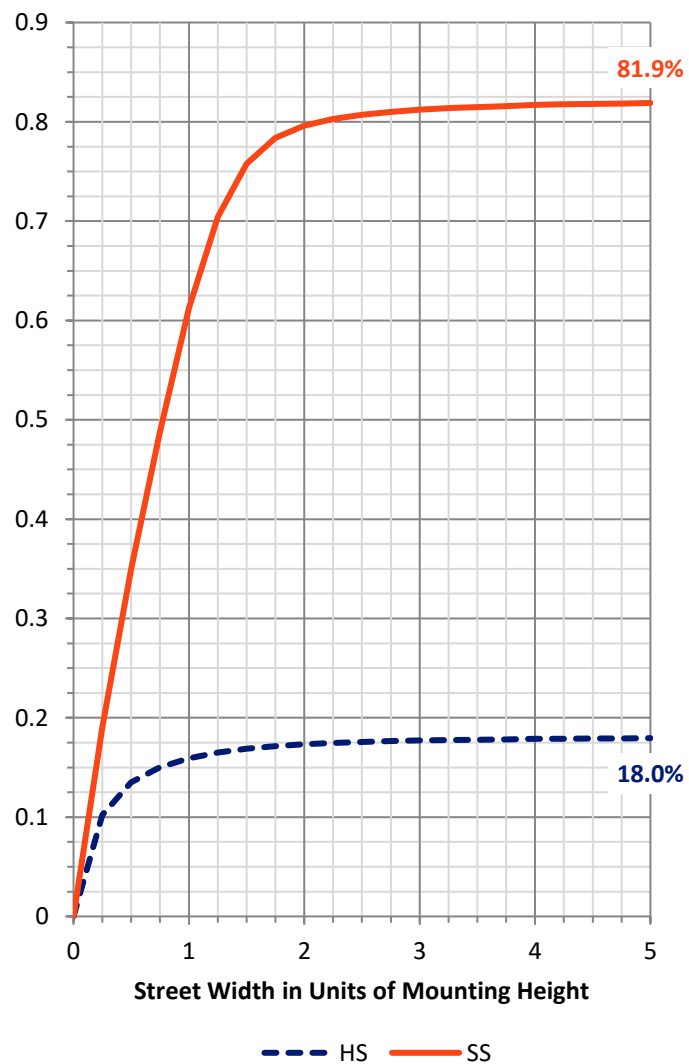
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10095.5	0.0	10095.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	45637.5	0.0	45637.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	55733.0	0.0	55733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.6	1.5
10°-20°	2137.6	3.8
20°-30°	3423.8	6.1
30°-40°	6054.2	10.9
40°-50°	10607.6	19.0
50°-60°	14147.6	25.4
60°-70°	13170.7	23.6
70°-80°	5054.9	9.1
80°-90°	314.0	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°	55733.0	100.0
0°-180°	55733.0	100.0

Coefficient of Utilization



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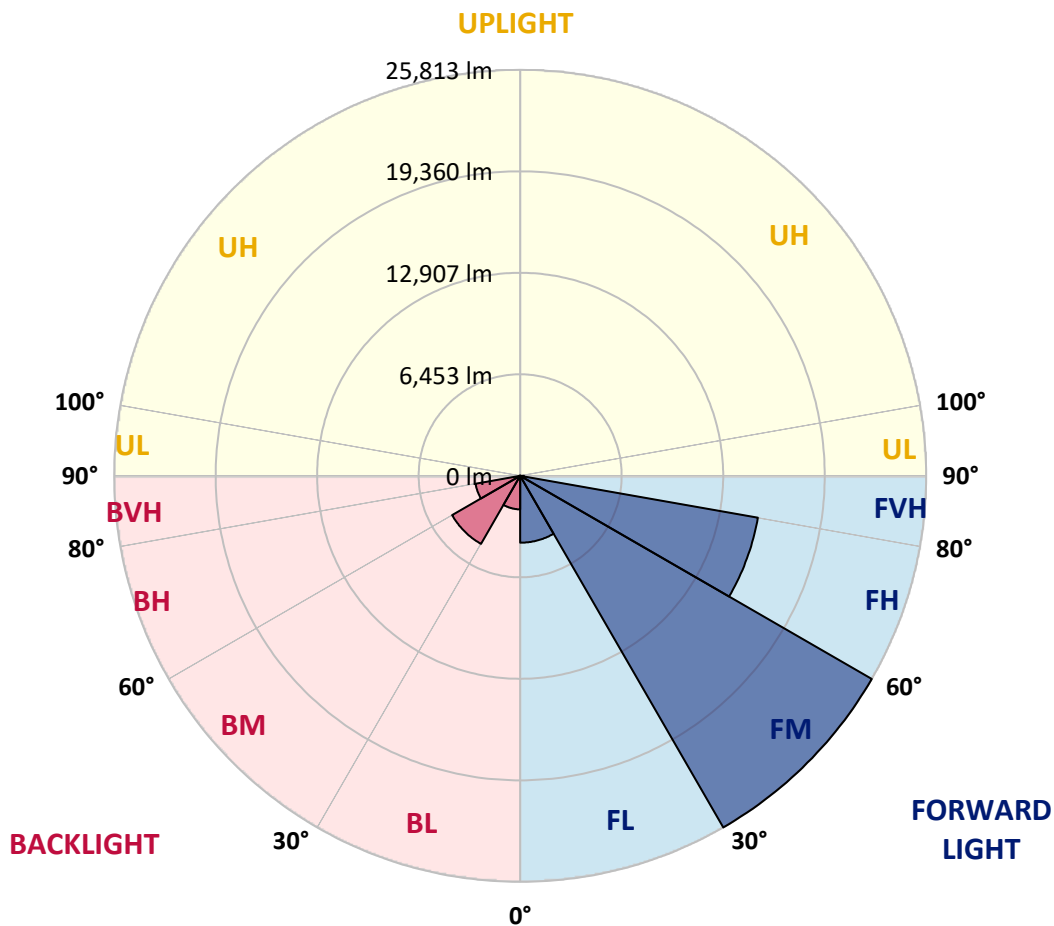
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4251.8	7.6			
FM	(30°-60°)	25813.2	46.3			
FH	(60°-80°)	15344.1	27.5			G5
FVH	(80°-90°)	228.3	0.4			G3/500
BL	(0°-30°)	2132.2	3.8	B3/2500		
BM	(30°-60°)	4996.2	9.0	B3/5000		
BH	(60°-80°)	2881.5	5.2	B4/5000		G4/5000
BVH	(80°-90°)	85.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1
2.5°	9758.7	9814.9	9782.8	9766.8	9738.7	9698.5	9666.4	9566.1	9461.8	9393.6	9369.5
5°	9955.3	10011.5	10007.5	10023.6	10043.6	10055.7	10047.6	9935.3	9786.8	9670.4	9602.2
7.5°	9786.8	9851.0	9903.2	9983.4	10123.9	10272.3	10344.6	10320.5	10168.0	10007.5	9923.2
10°	9309.3	9377.5	9501.9	9690.5	9987.4	10308.5	10577.3	10701.7	10605.4	10428.8	10312.5
12.5°	8434.6	8502.8	8747.5	9156.8	9654.4	10212.2	10725.8	11058.8	11082.9	10906.3	10769.9
15°	7451.5	7519.7	7780.5	8294.1	9052.5	9947.3	10806.0	11436.0	11648.7	11496.2	11331.7
17.5°	6841.5	6901.7	7098.4	7511.7	8302.1	9417.7	10777.9	11837.3	12322.8	12202.4	12005.8
20°	6657.0	6709.1	6801.4	7090.3	7748.4	8867.9	10593.4	12214.5	13049.1	12980.9	12760.2
22.5°	6853.6	6901.7	6929.8	7058.2	7471.5	8506.8	10360.6	12599.7	13891.7	13899.8	13630.9
25°	7307.0	7355.2	7323.1	7403.3	7583.9	8394.4	10272.3	13053.1	14951.1	15039.4	14734.4
27.5°	8053.4	8057.4	7981.1	7977.1	8005.2	8563.0	10364.6	13538.6	16287.3	16451.8	16074.6
30°	9550.1	9489.9	9197.0	8880.0	8735.5	9068.6	10621.4	14112.4	17864.2	18157.2	17683.7
32.5°	11857.3	11769.1	11231.4	10473.0	9710.6	9883.1	11082.9	14766.5	19581.7	20111.3	19533.5
35°	14361.2	14337.1	13775.4	12647.8	11315.6	11042.8	11833.3	15625.2	21455.6	22298.2	21612.0
37.5°	16688.5	16676.5	16355.5	15027.3	13406.2	12659.9	13037.0	16748.7	23461.9	24681.7	23871.2
40°	18815.2	18851.4	18530.3	17342.6	15709.5	14734.4	14674.2	18137.1	25692.9	27277.9	26314.9
42.5°	20653.0	20693.2	20368.1	19489.4	17984.6	17029.6	16684.5	19838.5	27871.8	30066.7	28927.1
45°	21901.0	22149.7	22101.6	21399.4	20320.0	19328.9	19100.1	21973.2	30355.6	33024.0	31687.8
47.5°	22254.1	22482.8	22843.9	22940.2	22282.2	21307.1	21579.9	24545.3	32867.5	35985.3	34464.5
50°	21383.3	21596.0	22346.4	23345.5	23802.9	23502.0	23991.5	27302.0	35439.6	38938.6	37189.1
52.5°	19665.9	19882.6	20829.6	22410.6	24276.4	25223.4	26411.2	30018.5	37931.4	41735.4	39769.2
55°	17182.1	17410.8	18626.6	20416.3	23373.6	25933.7	28429.5	32731.1	40214.6	44251.3	42096.5
57.5°	13803.5	13972.0	15236.0	17739.9	21102.4	25227.4	29918.2	35692.4	42365.4	46723.1	44403.8
60°	8996.3	9144.8	10613.4	13406.2	17338.6	22868.0	30215.1	38994.8	45222.4	49937.2	47513.6
62.5°	5982.8	6083.2	6953.9	9004.4	12210.4	18337.7	28477.7	41631.1	49411.6	55530.8	52846.4
65°	4104.9	4205.2	5076.0	6504.5	7888.8	12130.2	23481.9	41282.0	53207.5	59972.8	56798.8
67.5°	2929.2	3013.5	3751.8	5100.1	5710.0	7046.2	15918.1	36819.9	52661.8	60141.4	57011.5
70°	2098.6	2146.8	2756.7	3972.5	4538.3	4233.3	8851.9	28160.7	46109.2	55534.9	52669.8
72.5°	1468.6	1484.7	1914.0	3025.5	3655.5	3089.7	4213.3	18775.1	34873.8	43589.2	40832.6
75°	995.1	1015.2	1288.1	2219.0	2933.2	2359.4	2231.0	10067.7	20472.5	24128.0	21628.1
77.5°	609.9	617.9	830.6	1516.8	2194.9	1797.7	1436.5	4265.4	7920.9	7776.5	6628.9
80°	345.1	345.1	529.7	943.0	1496.7	1159.7	1007.2	1813.7	2507.9	2202.9	1942.1
82.5°	192.6	196.6	385.2	585.8	991.1	686.2	553.7	838.6	1083.4	959.0	834.6
85°	80.3	88.3	236.7	276.9	473.5	341.1	224.7	353.1	401.3	357.1	260.8
87.5°	8.0	12.0	72.2	52.2	56.2	68.2	32.1	68.2	56.2	56.2	40.1
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°	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1
2.5°	9293.3	9233.1	9080.6	8904.0	8671.3	8558.9	8406.5	8302.1	8213.9	8221.9	8141.6
5°	9473.8	9321.3	8980.3	8554.9	8025.3	7648.1	7246.8	6969.9	6745.2	6697.1	6588.7
7.5°	9722.6	9481.9	8884.0	8117.6	7222.7	6544.6	5938.7	5549.5	5272.6	5184.3	5096.0
10°	10043.6	9694.5	8759.6	7567.8	6279.8	5417.1	4767.0	4462.0	4273.5	4209.3	4161.1
12.5°	10416.8	9939.3	8595.1	6897.7	5308.7	4478.1	4064.8	3912.3	3852.1	3832.1	3820.0
15°	10886.3	10244.3	8346.3	6103.2	4486.1	3904.3	3727.7	3707.7	3715.7	3707.7	3703.7
17.5°	11444.0	10577.3	7941.0	5284.6	3932.4	3611.4	3547.2	3563.2	3583.3	3579.3	3571.2
20°	12054.0	10906.3	7423.4	4558.4	3555.2	3402.7	3366.6	3382.7	3398.7	3390.7	3386.7
22.5°	12748.1	11259.5	6849.6	3992.6	3302.4	3210.1	3170.0	3174.0	3174.0	3157.9	3149.9
25°	13578.8	11648.7	6247.7	3591.3	3109.8	3037.6	2989.4	2973.4	2949.3	2901.1	2893.1
27.5°	14569.9	12062.0	5669.9	3310.4	2957.3	2889.1	2832.9	2792.8	2732.6	2652.4	2644.3
30°	15685.4	12563.6	5180.3	3133.9	2836.9	2768.7	2704.5	2644.3	2556.0	2455.7	2447.7
32.5°	16997.5	13101.3	4823.2	3017.5	2728.6	2656.4	2580.1	2507.9	2411.6	2311.3	2315.3
35°	18562.4	13751.3	4614.5	2937.2	2644.3	2548.0	2463.8	2383.5	2311.3	2223.0	2215.0
37.5°	20259.8	14441.5	4550.3	2897.1	2588.1	2439.7	2343.4	2287.2	2279.2	2227.0	2223.0
40°	22117.6	15260.0	4598.5	2873.0	2528.0	2335.4	2231.0	2219.0	2239.1	2146.8	2150.8
42.5°	24083.8	16231.1	4678.7	2845.0	2443.7	2231.0	2130.7	2130.7	2114.7	1986.3	1986.3
45°	26210.5	17350.6	4759.0	2776.7	2343.4	2126.7	2050.5	2022.4	1954.2	1829.8	1825.7
47.5°	28353.3	18490.2	4819.2	2652.4	2223.0	2038.4	1970.2	1906.0	1805.7	1693.3	1689.3
50°	30387.7	19513.4	4755.0	2467.8	2086.6	1954.2	1881.9	1793.6	1685.3	1609.1	1597.0
52.5°	32205.4	20400.2	4482.1	2251.1	1942.1	1865.9	1801.7	1709.4	1621.1	1540.9	1532.8
55°	33786.4	21118.5	4000.6	2046.4	1813.7	1789.6	1725.4	1609.1	1488.7	1420.5	1412.4
57.5°	35303.2	21664.2	3398.7	1877.9	1697.3	1705.4	1609.1	1504.7	1392.4	1320.2	1312.1
60°	37321.5	22394.5	2788.8	1721.4	1573.0	1597.0	1492.7	1416.5	1276.0	1183.7	1171.7
62.5°	40547.7	23530.1	2215.0	1528.8	1428.5	1436.5	1392.4	1300.1	1131.6	1023.2	1015.2
65°	43107.7	23112.8	1745.5	1320.2	1264.0	1276.0	1276.0	1175.7	995.1	870.7	858.7
67.5°	42818.8	19790.3	1392.4	1115.5	1107.5	1115.5	1143.6	1059.3	882.8	782.5	766.4
70°	39444.2	15741.6	1115.5	926.9	963.0	943.0	1023.2	967.0	794.5	694.2	682.1
72.5°	32185.3	11339.7	850.7	766.4	738.3	770.4	922.9	870.7	662.1	549.7	537.7
75°	18807.2	6051.1	634.0	605.9	533.7	642.0	818.6	742.3	505.6	405.3	393.2
77.5°	6123.3	2110.6	465.5	445.4	397.3	517.6	698.2	626.0	413.3	321.0	309.0
80°	1641.2	638.0	317.0	292.9	256.8	385.2	553.7	497.6	296.9	208.7	204.6
82.5°	658.1	268.8	184.6	164.5	140.4	264.8	437.4	401.3	220.7	132.4	132.4
85°	212.7	88.3	68.2	52.2	64.2	164.5	260.8	272.9	156.5	68.2	52.2
87.5°	28.1	12.0	12.0	16.1	12.0	28.1	80.3	76.2	44.1	8.0	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)