

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: P954496

Luminaire Tested: **GALN-SB7D-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66718 lumens
Efficiency: N/A
Efficacy: 130.1 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): 512.8
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

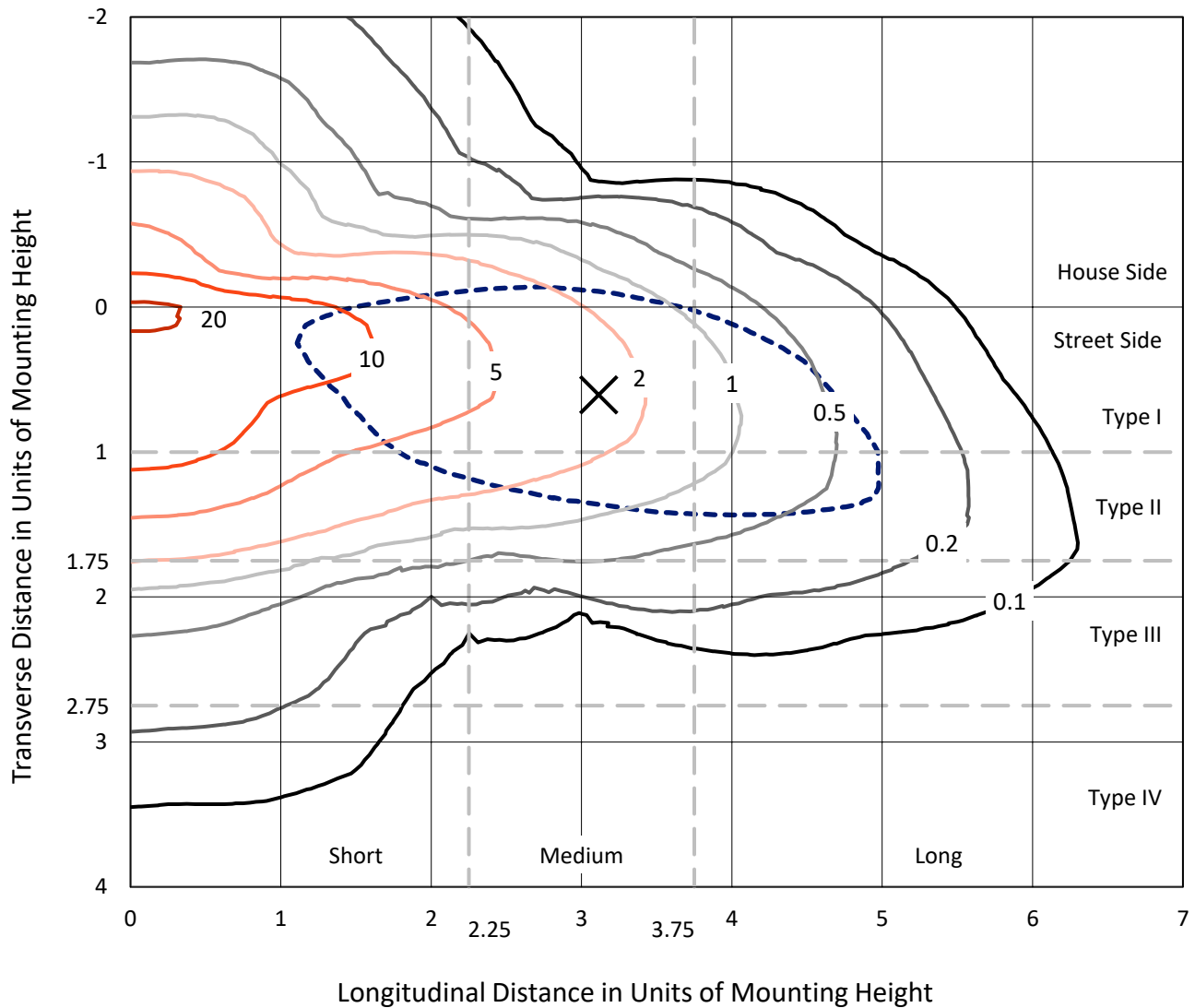


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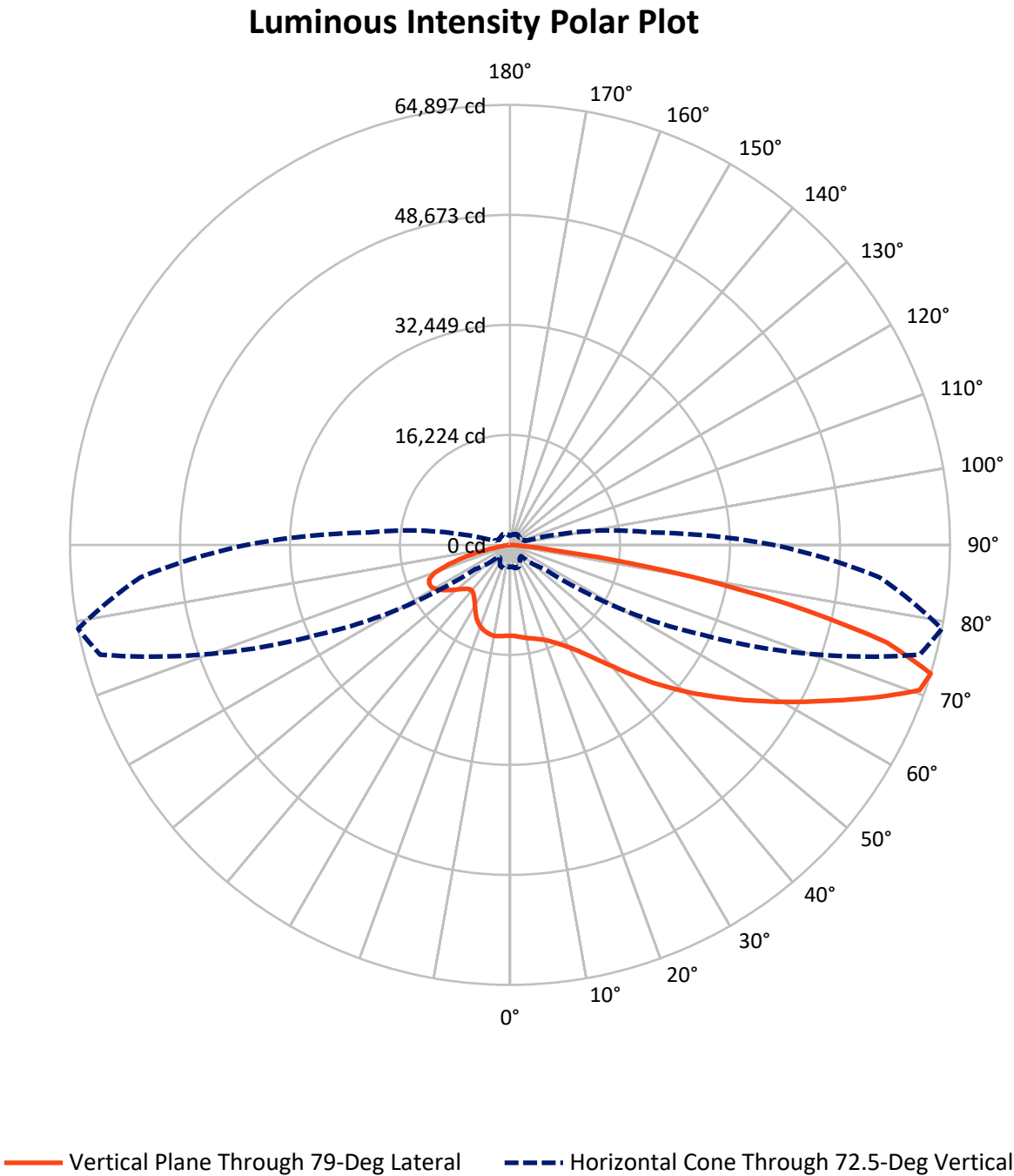
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
Type II - Medium - N/A

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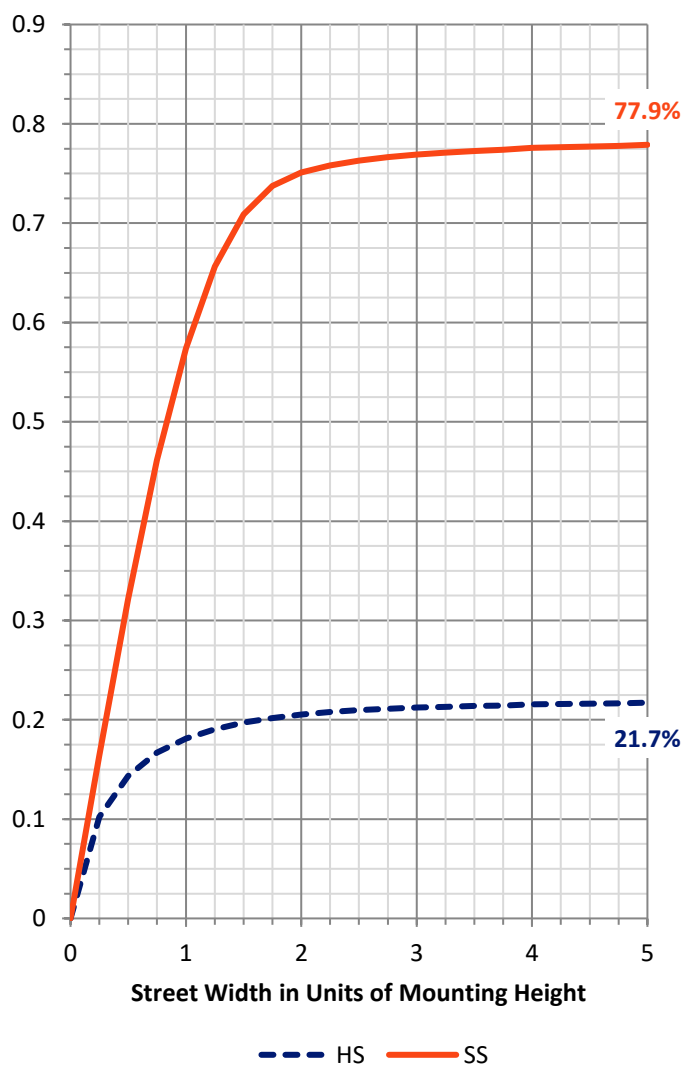
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14681.6	0.0	14681.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	52036.4	0.0	52036.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	66718.0	0.0	66718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.7	1.8
10°-20°	3178.5	4.8
20°-30°	5128.7	7.7
30°-40°	7697.5	11.5
40°-50°	10919.3	16.4
50°-60°	13789.6	20.7
60°-70°	14005.2	21.0
70°-80°	9545.2	14.3
80°-90°	1238.4	1.9
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°	66718.0	100.0
0°-180°	66718.0	100.0

Coefficient of Utilization



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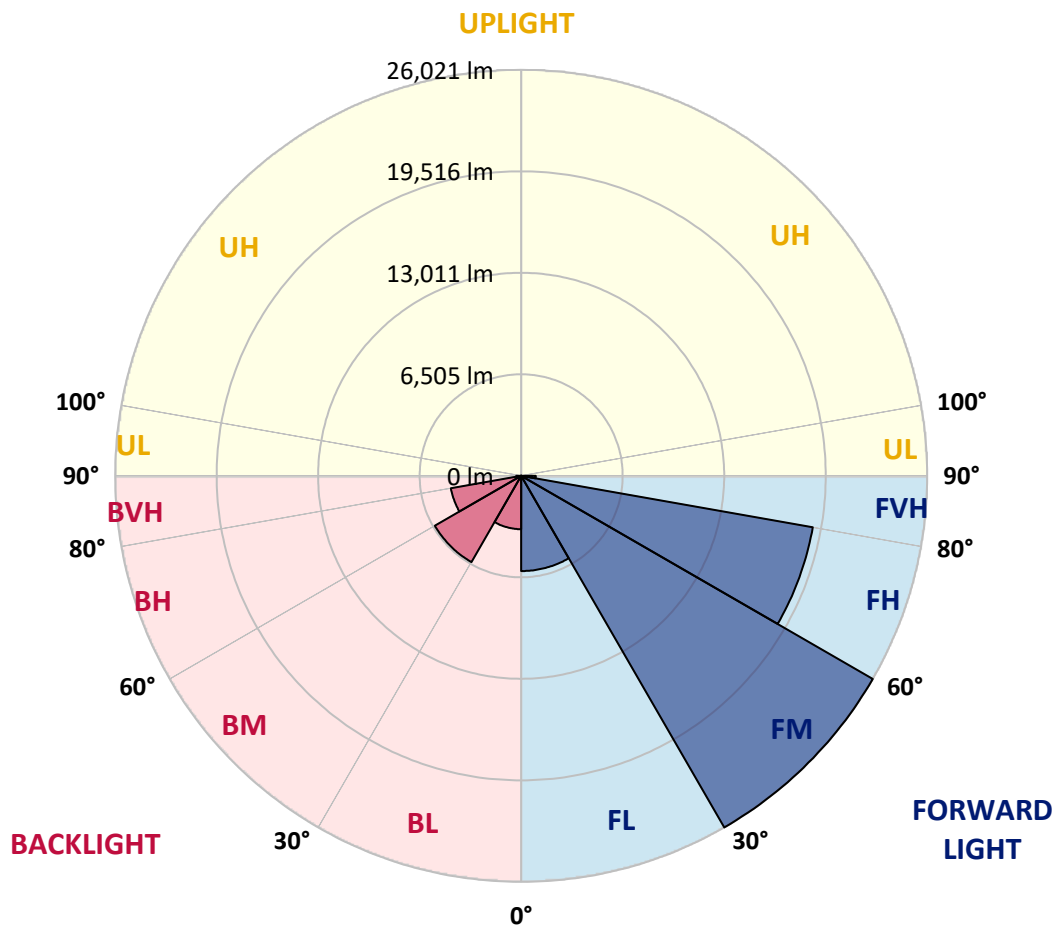
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6103.1	9.1			
FM	(30°-60°)	26021.4	39.0			
FH	(60°-80°)	18979.0	28.4			G5
FVH	(80°-90°)	932.9	1.4			G5
BL	(0°-30°)	3419.8	5.1	B4/5000		
BM	(30°-60°)	6385.0	9.6	B4/8500		
BH	(60°-80°)	4571.4	6.9	B4/5000		G4/5000
BVH	(80°-90°)	305.5	0.5			G3/500
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°	79°	85°
0°	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0
2.5°	13400.1	13336.5	13375.4	13361.2	13378.9	13400.1	13407.1	13417.7	13453.0	13449.5	13445.9
5°	13371.8	13308.3	13361.2	13343.6	13389.5	13438.9	13481.2	13520.1	13576.5	13601.2	13565.9
7.5°	13311.8	13269.5	13322.4	13375.4	13460.1	13534.2	13594.2	13682.4	13763.6	13777.7	13802.4
10°	12962.5	12930.7	13054.2	13191.8	13424.8	13625.9	13756.5	13858.8	13947.1	13961.2	13996.5
12.5°	12599.0	12560.1	12697.8	12884.8	13262.4	13625.9	13901.2	14035.3	14112.9	14158.8	14211.8
15°	12539.0	12507.2	12584.8	12747.2	13061.3	13530.6	14000.0	14247.1	14314.1	14367.0	14388.2
17.5°	12828.3	12768.4	12800.1	12856.6	13040.1	13442.4	14077.7	14487.0	14589.4	14645.8	14645.8
20°	13498.9	13414.2	13364.8	13251.8	13220.1	13456.5	14070.6	14776.4	14910.5	14981.1	14998.8
22.5°	14391.7	14335.3	14229.4	13943.5	13633.0	13629.5	14204.7	15147.0	15397.5	15464.6	15422.2
25°	15471.7	15387.0	15252.8	14864.6	14268.2	13971.8	14430.6	15619.9	16039.8	16057.5	15934.0
27.5°	16713.9	16586.9	16403.3	15891.6	15087.0	14508.2	14776.4	16163.4	16777.4	16770.4	16516.3
30°	18023.2	17896.2	17702.1	17080.9	16068.1	15231.7	15256.4	16749.2	17652.6	17613.8	17179.7
32.5°	18979.6	18884.3	18845.5	18365.5	17197.4	16085.7	15806.9	17398.6	18732.6	18697.3	18090.3
35°	19713.7	19590.1	19636.0	19392.5	18429.1	17042.1	16481.0	18171.4	20045.4	20041.9	19286.6
37.5°	20440.7	20331.3	20370.1	20207.7	19569.0	18256.1	17303.3	19117.2	21672.3	21750.0	20733.6
40°	21104.1	20987.7	21142.9	20991.2	20454.8	19547.8	18238.5	20186.6	23556.9	23705.1	22484.0
42.5°	21502.9	21411.2	21668.8	21672.3	21224.1	20638.3	19265.5	21365.3	25737.9	26069.6	24636.8
45°	21640.6	21608.8	21997.0	22078.2	21905.2	21270.0	20190.1	22649.9	28088.3	28681.1	27089.5
47.5°	21492.3	21432.3	21968.8	22268.7	22406.4	21566.4	20955.9	24040.4	30488.1	31356.2	29764.6
50°	20744.2	20627.7	21425.3	22057.0	22547.5	21760.5	21728.8	25646.1	33216.1	34165.4	32453.8
52.5°	19399.6	19311.3	20218.3	21315.9	22237.0	21855.8	22596.9	27400.1	35806.4	37034.6	35210.0
55°	17680.9	17564.4	18563.2	19996.0	21464.1	21824.1	23465.1	29362.3	38862.7	40108.4	38058.0
57.5°	14956.4	14723.5	15986.9	17680.9	20204.2	21785.2	24368.6	31313.9	41968.3	43461.1	41096.6
60°	10982.6	10636.8	12186.0	14194.1	17740.9	21407.6	25487.3	33501.9	45695.0	47039.6	44414.0
62.5°	6394.8	6193.6	7206.5	9080.4	13371.8	19184.3	26115.5	36046.4	49358.2	50769.9	47674.9
65°	4965.5	4909.0	4997.2	5141.9	7442.9	14363.5	24178.0	38527.4	54016.7	55004.8	51073.4
67.5°	4542.0	4499.6	4538.4	4266.7	3776.2	8000.5	19127.8	39155.6	59006.9	59606.8	54048.4
70°	4037.3	3987.9	4115.0	3882.0	2971.5	3638.5	12359.0	36875.8	62977.1	64102.9	56310.6
72.5°	3289.1	3232.7	3529.1	3423.2	2502.1	2336.3	6207.7	31458.6	62560.7	64897.0	54690.7
75°	2526.8	2495.1	2848.0	2936.2	2039.8	1838.7	2978.6	23383.9	55054.2	57408.2	47134.9
77.5°	1962.2	1937.5	2117.5	2438.6	1644.6	1425.8	1831.6	14832.9	41488.3	41901.2	32482.0
80°	1471.6	1401.1	1566.9	1888.1	1281.1	1041.1	1242.2	8649.9	26224.9	23772.1	14137.6
82.5°	921.1	885.8	1023.4	1259.9	903.5	716.4	808.2	4778.4	10509.7	6190.1	2728.0
85°	525.8	511.7	557.6	719.9	490.5	412.9	462.3	2110.4	1919.8	1319.9	822.3
87.5°	211.7	204.7	254.1	321.1	180.0	151.8	162.3	508.2	423.5	391.7	271.7
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°	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0	13393.0
2.5°	13431.8	13431.8	13382.4	13304.8	13216.5	13160.1	13068.3	13043.6	12948.3	12920.1	12966.0
5°	13594.2	13565.9	13414.2	13195.4	12895.4	12620.1	12316.6	12126.1	11857.8	11762.6	11833.1
7.5°	13798.9	13721.2	13460.1	12980.1	12351.9	11734.3	11092.0	10605.0	10139.2	9973.3	9994.5
10°	13985.9	13876.5	13431.8	12591.9	11504.9	10435.6	9412.2	8695.7	8152.3	7929.9	7979.3
12.5°	14172.9	13971.8	13244.8	11946.1	10301.5	8851.0	7760.5	7202.9	6867.7	6599.5	6687.7
15°	14349.4	14067.1	12955.4	11081.4	8981.6	7510.0	6705.3	6260.7	5992.4	5816.0	5847.7
17.5°	14554.1	14148.2	12521.3	9983.9	7725.2	6581.8	5925.4	5657.2	5604.2	5583.1	5597.2
20°	14839.9	14222.3	11949.6	8755.7	6800.6	5840.7	5501.9	5477.2	5473.7	5463.1	5498.4
22.5°	15147.0	14310.6	11194.4	7640.5	6013.6	5378.4	5318.4	5269.0	5237.2	5233.7	5272.5
25°	15510.5	14338.8	10248.6	6726.5	5343.1	5159.6	5089.0	5014.9	4993.7	4993.7	5014.9
27.5°	15863.4	14243.5	9147.5	5932.4	4965.5	4958.4	4866.7	4842.0	4838.4	4849.0	4877.2
30°	16216.3	14063.5	8053.4	5198.4	4746.7	4746.7	4714.9	4732.5	4746.7	4782.0	4806.7
32.5°	16692.7	13873.0	7139.4	4654.9	4556.1	4520.8	4552.6	4587.9	4602.0	4647.8	4686.7
35°	17391.5	13738.9	6412.4	4358.5	4358.5	4312.6	4330.2	4323.2	4291.4	4270.2	4319.6
37.5°	18316.1	13731.8	5812.5	4220.8	4192.6	4185.5	4189.1	4143.2	4019.7	3871.4	3875.0
40°	19427.8	13922.4	5350.1	4125.5	4104.4	4146.7	4125.5	4002.0	3663.2	3405.6	3398.5
42.5°	20920.6	14465.9	5053.7	4009.1	4072.6	4125.5	4040.8	3613.8	3384.4	3211.5	3204.4
45°	22678.1	15348.1	4901.9	3885.6	4012.6	4076.1	3666.8	3479.7	3296.2	3088.0	3073.9
47.5°	24668.5	16459.8	4866.7	3769.1	3878.5	3917.3	3507.9	3423.2	3215.0	2989.2	2971.5
50°	26835.4	17776.2	4961.9	3631.5	3684.4	3550.3	3455.0	3377.4	3162.1	2939.8	2915.1
52.5°	29076.4	19226.6	5152.5	3444.4	3490.3	3342.1	3433.8	3366.8	3130.3	2830.4	2809.2
55°	31278.6	20687.7	5336.0	3225.6	3292.7	3155.0	3373.8	3324.4	2985.6	2646.8	2629.2
57.5°	33516.0	22141.7	5516.0	3031.5	3102.1	2975.0	3278.6	3211.5	2823.3	2477.4	2470.4
60°	35841.7	23553.3	5600.7	2844.5	2893.9	2809.2	3133.9	3017.4	2639.8	2304.5	2293.9
62.5°	38019.2	24728.5	5463.1	2657.4	2689.2	2653.9	2943.3	2788.0	2456.3	2110.4	2106.9
65°	40203.7	25427.3	5039.6	2473.9	2481.0	2463.3	2675.1	2541.0	2241.0	1941.0	1919.8
67.5°	42183.6	25819.0	4365.5	2276.3	2258.6	2251.6	2424.5	2272.8	2032.8	1771.6	1750.4
70°	42603.5	24823.8	3335.0	2043.4	2043.4	2025.7	2149.2	1994.0	1803.4	1591.6	1584.6
72.5°	38912.1	20881.8	2368.0	1778.7	1806.9	1771.6	1874.0	1743.4	1570.5	1429.3	1386.9
75°	31377.4	15312.8	1722.2	1506.9	1556.3	1496.3	1591.6	1499.9	1351.7	1348.1	1214.0
77.5°	21559.4	9468.6	1249.3	1242.2	1277.5	1199.9	1309.3	1259.9	1125.8	1065.8	998.7
80°	9200.4	3776.2	910.5	959.9	959.9	889.3	1016.4	1030.5	914.0	885.8	885.8
82.5°	1831.6	1072.9	638.8	659.9	621.1	600.0	719.9	797.6	1101.1	1224.6	1228.1
85°	550.5	395.3	384.7	360.0	317.6	321.1	423.5	801.1	988.2	564.7	487.0
87.5°	151.8	98.8	102.3	81.2	67.1	88.2	144.7	607.0	331.7	141.2	120.0
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)