

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: P943146

Luminaire Tested: **GALN-SB7C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

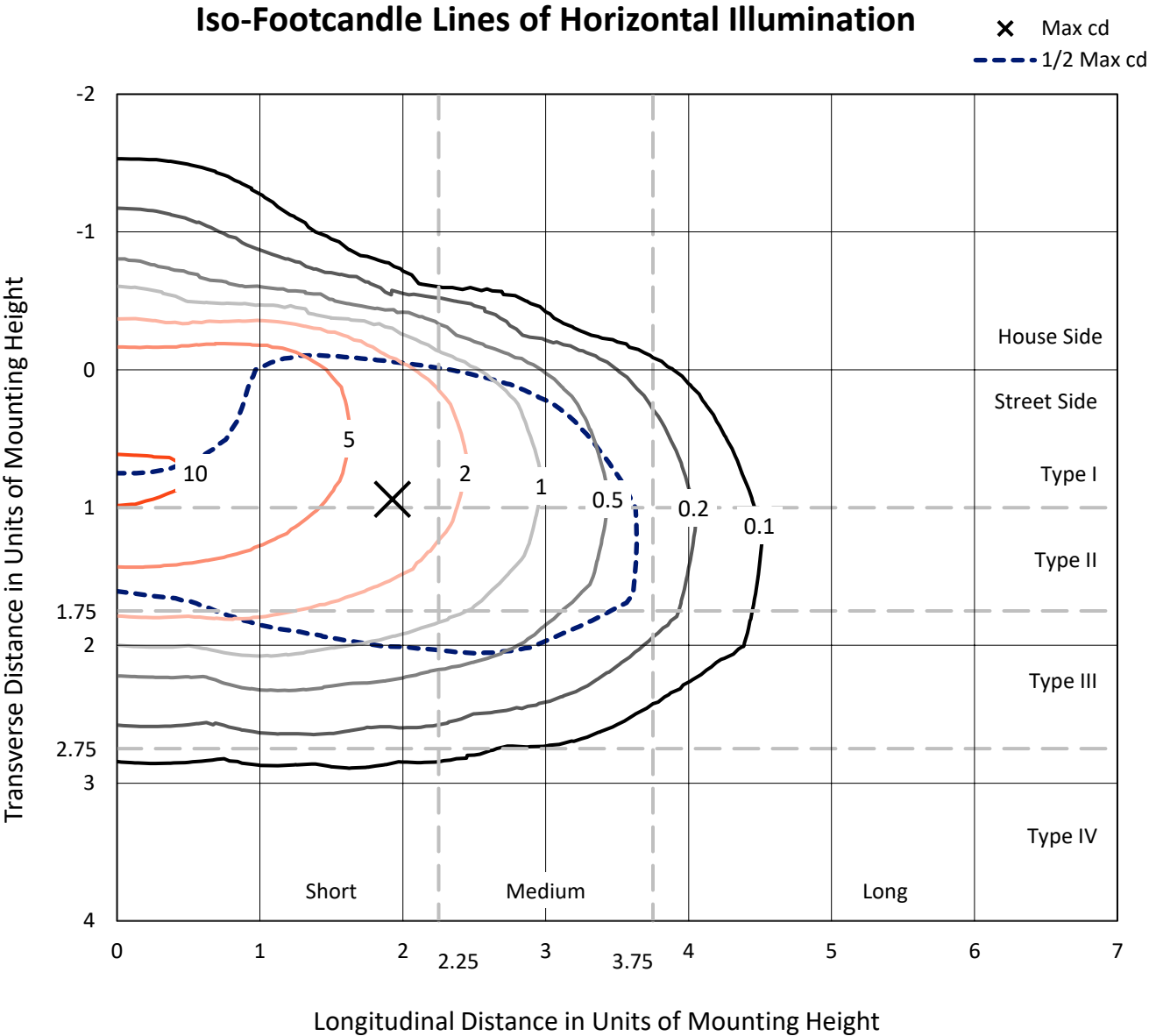
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38744 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 350.5
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

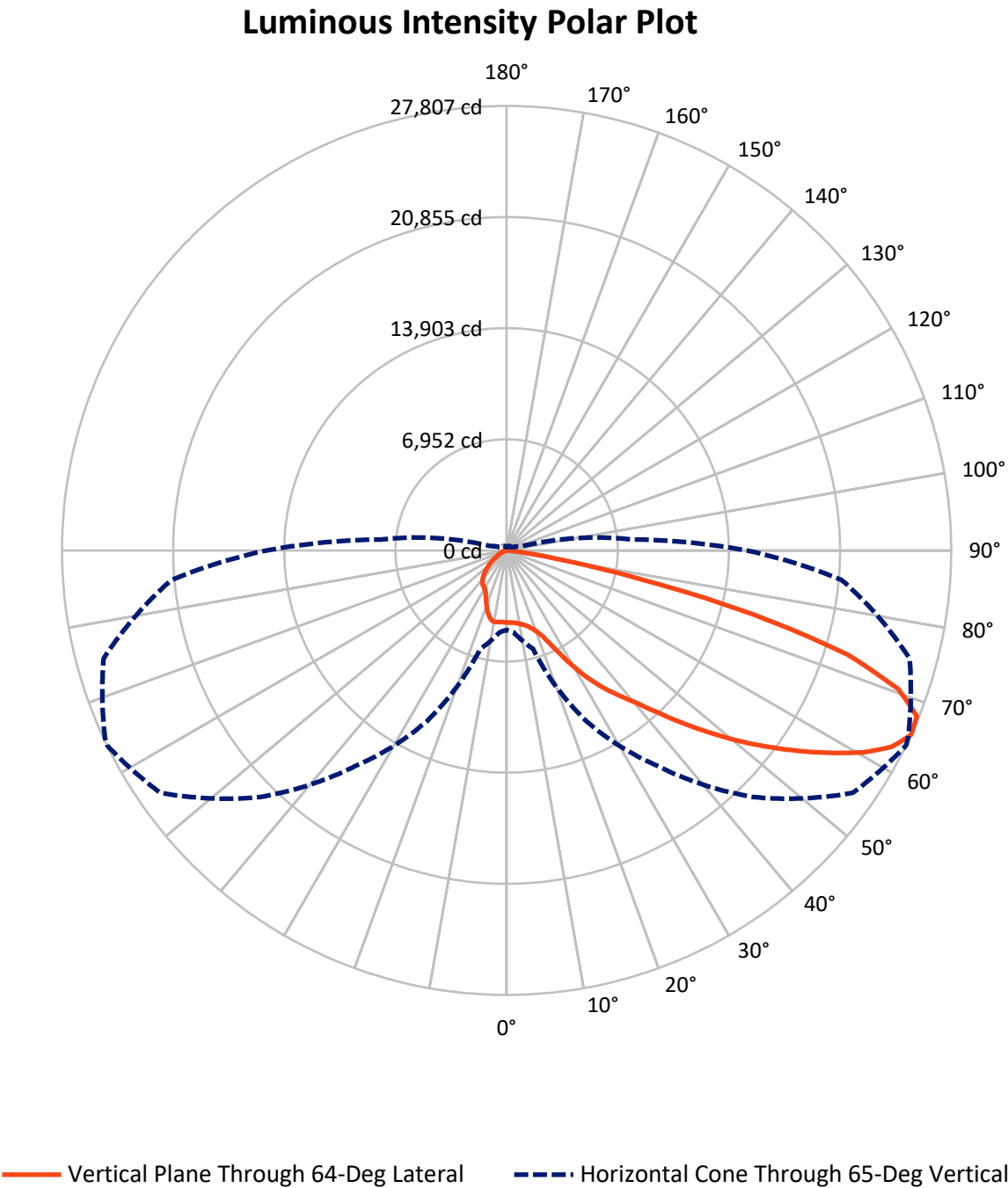


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Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
Type III - Short - N/A

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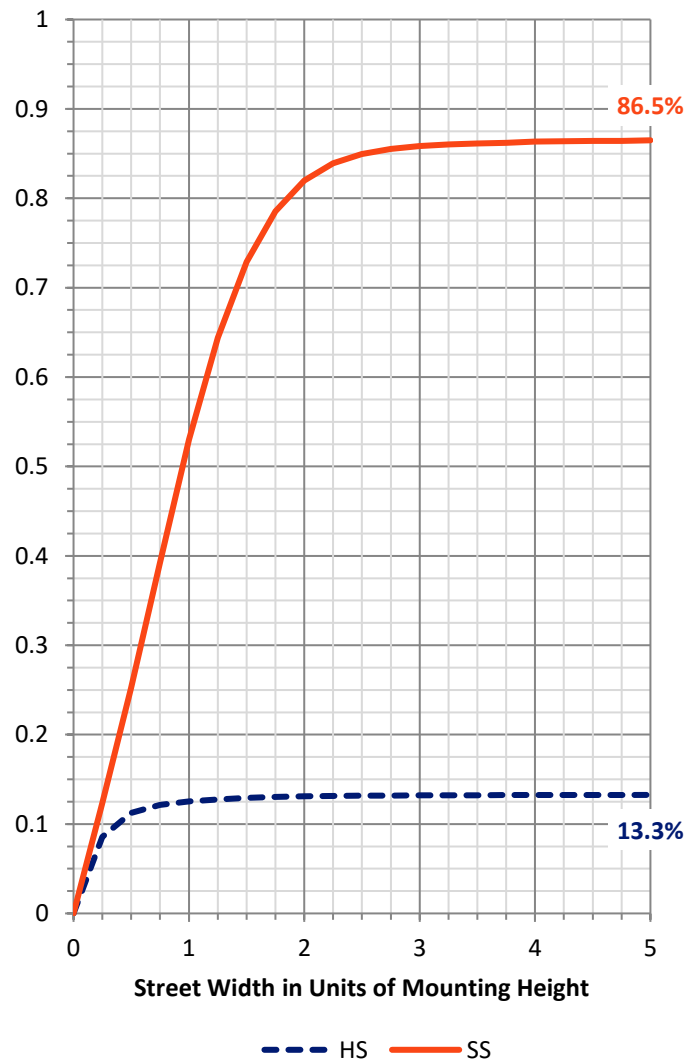
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5181.3	0.0	5181.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	33562.8	0.0	33562.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	38744.0	0.0	38744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.8	1.1
10°-20°	1127.6	2.9
20°-30°	2136.8	5.5
30°-40°	4323.9	11.2
40°-50°	7365.7	19.0
50°-60°	10016.8	25.9
60°-70°	9406.3	24.3
70°-80°	3768.6	9.7
80°-90°	182.6	0.5
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°	38744.0	100.0
0°-180°	38744.0	100.0

Coefficient of Utilization



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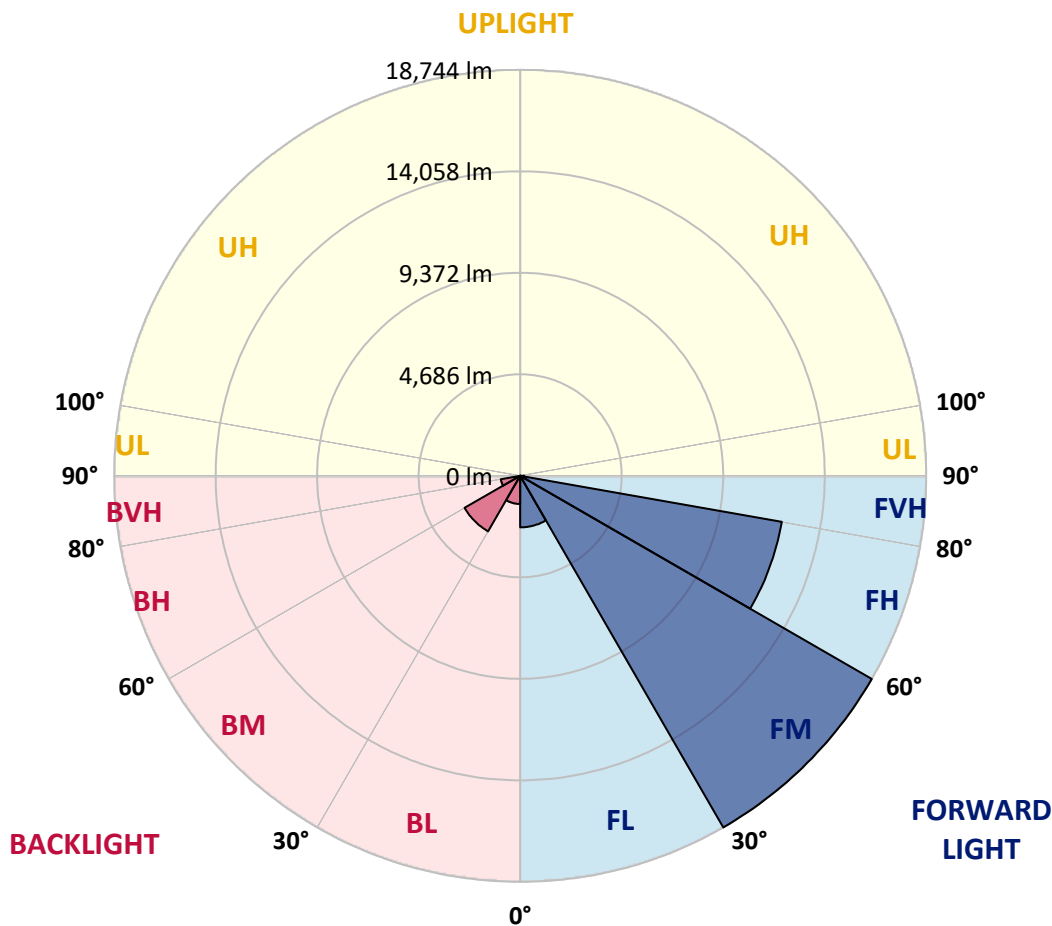
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2379.3	6.1			
FM	(30°-60°)	18744.3	48.4			
FH	(60°-80°)	12265.5	31.7			G5
FVH	(80°-90°)	173.7	0.4			G2/225
BL	(0°-30°)	1300.9	3.4	B3/2500		
BM	(30°-60°)	2962.1	7.6	B3/5000		
BH	(60°-80°)	909.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	8.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3
2.5°	4490.7	4521.9	4514.1	4506.3	4503.7	4508.9	4511.5	4508.9	4508.9	4508.9	4511.5
5°	4405.0	4431.0	4431.0	4449.2	4475.2	4506.3	4529.7	4534.9	4540.1	4547.9	4545.3
7.5°	4241.4	4262.2	4277.8	4337.5	4402.4	4485.6	4555.7	4592.0	4597.2	4625.8	4636.2
10°	4129.7	4155.7	4181.7	4244.0	4337.5	4462.2	4581.7	4670.0	4682.9	4750.5	4781.6
12.5°	4124.5	4150.5	4184.3	4251.8	4360.9	4493.3	4638.8	4766.1	4789.4	4888.1	4953.1
15°	4179.1	4210.2	4241.4	4324.5	4441.4	4602.4	4758.3	4916.7	4940.1	5080.3	5150.5
17.5°	4290.8	4332.3	4355.7	4438.8	4563.5	4742.7	4947.9	5129.7	5150.5	5314.1	5402.4
20°	4511.5	4560.9	4568.7	4636.2	4758.3	4950.5	5194.6	5420.6	5446.6	5633.6	5732.3
22.5°	4968.7	5038.8	4976.4	5010.2	5119.3	5311.5	5576.4	5862.1	5898.5	6111.5	6199.8
25°	5773.8	5872.5	5711.5	5654.3	5701.1	5901.1	6233.5	6594.6	6636.1	6807.5	6851.7
27.5°	7355.6	7228.3	6984.2	6745.2	6605.0	6719.2	7093.2	7540.0	7591.9	7758.2	7706.2
30°	9093.2	8981.5	8651.6	8121.8	7789.3	7771.1	8116.6	8615.3	8675.0	8833.4	8675.0
32.5°	10833.4	10726.9	10368.5	9716.5	9139.9	8854.2	9093.2	9646.4	9677.6	9778.9	9545.1
35°	12545.0	12435.9	12077.5	11410.0	10700.9	10051.6	10004.8	10628.2	10638.6	10745.1	10397.0
37.5°	14267.0	14176.1	13794.3	13139.8	12441.1	11545.0	11111.3	11558.0	11571.0	11674.9	11313.9
40°	15495.5	15534.5	15272.2	14765.7	14165.7	13186.5	12352.8	12547.6	12469.7	12643.7	12428.1
42.5°	16550.0	16628.0	16399.4	16144.9	15796.8	14934.5	13890.4	13856.6	13732.0	13825.5	13602.1
45°	17461.7	17526.6	17321.4	17261.7	17253.9	16648.7	15570.9	15368.3	15194.3	15176.1	14908.5
47.5°	17796.8	17921.4	18009.7	18209.7	18599.3	18344.8	17308.5	16994.2	16799.4	16656.5	16233.2
50°	17924.0	18056.5	18357.8	18939.6	19861.6	19970.7	19038.3	18685.0	18446.1	18186.4	17563.0
52.5°	17752.6	17989.0	18394.1	19373.3	20710.9	21274.6	20697.9	20388.9	20116.2	19692.8	18768.1
55°	16742.2	16978.6	17807.1	19368.1	21134.3	22188.8	22266.7	22129.1	21822.6	21155.1	19742.1
57.5°	14612.5	14963.1	16274.7	18708.4	21126.5	22975.8	23804.3	23903.0	23560.2	22604.4	20508.3
60°	11661.9	12137.2	13737.2	17246.1	20474.6	23401.7	25152.3	25645.8	25282.2	24032.9	21129.1
62.5°	8137.4	8688.0	10202.2	14955.3	18983.7	23095.3	26136.7	27048.4	26773.1	25310.8	21368.1
65°	4963.5	5140.1	6360.8	11768.4	16448.8	21812.2	26440.6	27806.8	27715.9	26092.6	21014.8
67.5°	3306.4	3454.4	3805.1	8069.8	12768.4	19248.7	25713.3	27674.3	27700.3	25965.3	19721.4
70°	1992.1	2119.4	2348.0	4693.3	8275.0	15235.8	23461.5	25986.1	26136.7	24264.1	17269.5
72.5°	820.7	906.5	1114.2	2127.2	4285.6	9669.8	18682.4	22310.9	22661.5	20401.9	13254.1
75°	464.9	509.1	654.5	1067.5	1859.7	4506.3	11316.5	15838.4	16355.2	14061.8	7973.7
77.5°	309.1	329.9	423.4	690.9	1046.7	1537.6	4836.2	8251.6	9238.6	7680.2	3451.8
80°	207.8	226.0	290.9	462.3	680.5	659.7	1540.2	3057.0	3760.9	2638.9	841.5
82.5°	140.3	142.9	207.8	303.9	431.2	319.5	454.5	950.6	1194.8	763.6	319.5
85°	80.5	77.9	153.2	176.6	192.2	132.5	137.7	285.7	374.0	322.1	181.8
87.5°	10.4	15.6	59.7	46.8	26.0	28.6	28.6	49.3	72.7	77.9	39.0
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°	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3	4506.3
2.5°	4511.5	4508.9	4501.1	4493.3	4475.2	4464.8	4470.0	4464.8	4462.2	4464.8	4475.2
5°	4545.3	4537.5	4516.7	4490.7	4454.4	4410.2	4381.7	4340.1	4301.1	4277.8	4283.0
7.5°	4636.2	4628.4	4599.8	4527.1	4410.2	4225.8	4057.0	3908.9	3797.3	3732.3	3734.9
10°	4781.6	4768.7	4724.5	4563.5	4257.0	3854.4	3519.4	3241.4	3059.6	2973.9	2966.1
12.5°	4953.1	4937.5	4859.6	4529.7	3966.1	3337.5	2875.2	2566.1	2397.3	2322.0	2314.2
15°	5155.7	5134.9	4981.6	4368.7	3542.7	2766.1	2342.8	2111.6	2002.5	1935.0	1937.6
17.5°	5407.6	5371.2	5072.5	4127.1	3083.0	2329.8	2015.5	1841.5	1745.4	1680.5	1675.3
20°	5734.9	5675.1	5145.3	3838.8	2659.6	2054.5	1794.7	1649.3	1576.6	1519.4	1509.0
22.5°	6192.0	6106.3	5233.6	3527.1	2361.0	1864.9	1631.1	1524.6	1464.9	1399.9	1389.6
25°	6758.2	6656.9	5342.7	3238.8	2155.8	1701.2	1511.6	1423.3	1353.2	1277.9	1270.1
27.5°	7550.4	7368.6	5472.5	3002.5	1979.1	1561.0	1402.5	1303.8	1223.3	1161.0	1148.0
30°	8433.5	8134.8	5586.8	2859.6	1818.1	1431.1	1259.7	1161.0	1085.7	1041.5	1033.7
32.5°	9269.8	8864.6	5662.1	2797.3	1672.7	1283.1	1103.9	997.4	940.2	927.2	935.0
35°	10059.4	9524.3	5654.3	2737.6	1542.8	1135.0	950.6	841.5	797.4	805.2	805.2
37.5°	10968.4	10228.2	5599.8	2644.1	1436.3	1000.0	818.2	722.1	683.1	685.7	696.1
40°	12025.5	11041.2	5566.0	2467.4	1319.4	875.3	709.1	631.1	602.6	592.2	589.6
42.5°	13152.8	11828.1	5571.2	2267.4	1174.0	763.6	633.7	568.8	542.8	535.0	532.4
45°	14285.2	12578.8	5579.0	2059.7	1020.7	677.9	579.2	524.7	509.1	498.7	498.7
47.5°	15350.1	13217.7	5433.6	1836.3	870.1	613.0	535.0	498.7	485.7	472.7	472.7
50°	16342.3	13643.7	5082.9	1576.6	750.6	561.0	501.3	475.3	462.3	449.3	449.3
52.5°	17113.7	13711.2	4503.7	1309.0	667.5	522.1	480.5	457.1	441.5	428.6	426.0
55°	17456.5	13287.8	3680.4	1059.7	602.6	488.3	459.7	436.3	418.2	405.2	402.6
57.5°	17368.2	12397.0	2870.0	851.9	540.2	454.5	433.8	418.2	397.4	376.6	374.0
60°	16934.4	11204.8	2163.6	709.1	483.1	418.2	405.2	392.2	363.6	332.5	327.3
62.5°	16183.8	9706.1	1542.8	587.0	420.8	376.6	371.4	361.0	319.5	262.3	257.1
65°	15035.8	7885.4	1038.9	488.3	361.0	329.9	332.5	314.3	259.7	194.8	189.6
67.5°	13358.0	5766.0	664.9	400.0	301.3	275.3	277.9	267.5	220.8	166.2	158.4
70°	11220.4	3818.0	433.8	303.9	241.5	213.0	228.6	231.2	187.0	135.1	129.9
72.5°	8225.7	2254.5	303.9	226.0	176.6	148.0	187.0	192.2	150.6	101.3	96.1
75°	4688.1	1070.1	228.6	163.6	109.1	103.9	145.4	145.4	103.9	67.5	62.3
77.5°	1968.8	446.7	161.0	106.5	62.3	59.7	98.7	90.9	51.9	31.2	31.2
80°	568.8	200.0	85.7	51.9	26.0	23.4	39.0	28.6	13.0	5.2	5.2
82.5°	223.4	88.3	33.8	20.8	10.4	10.4	5.2	0.0	0.0	0.0	0.0
85°	132.5	36.4	15.6	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.8	7.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)