

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: P452431

Luminaire Tested: **GALN-SA3B-827-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10329 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

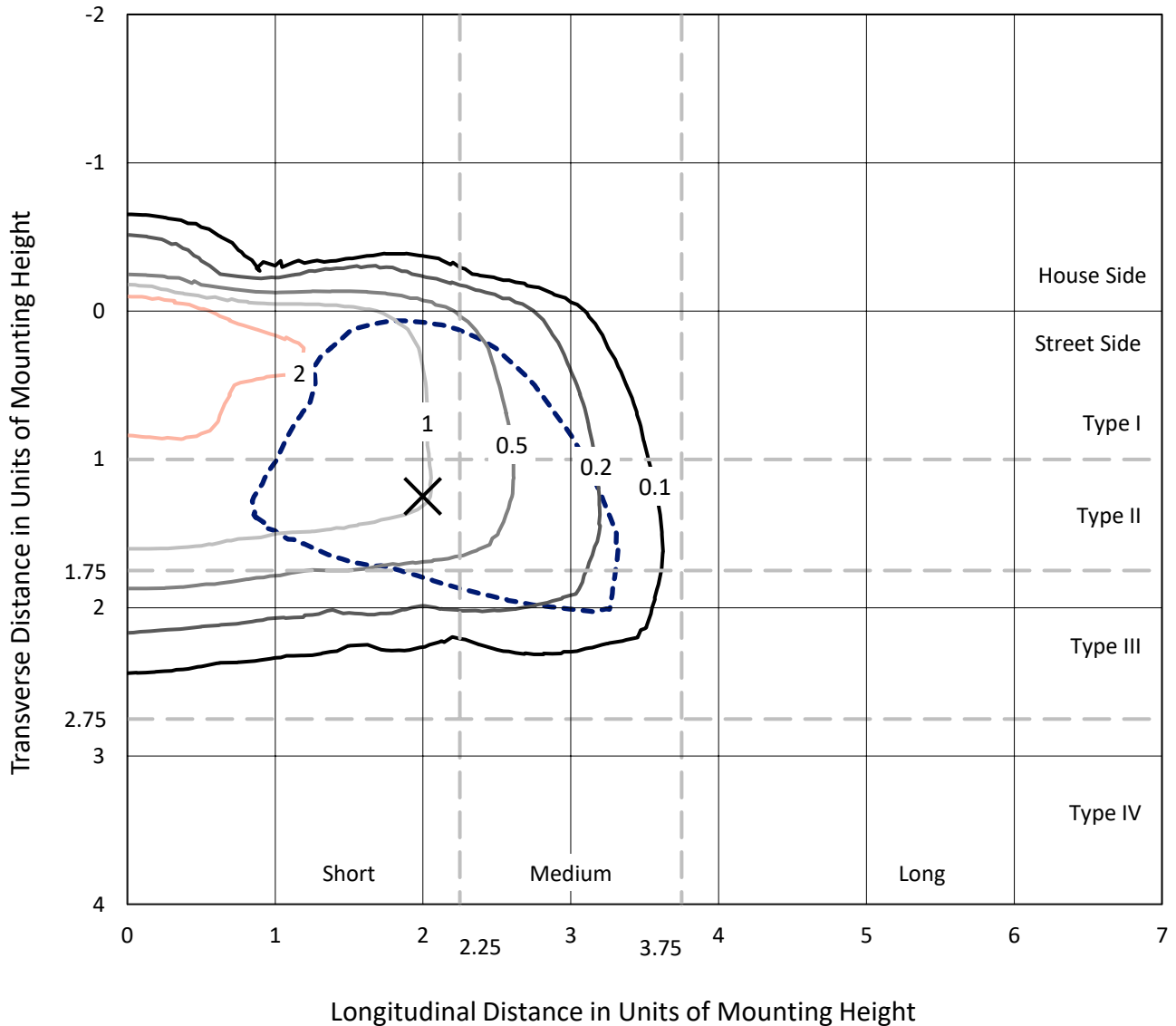
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

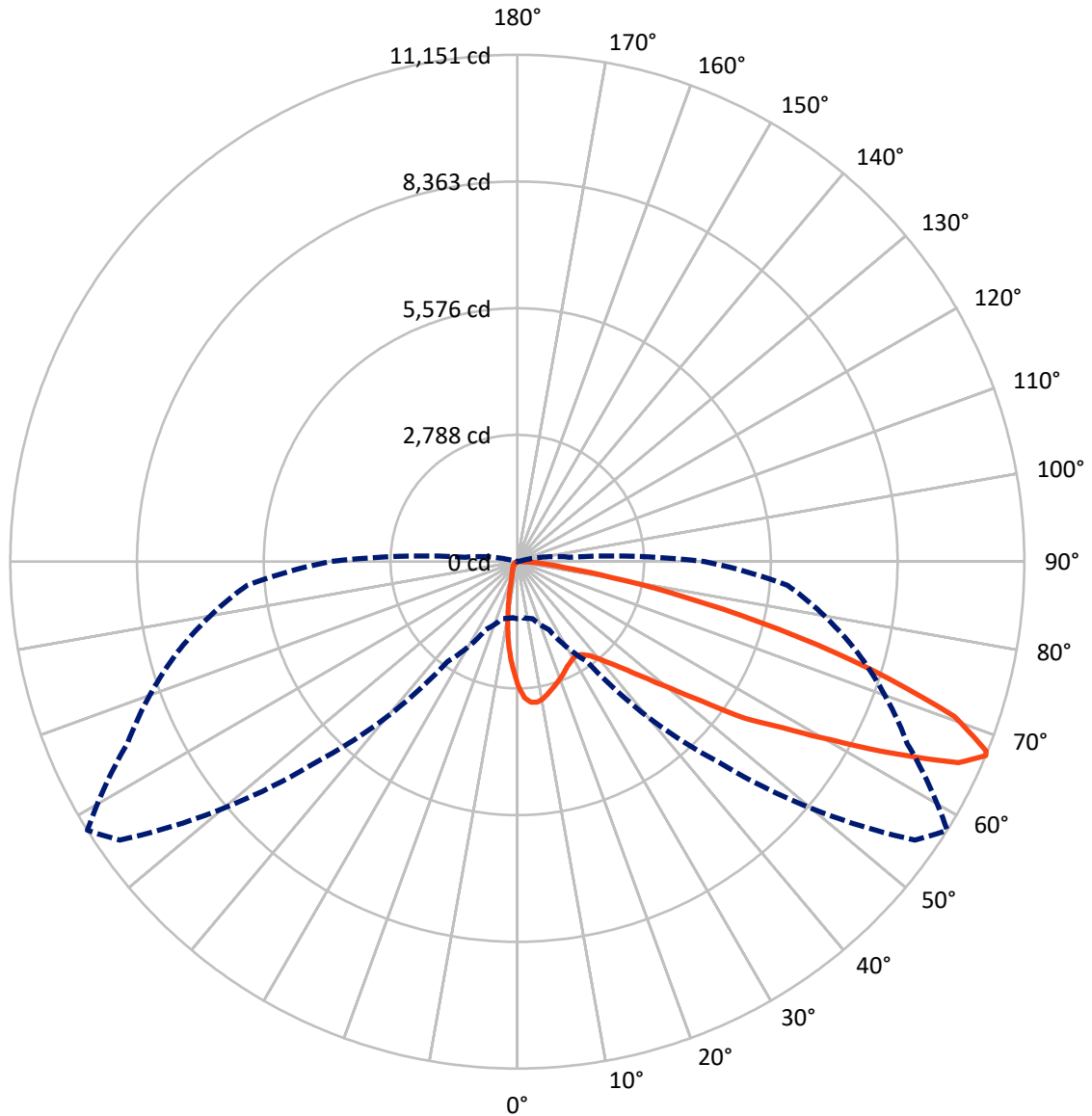
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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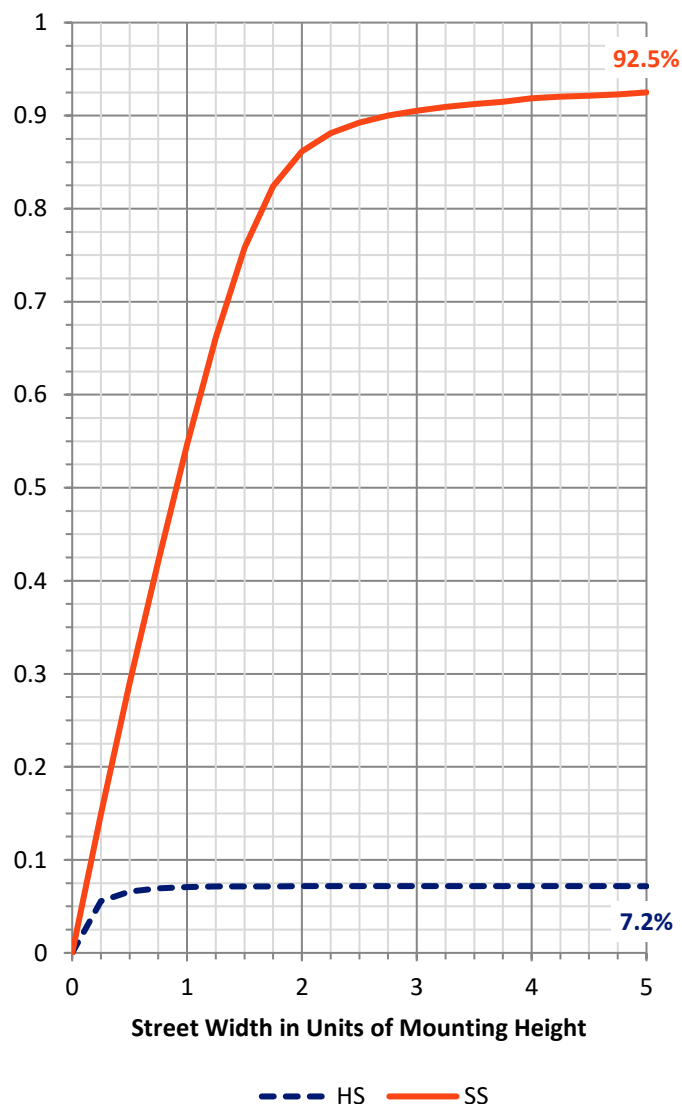
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	745.4	0.0	745.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	9583.6	0.0	9583.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	10329.0	0.0	10329.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.2	2.2
10°-20°	479.9	4.6
20°-30°	650.3	6.3
30°-40°	901.9	8.7
40°-50°	1438.4	13.9
50°-60°	2486.4	24.1
60°-70°	2840.3	27.5
70°-80°	1184.1	11.5
80°-90°	125.6	1.2
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°	10329.0	100.0
0°-180°	10329.0	100.0

**Coefficient of Utilization**



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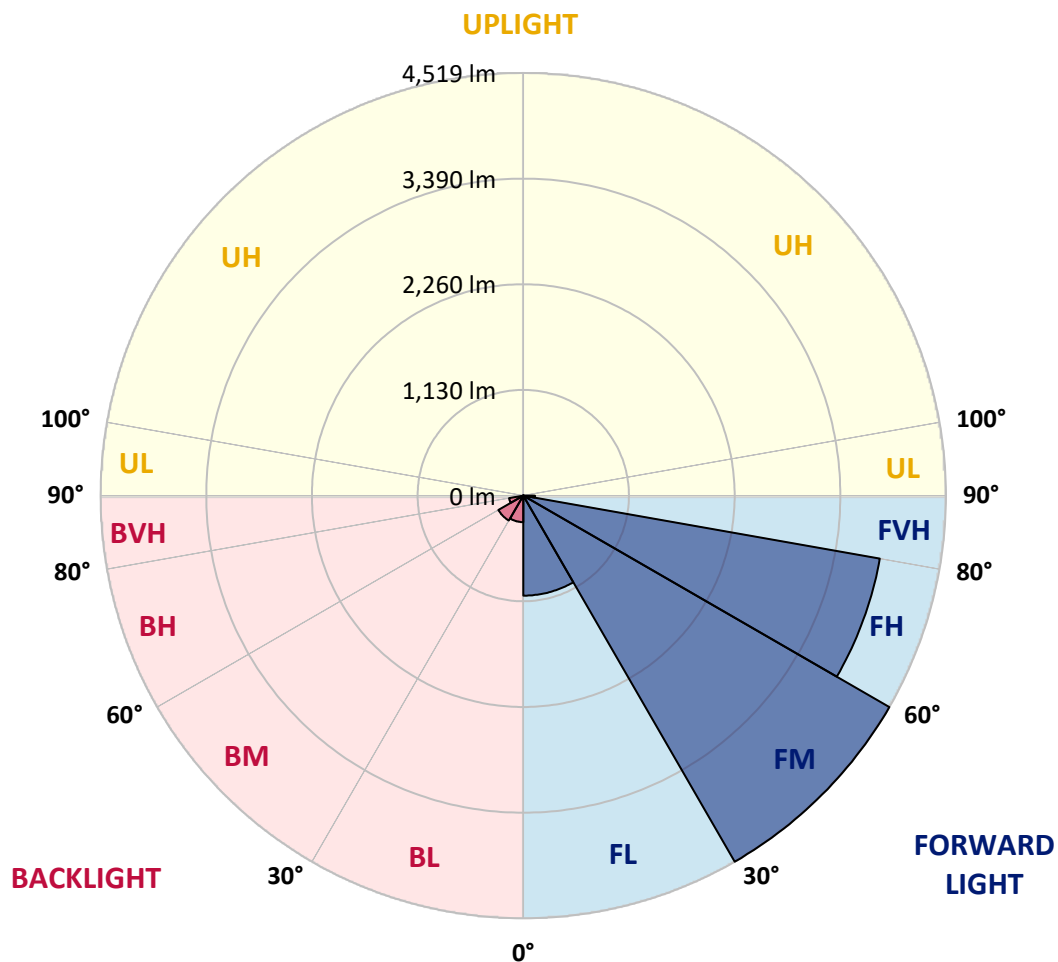
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.3	10.4			
FM (30°-60°)	4519.4	43.8			
FH (60°-80°)	3870.3	37.5			G2/5000
FVH (80°-90°)	124.6	1.2			G2/225
BL (0°-30°)	283.0	2.7	B1/500		
BM (30°-60°)	307.3	3.0	B1/1000		
BH (60°-80°)	154.1	1.5	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1
2.5°	3177.8	3182.6	3164.7	3150.2	3112.9	3072.9	3019.7	2991.4	2943.1	2859.6	2767.1
5°	3252.3	3258.6	3255.8	3252.3	3237.8	3199.2	3131.6	3106.7	3035.6	2899.6	2732.6
7.5°	3086.7	3109.5	3112.2	3139.1	3164.7	3168.1	3142.6	3124.0	3058.4	2898.9	2671.2
10°	2867.2	2882.4	2904.5	2935.5	2997.0	3048.0	3072.9	3070.1	3032.2	2877.5	2599.4
12.5°	2645.6	2653.9	2687.7	2740.9	2816.1	2903.1	2969.3	2982.5	2983.2	2852.0	2539.3
15°	2455.1	2451.7	2477.9	2539.3	2644.9	2754.0	2872.7	2893.4	2926.6	2827.2	2483.4
17.5°	2292.2	2310.2	2314.3	2382.0	2479.3	2620.8	2771.9	2808.5	2874.8	2805.8	2437.2
20°	2191.5	2201.1	2210.1	2248.1	2335.7	2484.8	2677.4	2727.8	2826.5	2786.4	2385.4
22.5°	2161.8	2168.0	2160.4	2172.1	2234.3	2366.8	2574.5	2641.5	2780.2	2768.5	2343.3
25°	2184.6	2190.8	2172.8	2159.0	2180.4	2270.8	2475.1	2556.6	2743.0	2765.0	2311.6
27.5°	2239.8	2251.5	2226.7	2201.8	2189.4	2219.1	2397.2	2491.7	2717.4	2781.6	2297.1
30°	2326.1	2333.0	2314.3	2284.0	2255.7	2226.0	2356.4	2446.8	2710.5	2820.3	2295.7
32.5°	2419.9	2434.4	2424.1	2404.1	2367.5	2297.1	2368.2	2448.2	2727.1	2876.2	2312.9
35°	2535.9	2552.5	2562.1	2558.0	2511.0	2423.4	2442.7	2510.3	2771.3	2979.0	2359.9
37.5°	2649.8	2664.3	2718.8	2737.4	2696.0	2613.2	2587.7	2632.5	2868.6	3113.6	2444.8
40°	2780.2	2799.6	2876.2	2947.3	2927.2	2840.3	2793.3	2830.6	3017.7	3316.5	2605.6
42.5°	2905.2	2939.7	3056.3	3181.9	3200.6	3103.3	3072.2	3084.6	3238.5	3608.5	2829.9
45°	3082.5	3115.0	3265.5	3435.9	3523.6	3447.7	3415.9	3413.9	3541.5	4019.2	3193.7
47.5°	3338.6	3367.6	3545.0	3713.4	3869.4	3879.8	3819.7	3840.4	3922.5	4499.6	3639.6
50°	3652.7	3721.0	3837.7	4013.0	4221.4	4389.8	4408.5	4380.9	4451.3	5055.9	4175.2
52.5°	4108.9	4135.1	4242.1	4386.4	4630.7	4916.5	5138.0	5100.1	5078.0	5586.0	4716.3
55°	4449.2	4484.4	4650.7	4848.8	5207.1	5583.9	6064.3	6077.4	5798.6	6095.4	5245.7
57.5°	4346.3	4400.2	4652.1	5050.4	5837.9	6526.8	6884.3	6893.3	6465.3	6590.3	5843.4
60°	3818.3	3843.9	4204.9	4736.3	5891.8	7548.3	8047.3	7974.9	7143.8	7143.8	6371.5
62.5°	2707.8	2747.8	3040.4	3822.5	5320.9	7903.1	9440.2	9290.4	8078.4	7673.2	6686.2
65°	1730.4	1691.7	1885.7	2413.0	3964.0	7379.2	10652.9	10661.9	8957.7	7885.1	6514.3
67°	1253.4	1238.3	1294.2	1649.6	2687.7	6203.1	10678.5	11151.3	9463.0	7751.2	5964.9
67.5°	1146.5	1158.2	1198.9	1488.1	2442.0	5644.7	10562.5	11122.3	9576.9	7670.5	5766.1
70°	869.0	849.0	893.2	1052.6	1464.0	3560.9	9086.1	10200.8	9435.4	6869.1	4607.3
72.5°	639.1	637.1	698.5	860.7	1127.1	1896.7	6820.8	8179.2	7708.4	5230.5	2901.0
75°	431.4	450.7	548.7	719.2	1021.5	1230.0	4650.0	5933.9	5351.3	2970.0	1185.8
77.5°	245.7	247.1	353.4	577.7	917.3	989.8	2755.4	3780.4	2832.7	987.7	352.0
80°	106.3	116.6	175.3	419.7	760.6	876.6	1579.9	2077.6	1145.8	209.1	113.9
82.5°	39.3	46.2	77.3	258.1	554.9	722.0	954.6	991.9	388.6	73.9	71.1
85°	0.0	1.4	28.3	120.8	289.2	322.3	637.8	588.1	171.9	35.2	46.2
87.5°	0.0	0.0	0.0	12.4	38.0	120.1	198.1	220.9	41.4	12.4	11.0
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°	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1	2738.1
2.5°	2717.4	2672.6	2560.0	2447.5	2364.0	2294.3	2189.4	2132.1	2101.7	2056.9	2059.6
5°	2649.1	2558.0	2359.9	2154.9	1989.2	1827.7	1634.5	1556.5	1490.9	1453.6	1428.8
7.5°	2547.6	2413.0	2119.7	1846.4	1591.7	1309.4	1097.5	956.0	860.7	825.5	791.7
10°	2436.5	2257.7	1876.0	1497.1	1143.7	852.4	673.0	543.2	497.0	454.2	458.3
12.5°	2333.7	2116.2	1652.4	1181.7	801.4	541.8	422.4	369.3	354.1	349.3	349.3
15°	2249.4	1980.9	1412.2	888.3	549.4	389.3	338.2	323.7	318.2	316.8	316.8
17.5°	2159.7	1852.6	1195.5	656.4	399.6	325.8	308.5	298.9	296.8	295.4	295.4
20°	2079.6	1723.5	989.8	488.7	323.0	293.3	282.3	276.1	274.0	272.6	273.3
22.5°	2003.7	1608.9	796.5	369.3	284.4	267.1	256.1	249.9	245.7	242.3	243.0
25°	1936.1	1498.5	640.5	302.3	256.1	240.9	229.8	220.9	211.9	207.8	207.1
27.5°	1888.5	1401.8	499.0	258.8	230.5	214.0	200.2	189.1	177.4	171.2	169.8
30°	1849.1	1303.8	394.8	228.5	205.0	189.1	171.9	156.0	143.6	137.4	134.6
32.5°	1823.6	1210.7	311.3	203.6	183.6	164.3	144.9	129.1	115.3	109.1	107.7
35°	1819.4	1132.7	254.7	182.9	164.3	143.6	123.6	106.3	94.6	88.3	87.0
37.5°	1849.1	1072.6	213.3	166.3	148.4	125.6	103.5	87.7	77.3	72.5	71.8
40°	1928.5	1034.6	185.0	152.5	133.9	109.1	88.3	74.5	64.2	59.4	59.4
42.5°	2079.6	1036.0	166.3	139.4	119.4	93.2	75.2	62.1	53.1	49.0	47.6
45°	2315.7	1083.0	150.5	126.3	105.6	80.8	64.2	51.1	42.1	38.7	38.7
47.5°	2631.8	1176.1	136.7	113.2	93.2	69.0	54.5	41.4	33.8	30.4	30.4
50°	3045.3	1325.9	124.9	102.2	82.8	59.4	44.2	33.8	26.2	23.5	22.8
52.5°	3477.4	1510.9	111.1	92.5	71.1	50.4	35.9	26.2	20.0	17.9	17.3
55°	3954.3	1691.7	98.0	82.8	58.0	42.1	28.3	20.7	14.5	12.4	12.4
57.5°	4435.4	1869.1	82.1	69.0	45.6	31.1	22.1	15.2	9.7	7.6	7.6
60°	4842.6	1926.4	69.7	55.9	34.5	22.1	15.9	9.7	5.5	3.5	3.5
62.5°	4898.5	1733.2	58.7	42.8	24.8	15.2	8.3	5.5	2.1	1.4	1.4
65°	4594.8	1408.1	49.0	32.4	16.6	7.6	3.5	2.1	0.7	0.0	0.0
67°	4117.2	1141.6	40.0	24.2	11.7	4.8	2.1	0.7	0.0	0.0	0.0
67.5°	3995.0	1088.5	38.7	22.8	10.4	4.1	1.4	0.7	0.0	0.0	0.0
70°	3135.0	815.2	27.6	13.8	6.2	2.8	0.0	0.0	0.0	0.0	0.0
72.5°	1948.5	461.1	20.0	8.3	4.1	1.4	0.0	0.0	0.0	0.0	0.0
75°	736.5	161.5	13.8	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	229.2	61.4	8.3	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.3	23.5	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.6	9.7	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.7	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	1.4	0.7	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)