

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: P452315

Luminaire Tested: **GALN-SA3B-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452315  
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-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 12797 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

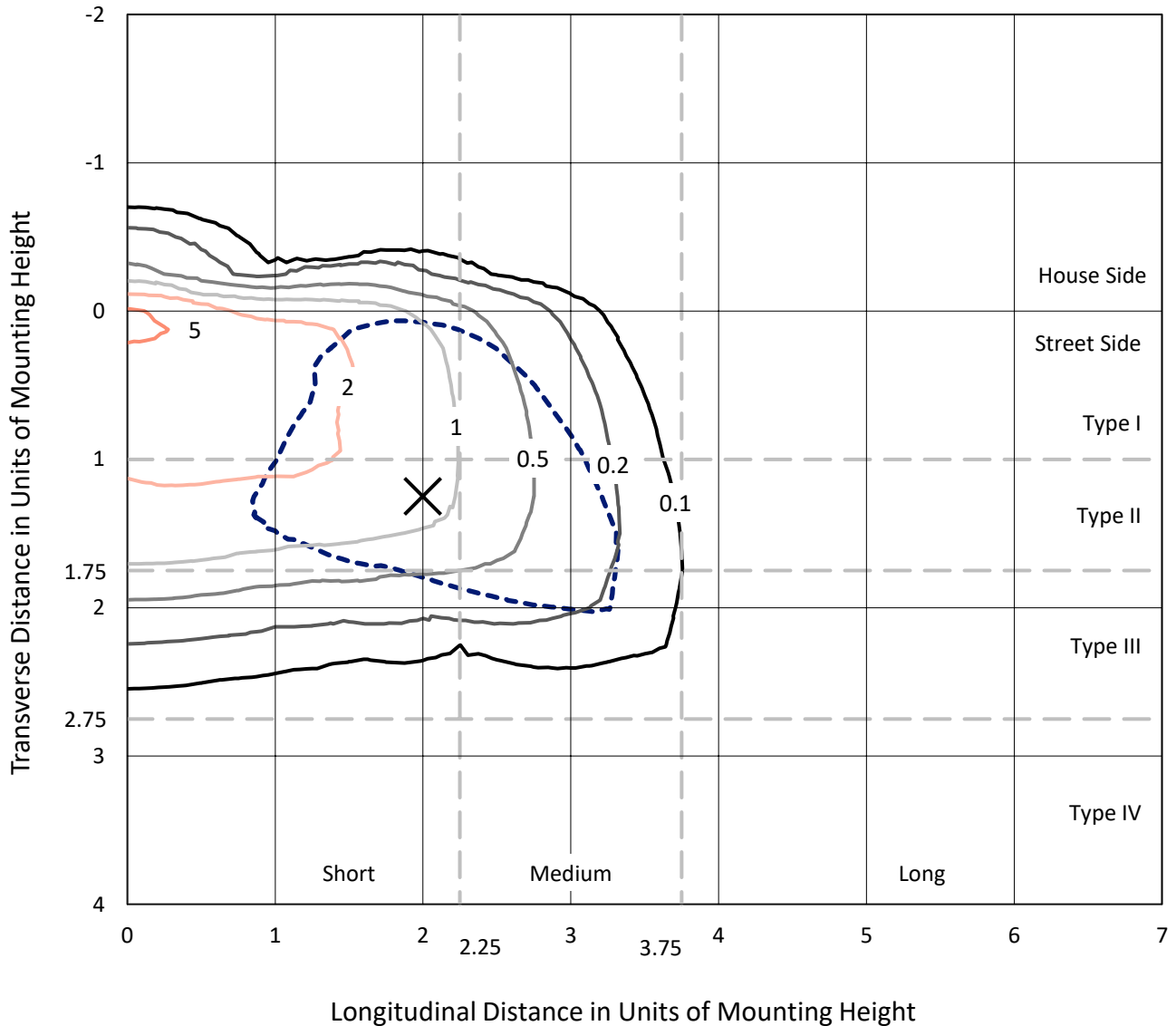
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

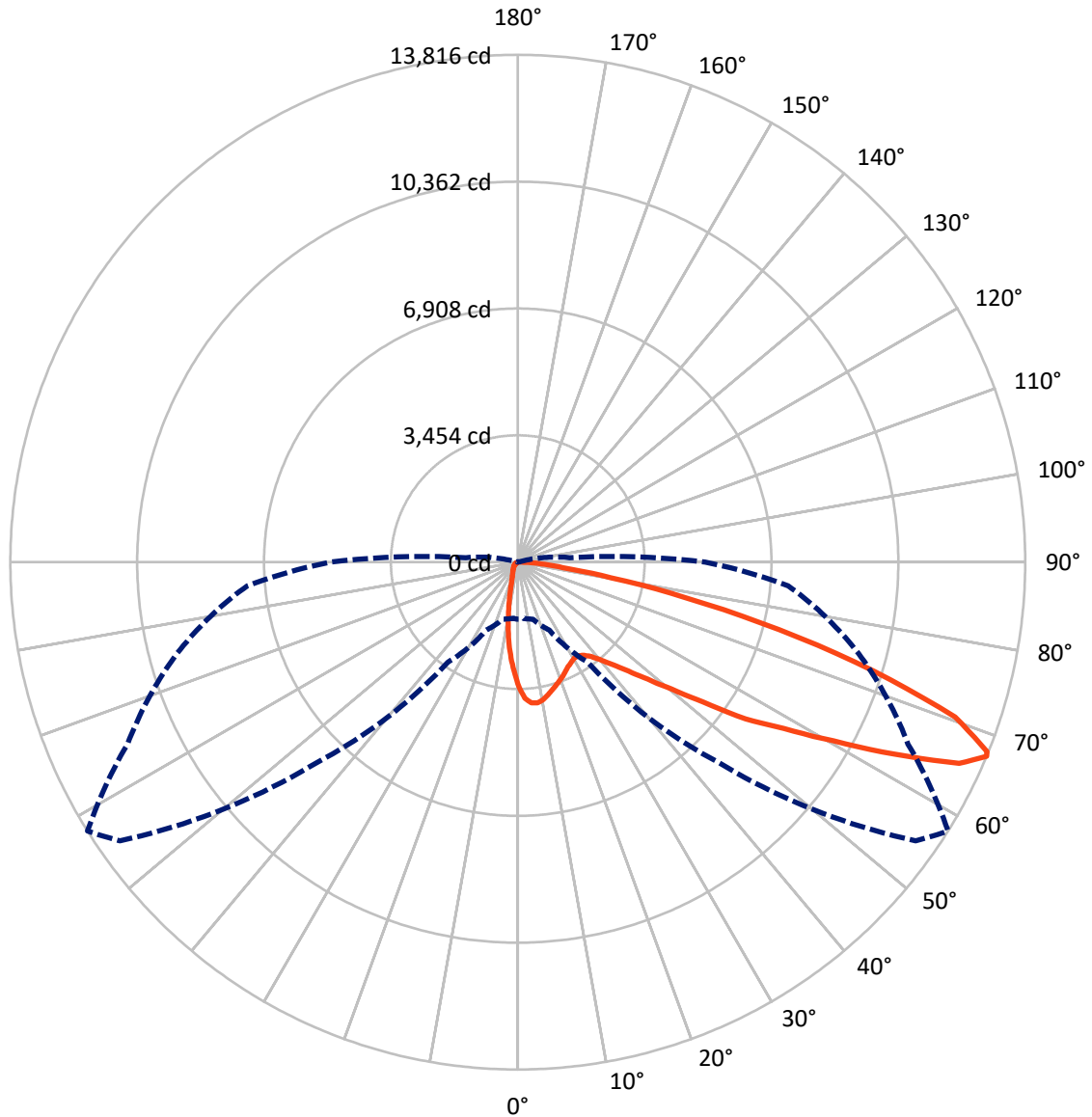
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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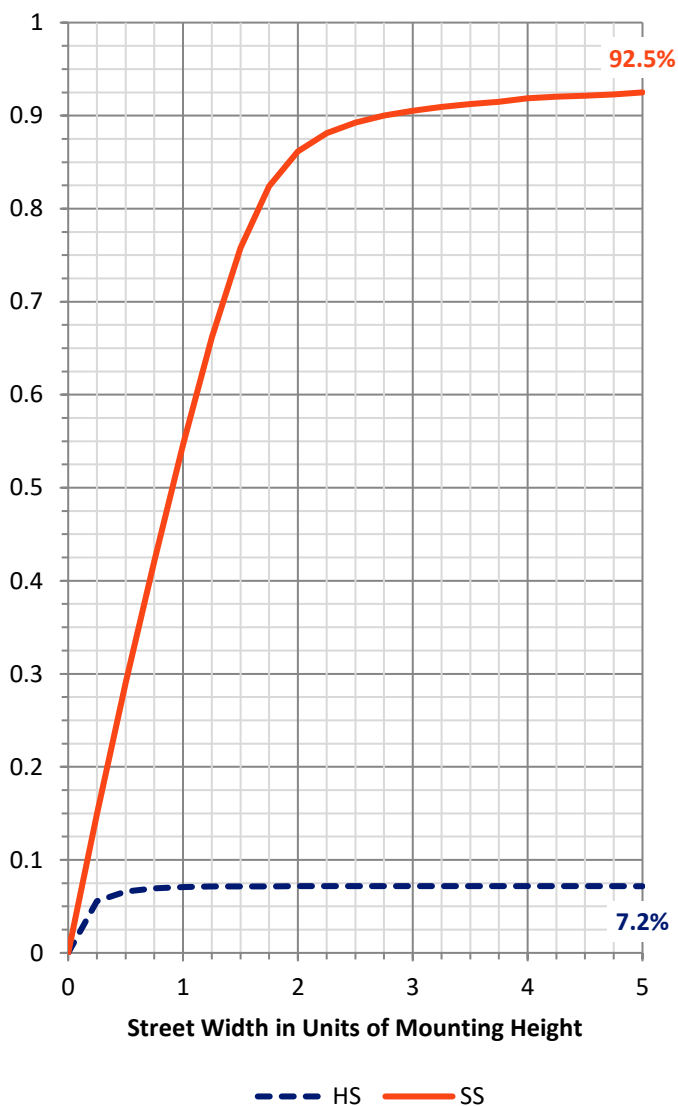
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	923.5	0.0	923.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	11873.5	0.0	11873.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	12797.0	0.0	12797.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.3	2.2
10°-20°	594.5	4.6
20°-30°	805.6	6.3
30°-40°	1117.4	8.7
40°-50°	1782.1	13.9
50°-60°	3080.5	24.1
60°-70°	3518.9	27.5
70°-80°	1467.1	11.5
80°-90°	155.5	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°	12797.0	100.0
0°-180°	12797.0	100.0

**Coefficient of Utilization**



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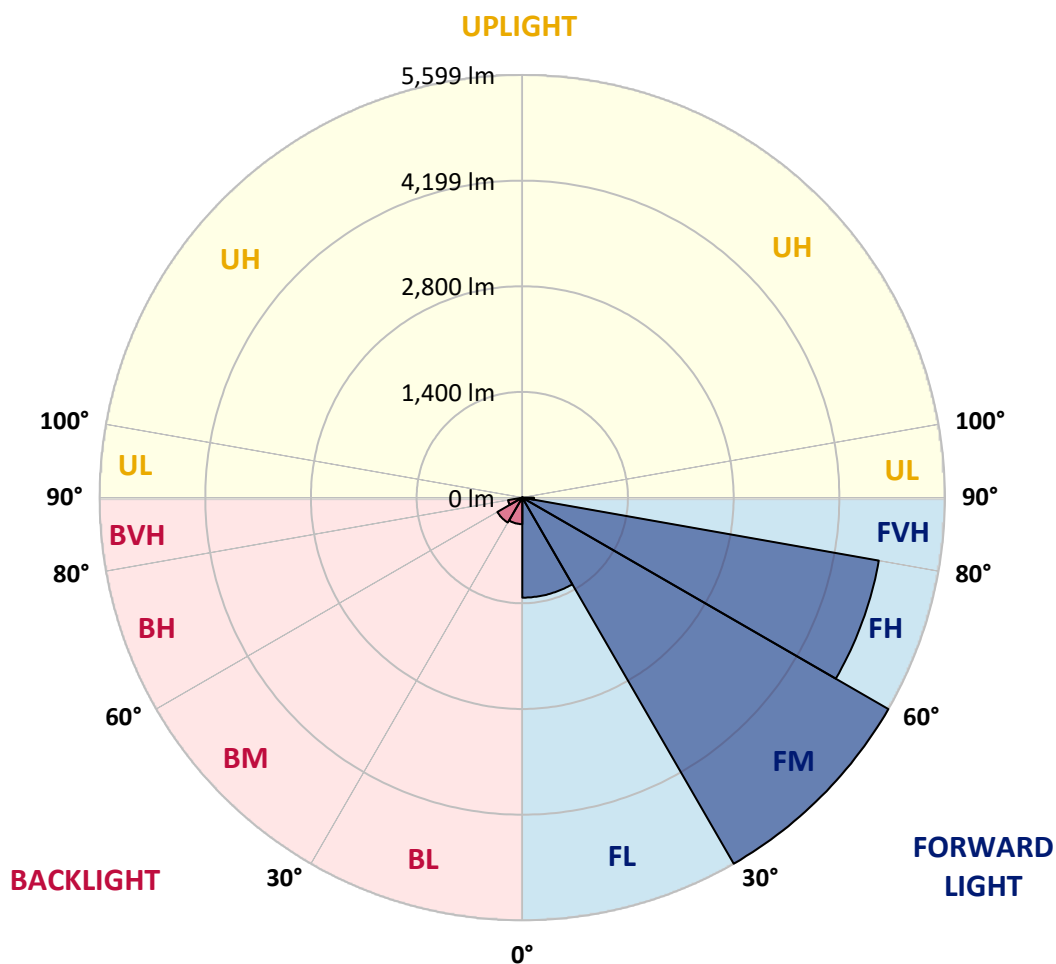
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.8	10.4			
FM (30°-60°)	5599.2	43.8			
FH (60°-80°)	4795.1	37.5			G2/5000
FVH (80°-90°)	154.4	1.2			G2/225
BL (0°-30°)	350.7	2.7	B1/500		
BM (30°-60°)	380.8	3.0	B1/1000		
BH (60°-80°)	190.9	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	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°	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4
2.5°	3937.1	3943.1	3920.8	3902.9	3856.7	3807.1	3741.3	3706.2	3646.3	3542.9	3428.3
5°	4029.5	4037.1	4033.7	4029.5	4011.5	3963.6	3879.8	3849.0	3760.9	3592.5	3385.5
7.5°	3824.2	3852.4	3855.9	3889.2	3920.8	3925.1	3893.5	3870.4	3789.2	3591.6	3309.4
10°	3552.3	3571.1	3598.5	3636.9	3713.0	3776.3	3807.1	3803.7	3756.7	3565.1	3220.5
12.5°	3277.8	3288.0	3329.9	3395.8	3489.0	3596.7	3678.8	3695.1	3695.9	3533.5	3146.1
15°	3041.8	3037.5	3070.0	3146.1	3276.9	3412.0	3559.1	3584.8	3625.8	3502.7	3076.8
17.5°	2839.9	2862.2	2867.3	2951.1	3071.7	3247.0	3434.3	3479.6	3561.7	3476.2	3019.5
20°	2715.1	2727.1	2738.2	2785.2	2893.8	3078.5	3317.1	3379.5	3501.8	3452.2	2955.4
22.5°	2678.3	2686.0	2676.6	2691.1	2768.1	2932.3	3189.7	3272.6	3444.5	3430.0	2903.2
25°	2706.5	2714.2	2692.0	2674.9	2701.4	2813.4	3066.6	3167.5	3398.4	3425.7	2863.9
27.5°	2775.0	2789.5	2758.7	2727.9	2712.5	2749.3	2969.9	3087.1	3366.7	3446.2	2845.9
30°	2881.8	2890.4	2867.3	2829.7	2794.6	2757.8	2919.5	3031.5	3358.2	3494.1	2844.2
32.5°	2998.1	3016.1	3003.3	2978.5	2933.2	2845.9	2934.0	3033.2	3378.7	3563.4	2865.6
35°	3141.8	3162.3	3174.3	3169.2	3111.0	3002.4	3026.4	3110.2	3433.4	3690.8	2923.7
37.5°	3282.9	3300.9	3368.4	3391.5	3340.2	3237.6	3205.9	3261.5	3554.0	3857.6	3028.9
40°	3444.5	3468.5	3563.4	3651.5	3626.7	3518.9	3460.8	3507.0	3738.7	4109.0	3228.2
42.5°	3599.3	3642.1	3786.6	3942.2	3965.3	3844.7	3806.3	3821.7	4012.3	4470.7	3506.1
45°	3819.1	3859.3	4045.7	4256.9	4365.5	4271.5	4232.1	4229.6	4387.8	4979.5	3956.8
47.5°	4136.3	4172.3	4392.0	4600.7	4794.0	4806.8	4732.4	4758.0	4859.8	5574.7	4509.2
50°	4525.4	4610.1	4754.6	4971.8	5230.1	5438.7	5461.8	5427.6	5514.8	6263.9	5172.8
52.5°	5090.7	5123.2	5255.7	5434.5	5737.2	6091.2	6365.7	6318.7	6291.3	6920.7	5843.2
55°	5512.3	5555.9	5762.0	6007.4	6451.2	6918.1	7513.3	7529.6	7184.1	7551.8	6499.1
57.5°	5384.9	5451.6	5763.7	6257.1	7232.8	8086.3	8529.2	8540.4	8010.2	8164.9	7239.7
60°	4730.7	4762.3	5209.6	5868.0	7299.5	9351.9	9970.2	9880.4	8850.8	8850.8	7893.9
62.5°	3354.7	3404.3	3766.9	4735.8	6592.3	9791.4	11695.8	11510.3	10008.6	9506.7	8283.8
65°	2143.9	2096.0	2336.3	2989.6	4911.1	9142.4	13198.3	13209.5	11098.1	9769.2	8070.9
67°	1552.9	1534.1	1603.4	2043.8	3329.9	7685.2	13230.0	13815.8	11724.1	9603.3	7390.2
67.5°	1420.4	1434.9	1485.4	1843.7	3025.5	6993.4	13086.3	13779.8	11865.2	9503.2	7143.9
70°	1076.6	1051.8	1106.6	1304.1	1813.8	4411.7	11257.2	12638.2	11689.9	8510.4	5708.1
72.5°	791.9	789.3	865.4	1066.4	1396.5	2349.9	8450.6	10133.5	9550.3	6480.3	3594.2
75°	534.5	558.4	679.8	891.1	1265.6	1523.9	5761.1	7351.7	6630.0	3679.7	1469.1
77.5°	304.4	306.1	437.8	715.8	1136.5	1226.3	3413.7	4683.6	3509.5	1223.7	436.1
80°	131.7	144.5	217.2	519.9	942.4	1086.0	1957.4	2574.0	1419.5	259.1	141.1
82.5°	48.7	57.3	95.8	319.8	687.5	894.5	1182.7	1228.8	481.4	91.5	88.1
85°	0.0	1.7	35.1	149.7	358.3	399.4	790.2	728.6	212.9	43.6	57.3
87.5°	0.0	0.0	0.0	15.4	47.0	148.8	245.4	273.6	51.3	15.4	13.7
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°	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4	3392.4
2.5°	3366.7	3311.1	3171.7	3032.4	2928.9	2842.5	2712.5	2641.5	2603.9	2548.3	2551.8
5°	3282.1	3169.2	2923.7	2669.8	2464.5	2264.4	2025.0	1928.4	1847.1	1800.9	1770.2
7.5°	3156.3	2989.6	2626.2	2287.5	1972.0	1622.2	1359.7	1184.4	1066.4	1022.8	980.9
10°	3018.7	2797.2	2324.3	1854.8	1417.0	1056.1	833.8	673.0	615.7	562.7	567.8
12.5°	2891.3	2621.9	2047.2	1464.0	992.8	671.3	523.3	457.5	438.7	432.7	432.7
15°	2786.9	2454.3	1749.6	1100.6	680.7	482.3	419.0	401.1	394.2	392.5	392.5
17.5°	2675.8	2295.2	1481.1	813.2	495.1	403.6	382.3	370.3	367.7	366.0	366.0
20°	2576.6	2135.3	1226.3	605.4	400.2	363.4	349.8	342.1	339.5	337.8	338.6
22.5°	2482.5	1993.3	986.8	457.5	352.3	330.9	317.3	309.6	304.4	300.2	301.0
25°	2398.7	1856.5	793.6	374.6	317.3	298.4	284.8	273.6	262.5	257.4	256.5
27.5°	2339.7	1736.8	618.3	320.7	285.6	265.1	248.0	234.3	219.8	212.1	210.4
30°	2290.9	1615.4	489.1	283.1	254.0	234.3	212.9	193.3	177.9	170.2	166.8
32.5°	2259.3	1499.9	385.7	252.3	227.5	203.5	179.6	159.9	142.8	135.1	133.4
35°	2254.2	1403.3	315.5	226.6	203.5	177.9	153.1	131.7	117.2	109.5	107.7
37.5°	2290.9	1328.9	264.2	206.1	183.9	155.6	128.3	108.6	95.8	89.8	88.9
40°	2389.3	1281.9	229.2	189.0	165.9	135.1	109.5	92.4	79.5	73.5	73.5
42.5°	2576.6	1283.6	206.1	172.7	147.9	115.4	93.2	77.0	65.8	60.7	59.0
45°	2869.0	1341.7	186.4	156.5	130.8	100.1	79.5	63.3	52.2	47.9	47.9
47.5°	3260.7	1457.2	169.3	140.2	115.4	85.5	67.6	51.3	41.9	37.6	37.6
50°	3772.9	1642.7	154.8	126.6	102.6	73.5	54.7	41.9	32.5	29.1	28.2
52.5°	4308.2	1871.9	137.7	114.6	88.1	62.4	44.5	32.5	24.8	22.2	21.4
55°	4899.1	2096.0	121.4	102.6	71.8	52.2	35.1	25.7	18.0	15.4	15.4
57.5°	5495.2	2315.7	101.8	85.5	56.4	38.5	27.4	18.8	12.0	9.4	9.4
60°	5999.7	2386.7	86.4	69.3	42.8	27.4	19.7	12.0	6.8	4.3	4.3
62.5°	6069.0	2147.3	72.7	53.0	30.8	18.8	10.3	6.8	2.6	1.7	1.7
65°	5692.7	1744.5	60.7	40.2	20.5	9.4	4.3	2.6	0.9	0.0	0.0
67°	5101.0	1414.4	49.6	29.9	14.5	6.0	2.6	0.9	0.0	0.0	0.0
67.5°	4949.6	1348.6	47.9	28.2	12.8	5.1	1.7	0.9	0.0	0.0	0.0
70°	3884.1	1009.9	34.2	17.1	7.7	3.4	0.0	0.0	0.0	0.0	0.0
72.5°	2414.1	571.2	24.8	10.3	5.1	1.7	0.0	0.0	0.0	0.0	0.0
75°	912.4	200.1	17.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	283.9	76.1	10.3	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	95.8	29.1	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.0	12.0	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.8	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	1.7	0.9	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)