

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: P451851

Luminaire Tested: **GALN-SA2D-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451851  
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-SA2D-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA 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: 11720 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

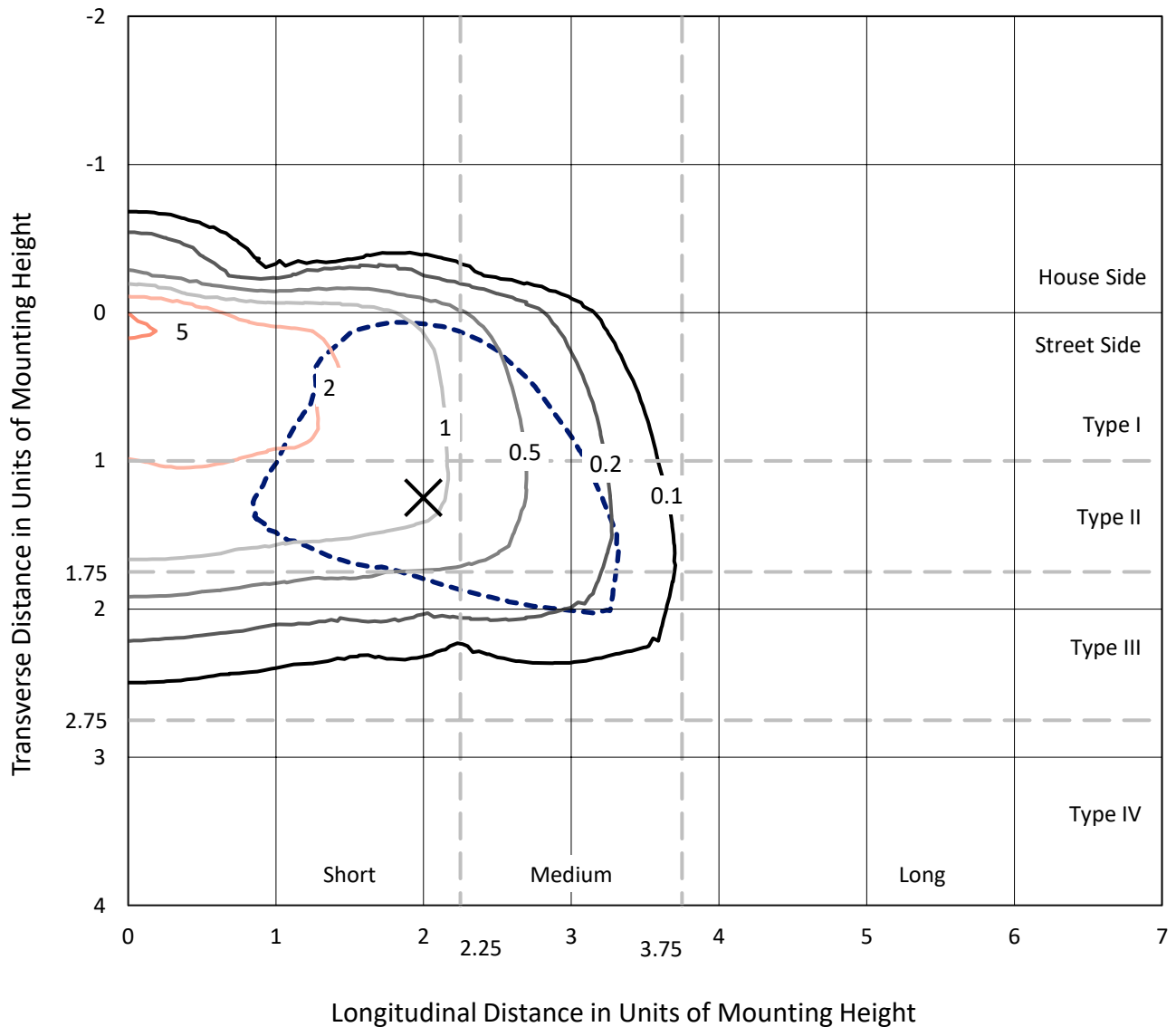
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

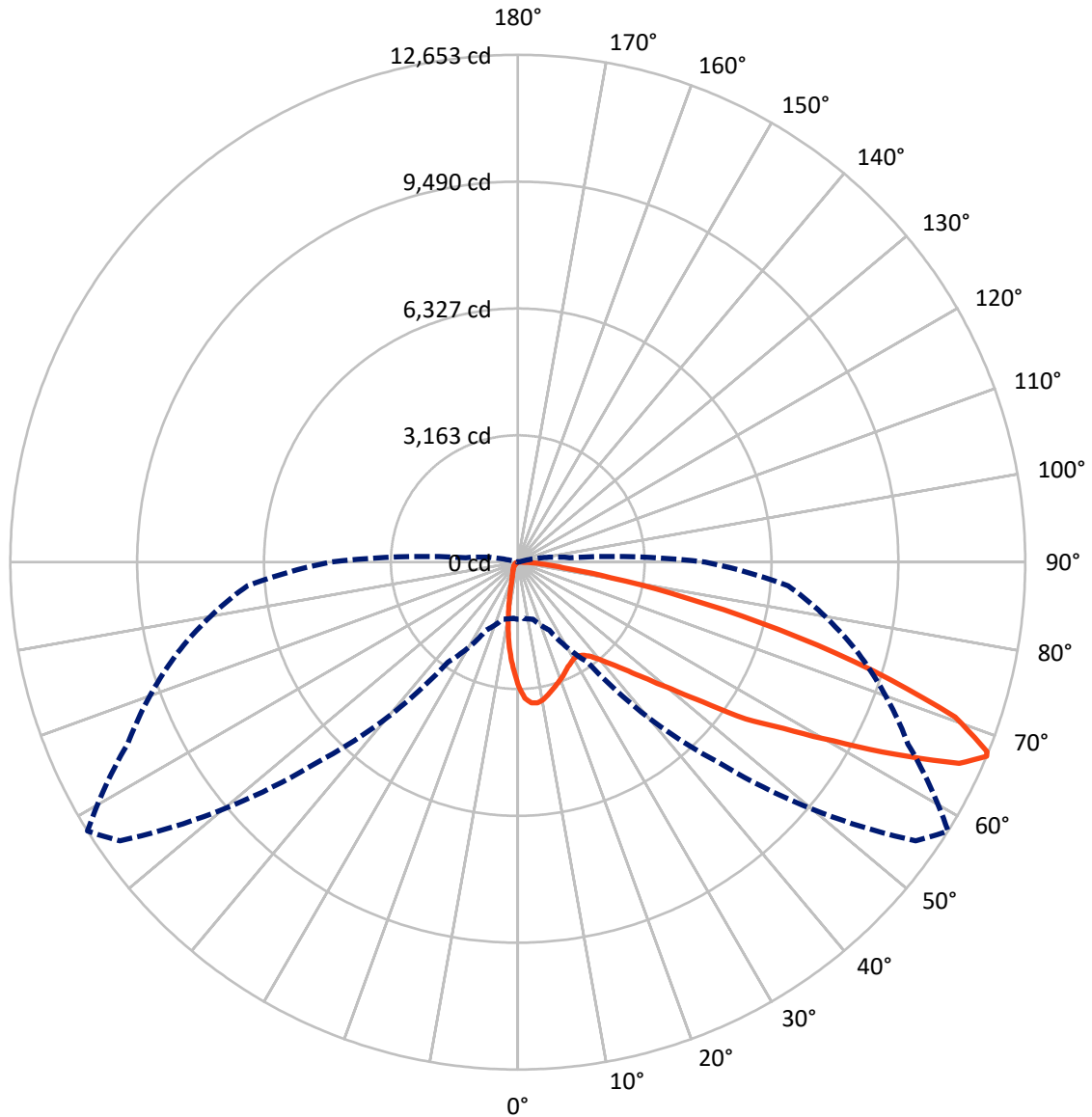
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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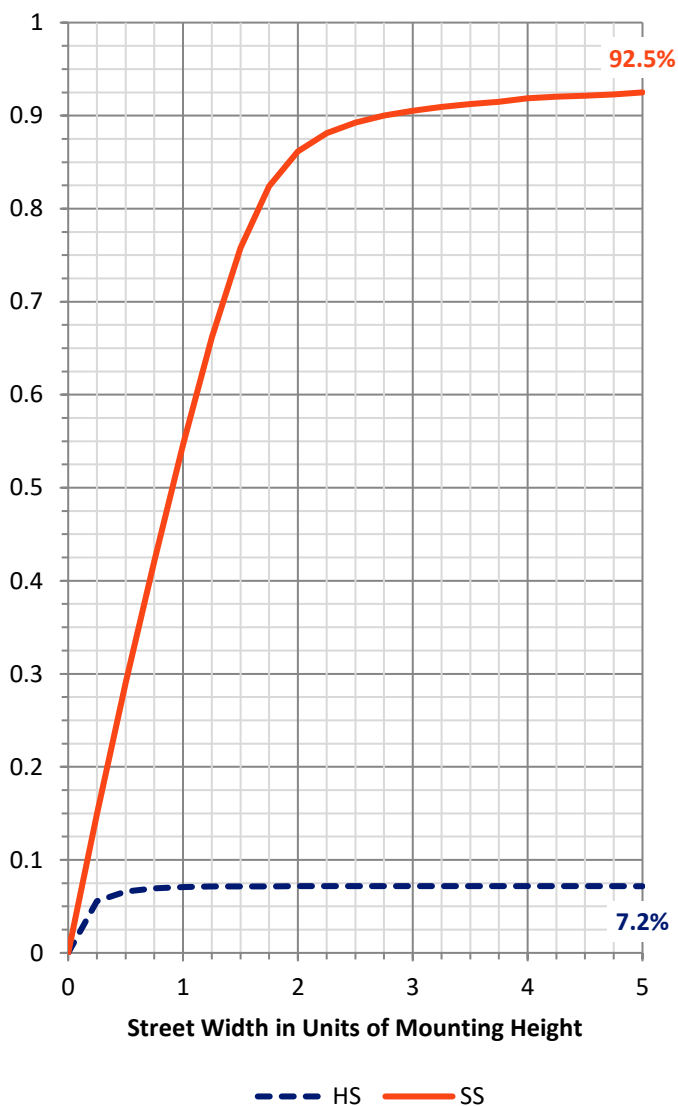
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	845.8	0.0	845.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10874.2	0.0	10874.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11720.0	0.0	11720.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.1	2.2
10°-20°	544.5	4.6
20°-30°	737.8	6.3
30°-40°	1023.3	8.7
40°-50°	1632.1	13.9
50°-60°	2821.3	24.1
60°-70°	3222.8	27.5
70°-80°	1343.6	11.5
80°-90°	142.5	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°	11720.0	100.0
0°-180°	11720.0	100.0

**Coefficient of Utilization**



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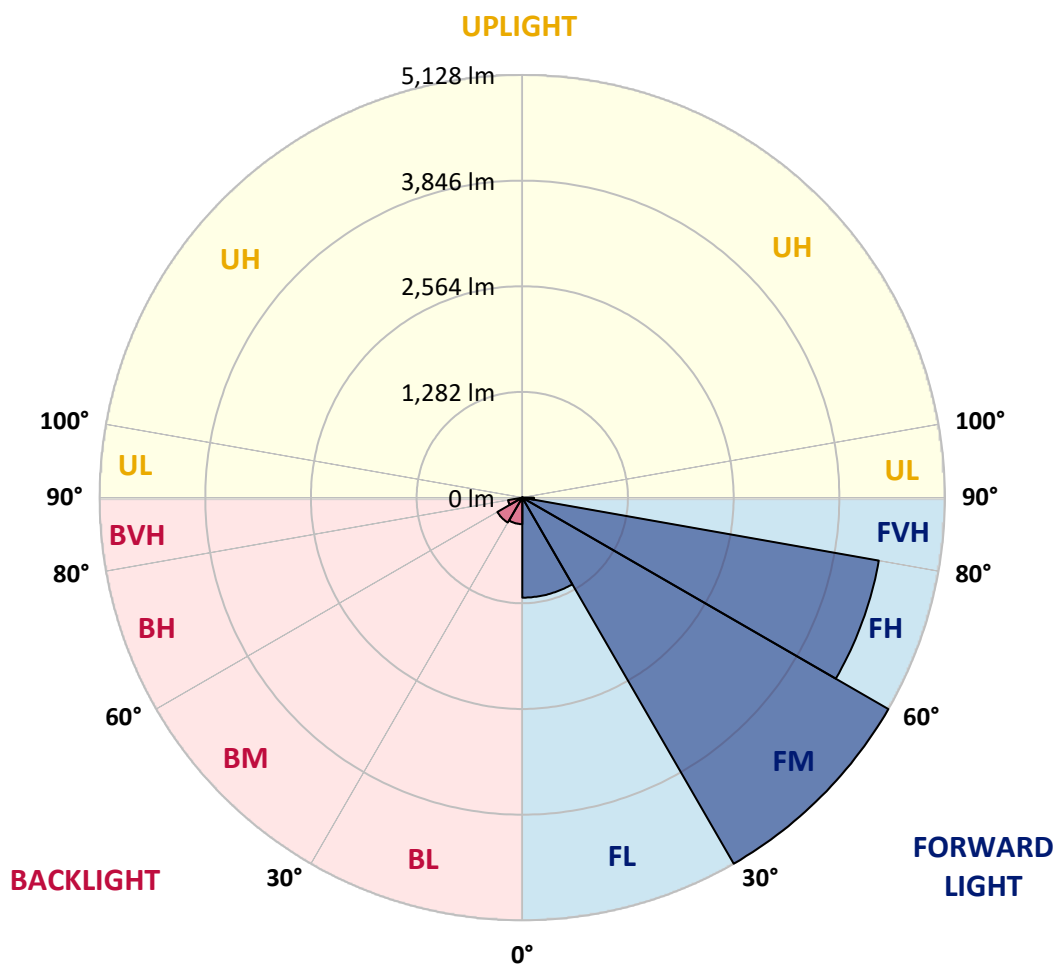
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1213.3	10.4			
FM (30°-60°)	5128.0	43.8			
FH (60°-80°)	4391.5	37.5			G2/5000
FVH (80°-90°)	141.4	1.2			G2/225
BL (0°-30°)	321.2	2.7	B1/500		
BM (30°-60°)	348.7	3.0	B1/1000		
BH (60°-80°)	174.9	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	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°	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9
2.5°	3605.7	3611.2	3590.9	3574.4	3532.1	3486.7	3426.4	3394.3	3339.5	3244.7	3139.8
5°	3690.3	3697.4	3694.2	3690.3	3673.9	3630.0	3553.3	3525.1	3444.4	3290.1	3100.6
7.5°	3502.4	3528.2	3531.3	3561.9	3590.9	3594.8	3565.8	3544.7	3470.3	3289.3	3030.9
10°	3253.3	3270.5	3295.6	3330.9	3400.6	3458.5	3486.7	3483.6	3440.5	3265.1	2949.4
12.5°	3001.9	3011.3	3049.7	3110.0	3195.4	3294.0	3369.2	3384.1	3384.9	3236.1	2881.3
15°	2785.8	2781.8	2811.6	2881.3	3001.1	3124.9	3259.6	3283.1	3320.7	3207.9	2817.9
17.5°	2600.9	2621.3	2626.0	2702.7	2813.2	2973.7	3145.2	3186.7	3261.9	3183.6	2765.4
20°	2486.6	2497.6	2507.7	2550.8	2650.3	2819.4	3037.9	3095.1	3207.1	3161.7	2706.7
22.5°	2452.9	2460.0	2451.3	2464.7	2535.1	2685.5	2921.3	2997.2	3154.6	3141.3	2658.9
25°	2478.8	2485.8	2465.4	2449.8	2474.1	2576.7	2808.5	2900.9	3112.3	3137.4	2622.9
27.5°	2541.4	2554.7	2526.5	2498.3	2484.2	2517.9	2720.0	2827.3	3083.4	3156.2	2606.4
30°	2639.3	2647.1	2626.0	2591.5	2559.4	2525.7	2673.8	2776.4	3075.5	3200.1	2604.8
32.5°	2745.8	2762.3	2750.5	2727.8	2686.3	2606.4	2687.1	2777.9	3094.3	3263.5	2624.4
35°	2877.4	2896.2	2907.2	2902.5	2849.2	2749.7	2771.7	2848.4	3144.5	3380.2	2677.7
37.5°	3006.6	3023.1	3084.9	3106.1	3059.1	2965.1	2936.1	2987.0	3254.9	3532.9	2774.0
40°	3154.6	3176.6	3263.5	3344.2	3321.5	3222.8	3169.5	3211.8	3424.1	3763.2	2956.5
42.5°	3296.4	3335.6	3467.9	3610.4	3631.6	3521.2	3485.9	3500.0	3674.7	4094.5	3211.0
45°	3497.7	3534.5	3705.2	3898.7	3998.1	3912.0	3875.9	3873.6	4018.5	4560.4	3623.8
47.5°	3788.2	3821.1	4022.4	4213.5	4390.5	4402.2	4334.1	4357.6	4450.8	5105.5	4129.7
50°	4144.6	4222.1	4354.5	4553.4	4789.9	4981.0	5002.2	4970.8	5050.7	5736.8	4737.4
52.5°	4662.3	4692.0	4813.4	4977.1	5254.3	5578.6	5830.0	5786.9	5761.8	6338.3	5351.5
55°	5048.4	5088.3	5277.0	5501.8	5908.3	6335.9	6881.0	6895.9	6579.5	6916.2	5952.1
57.5°	4931.7	4992.8	5278.6	5730.5	6624.1	7405.7	7811.4	7821.6	7336.0	7477.8	6630.4
60°	4332.5	4361.5	4771.1	5374.2	6685.2	8564.8	9131.1	9048.8	8105.9	8105.9	7229.5
62.5°	3072.4	3117.8	3449.9	4337.2	6037.5	8967.4	10711.5	10541.6	9166.3	8706.6	7586.6
65°	1963.4	1919.6	2139.6	2738.0	4497.8	8372.9	12087.6	12097.7	10164.1	8947.0	7391.6
67°	1422.2	1405.0	1468.5	1871.8	3049.7	7038.4	12116.5	12653.0	10737.4	8795.1	6768.2
67.5°	1300.9	1314.2	1360.4	1688.5	2770.9	6404.8	11985.0	12620.1	10866.6	8703.4	6542.7
70°	986.0	963.3	1013.4	1194.3	1661.1	4040.4	10309.7	11574.6	10706.0	7794.2	5227.7
72.5°	725.2	722.9	792.6	976.6	1278.9	2152.2	7739.4	9280.7	8746.5	5934.9	3291.7
75°	489.5	511.4	622.6	816.1	1159.1	1395.6	5276.3	6733.0	6072.0	3370.0	1345.5
77.5°	278.8	280.4	401.0	655.5	1040.8	1123.1	3126.4	4289.5	3214.2	1120.7	399.4
80°	120.6	132.4	198.9	476.2	863.1	994.6	1792.7	2357.4	1300.1	237.3	129.2
82.5°	44.6	52.5	87.7	292.9	629.7	819.2	1083.1	1125.4	440.9	83.8	80.7
85°	0.0	1.6	32.1	137.1	328.2	365.7	723.7	667.3	195.0	39.9	52.5
87.5°	0.0	0.0	0.0	14.1	43.1	136.3	224.8	250.6	47.0	14.1	12.5
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°	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9	3106.9
2.5°	3083.4	3032.5	2904.8	2777.1	2682.4	2603.3	2484.2	2419.2	2384.8	2333.9	2337.0
5°	3005.8	2902.5	2677.7	2445.1	2257.1	2073.9	1854.6	1766.1	1691.7	1649.4	1621.2
7.5°	2890.7	2738.0	2405.1	2095.0	1806.0	1485.7	1245.3	1084.7	976.6	936.7	898.3
10°	2764.6	2561.8	2128.7	1698.7	1297.7	967.2	763.6	616.4	563.9	515.3	520.0
12.5°	2647.9	2401.2	1874.9	1340.8	909.3	614.8	479.3	419.0	401.8	396.3	396.3
15°	2552.4	2247.7	1602.4	1007.9	623.4	441.7	383.8	367.3	361.0	359.5	359.5
17.5°	2450.6	2102.0	1356.5	744.8	453.5	369.7	350.1	339.1	336.8	335.2	335.2
20°	2359.7	1955.6	1123.1	554.5	366.5	332.9	320.3	313.3	310.9	309.4	310.1
22.5°	2273.6	1825.6	903.8	419.0	322.7	303.1	290.6	283.5	278.8	274.9	275.7
25°	2196.8	1700.3	726.8	343.0	290.6	273.3	260.8	250.6	240.4	235.7	235.0
27.5°	2142.8	1590.6	566.2	293.7	261.6	242.8	227.1	214.6	201.3	194.2	192.7
30°	2098.1	1479.4	448.0	259.2	232.6	214.6	195.0	177.0	162.9	155.9	152.7
32.5°	2069.2	1373.7	353.2	231.0	208.3	186.4	164.5	146.5	130.8	123.7	122.2
35°	2064.5	1285.2	289.0	207.5	186.4	162.9	140.2	120.6	107.3	100.2	98.7
37.5°	2098.1	1217.1	242.0	188.7	168.4	142.5	117.5	99.5	87.7	82.2	81.5
40°	2188.2	1174.0	209.9	173.1	151.9	123.7	100.2	84.6	72.8	67.4	67.4
42.5°	2359.7	1175.5	188.7	158.2	135.5	105.7	85.4	70.5	60.3	55.6	54.0
45°	2627.6	1228.8	170.7	143.3	119.8	91.6	72.8	58.0	47.8	43.9	43.9
47.5°	2986.3	1334.5	155.1	128.4	105.7	78.3	61.9	47.0	38.4	34.5	34.5
50°	3455.4	1504.5	141.8	115.9	94.0	67.4	50.1	38.4	29.8	26.6	25.8
52.5°	3945.6	1714.4	126.1	104.9	80.7	57.2	40.7	29.8	22.7	20.4	19.6
55°	4486.8	1919.6	111.2	94.0	65.8	47.8	32.1	23.5	16.4	14.1	14.1
57.5°	5032.7	2120.8	93.2	78.3	51.7	35.2	25.1	17.2	11.0	8.6	8.6
60°	5494.8	2185.8	79.1	63.4	39.2	25.1	18.0	11.0	6.3	3.9	3.9
62.5°	5558.2	1966.6	66.6	48.6	28.2	17.2	9.4	6.3	2.3	1.6	1.6
65°	5213.6	1597.7	55.6	36.8	18.8	8.6	3.9	2.3	0.8	0.0	0.0
67°	4671.7	1295.4	45.4	27.4	13.3	5.5	2.3	0.8	0.0	0.0	0.0
67.5°	4533.0	1235.1	43.9	25.8	11.7	4.7	1.6	0.8	0.0	0.0	0.0
70°	3557.2	924.9	31.3	15.7	7.0	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	2210.9	523.2	22.7	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
75°	835.7	183.3	15.7	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	260.0	69.7	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.7	26.6	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	11.0	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	1.6	0.8	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)