

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: P650798

Luminaire Tested: **GALN-SA3C-840-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-840-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17276.7 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

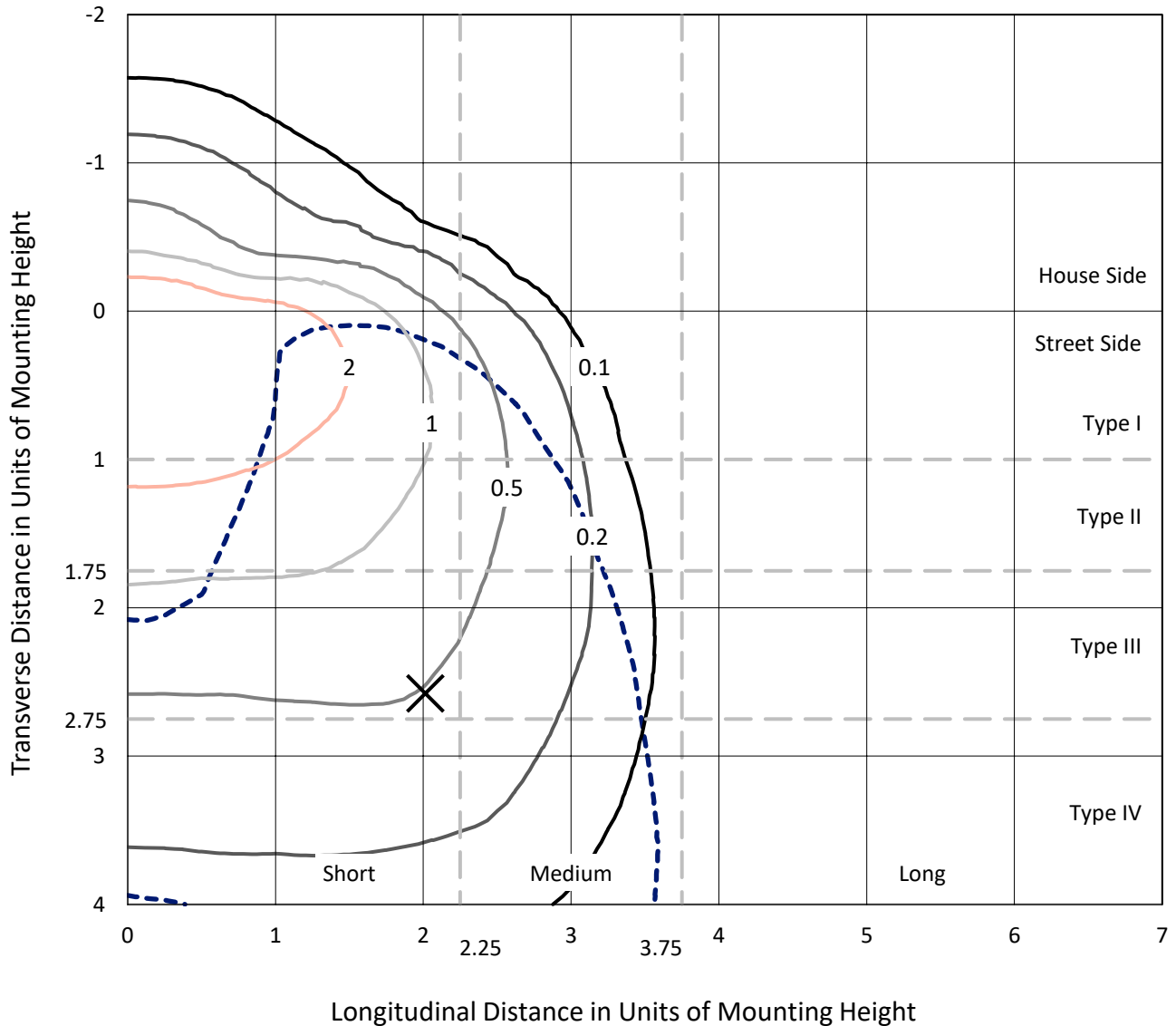
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650798  
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### Iso-Footcandle Lines of Horizontal Illumination

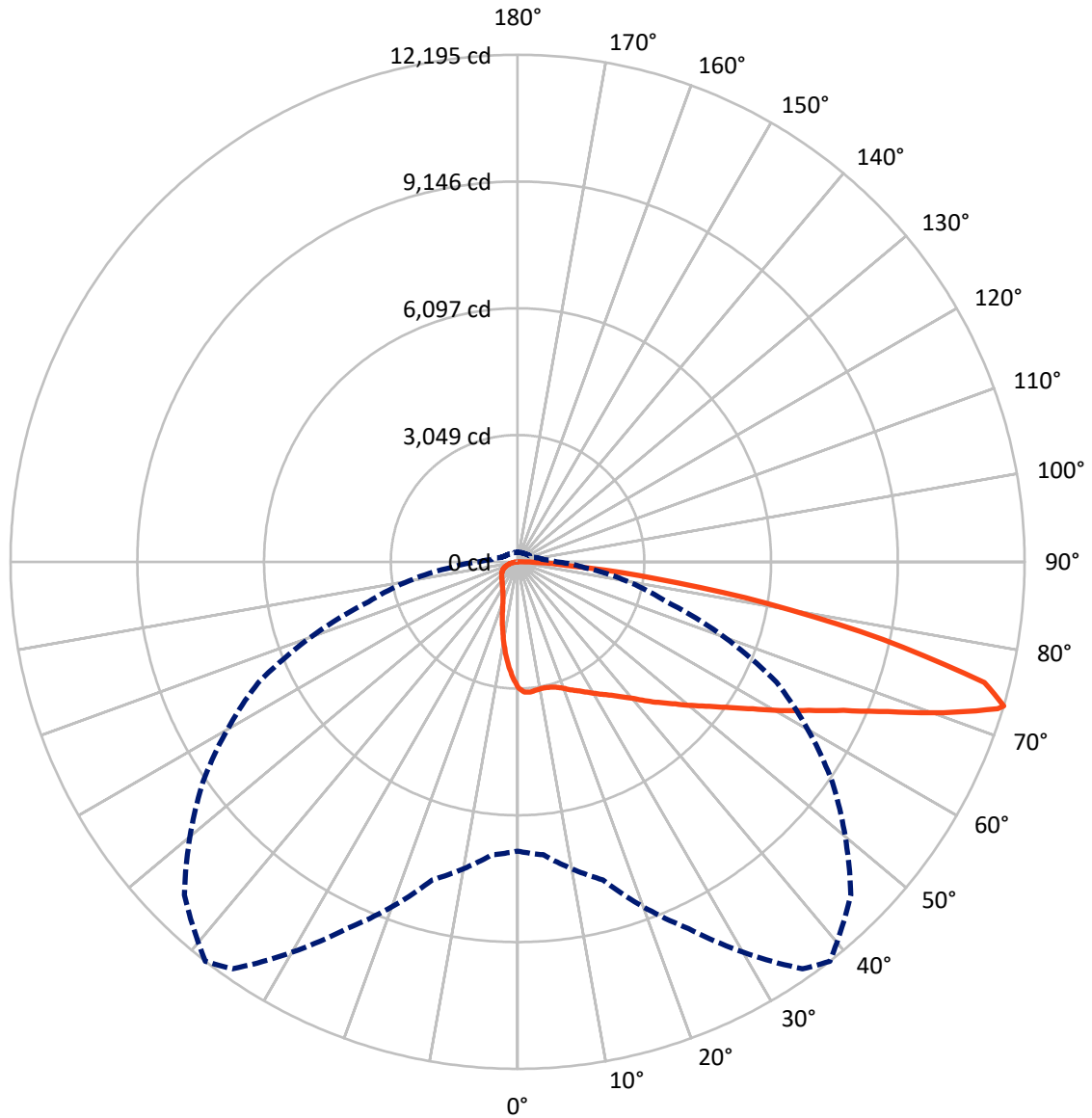
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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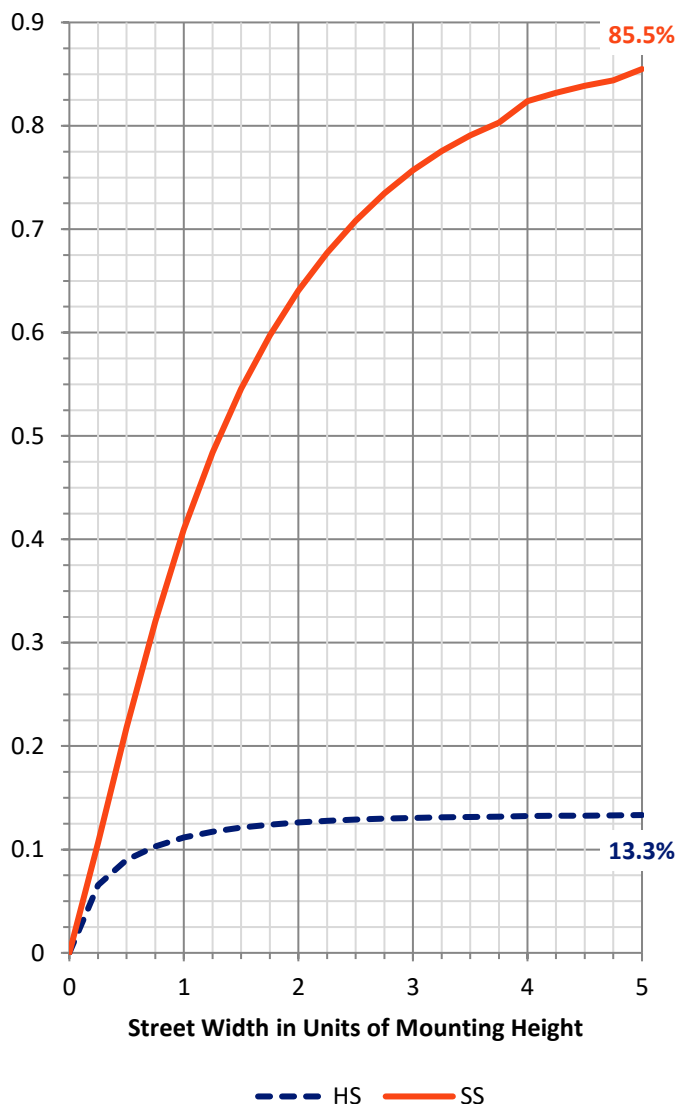
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2322.5	0.0	2322.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	14954.2	0.0	14954.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	17276.7	0.0	17276.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.9	1.5
10°-20°	679.4	3.9
20°-30°	1058.0	6.1
30°-40°	1551.8	9.0
40°-50°	2301.9	13.3
50°-60°	3261.3	18.9
60°-70°	4137.1	23.9
70°-80°	3443.8	19.9
80°-90°	578.6	3.3
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°	17276.7	100.0
0°-180°	17276.7	100.0

**Coefficient of Utilization**



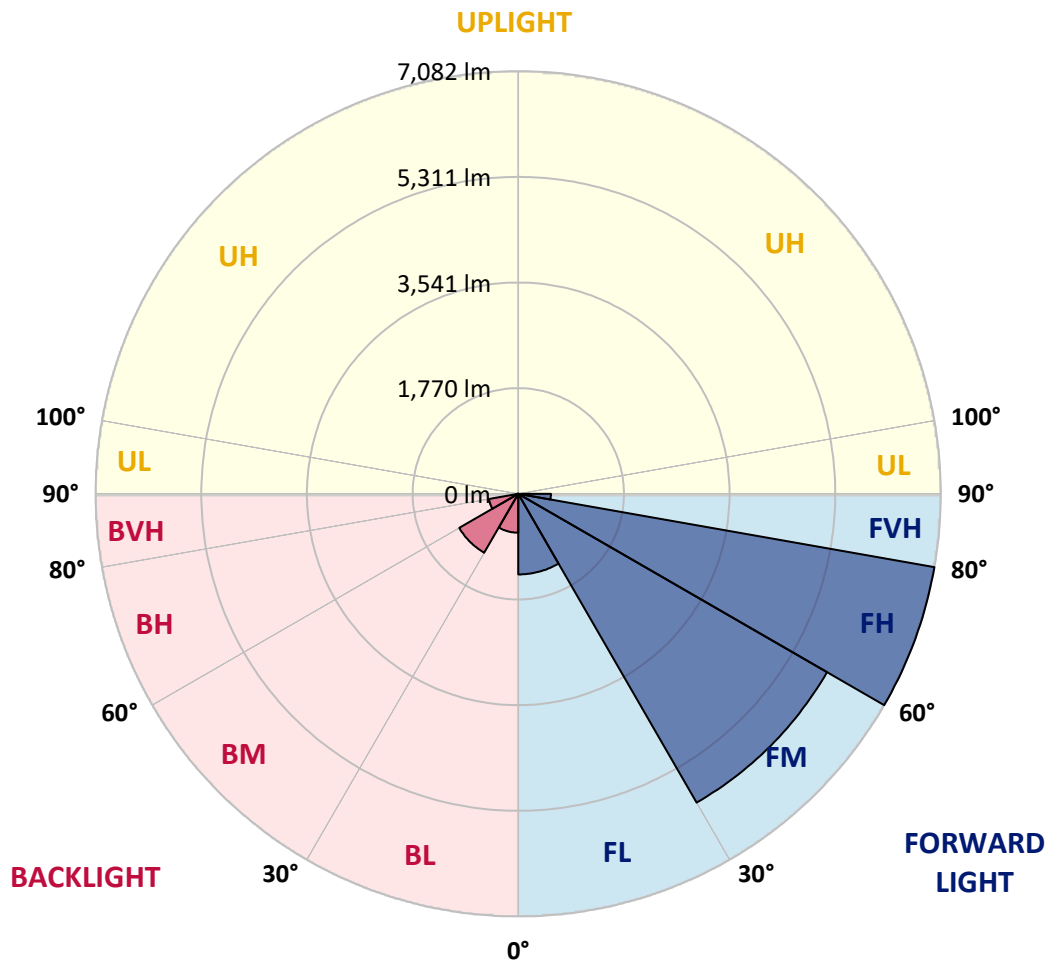
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 CATALOG NUMBER: GALN-SA3C-840-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.6	7.8			
FM (30°-60°)	5974.7	34.6			
FH (60°-80°)	7081.6	41.0			G3/7500
FVH (80°-90°)	547.2	3.2			G4/750
BL (0°-30°)	651.7	3.8	B2/1000		
BM (30°-60°)	1140.2	6.6	B2/2500		
BH (60°-80°)	499.2	2.9	B1/500		G1/500
BVH (80°-90°)	31.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3
2.5°	3157.2	3172.8	3164.9	3154.3	3147.4	3140.5	3130.8	3102.5	3080.1	3055.7	3017.7
5°	3180.6	3190.3	3183.5	3169.9	3154.3	3147.4	3128.9	3091.8	3055.7	3014.7	2958.1
7.5°	3167.0	3170.8	3163.0	3146.4	3132.8	3120.1	3098.7	3057.6	3013.7	2964.0	2889.8
10°	3118.2	3132.8	3132.8	3119.1	3105.5	3098.7	3077.1	3038.1	2998.2	2941.6	2853.8
12.5°	3078.1	3093.8	3106.4	3102.5	3101.5	3101.5	3085.0	3055.7	3008.8	2955.2	2850.8
15°	3050.8	3069.4	3096.6	3112.3	3122.0	3125.0	3118.2	3092.8	3045.0	2982.5	2862.5
17.5°	3045.0	3067.4	3117.2	3151.3	3176.7	3175.7	3173.8	3138.6	3086.0	3021.5	2877.1
20°	3071.3	3100.6	3169.9	3223.6	3260.6	3253.7	3243.1	3197.1	3135.7	3063.5	2890.9
22.5°	3150.3	3180.6	3256.7	3315.2	3351.3	3351.3	3319.1	3258.6	3193.3	3112.3	2909.4
25°	3263.5	3296.7	3377.7	3437.2	3453.7	3441.1	3408.9	3335.7	3260.6	3182.5	2948.4
27.5°	3402.1	3442.0	3517.1	3566.9	3562.1	3552.3	3519.2	3425.5	3350.4	3279.1	3014.7
30°	3574.8	3604.0	3682.1	3693.8	3676.2	3674.2	3627.4	3533.8	3463.5	3408.9	3109.3
32.5°	3737.7	3764.0	3826.5	3831.3	3800.1	3804.0	3760.1	3674.2	3634.3	3614.8	3268.4
35°	3910.4	3924.0	3977.7	3971.8	3951.4	3948.4	3930.8	3848.9	3861.6	3896.7	3493.8
37.5°	4054.8	4082.0	4112.3	4117.2	4116.2	4125.9	4137.7	4098.7	4171.9	4282.1	3789.4
40°	4187.4	4210.9	4255.7	4271.4	4309.4	4328.9	4368.9	4369.9	4538.7	4720.1	4153.3
42.5°	4277.2	4317.2	4401.1	4429.4	4522.1	4580.6	4640.1	4703.5	4948.4	5181.7	4582.6
45°	4355.3	4407.9	4547.5	4635.3	4761.2	4832.4	4958.2	5090.9	5443.1	5748.5	5018.7
47.5°	4473.3	4520.1	4680.2	4835.2	5025.6	5107.5	5295.8	5493.8	5954.4	6289.0	5436.3
50°	4637.2	4665.5	4828.4	5081.2	5324.0	5429.4	5678.3	5964.1	6500.7	6822.6	5803.1
52.5°	4847.0	4858.7	4988.5	5325.0	5645.0	5775.8	6105.6	6439.2	6978.8	7286.1	6093.9
55°	5094.8	5075.3	5176.8	5583.6	6011.9	6182.6	6536.8	6920.3	7516.4	7660.8	6305.6
57.5°	5339.7	5309.4	5390.4	5897.8	6464.6	6670.5	7083.2	7415.9	7996.3	8010.9	6453.8
60°	5599.2	5576.8	5673.4	6266.5	7019.7	7263.6	7645.1	7930.0	8460.7	8254.9	6477.3
62.5°	5865.6	5829.5	5967.0	6681.2	7645.1	7866.5	8236.3	8476.4	8916.4	8345.7	6251.9
65°	6124.1	6107.5	6320.2	7173.9	8357.4	8609.1	8968.1	9131.0	9281.3	8209.0	5692.9
67.5°	6399.3	6432.4	6771.9	7831.5	9286.2	9602.3	9989.6	9836.4	9385.6	7562.2	4794.3
70°	6818.7	6840.2	7365.1	8693.0	10483.2	10864.7	11052.1	10087.1	8882.2	6333.8	3604.0
72.5°	6999.2	7093.9	7894.9	9597.4	11843.3	12076.5	11409.2	9528.1	7399.3	4302.6	1893.7
73°	6959.3	7072.4	7919.3	9734.9	11949.6	12194.5	11333.1	9240.3	6878.3	3705.4	1623.5
75°	6460.7	6600.2	7602.2	9619.8	11742.8	11596.5	10109.6	7875.4	4648.0	1684.9	739.6
77.5°	5097.7	5137.8	6023.6	7768.1	9247.1	8975.9	7566.1	4922.1	1898.6	626.4	419.5
80°	2557.1	2704.5	3395.2	4449.9	6183.6	6094.8	4775.8	2327.9	791.2	367.9	278.0
82.5°	1230.3	1334.7	1653.7	2169.9	3416.7	3335.7	2365.0	1272.3	502.4	214.6	163.9
85°	792.2	870.3	1052.7	1035.2	1404.9	1341.5	1062.4	962.9	297.5	112.2	114.1
87.5°	522.9	572.7	686.8	549.3	511.2	462.5	469.3	542.4	58.5	42.9	15.6
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°	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3
2.5°	3002.0	2989.3	2947.4	2906.4	2867.4	2830.3	2805.9	2773.8	2752.3	2758.1	2766.9
5°	2926.9	2898.6	2824.5	2752.3	2684.0	2603.0	2537.6	2485.0	2445.0	2430.3	2427.4
7.5°	2847.9	2800.1	2693.7	2569.8	2453.7	2353.3	2237.1	2179.6	2112.3	2088.9	2081.1
10°	2800.1	2735.7	2586.4	2413.8	2239.1	2072.2	1946.4	1844.0	1751.3	1733.7	1724.9
12.5°	2786.4	2701.5	2500.5	2278.1	2045.9	1841.0	1654.7	1520.0	1430.3	1409.8	1379.6
15°	2778.7	2673.3	2420.6	2141.5	1846.9	1597.1	1401.0	1243.9	1162.0	1107.3	1108.4
17.5°	2771.8	2641.1	2330.8	1992.2	1675.2	1387.4	1170.8	1029.3	954.2	924.9	922.0
20°	2762.0	2603.0	2227.4	1835.1	1479.1	1196.2	1000.0	894.7	843.9	819.6	818.5
22.5°	2758.1	2566.0	2125.9	1675.2	1305.4	1048.8	886.8	812.7	780.5	764.0	764.0
25°	2767.9	2539.6	2019.6	1523.0	1151.2	923.0	808.8	758.1	739.6	730.7	727.8
27.5°	2798.2	2527.9	1914.2	1370.7	1009.8	837.1	756.1	721.0	707.4	700.5	701.5
30°	2855.7	2526.9	1810.8	1220.5	904.4	771.7	714.2	689.8	679.0	675.2	674.1
32.5°	2948.4	2548.4	1709.3	1096.6	815.6	717.1	675.2	657.6	652.7	649.8	648.8
35°	3105.5	2608.9	1608.8	983.5	747.3	668.3	638.1	629.3	622.4	625.4	626.4
37.5°	3317.2	2713.2	1513.2	894.7	695.6	632.2	606.9	599.0	595.2	598.0	601.0
40°	3601.1	2863.5	1433.2	823.4	658.6	602.0	579.5	572.7	568.8	573.6	574.7
42.5°	3914.3	3037.2	1366.9	767.8	628.3	576.6	555.1	547.3	544.4	547.3	548.3
45°	4236.2	3239.1	1332.7	727.8	602.9	558.1	535.6	526.9	520.0	518.1	521.0
47.5°	4553.3	3414.7	1331.7	703.4	582.5	541.5	517.1	507.3	498.5	493.7	492.7
50°	4811.9	3554.2	1355.2	692.7	564.9	522.9	498.5	488.8	477.1	467.3	469.3
52.5°	5007.0	3645.0	1365.9	687.9	555.1	503.4	479.0	470.3	456.6	443.9	443.9
55°	5132.9	3666.4	1339.5	683.0	547.3	482.9	456.6	448.8	435.1	422.4	422.4
57.5°	5175.8	3600.2	1244.9	671.2	539.5	465.4	434.1	427.3	416.6	403.9	402.0
60°	5076.3	3375.7	1079.1	636.1	523.9	446.8	409.7	406.9	402.9	392.2	391.2
62.5°	4692.9	2899.6	898.5	590.3	497.5	427.3	387.4	392.2	395.1	389.3	388.3
65°	4054.8	2354.2	767.8	526.9	462.5	400.0	363.0	375.6	383.4	383.4	381.5
67.5°	3288.9	1807.9	646.8	472.2	418.6	363.0	335.6	345.4	351.2	349.3	354.1
70°	2337.6	1224.4	526.9	409.7	363.0	321.0	300.5	300.5	296.6	294.6	294.6
72.5°	1133.7	699.5	427.3	342.5	309.3	274.2	257.6	250.7	243.0	242.0	237.1
73°	947.4	627.3	407.8	329.8	296.6	267.4	248.8	238.1	233.2	229.3	228.3
75°	576.6	476.1	340.5	278.0	252.7	230.3	213.7	203.9	199.1	196.1	195.1
77.5°	379.5	355.2	264.4	212.7	193.2	179.6	172.7	162.9	160.0	156.1	156.1
80°	282.9	271.2	189.3	150.3	138.5	126.8	124.9	123.0	115.1	110.3	108.3
82.5°	182.4	193.2	128.8	100.5	87.8	78.0	79.1	81.9	74.2	67.3	65.3
85°	129.8	139.5	78.0	45.8	37.1	32.2	36.1	32.2	33.1	26.3	21.4
87.5°	21.4	37.1	13.6	5.9	2.9	1.9	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)