

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: P458783

Luminaire Tested: **GALN-SA3B-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15684 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

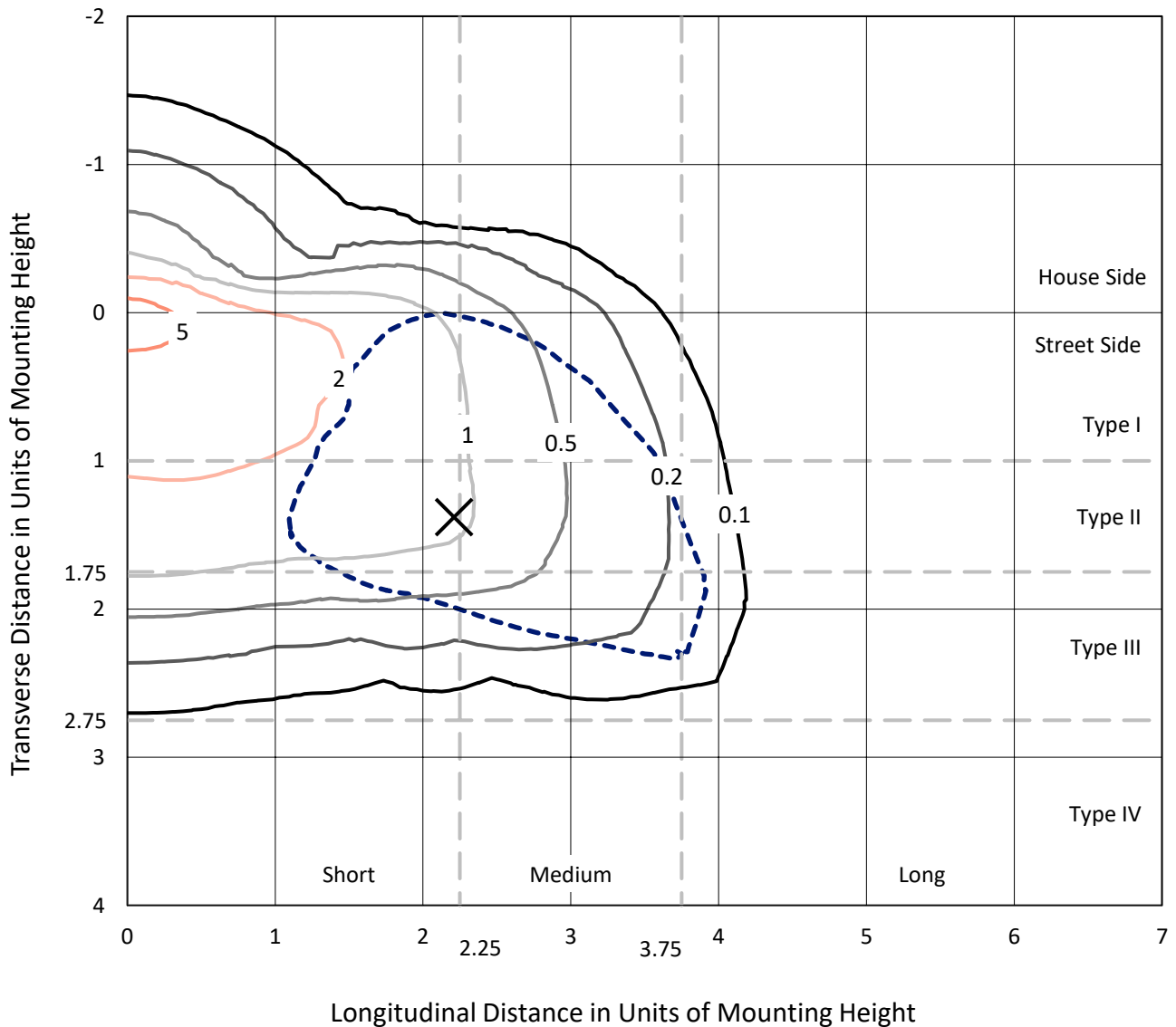
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

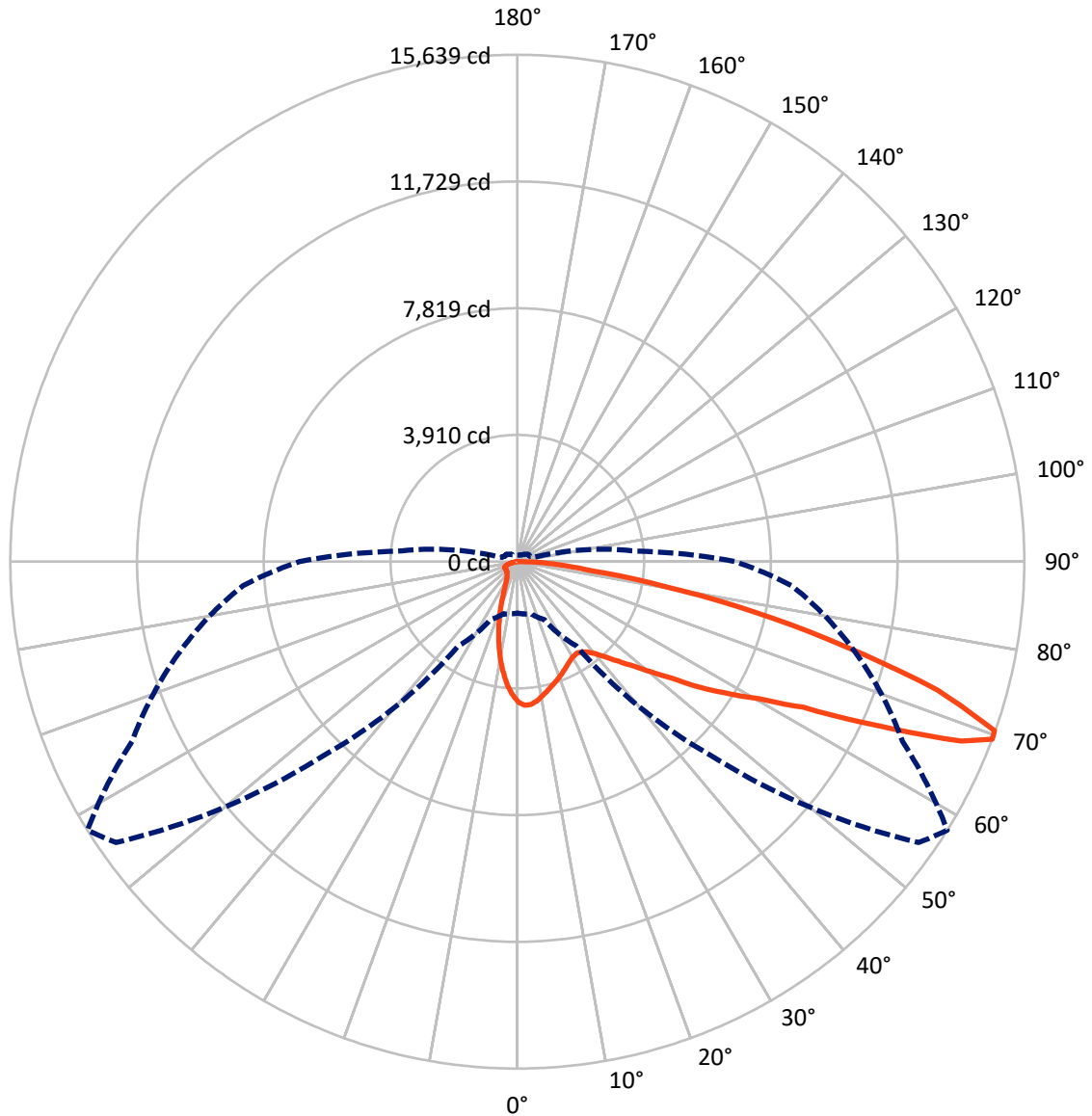
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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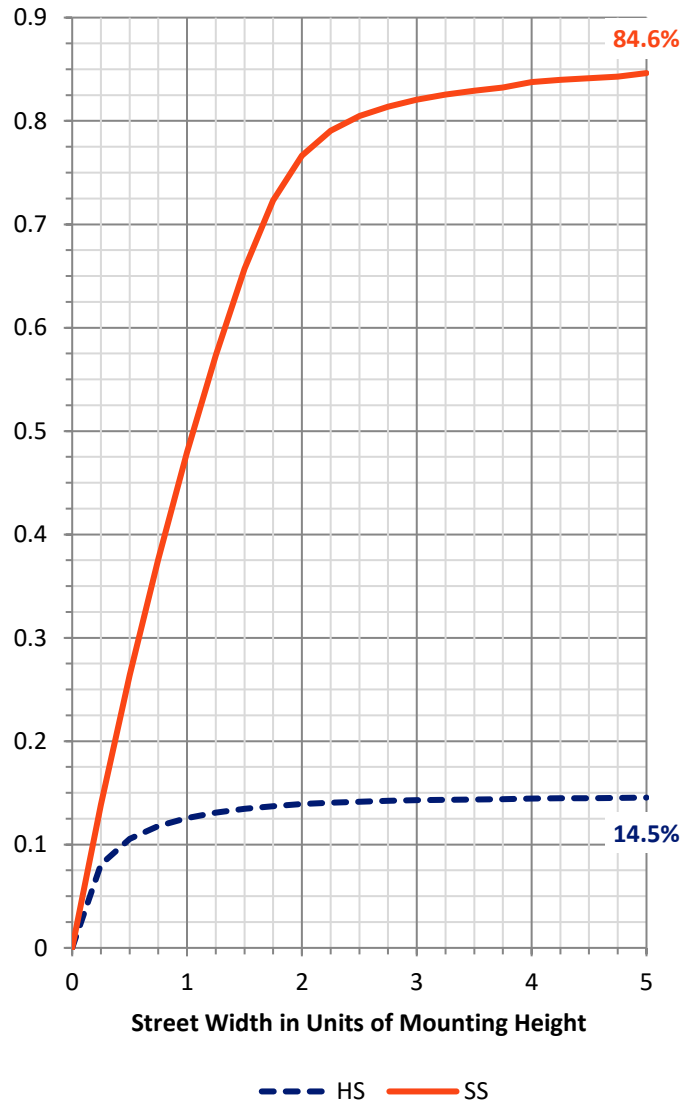
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2298.5	0.0	2298.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13385.5	0.0	13385.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	15684.0	0.0	15684.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.1	2.3
10°-20°	808.2	5.2
20°-30°	1044.2	6.7
30°-40°	1356.3	8.6
40°-50°	1971.8	12.6
50°-60°	3146.4	20.1
60°-70°	4203.2	26.8
70°-80°	2422.9	15.4
80°-90°	362.9	2.3
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°	15684.0	100.0
0°-180°	15684.0	100.0



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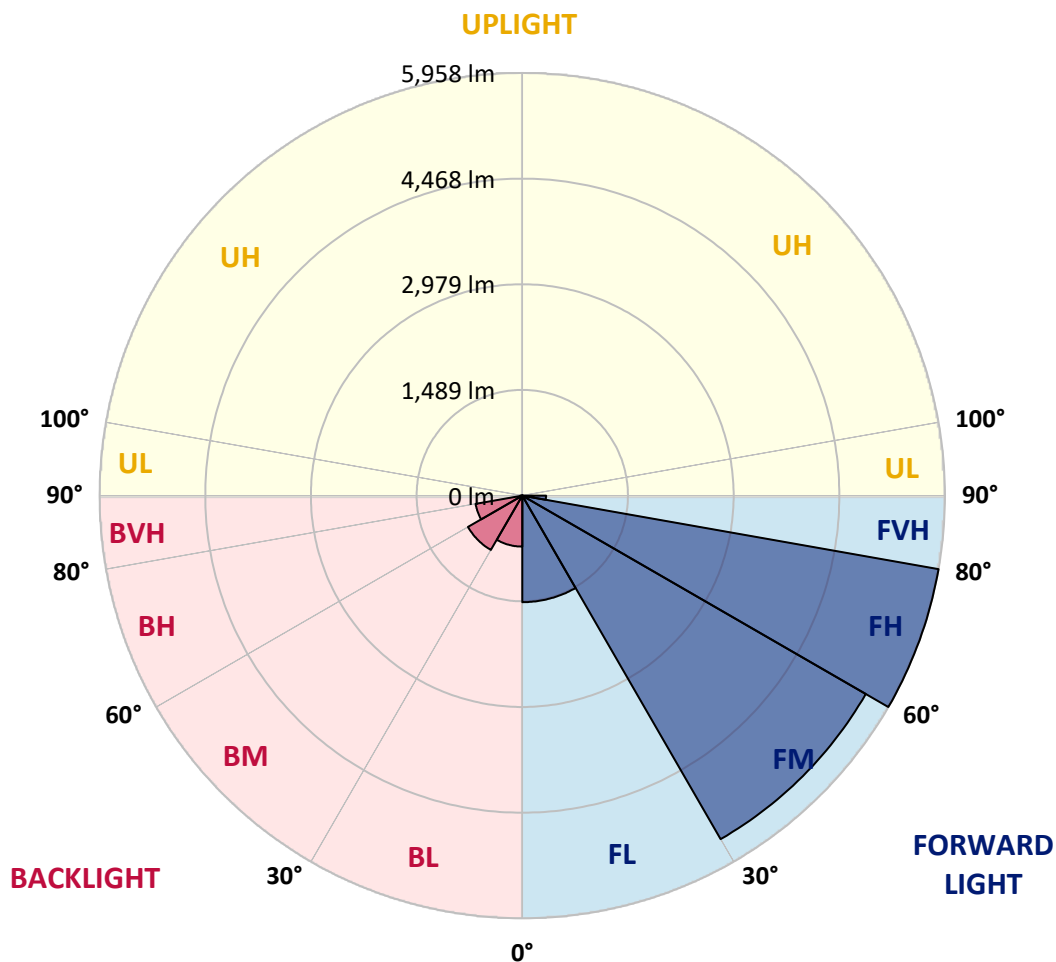
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1502.1	9.6			
FM	(30°-60°)	5590.5	35.6			
FH	(60°-80°)	5957.7	38.0			G3/7500
FVH	(80°-90°)	335.1	2.1			G3/500
BL	(0°-30°)	718.4	4.6	B2/1000		
BM	(30°-60°)	883.9	5.6	B1/1000		
BH	(60°-80°)	668.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.8	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1
2.5°	4495.1	4507.3	4503.8	4499.5	4492.5	4473.2	4441.7	4436.5	4416.4	4373.5	4320.1
5°	4426.0	4436.5	4437.4	4443.5	4452.2	4448.7	4426.0	4423.4	4393.6	4335.9	4246.7
7.5°	4188.9	4202.9	4233.5	4267.7	4298.3	4327.1	4334.1	4338.5	4320.1	4253.7	4134.7
10°	3922.2	3936.2	3950.1	4000.9	4076.1	4147.8	4207.3	4215.2	4219.6	4158.3	4013.1
12.5°	3626.5	3655.4	3685.1	3760.3	3860.9	3973.8	4078.7	4095.3	4125.1	4078.7	3908.2
15°	3375.5	3405.2	3448.1	3515.4	3637.0	3799.7	3947.5	3974.6	4033.2	4009.6	3810.2
17.5°	3201.4	3211.9	3241.6	3318.6	3449.8	3621.3	3818.9	3873.2	3966.8	3960.6	3726.2
20°	3064.1	3077.2	3095.6	3142.8	3279.3	3460.3	3699.1	3769.1	3895.9	3916.9	3643.1
22.5°	3006.3	3016.0	3013.3	3038.7	3131.4	3313.4	3577.5	3660.6	3832.9	3887.2	3566.2
25°	3009.8	3018.6	3005.5	2999.3	3054.5	3183.9	3450.7	3556.5	3782.2	3867.0	3496.2
27.5°	3068.4	3074.6	3050.1	3025.6	3030.0	3103.4	3345.7	3462.9	3739.3	3875.8	3437.6
30°	3147.2	3158.5	3142.8	3113.1	3080.7	3084.2	3278.4	3393.8	3719.2	3906.4	3409.6
32.5°	3248.6	3259.1	3252.1	3228.5	3186.5	3140.2	3261.8	3368.5	3721.0	3968.5	3403.5
35°	3355.3	3376.3	3387.7	3386.0	3351.9	3271.4	3327.4	3415.7	3763.0	4072.6	3439.3
37.5°	3476.1	3493.6	3542.5	3574.0	3542.5	3448.9	3475.2	3536.4	3855.7	4223.1	3518.0
40°	3593.3	3619.5	3691.2	3789.2	3777.0	3694.7	3700.9	3741.1	4019.2	4447.0	3672.0
42.5°	3715.7	3747.2	3872.3	4017.5	4046.4	3982.5	3999.1	4035.0	4251.9	4757.5	3936.2
45°	3873.2	3910.8	4064.7	4245.8	4359.5	4320.1	4367.4	4384.9	4563.3	5161.6	4284.3
47.5°	4076.1	4119.8	4309.6	4535.3	4696.3	4732.1	4814.3	4803.9	4949.1	5640.1	4735.6
50°	4418.1	4442.6	4621.9	4852.0	5073.3	5235.1	5324.3	5340.9	5427.5	6105.4	5240.3
52.5°	4824.8	4846.7	4976.2	5177.4	5454.6	5797.5	6017.9	5963.7	5984.7	6672.2	5830.8
55°	5282.3	5319.1	5401.3	5535.1	5894.6	6399.3	6841.9	6855.0	6622.4	7214.5	6396.7
57.5°	5636.6	5698.7	5839.5	6030.2	6485.9	7068.5	7663.2	7672.0	7374.6	7793.6	7021.2
60°	5458.1	5531.6	5853.5	6318.0	7261.8	8236.2	8644.7	8594.8	8106.7	8453.1	7783.1
62.5°	4688.4	4701.5	5169.5	5895.5	7500.6	9798.4	10105.4	9894.6	9083.8	9289.3	8557.2
65°	3034.3	3120.1	3490.9	4508.2	6715.9	10665.2	12664.8	12177.6	10453.5	10238.4	9205.3
67.5°	1915.6	1893.7	2047.7	2574.2	4619.3	9901.6	14848.9	14771.9	12244.9	10837.5	9050.5
69°	1588.5	1612.9	1665.4	1973.3	3178.7	8454.0	15106.9	15638.8	13113.5	10790.3	8488.1
70°	1440.6	1452.0	1507.1	1749.4	2452.7	7080.7	14683.6	15615.1	13454.6	10592.6	8080.5
72.5°	1143.2	1142.4	1236.8	1455.5	1833.4	4042.0	12056.9	13557.0	13073.3	9672.4	6676.6
75°	868.6	882.6	986.7	1231.6	1689.0	2208.6	8413.7	10440.4	10441.3	7639.6	4166.2
77.5°	626.3	635.0	756.6	1033.9	1591.1	1790.5	5604.2	7488.3	7039.6	3500.6	1309.4
80°	410.2	415.5	508.2	818.7	1434.5	1689.0	3323.0	4583.4	3320.4	928.9	433.0
82.5°	224.8	251.0	310.5	530.1	1151.1	1560.5	2019.7	2319.7	1245.6	413.7	225.7
85°	112.8	119.8	174.9	309.6	752.2	1291.1	1406.5	1330.4	642.9	205.6	117.2
87.5°	33.2	42.0	72.6	119.8	305.3	672.6	782.9	702.4	247.5	74.3	24.5
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°	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1	4334.1
2.5°	4298.3	4282.5	4212.6	4149.6	4091.8	4030.6	3979.0	3933.5	3937.9	3938.8	3892.4
5°	4200.3	4164.4	4031.5	3907.3	3802.3	3669.4	3555.7	3482.2	3445.4	3396.5	3414.0
7.5°	4067.4	3998.3	3813.7	3607.3	3414.0	3241.6	3054.5	2925.9	2843.7	2764.1	2774.5
10°	3930.0	3818.9	3550.4	3277.5	3027.3	2751.8	2513.0	2308.3	2156.1	2099.3	2061.7
12.5°	3789.2	3643.1	3302.0	2939.0	2593.5	2263.7	1925.2	1705.7	1537.7	1448.5	1459.9
15°	3660.6	3483.1	3043.1	2600.5	2151.8	1759.0	1421.4	1212.3	1095.1	1070.6	1084.6
17.5°	3541.7	3309.0	2800.8	2271.6	1747.7	1319.0	1068.0	949.9	902.7	889.6	888.7
20°	3419.2	3161.2	2528.8	1920.0	1361.9	1022.5	876.4	821.3	812.6	817.8	818.7
22.5°	3295.0	2978.4	2248.9	1571.0	1084.6	836.2	766.2	751.4	758.4	770.6	772.4
25°	3180.4	2817.4	1979.4	1264.8	866.0	734.7	700.6	700.6	716.4	734.7	735.6
27.5°	3085.9	2661.7	1710.9	1004.2	725.1	661.3	649.9	656.0	677.9	691.9	692.8
30°	3008.1	2516.5	1457.3	804.7	637.7	602.7	600.0	610.5	626.3	639.4	640.3
32.5°	2949.5	2388.8	1220.2	676.1	577.3	558.1	557.2	565.1	573.8	577.3	580.8
35°	2926.7	2283.0	1003.3	594.8	537.1	524.8	524.8	523.9	527.4	529.2	530.9
37.5°	2945.1	2201.6	835.3	542.3	507.3	498.6	493.3	488.1	486.3	486.3	487.2
40°	3023.0	2158.8	710.3	508.2	486.3	473.2	463.6	457.5	451.3	453.1	454.8
42.5°	3188.3	2166.6	625.4	485.5	468.0	449.6	435.6	428.6	424.2	429.5	428.6
45°	3451.6	2245.4	571.2	469.7	449.6	426.0	412.9	405.9	405.9	413.7	416.4
47.5°	3819.8	2395.8	542.3	457.5	435.6	407.6	394.5	389.2	391.0	404.1	405.0
50°	4269.4	2657.3	537.1	451.3	428.6	394.5	379.6	374.4	378.7	392.7	394.5
52.5°	4765.4	2994.1	562.4	452.2	422.5	386.6	367.4	359.5	363.9	375.2	378.7
55°	5353.2	3415.7	628.0	455.7	413.7	382.2	358.6	341.1	346.4	354.3	355.1
57.5°	5953.2	3947.5	743.5	456.6	406.7	374.4	343.8	321.0	321.0	326.3	328.9
60°	6686.2	4526.6	895.7	457.5	407.6	363.0	323.6	298.3	294.8	297.4	298.3
62.5°	7414.0	5011.2	921.1	454.8	416.4	351.6	301.8	275.5	269.4	268.5	266.8
65°	7735.0	4921.1	754.9	442.6	426.0	344.6	284.3	253.7	243.2	239.7	239.7
67.5°	7211.9	4162.7	567.7	426.0	419.9	337.6	267.7	235.3	223.0	216.1	216.1
69°	6720.3	3702.6	510.0	414.6	404.1	326.3	257.2	225.7	210.8	202.9	200.3
70°	6340.7	3386.0	485.5	405.0	389.2	313.1	249.3	218.7	202.1	193.3	191.6
72.5°	5060.1	2656.5	425.1	368.2	331.5	263.3	221.3	196.8	181.1	171.4	168.8
75°	2916.3	1439.8	352.5	320.1	266.8	204.7	187.2	171.4	159.2	150.4	147.8
77.5°	897.4	556.3	255.4	252.8	195.9	158.3	149.6	143.5	134.7	125.1	123.3
80°	377.9	283.4	173.2	170.6	130.3	110.2	107.6	106.7	103.2	95.3	92.7
82.5°	207.3	160.1	120.7	105.0	78.7	63.9	66.5	67.4	64.7	56.9	51.6
85°	101.5	87.5	58.6	47.2	35.9	22.7	21.9	26.2	24.5	17.5	19.2
87.5°	20.1	24.5	15.7	7.0	3.5	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)