

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: P452517

Luminaire Tested: **GALN-SA3C-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17520 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

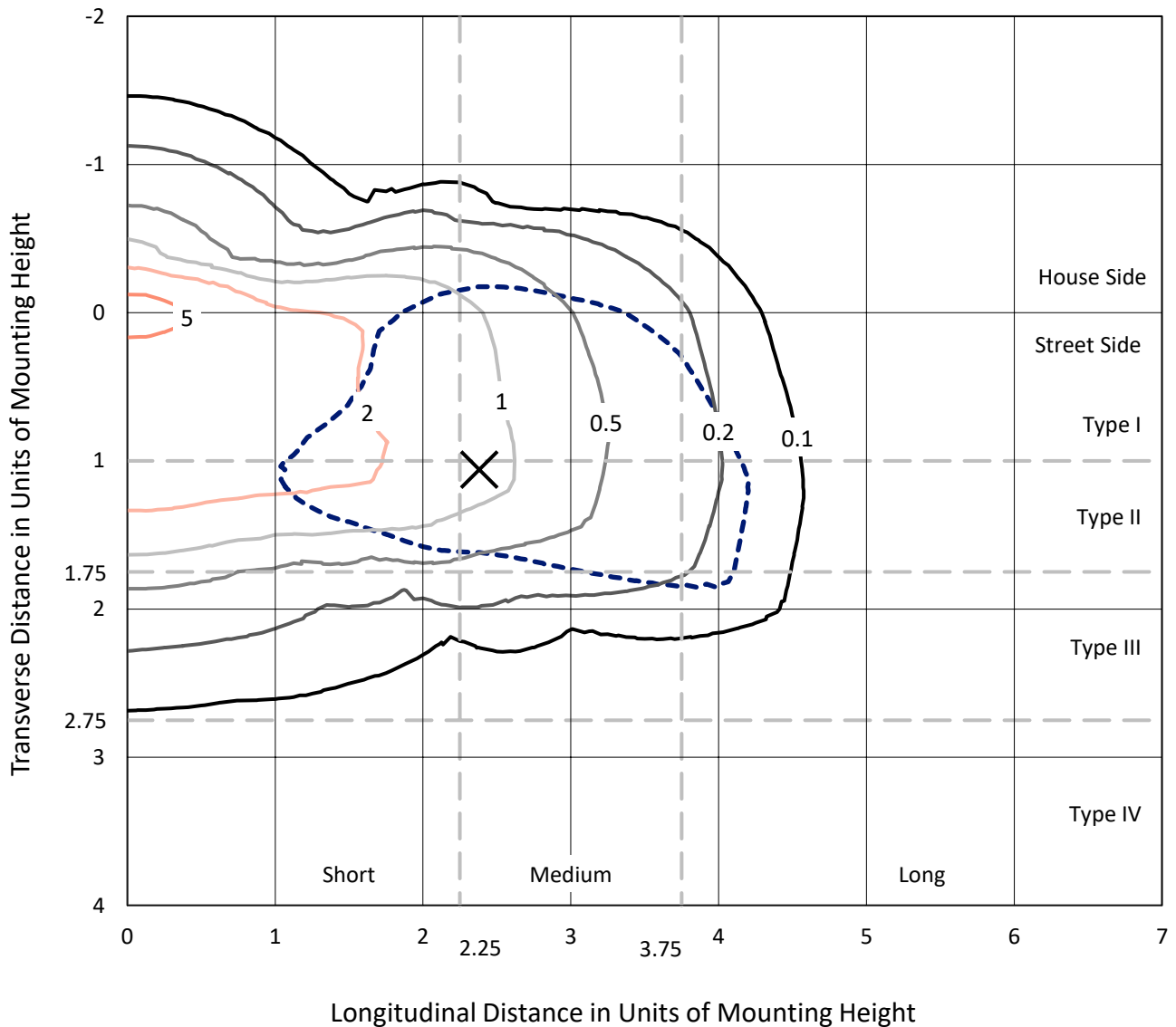
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

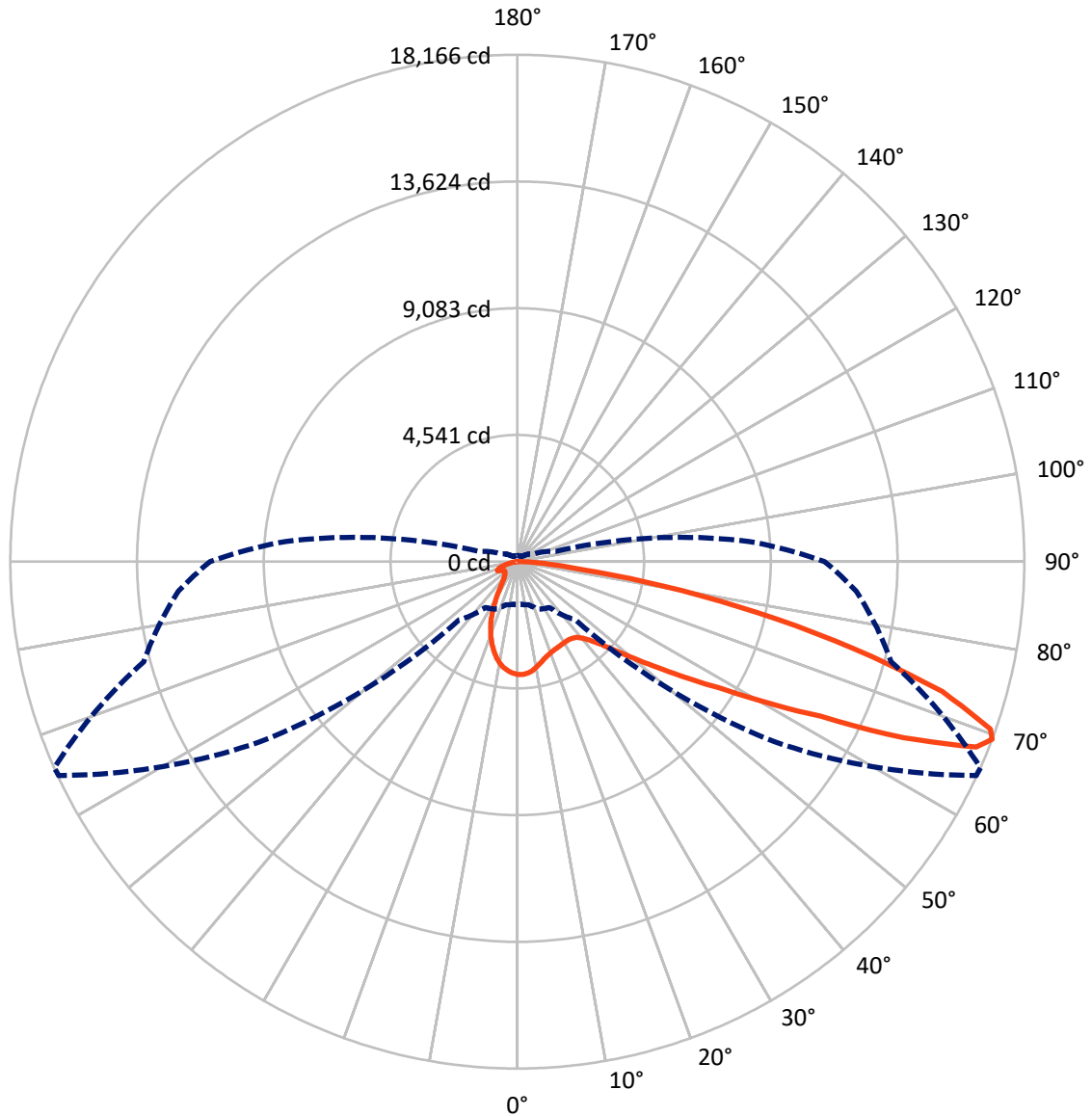
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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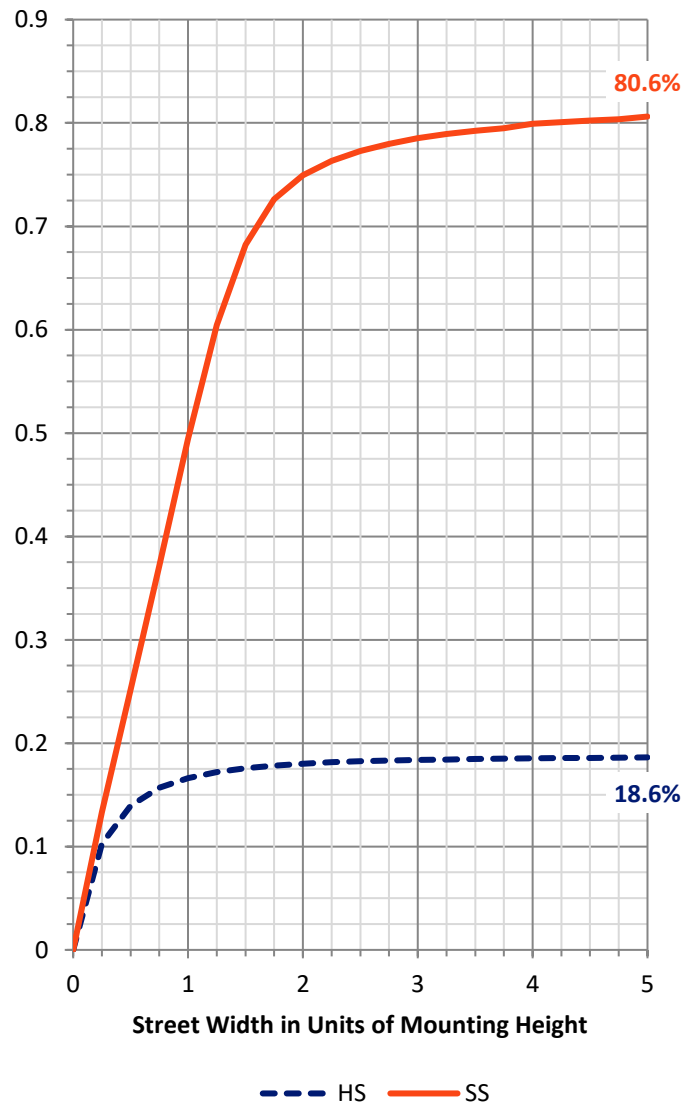
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3294.8	0.0	3294.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	14225.1	0.0	14225.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	17520.0	0.0	17520.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.3	2.0
10°-20°	833.3	4.8
20°-30°	1134.5	6.5
30°-40°	1524.5	8.7
40°-50°	2276.3	13.0
50°-60°	3620.9	20.7
60°-70°	4453.5	25.4
70°-80°	2897.7	16.5
80°-90°	427.9	2.4
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°	17520.0	100.0
0°-180°	17520.0	100.0



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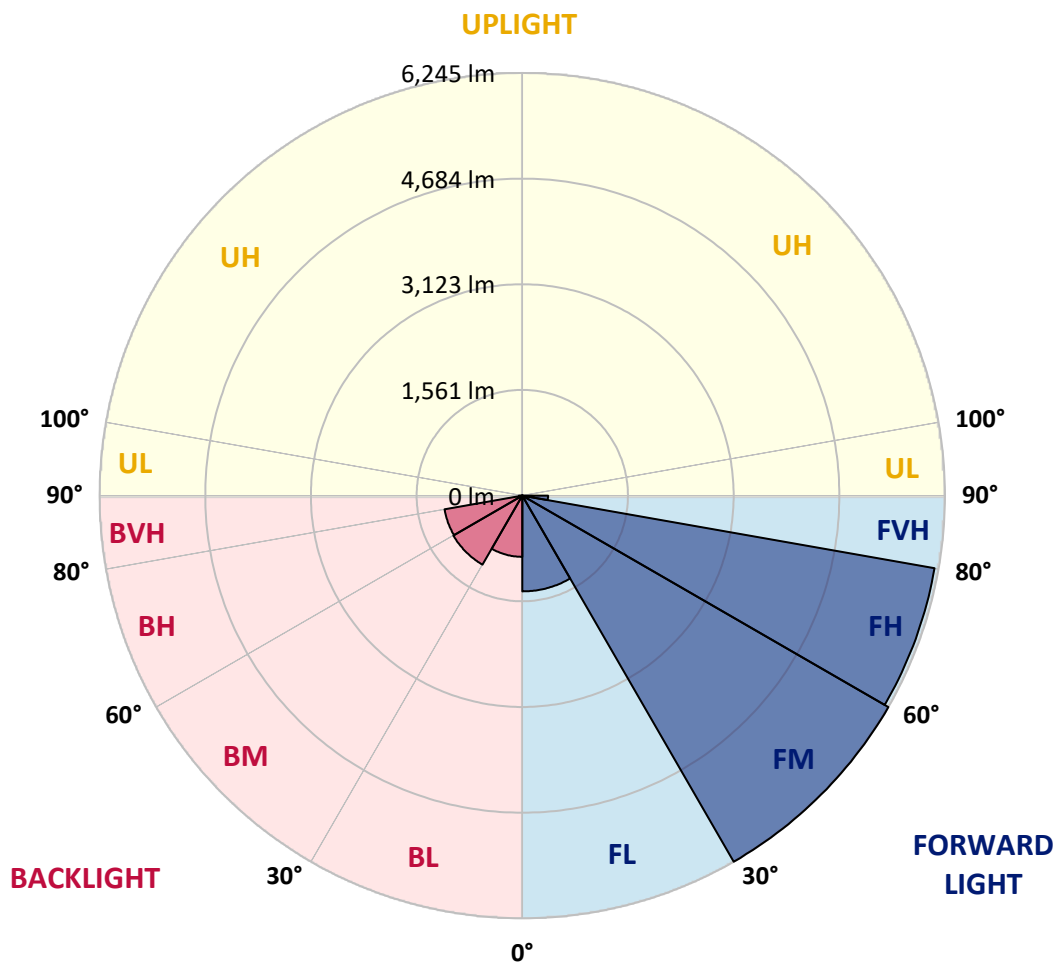
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1414.7	8.1			
FM	(30°-60°)	6245.4	35.6			
FH	(60°-80°)	6184.6	35.3			G3/7500
FVH	(80°-90°)	380.4	2.2			G3/500
BL	(0°-30°)	904.4	5.2	B2/1000		
BM	(30°-60°)	1176.4	6.7	B2/2500		
BH	(60°-80°)	1166.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	47.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9
2.5°	3904.2	3919.7	3937.2	3956.6	3993.5	4013.8	4028.4	4044.9	4046.8	4055.6	4048.8
5°	3616.0	3634.5	3660.7	3697.5	3752.8	3839.2	3928.5	4001.2	4010.0	4050.7	4062.3
7.5°	3375.4	3386.1	3407.4	3466.6	3545.2	3641.3	3771.3	3918.8	3940.1	4037.1	4071.1
10°	3179.4	3190.1	3215.3	3276.5	3354.1	3474.4	3617.0	3811.1	3828.5	3995.4	4073.0
12.5°	3032.9	3042.6	3069.8	3130.0	3219.2	3331.8	3488.9	3694.6	3719.9	3940.1	4054.6
15°	2921.4	2939.8	2962.1	3011.6	3105.7	3214.4	3366.7	3587.9	3608.3	3881.9	4042.0
17.5°	2873.8	2882.6	2898.1	2943.7	3012.6	3119.3	3272.6	3504.5	3528.7	3841.1	4039.1
20°	2875.8	2884.5	2887.4	2912.6	2962.1	3054.3	3205.6	3438.5	3467.6	3805.2	4043.9
22.5°	2941.7	2942.7	2932.0	2923.3	2942.7	3019.4	3158.1	3389.0	3423.0	3789.7	4047.8
25°	3043.6	3061.1	3045.5	3004.8	2968.9	3005.8	3139.7	3361.8	3393.9	3767.4	4042.9
27.5°	3208.5	3211.5	3198.8	3143.5	3050.4	3023.2	3131.9	3341.5	3368.6	3750.9	4018.7
30°	3429.8	3421.0	3409.4	3348.3	3201.8	3090.2	3148.4	3323.0	3351.2	3726.6	3989.6
32.5°	3653.9	3681.0	3670.4	3598.6	3408.4	3220.2	3201.8	3321.1	3344.4	3708.2	3957.6
35°	3891.6	3904.2	3954.7	3917.8	3722.8	3430.7	3301.7	3351.2	3369.6	3709.2	3935.2
37.5°	4077.9	4111.8	4230.2	4262.2	4078.8	3709.2	3463.7	3436.6	3444.3	3756.7	3944.0
40°	4303.0	4361.2	4513.5	4644.5	4524.2	4071.1	3739.3	3594.7	3604.4	3871.2	4001.2
42.5°	4588.2	4629.0	4833.7	5011.2	4991.8	4549.4	4073.0	3853.7	3858.6	4099.2	4161.3
45°	4922.0	4980.2	5210.1	5476.9	5522.5	5090.8	4555.2	4245.7	4242.8	4453.4	4460.1
47.5°	5348.9	5384.8	5612.8	5903.8	6088.2	5770.9	5140.3	4808.5	4777.4	4969.5	4914.2
50°	5741.8	5798.1	5970.8	6289.0	6747.9	6567.5	5909.7	5538.1	5465.3	5644.8	5551.7
52.5°	5906.8	5965.9	6111.5	6506.4	7313.6	7597.9	6886.7	6408.4	6287.1	6424.9	6390.9
55°	5620.5	5697.2	5833.0	6313.3	7562.0	8786.4	8204.3	7414.5	7326.2	7267.0	7276.7
57.5°	4851.1	4923.9	5107.3	5637.0	7265.1	9648.9	10085.5	8707.8	8518.6	8246.0	8292.5
60°	3692.7	3738.3	3833.4	4420.4	6385.1	9873.0	12222.0	10342.6	10222.3	9221.1	9254.0
62.5°	2622.5	2674.0	2739.9	3032.9	4674.6	9241.4	13894.6	12625.6	12195.8	10231.1	10199.0
65°	2129.7	2094.7	2174.3	2311.1	2742.8	7162.2	14271.1	15794.4	15202.5	11561.2	11116.9
67.5°	1751.3	1714.4	1793.0	2036.5	2086.0	4157.4	12914.7	17851.2	17732.9	13007.9	12049.3
69°	1550.4	1531.0	1599.9	1877.4	2002.6	2952.4	11250.8	18137.5	18165.6	13860.7	12192.9
70°	1397.1	1404.9	1471.8	1796.9	1964.7	2434.3	9615.9	17742.6	17981.3	14286.6	12037.6
72.5°	1028.4	1044.9	1138.1	1488.3	1928.8	2065.6	5722.4	15497.5	15919.5	14311.8	11012.1
75°	718.9	711.2	793.6	1120.6	1822.1	2047.2	3360.9	11985.2	12463.6	12370.4	9253.1
77.5°	470.6	483.2	549.1	791.7	1533.0	2031.7	2190.8	8503.1	8813.6	8273.1	5473.1
80°	331.8	330.8	367.7	540.4	1137.1	1952.1	1794.0	5359.5	5281.0	3251.2	1623.2
82.5°	190.2	203.7	246.4	380.3	760.7	1718.3	1650.4	2563.3	2340.2	926.6	548.2
85°	105.8	110.6	146.5	229.9	444.4	1294.3	1440.8	1166.2	1100.2	387.1	235.8
87.5°	34.0	36.9	61.1	116.4	201.8	611.2	816.0	538.5	496.8	139.7	95.1
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°	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9
2.5°	4051.7	4063.3	4032.3	4002.2	3975.0	3937.2	3903.2	3875.1	3855.7	3852.8	3843.1
5°	4065.3	4066.2	4007.0	3927.5	3849.9	3764.5	3676.2	3613.1	3553.9	3521.0	3504.5
7.5°	4075.0	4066.2	3959.5	3830.5	3681.0	3525.8	3370.6	3246.4	3150.3	3112.5	3127.0
10°	4071.1	4043.9	3887.7	3681.0	3463.7	3231.8	3008.7	2834.0	2674.0	2591.5	2593.4
12.5°	4049.7	4005.1	3781.0	3513.2	3194.0	2883.5	2542.0	2306.2	2120.9	2011.3	1977.3
15°	4031.3	3953.7	3655.8	3285.2	2888.4	2445.0	2028.7	1737.7	1582.4	1496.1	1495.1
17.5°	4011.9	3904.2	3519.0	3043.6	2537.1	1966.7	1530.1	1307.9	1235.1	1243.8	1229.3
20°	3991.5	3846.0	3376.4	2774.9	2109.3	1467.0	1145.8	1055.6	1076.0	1115.8	1121.6
22.5°	3968.2	3783.9	3223.1	2478.9	1659.1	1104.1	929.5	915.9	968.3	1030.4	1039.1
25°	3932.3	3706.3	3030.0	2169.4	1279.7	889.7	814.0	823.7	875.1	927.5	933.4
27.5°	3881.9	3610.2	2835.0	1783.3	961.5	763.6	744.2	756.8	782.0	814.0	821.8
30°	3814.0	3501.6	2610.9	1449.5	770.4	700.5	692.7	699.5	714.1	727.7	731.6
32.5°	3746.1	3396.8	2384.8	1109.9	686.9	658.8	651.0	651.0	651.0	653.0	653.9
35°	3683.0	3297.8	2142.3	864.5	643.3	625.8	615.1	603.5	601.5	594.8	594.8
37.5°	3648.1	3207.6	1884.2	723.8	611.2	598.6	584.1	564.7	554.0	555.0	553.0
40°	3654.9	3148.4	1649.4	644.2	585.0	571.5	549.1	526.8	520.0	520.0	518.1
42.5°	3731.5	3129.0	1424.3	602.5	559.8	544.3	516.2	495.8	491.9	490.9	492.9
45°	3908.1	3176.5	1222.5	575.3	538.5	515.2	487.1	468.6	464.7	464.7	463.8
47.5°	4252.5	3330.8	1077.9	557.9	523.0	492.9	463.8	445.3	438.5	436.6	436.6
50°	4788.1	3665.5	970.2	542.4	503.5	472.5	442.4	421.1	410.4	409.4	408.5
52.5°	5532.2	4187.5	928.5	530.7	482.2	451.2	418.2	397.8	384.2	381.3	379.4
55°	6402.5	4916.2	985.8	522.0	459.9	426.9	392.9	371.6	359.0	353.2	352.2
57.5°	7410.6	5791.3	1203.1	510.3	439.5	400.7	367.7	346.4	332.8	326.0	324.1
60°	8315.8	6690.7	1582.4	503.5	422.0	372.6	338.6	319.2	306.6	299.8	298.8
62.5°	9310.3	7548.4	2035.5	522.0	414.3	345.4	311.4	294.0	283.3	276.5	276.5
65°	10372.7	8407.0	2335.3	584.1	425.9	324.1	282.3	267.8	258.1	253.2	252.3
67.5°	11088.7	8703.9	1924.0	648.1	455.0	300.8	254.2	242.6	236.7	231.9	231.9
69°	11011.1	8328.4	1419.4	664.6	463.8	289.1	238.7	229.9	222.2	220.2	218.3
70°	10765.7	7900.6	1189.5	653.9	457.0	278.5	229.0	218.3	211.5	209.6	208.6
72.5°	9588.8	6851.8	885.8	568.6	389.1	241.6	202.8	193.1	187.3	184.3	184.3
75°	7966.6	5600.2	691.8	452.1	304.7	203.7	173.7	165.9	161.1	159.1	158.1
77.5°	4465.0	3127.0	496.8	354.1	230.9	164.9	145.5	138.7	133.9	132.0	132.0
80°	1243.8	893.6	292.0	233.8	157.2	125.2	115.5	110.6	103.8	99.0	101.9
82.5°	468.6	387.1	166.9	140.7	99.9	83.4	80.5	76.6	73.7	66.9	66.9
85°	228.0	188.2	106.7	74.7	55.3	43.7	41.7	39.8	37.8	33.0	34.0
87.5°	78.6	83.4	46.6	27.2	16.5	10.7	8.7	4.9	4.9	4.9	4.9
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)