

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: P191971

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL3-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1050mA 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: 18174 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 - Non-Cutoff  
BUG Rating: B2 - U0 - G3

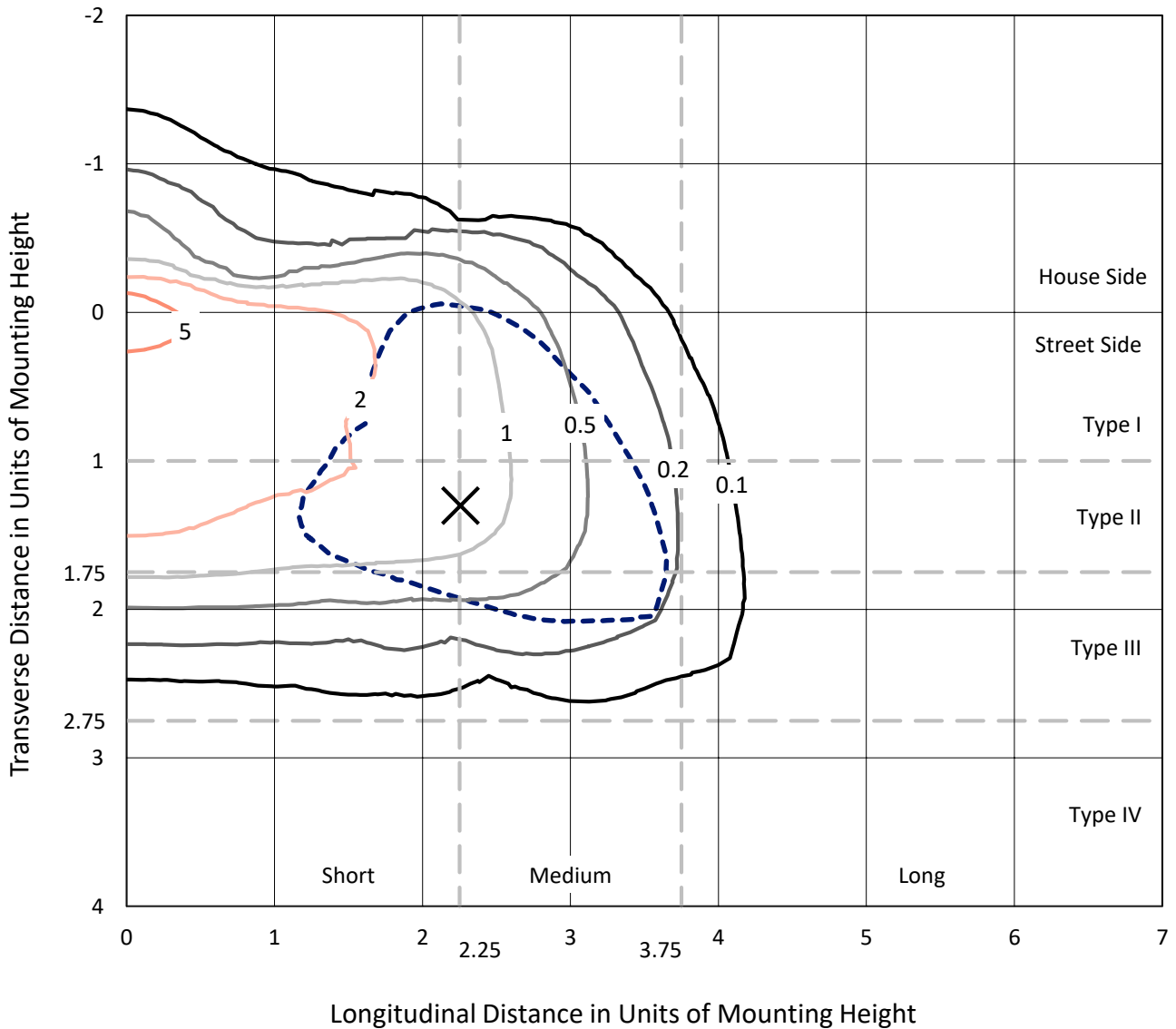
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

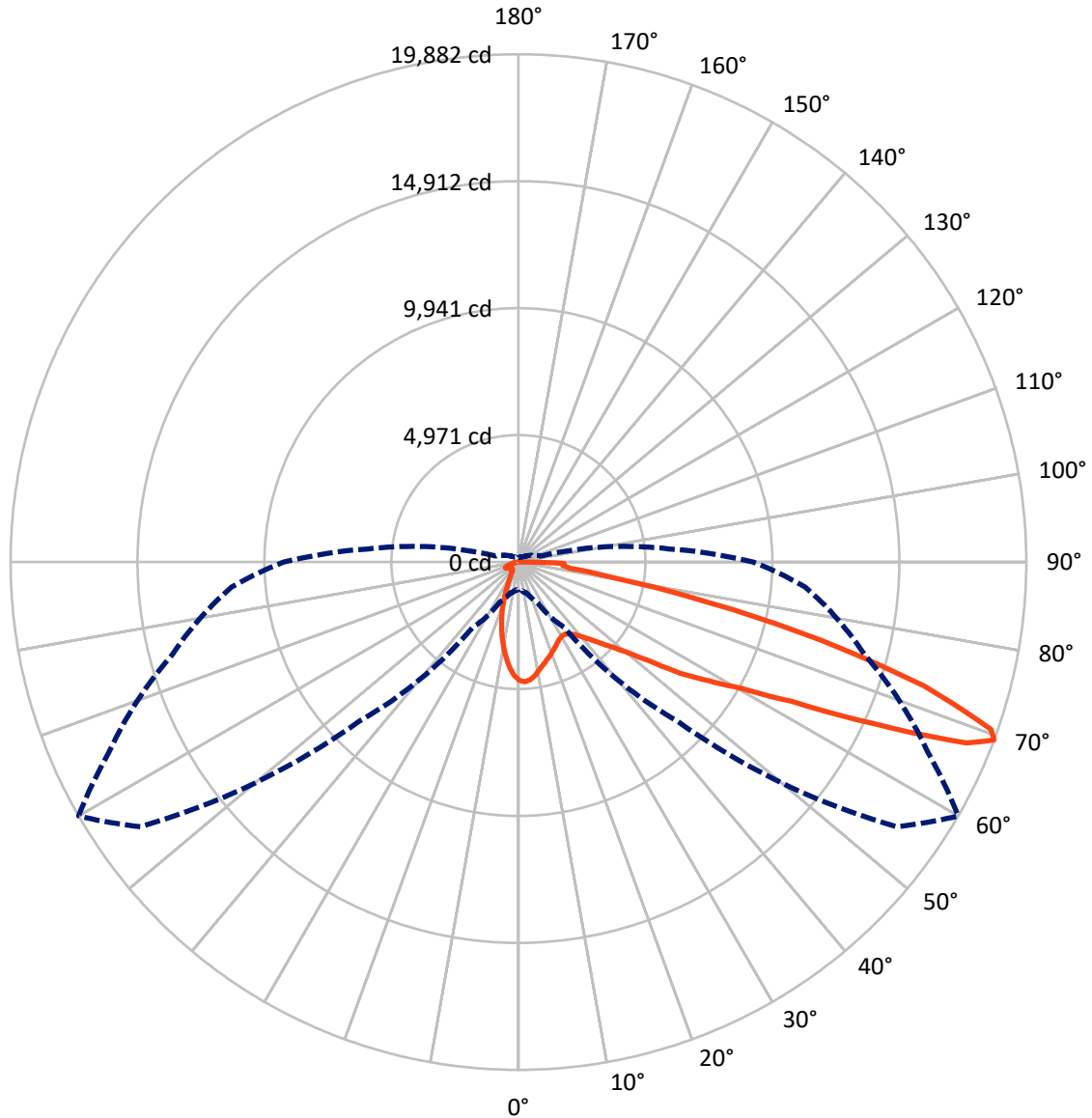
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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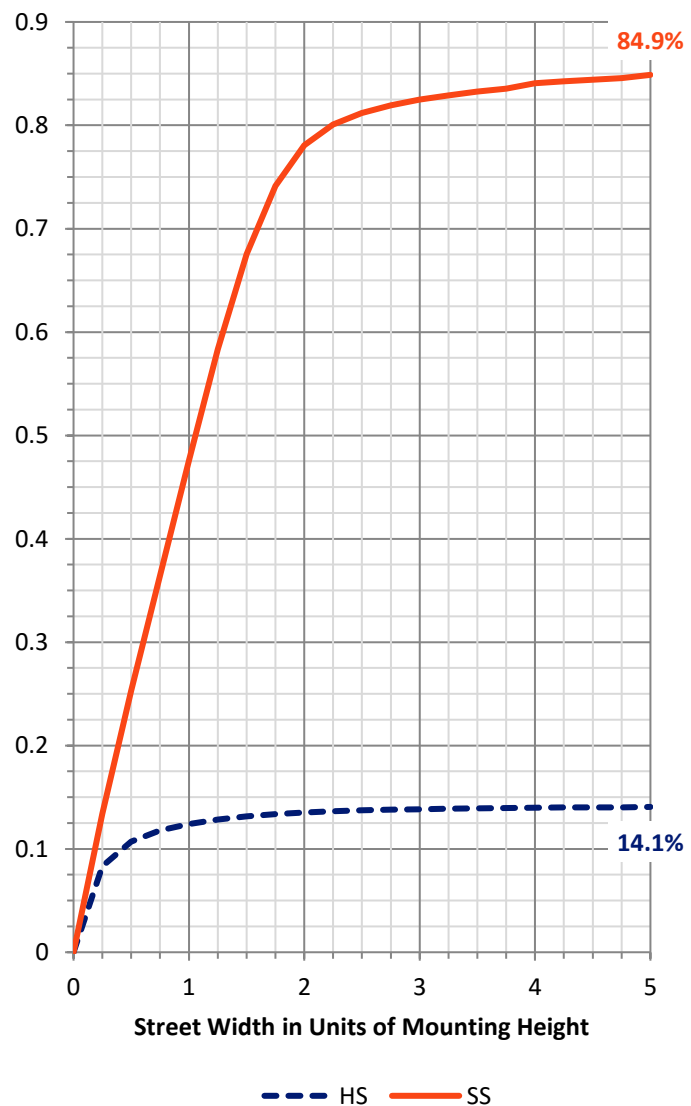
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2585.6	0.0	2585.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	15588.4	0.0	15588.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	18174.0	0.0	18174.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.6	2.2
10°-20°	834.3	4.6
20°-30°	1063.0	5.8
30°-40°	1461.4	8.0
40°-50°	2371.2	13.0
50°-60°	3802.8	20.9
60°-70°	5061.2	27.8
70°-80°	2732.7	15.0
80°-90°	456.0	2.5
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°	18174.0	100.0
0°-180°	18174.0	100.0

**Coefficient of Utilization**



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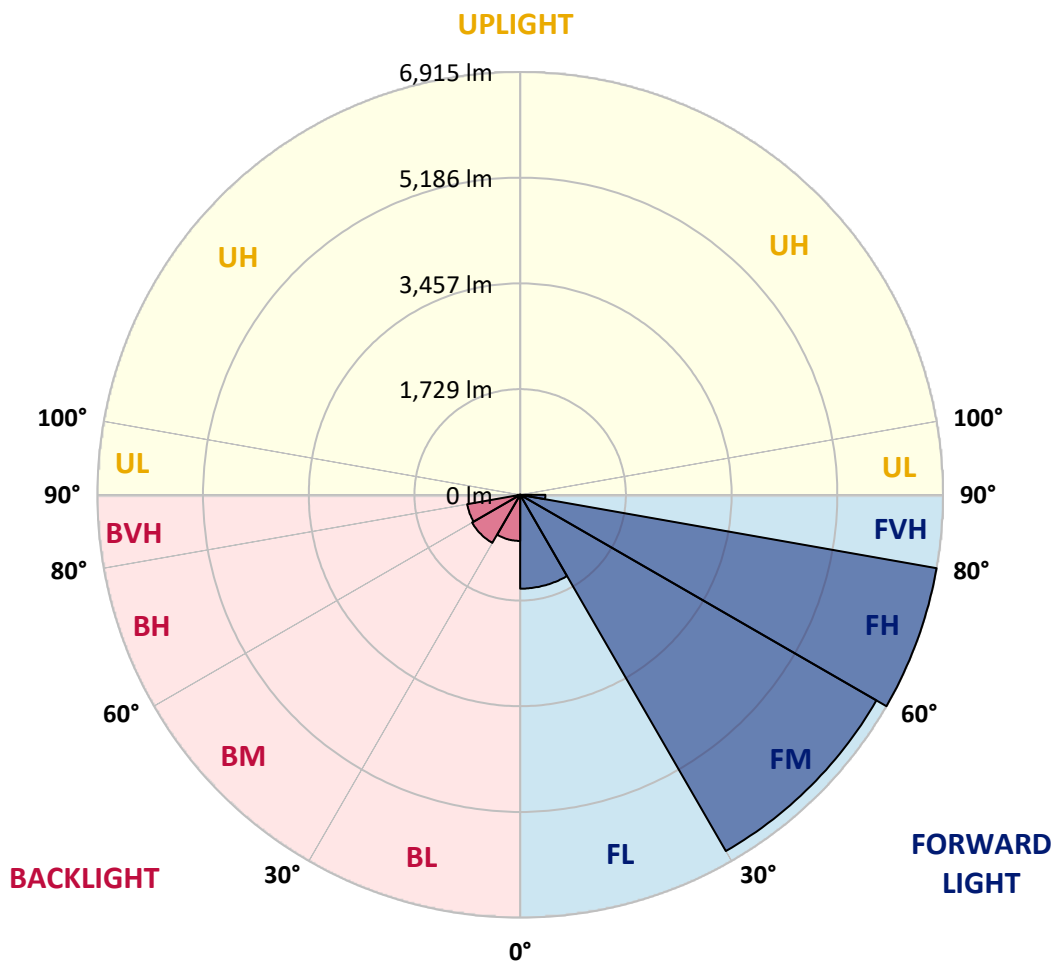
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1534.5	8.4			
FM	(30°-60°)	6727.0	37.0			
FH	(60°-80°)	6914.9	38.0			G3/7500
FVH	(80°-90°)	412.1	2.3			G3/500
BL	(0°-30°)	754.3	4.2	B2/1000		
BM	(30°-60°)	908.4	5.0	B1/1000		
BH	(60°-80°)	879.0	4.8	B2/1000		G2/1000
BVH	(80°-90°)	43.9	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0
2.5°	4725.8	4736.4	4732.0	4729.3	4737.2	4724.9	4699.5	4691.6	4679.3	4650.3	4601.2
5°	4548.5	4580.1	4578.3	4602.0	4641.5	4652.1	4640.7	4642.4	4619.6	4583.6	4502.0
7.5°	4242.1	4255.3	4262.3	4314.1	4386.1	4444.0	4493.2	4509.0	4498.4	4467.7	4362.4
10°	3926.0	3936.6	3953.3	4013.8	4105.1	4185.0	4278.1	4331.6	4354.5	4349.2	4231.6
12.5°	3654.8	3665.3	3687.3	3755.7	3864.6	3962.9	4098.1	4164.8	4219.3	4251.8	4125.3
15°	3411.6	3434.4	3455.5	3534.5	3656.5	3785.6	3938.3	4022.6	4106.9	4179.8	4031.4
17.5°	3222.0	3244.8	3257.1	3329.1	3459.0	3617.0	3796.1	3895.3	4000.7	4120.1	3938.3
20°	3112.2	3122.8	3117.5	3157.9	3274.6	3442.3	3654.8	3769.8	3897.1	4063.9	3845.3
22.5°	3081.5	3082.4	3063.1	3058.7	3134.2	3275.5	3503.8	3643.4	3799.6	4027.0	3765.4
25°	3156.1	3153.5	3100.8	3057.8	3065.7	3148.2	3358.0	3520.4	3718.0	4019.1	3703.9
27.5°	3322.0	3329.9	3251.8	3171.0	3091.1	3088.5	3247.4	3418.6	3651.3	4055.1	3677.6
30°	3554.7	3567.9	3484.5	3381.7	3231.6	3107.8	3204.4	3358.0	3610.0	4129.7	3673.2
32.5°	3809.3	3823.3	3760.1	3652.1	3455.5	3227.2	3234.2	3363.3	3608.2	4234.2	3703.1
35°	4080.6	4096.4	4063.9	3972.6	3754.0	3447.6	3348.4	3448.5	3665.3	4394.0	3782.9
37.5°	4383.4	4408.0	4416.8	4329.9	4096.4	3738.2	3535.4	3610.0	3794.4	4616.1	3929.6
40°	4819.8	4854.0	4851.4	4726.7	4488.8	4130.6	3824.2	3843.5	3995.4	4912.8	4164.0
42.5°	5655.5	5662.6	5444.0	5172.7	4920.7	4543.2	4164.8	4149.0	4272.8	5288.6	4509.0
45°	6718.7	6689.7	6203.4	5679.2	5372.0	5017.3	4608.2	4530.9	4624.9	5746.8	4940.9
47.5°	7601.0	7534.3	6919.7	6196.3	5849.6	5532.6	5128.8	4993.6	5045.4	6266.6	5499.3
50°	7907.4	7857.4	7348.2	6626.5	6301.7	6161.2	5769.7	5578.3	5592.3	6886.4	6153.3
52.5°	7841.6	7834.5	7494.8	6910.1	6724.8	6821.4	6677.4	6418.4	6281.5	7574.7	6859.2
55°	7686.2	7701.1	7578.2	7240.2	7208.6	7458.8	7863.5	7672.1	7246.3	8269.1	7588.7
57.5°	7146.2	7184.9	7455.3	7655.4	7987.3	8359.5	8818.7	8764.2	8284.9	9019.7	8456.1
60°	5757.4	5846.9	6572.1	7574.7	8788.8	9952.9	10158.4	10032.0	9356.0	9951.2	9601.8
62.5°	4034.0	4127.1	4989.2	6558.0	8657.1	11752.7	12553.3	12008.1	10894.1	11323.4	11084.6
65°	2159.7	2204.4	2862.9	4550.2	7308.7	12124.0	16053.6	15224.0	13329.4	13015.1	12353.2
67.5°	1191.3	1215.9	1467.9	2297.5	4681.1	10676.3	18283.5	18910.3	16373.1	14141.5	12122.3
69°	1077.2	1100.0	1265.1	1740.0	3132.4	8827.5	18065.8	19882.2	17707.6	14030.0	11268.9
70°	1053.5	1074.6	1222.9	1604.0	2535.4	7276.2	17336.2	19633.7	18025.4	13630.5	10524.5
72.5°	948.2	971.0	1115.0	1440.7	2166.7	3627.6	13732.4	16600.5	16365.2	11818.5	7982.9
75°	884.1	905.1	1149.2	1410.8	2074.5	2295.8	9053.1	12234.6	12030.1	8267.3	4304.4
77.5°	378.4	376.6	532.9	1194.0	2105.2	2222.9	4864.5	7643.1	6973.3	3533.6	1236.1
80°	252.8	248.5	252.8	351.2	1930.5	2235.2	2548.6	3879.5	2930.5	900.7	609.3
82.5°	217.7	214.2	222.1	214.2	678.6	2551.2	2166.7	2063.1	1393.3	511.8	302.0
85°	146.6	140.5	191.4	192.3	320.4	2266.8	2440.6	1742.7	1127.2	303.8	149.2
87.5°	70.2	68.5	111.5	136.1	187.9	920.9	2738.2	1785.7	1136.9	155.4	71.1
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°	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0	4631.0
2.5°	4586.2	4550.2	4515.1	4473.0	4429.1	4379.9	4355.3	4330.8	4324.6	4317.6	4293.0
5°	4459.8	4408.9	4321.1	4224.5	4122.7	4023.5	3948.0	3900.6	3864.6	3846.2	3813.7
7.5°	4296.5	4221.9	4068.3	3901.5	3730.3	3574.0	3438.8	3353.6	3272.9	3235.1	3192.1
10°	4141.1	4029.6	3790.8	3545.0	3299.2	3063.1	2840.9	2683.8	2544.2	2466.1	2410.8
12.5°	4007.7	3854.9	3524.0	3191.2	2854.1	2517.9	2185.1	1923.5	1704.9	1589.9	1531.1
15°	3877.8	3693.4	3270.2	2848.0	2415.1	1957.8	1520.6	1223.8	1043.0	971.0	946.4
17.5°	3760.1	3524.0	3015.6	2502.1	1962.1	1409.1	1021.9	858.6	789.2	765.5	757.6
20°	3632.8	3352.8	2751.4	2140.4	1489.8	985.0	798.0	726.0	697.9	690.9	687.4
22.5°	3509.9	3184.2	2498.6	1753.2	1070.2	760.3	685.7	655.8	651.4	657.6	657.6
25°	3405.4	3033.2	2225.5	1348.5	785.7	640.0	613.7	606.6	623.3	646.1	650.5
27.5°	3327.3	2909.4	1934.9	995.6	626.0	556.6	555.7	567.1	608.4	652.3	661.1
30°	3273.8	2791.8	1624.1	718.1	525.0	489.9	503.9	528.5	589.1	651.4	668.1
32.5°	3246.5	2704.9	1300.2	555.7	449.5	430.2	453.9	483.7	543.4	601.4	623.3
35°	3267.6	2640.8	994.7	463.5	396.8	381.9	406.5	435.4	470.6	495.1	511.8
37.5°	3346.6	2615.3	750.6	415.3	360.8	346.8	366.1	382.8	396.8	403.8	411.7
40°	3516.9	2642.5	601.4	390.7	340.6	323.1	331.0	337.1	345.9	352.9	356.4
42.5°	3768.0	2724.2	539.0	381.0	330.1	304.6	302.9	305.5	316.9	330.1	332.7
45°	4119.2	2868.2	534.7	387.2	324.8	289.7	281.8	285.3	302.9	323.1	326.6
47.5°	4567.8	3087.6	569.8	405.6	329.2	281.8	268.6	273.0	295.0	322.2	326.6
50°	5111.2	3394.0	628.6	432.8	348.5	283.6	264.3	266.9	289.7	319.6	324.0
52.5°	5753.0	3828.6	692.7	459.2	368.7	295.0	267.8	261.6	282.7	309.0	314.3
55°	6466.7	4386.1	758.5	482.9	379.3	309.0	274.8	254.6	269.5	291.5	295.9
57.5°	7342.9	5165.7	872.6	505.7	386.3	318.7	281.8	247.6	252.8	268.6	272.2
60°	8529.0	6268.3	1073.7	543.4	402.1	322.2	280.9	241.4	236.2	244.9	246.7
62.5°	9950.3	7465.8	1241.4	590.8	428.4	324.8	275.7	237.0	222.1	222.1	223.9
65°	10794.0	7786.2	1148.3	630.3	450.4	322.2	269.5	232.6	211.6	201.9	202.8
67.5°	10078.5	6847.8	984.1	638.2	449.5	309.9	259.9	224.7	201.0	186.1	185.2
69°	9182.1	5908.4	910.4	617.2	428.4	294.1	247.6	216.0	193.1	177.3	176.5
70°	8459.6	5335.1	862.1	594.3	405.6	282.7	237.9	208.1	187.0	172.1	170.3
72.5°	6150.7	3495.9	736.6	510.9	334.5	237.0	205.4	182.6	166.8	158.0	156.3
75°	3073.6	1667.2	597.9	414.4	256.4	189.6	168.6	152.8	144.9	143.1	142.2
77.5°	1009.6	763.8	427.5	309.0	190.5	148.4	136.1	124.7	122.9	128.2	126.4
80°	554.8	444.2	271.3	204.6	129.9	108.9	107.1	101.0	103.6	112.4	110.6
82.5°	282.7	230.9	167.7	122.9	87.8	78.1	85.2	81.6	85.2	93.1	92.2
85°	139.6	126.4	106.2	74.6	57.9	50.0	60.6	63.2	65.0	71.1	71.1
87.5°	80.8	74.6	56.2	35.1	29.0	26.3	35.1	34.2	40.4	43.9	43.0
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)