

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: P193721

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193721  
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-SL3-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA 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: 16268 lumens  
Efficiency: N/A  
Efficacy: 85.2 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): 191  
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

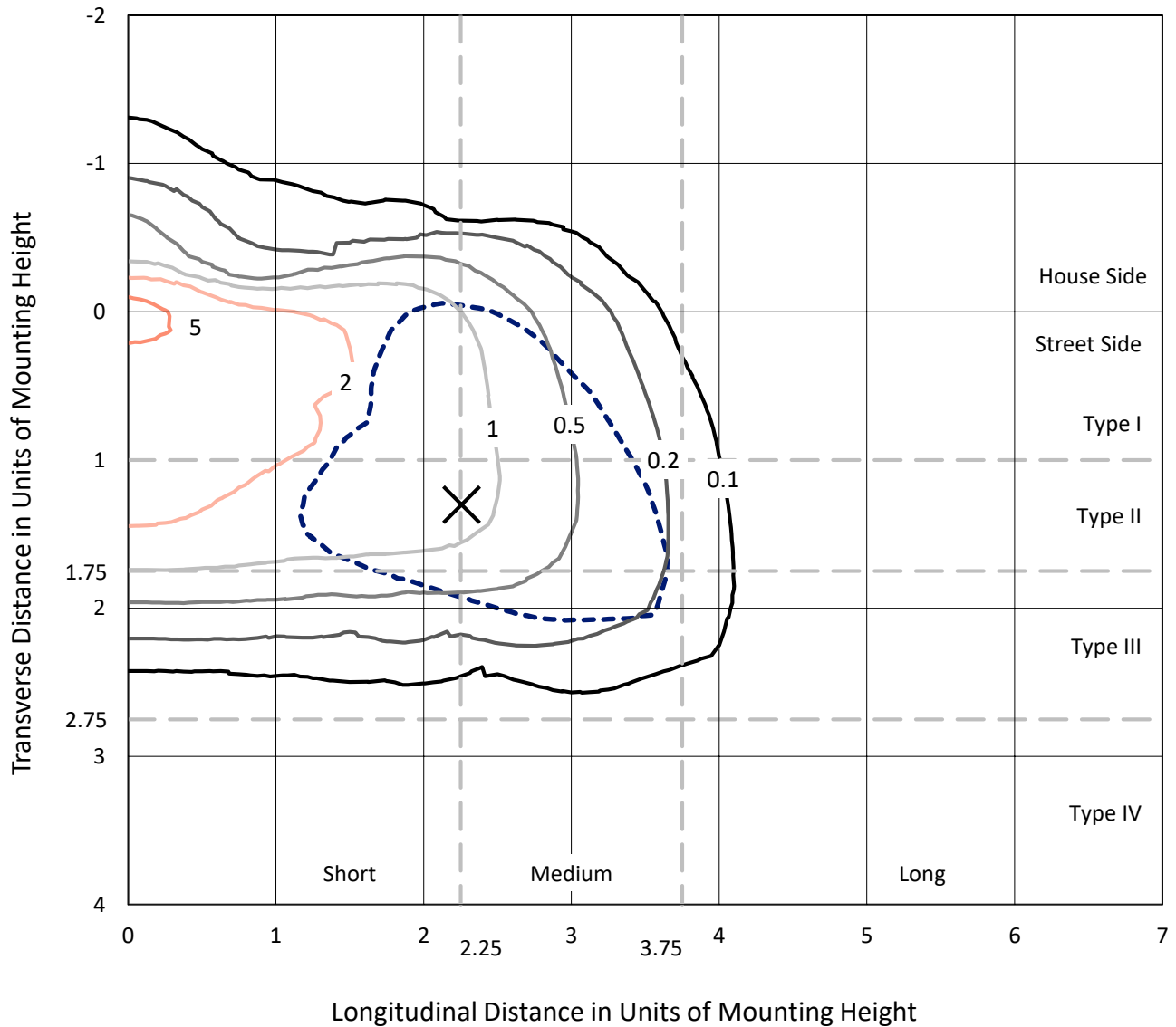


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

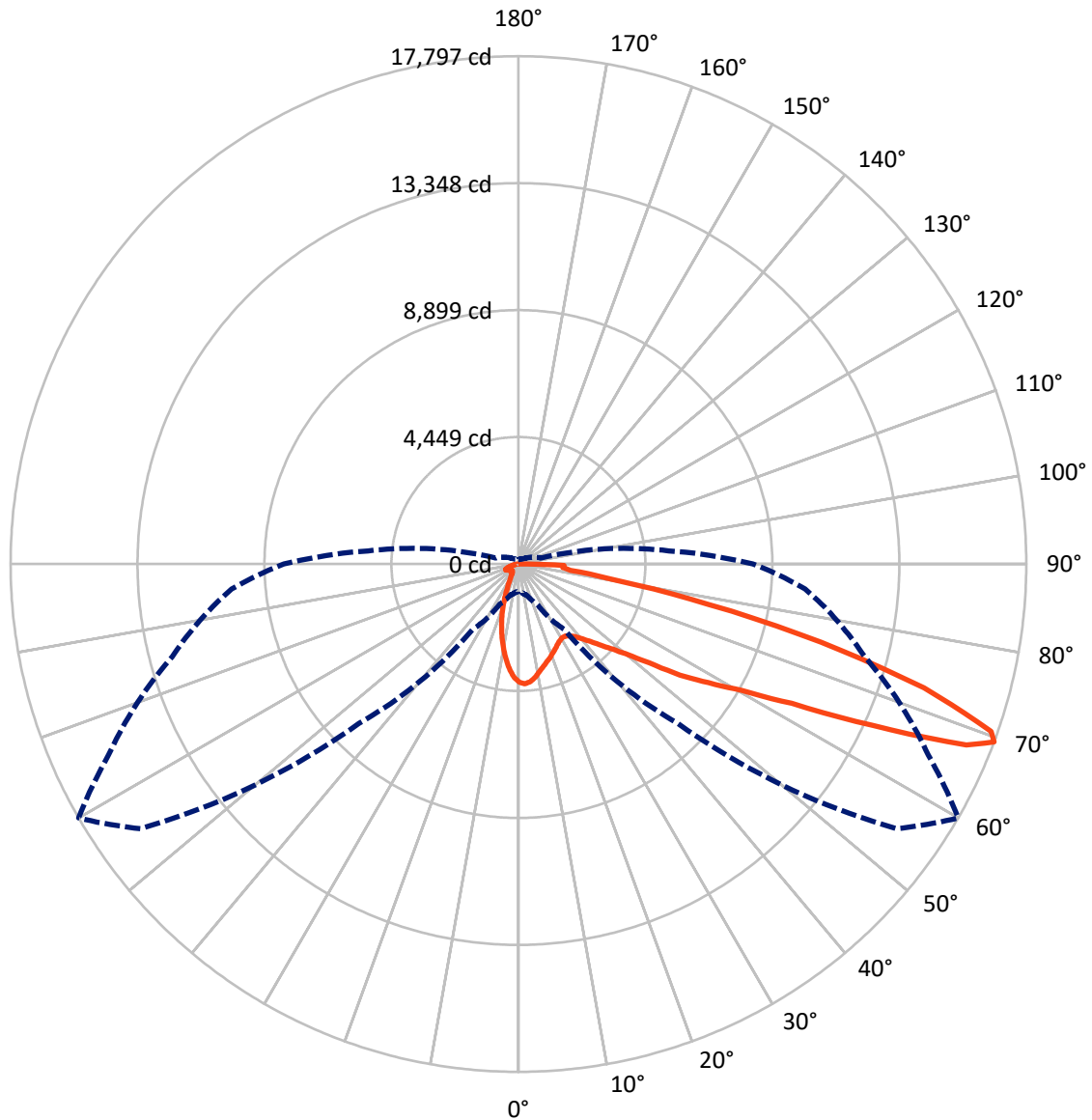


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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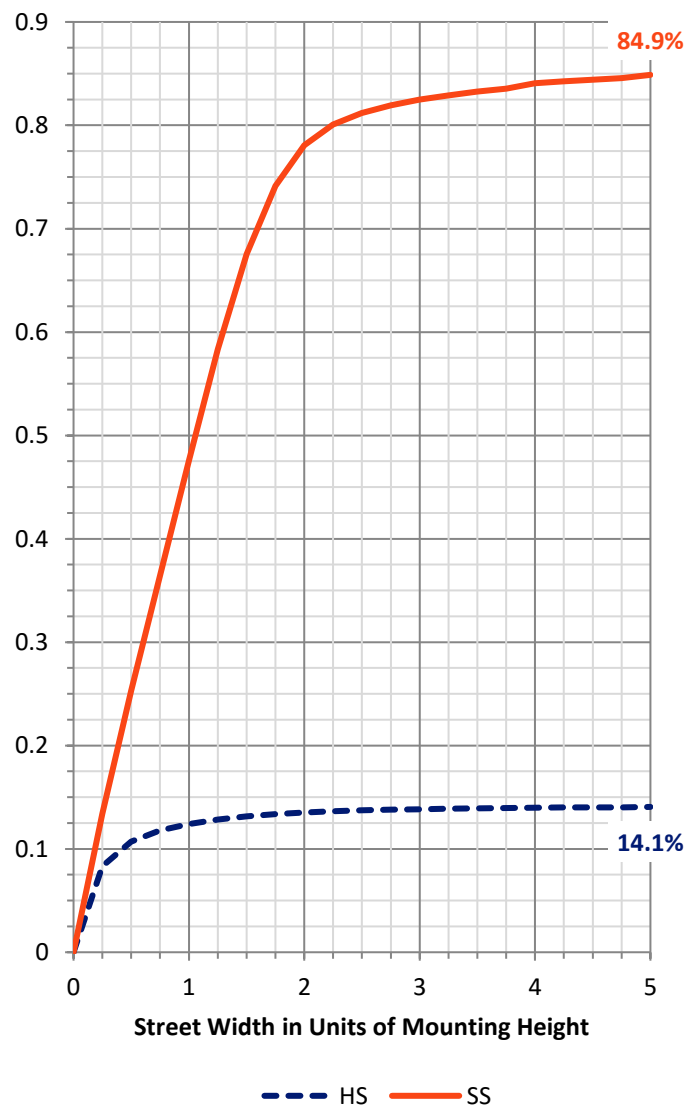
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2314.4	0.0	2314.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	13953.6	0.0	13953.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	16268.0	0.0	16268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.5	2.2
10°-20°	746.8	4.6
20°-30°	951.5	5.8
30°-40°	1308.1	8.0
40°-50°	2122.5	13.0
50°-60°	3404.0	20.9
60°-70°	4530.4	27.8
70°-80°	2446.1	15.0
80°-90°	408.1	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°	16268.0	100.0
0°-180°	16268.0	100.0

**Coefficient of Utilization**



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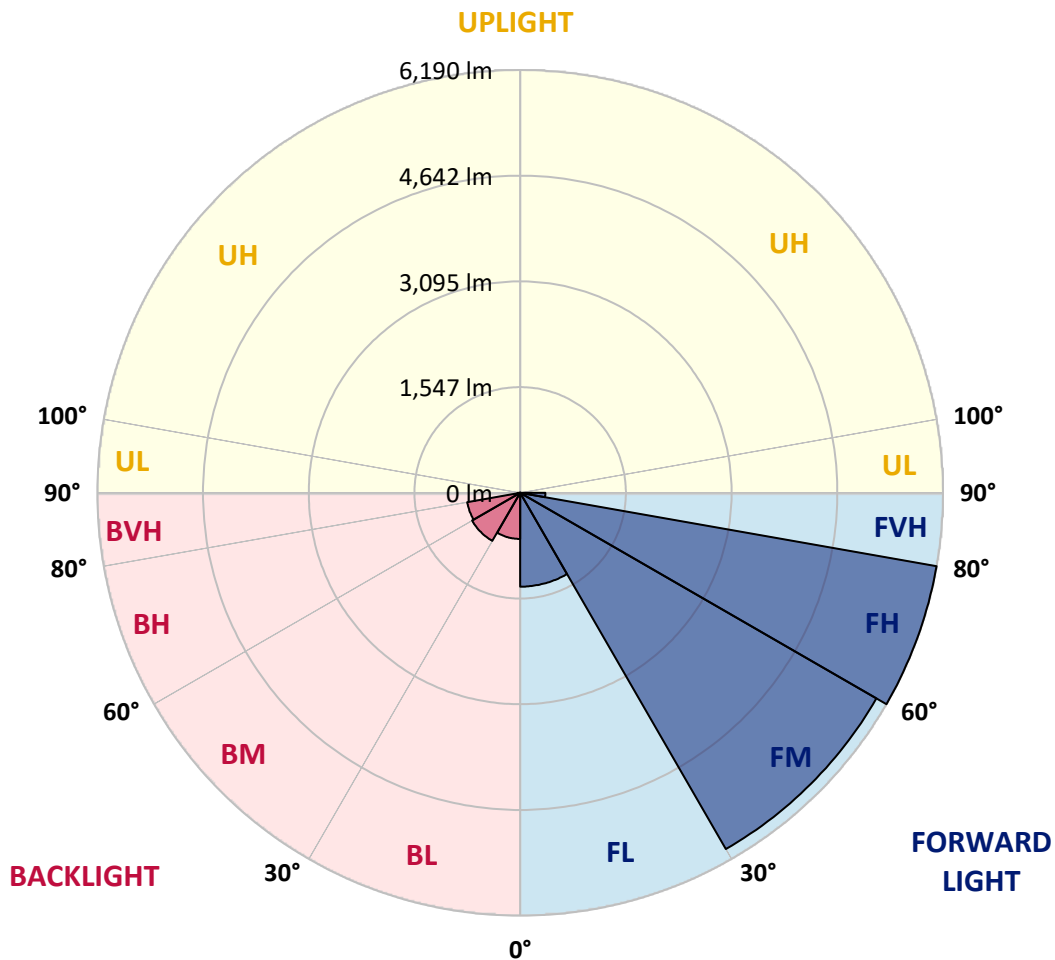
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.6	8.4			
FM	(30°-60°)	6021.5	37.0			
FH	(60°-80°)	6189.7	38.0			G3/7500
FVH	(80°-90°)	368.8	2.3			G3/500
BL	(0°-30°)	675.2	4.2	B2/1000		
BM	(30°-60°)	813.1	5.0	B1/1000		
BH	(60°-80°)	786.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	39.3	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°	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3
2.5°	4230.2	4239.6	4235.7	4233.3	4240.4	4229.4	4206.6	4199.6	4188.6	4162.6	4118.6
5°	4071.5	4099.8	4098.2	4119.4	4154.8	4164.2	4154.0	4155.5	4135.1	4102.9	4029.8
7.5°	3797.2	3809.0	3815.3	3861.6	3926.1	3977.9	4022.0	4036.1	4026.7	3999.2	3904.9
10°	3514.3	3523.7	3538.7	3592.9	3674.6	3746.1	3829.4	3877.4	3897.8	3893.1	3787.8
12.5°	3271.5	3280.9	3300.5	3361.8	3459.3	3547.3	3668.3	3728.0	3776.8	3805.8	3692.7
15°	3053.8	3074.2	3093.1	3163.8	3273.0	3388.6	3525.3	3600.7	3676.2	3741.4	3608.6
17.5°	2884.1	2904.5	2915.5	2979.9	3096.2	3237.7	3398.0	3486.8	3581.1	3688.0	3525.3
20°	2785.8	2795.3	2790.5	2826.7	2931.2	3081.3	3271.5	3374.4	3488.4	3637.7	3442.0
22.5°	2758.3	2759.1	2741.8	2737.9	2805.5	2932.0	3136.3	3261.3	3401.1	3604.7	3370.5
25°	2825.1	2822.8	2775.6	2737.1	2744.2	2818.0	3005.9	3151.2	3328.1	3597.6	3315.5
27.5°	2973.6	2980.7	2910.8	2838.5	2767.0	2764.6	2906.8	3060.1	3268.3	3629.8	3291.9
30°	3181.9	3193.7	3119.0	3027.1	2892.7	2781.9	2868.3	3005.9	3231.4	3696.6	3288.0
32.5°	3409.8	3422.4	3365.8	3269.1	3093.1	2888.8	2895.1	3010.6	3229.8	3790.1	3314.7
35°	3652.6	3666.8	3637.7	3555.9	3360.3	3086.0	2997.2	3086.8	3280.9	3933.2	3386.2
37.5°	3923.7	3945.7	3953.6	3875.8	3666.8	3346.1	3164.6	3231.4	3396.4	4132.0	3517.4
40°	4314.3	4344.9	4342.6	4231.0	4018.0	3697.4	3423.1	3440.4	3576.4	4397.6	3727.3
42.5°	5062.4	5068.7	4873.0	4630.2	4404.7	4066.7	3728.0	3713.9	3824.7	4733.9	4036.1
45°	6014.1	5988.1	5552.8	5083.6	4808.6	4491.1	4124.9	4055.7	4139.8	5144.1	4422.7
47.5°	6803.8	6744.1	6194.0	5546.5	5236.1	4952.4	4590.9	4469.9	4516.3	5609.4	4922.5
50°	7078.1	7033.3	6577.5	5931.6	5640.8	5515.1	5164.6	4993.3	5005.8	6164.2	5508.0
52.5°	7019.2	7012.9	6708.8	6185.4	6019.6	6106.0	5977.1	5745.3	5622.7	6780.3	6139.8
55°	6880.1	6893.4	6783.4	6480.9	6452.6	6676.5	7038.8	6867.5	6486.4	7401.9	6792.8
57.5°	6396.8	6431.4	6673.4	6852.6	7149.6	7482.8	7893.8	7845.1	7416.0	8073.8	7569.3
60°	5153.6	5233.7	5882.8	6780.3	7867.1	8909.1	9093.0	8979.9	8374.8	8907.6	8594.8
62.5°	3611.0	3694.3	4466.0	5870.3	7749.2	10520.1	11236.8	10748.8	9751.6	10135.8	9922.1
65°	1933.2	1973.3	2562.6	4073.0	6542.2	10852.5	14370.0	13627.3	11931.5	11650.2	11057.6
67.5°	1066.4	1088.4	1313.9	2056.6	4190.1	9556.7	16366.0	16927.1	14656.0	12658.4	10851.0
69°	964.2	984.7	1132.4	1557.5	2803.9	7901.7	16171.1	17797.0	15850.5	12558.6	10087.1
70°	943.0	961.9	1094.7	1435.7	2269.5	6513.1	15518.1	17574.6	16135.0	12201.0	9420.7
72.5°	848.7	869.1	998.0	1289.6	1939.5	3247.1	12292.2	14859.5	14648.9	10579.0	7145.7
75°	791.3	810.2	1028.7	1262.9	1857.0	2055.0	8103.6	10951.5	10768.4	7400.3	3853.0
77.5°	338.7	337.1	477.0	1068.7	1884.5	1989.8	4354.4	6841.6	6242.0	3163.0	1106.5
80°	226.3	222.4	226.3	314.3	1728.1	2000.8	2281.3	3472.6	2623.2	806.3	545.4
82.5°	194.9	191.7	198.8	191.7	607.5	2283.7	1939.5	1846.7	1247.1	458.1	270.3
85°	131.2	125.7	171.3	172.1	286.8	2029.1	2184.6	1559.9	1009.0	271.9	133.6
87.5°	62.9	61.3	99.8	121.8	168.2	824.4	2451.1	1598.4	1017.7	139.1	63.7
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°	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3	4145.3
2.5°	4105.3	4073.0	4041.6	4003.9	3964.6	3920.6	3898.6	3876.6	3871.1	3864.8	3842.8
5°	3992.1	3946.5	3867.9	3781.5	3690.3	3601.5	3533.9	3491.5	3459.3	3442.8	3413.7
7.5°	3845.9	3779.1	3641.6	3492.3	3339.1	3199.2	3078.2	3001.9	2929.6	2895.8	2857.3
10°	3706.8	3607.0	3393.3	3173.2	2953.2	2741.8	2543.0	2402.3	2277.4	2207.4	2157.9
12.5°	3587.4	3450.6	3154.4	2856.5	2554.8	2253.8	1956.0	1721.8	1526.1	1423.2	1370.5
15°	3471.1	3306.1	2927.3	2549.3	2161.9	1752.4	1361.1	1095.5	933.6	869.1	847.1
17.5°	3365.8	3154.4	2699.4	2239.7	1756.4	1261.3	914.7	768.6	706.5	685.3	678.2
20°	3251.8	3001.1	2462.8	1915.9	1333.6	881.7	714.3	649.9	624.7	618.5	615.3
22.5°	3141.8	2850.3	2236.5	1569.3	957.9	680.5	613.7	587.0	583.1	588.6	588.6
25°	3048.3	2715.1	1992.1	1207.1	703.3	572.9	549.3	543.0	558.0	578.4	582.3
27.5°	2978.4	2604.3	1732.0	891.1	560.3	498.2	497.4	507.7	544.6	583.9	591.7
30°	2930.4	2499.0	1453.8	642.8	469.9	438.5	451.1	473.1	527.3	583.1	598.0
32.5°	2906.1	2421.2	1163.8	497.4	402.4	385.1	406.3	433.0	486.4	538.3	558.0
35°	2924.9	2363.8	890.4	414.9	355.2	341.8	363.8	389.8	421.2	443.2	458.1
37.5°	2995.6	2341.0	671.9	371.7	323.0	310.4	327.7	342.6	355.2	361.5	368.6
40°	3148.1	2365.4	538.3	349.7	304.9	289.2	296.3	301.8	309.6	315.9	319.1
42.5°	3372.8	2438.5	482.5	341.1	295.5	272.7	271.1	273.5	283.7	295.5	297.8
45°	3687.2	2567.4	478.6	346.6	290.8	259.3	252.3	255.4	271.1	289.2	292.3
47.5°	4088.8	2763.8	510.0	363.1	294.7	252.3	240.5	244.4	264.0	288.4	292.3
50°	4575.2	3038.1	562.7	387.4	312.0	253.8	236.5	238.9	259.3	286.0	290.0
52.5°	5149.6	3427.1	620.0	411.0	330.1	264.0	239.7	234.2	253.0	276.6	281.3
55°	5788.5	3926.1	679.0	432.2	339.5	276.6	246.0	227.9	241.3	260.9	264.8
57.5°	6572.8	4623.9	781.1	452.6	345.8	285.3	252.3	221.6	226.3	240.5	243.6
60°	7634.5	5610.9	961.1	486.4	359.9	288.4	251.5	216.1	211.4	219.3	220.8
62.5°	8906.8	6682.8	1111.2	528.9	383.5	290.8	246.8	212.2	198.8	198.8	200.4
65°	9662.0	6969.7	1027.9	564.2	403.1	288.4	241.3	208.2	189.4	180.7	181.5
67.5°	9021.5	6129.6	880.9	571.3	402.4	277.4	232.6	201.2	180.0	166.6	165.8
69°	8219.2	5288.7	814.9	552.4	383.5	263.3	221.6	193.3	172.9	158.7	158.0
70°	7572.4	4775.6	771.7	532.0	363.1	253.0	213.0	186.2	167.4	154.0	152.5
72.5°	5505.6	3129.2	659.3	457.4	299.4	212.2	183.9	163.5	149.3	141.5	139.9
75°	2751.2	1492.3	535.2	370.9	229.5	169.7	150.9	136.7	129.7	128.1	127.3
77.5°	903.7	683.7	382.7	276.6	170.5	132.8	121.8	111.6	110.0	114.7	113.2
80°	496.7	397.6	242.8	183.1	116.3	97.4	95.9	90.4	92.7	100.6	99.0
82.5°	253.0	206.7	150.1	110.0	78.6	69.9	76.2	73.1	76.2	83.3	82.5
85°	124.9	113.2	95.1	66.8	51.9	44.8	54.2	56.6	58.2	63.7	63.7
87.5°	72.3	66.8	50.3	31.4	25.9	23.6	31.4	30.6	36.1	39.3	38.5
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)