

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: P193672

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16739 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 225  
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

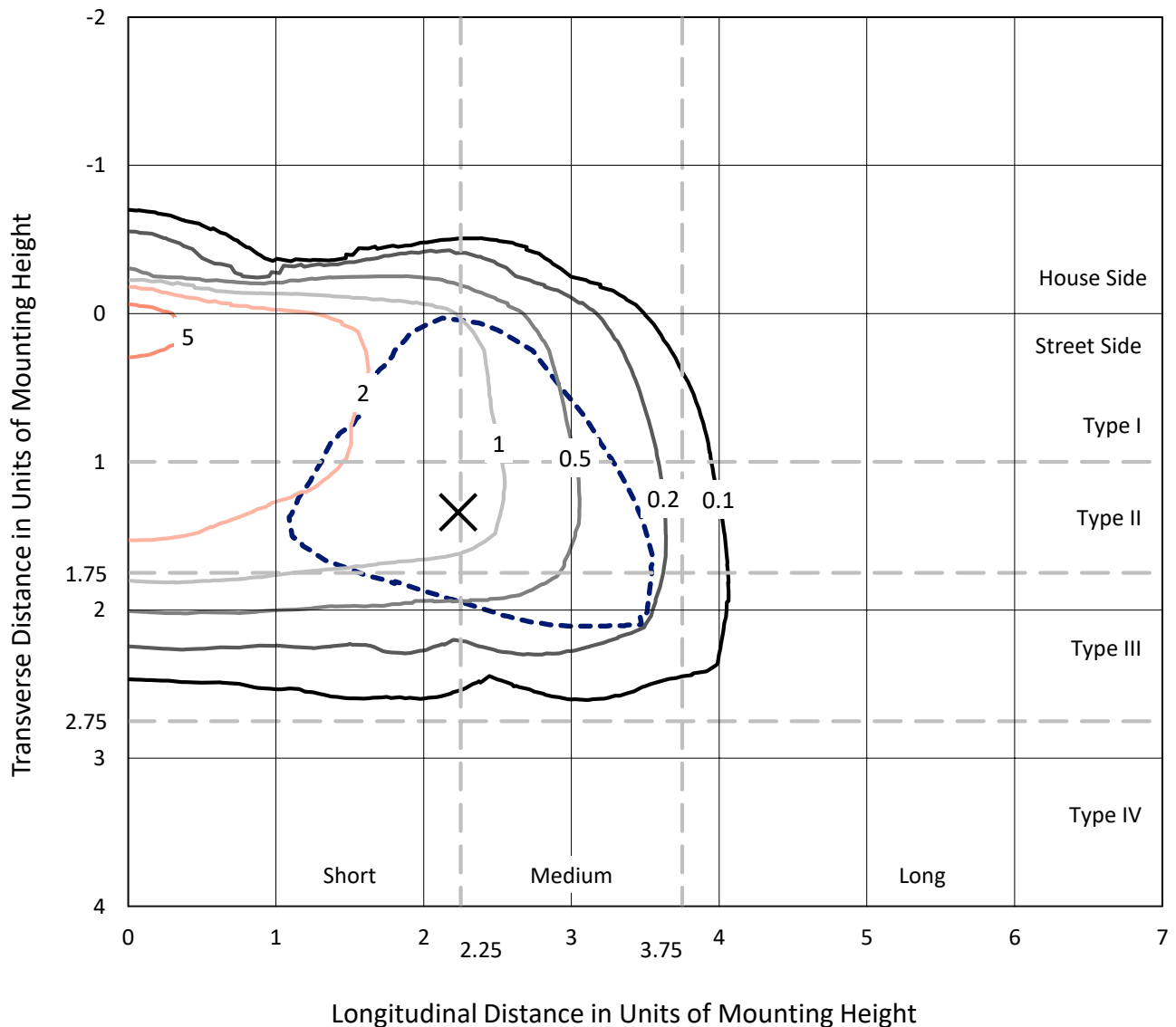


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### Iso-Footcandle Lines of Horizontal Illumination

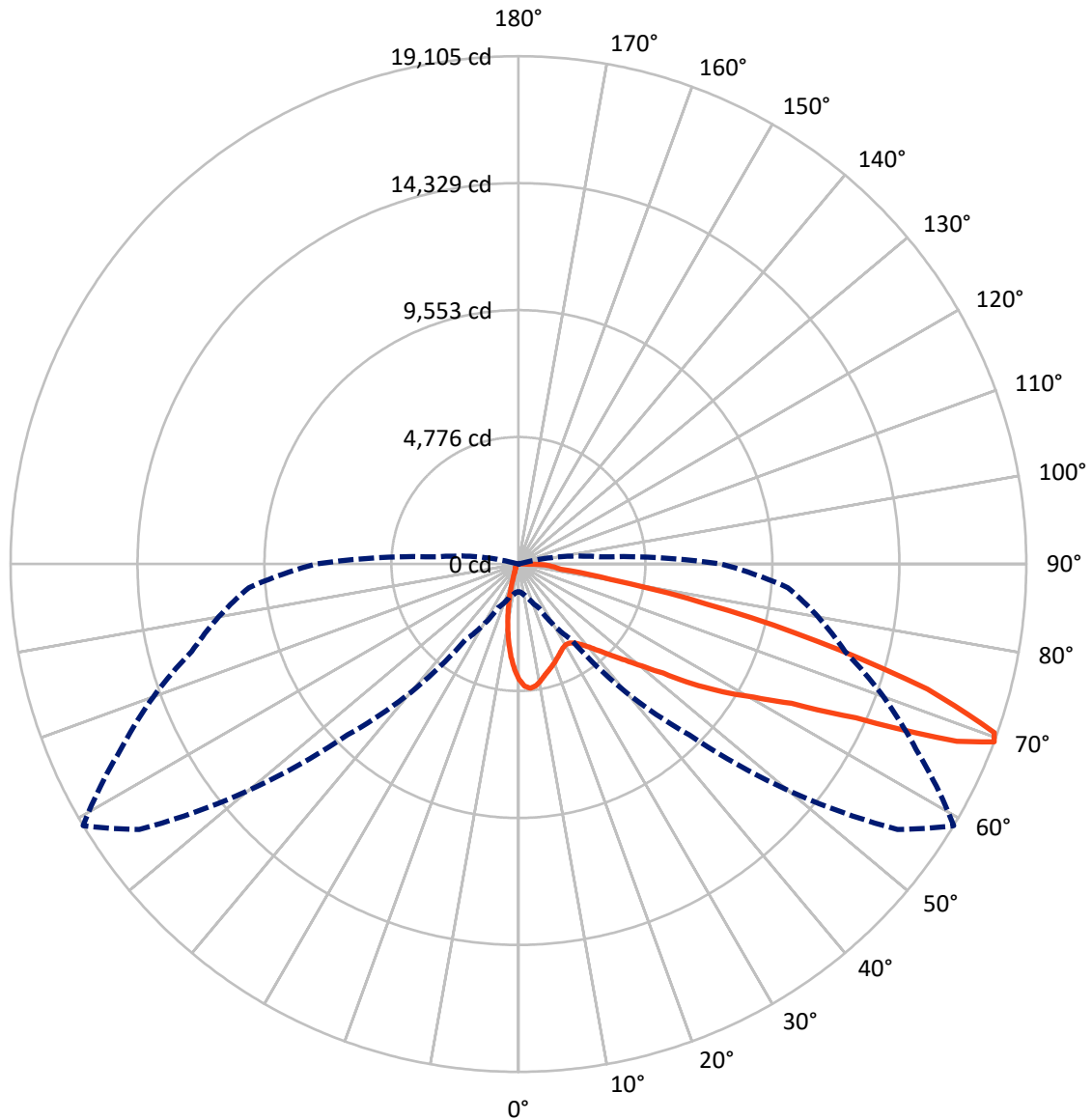
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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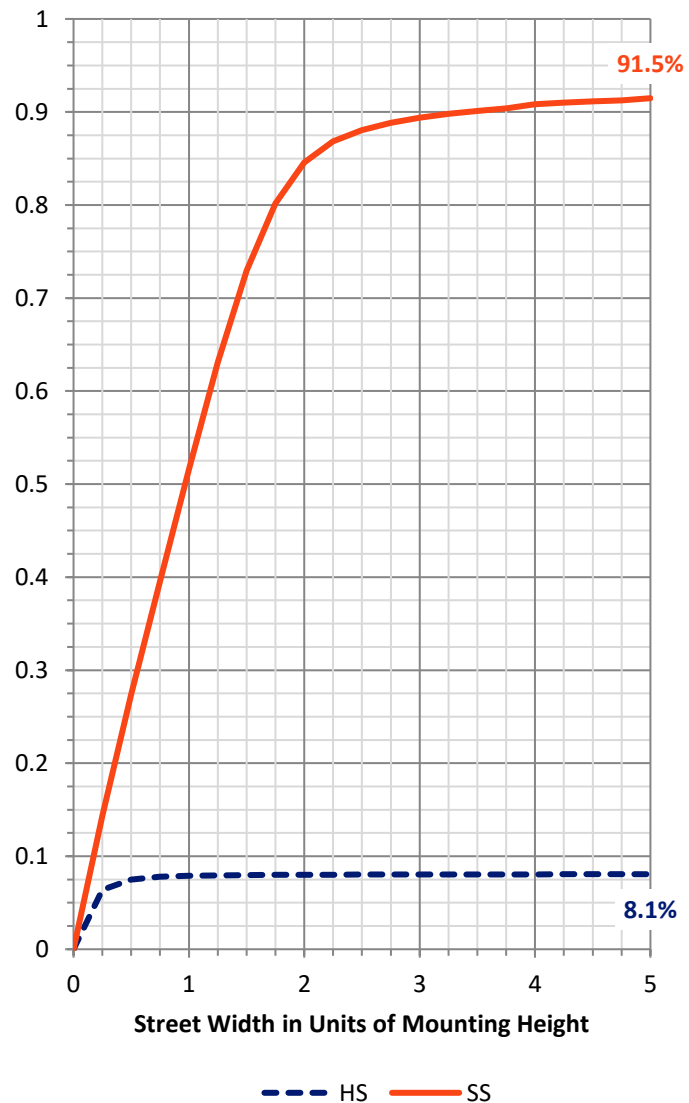
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1363.2	0.0	1363.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	15375.8	0.0	15375.8
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	16739.0	0.0	16739.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.7	2.1
10°-20°	730.7	4.4
20°-30°	983.3	5.9
30°-40°	1427.7	8.5
40°-50°	2377.2	14.2
50°-60°	3708.4	22.2
60°-70°	4588.9	27.4
70°-80°	2325.6	13.9
80°-90°	243.3	1.5
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°	16739.0	100.0
0°-180°	16739.0	100.0



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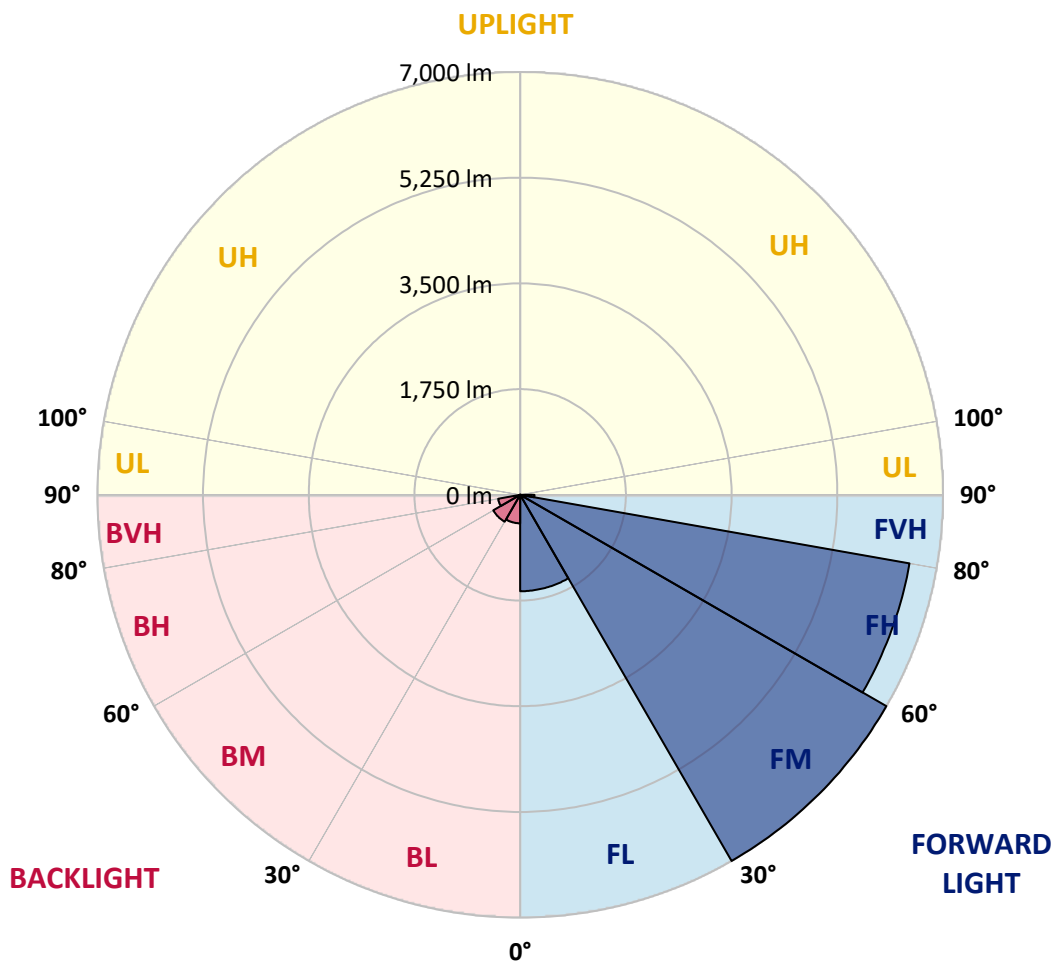
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1595.9	9.5			
FM	(30°-60°)	6999.8	41.8			
FH	(60°-80°)	6544.3	39.1			G3/7500
FVH	(80°-90°)	235.9	1.4			G3/500
BL	(0°-30°)	471.8	2.8	B1/500		
BM	(30°-60°)	513.6	3.1	B1/1000		
BH	(60°-80°)	370.2	2.2	B1/500		G1/500
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9
2.5°	4775.3	4773.4	4752.6	4743.1	4726.1	4690.1	4634.3	4604.9	4557.6	4475.2	4364.5
5°	4731.8	4754.5	4766.8	4767.7	4780.0	4766.8	4716.6	4692.0	4626.7	4494.2	4295.4
7.5°	4436.4	4445.0	4480.0	4510.3	4569.0	4624.8	4642.8	4632.4	4593.6	4451.6	4187.5
10°	4120.3	4128.8	4170.5	4210.2	4289.7	4375.9	4466.7	4485.7	4501.8	4391.0	4083.4
12.5°	3847.7	3856.2	3898.8	3950.9	4043.6	4149.6	4290.7	4321.9	4392.9	4333.3	4000.1
15°	3612.9	3616.7	3658.4	3722.7	3833.5	3969.8	4129.8	4179.9	4288.8	4292.6	3927.2
17.5°	3413.2	3422.7	3448.3	3509.8	3630.9	3799.4	3985.9	4057.8	4185.6	4258.5	3856.2
20°	3291.1	3300.6	3299.6	3333.7	3442.6	3622.4	3842.0	3928.1	4083.4	4223.5	3792.8
22.5°	3267.5	3267.5	3242.9	3238.1	3302.5	3453.0	3692.5	3797.5	3991.6	4208.3	3748.3
25°	3351.7	3347.9	3286.4	3236.2	3239.1	3329.0	3547.6	3672.6	3913.9	4218.7	3724.6
27.5°	3529.7	3524.9	3447.3	3351.7	3275.0	3274.1	3437.8	3572.2	3852.4	4268.0	3734.1
30°	3775.8	3773.9	3689.6	3569.4	3430.3	3302.5	3400.0	3522.1	3812.7	4356.9	3755.9
32.5°	4044.6	4041.7	3978.3	3851.5	3675.4	3430.3	3439.7	3542.0	3824.0	4475.2	3808.9
35°	4329.5	4324.7	4297.3	4186.6	3992.5	3666.0	3570.4	3649.9	3896.0	4652.3	3913.0
37.5°	4638.1	4642.8	4662.7	4556.7	4353.1	3996.3	3789.0	3843.0	4040.8	4892.7	4082.4
40°	5093.3	5092.4	5099.0	4959.9	4763.9	4400.5	4094.7	4111.8	4283.1	5211.7	4339.9
42.5°	5919.7	5861.9	5686.8	5402.9	5206.0	4862.4	4480.0	4462.0	4579.4	5606.4	4700.5
45°	7030.0	6906.9	6452.6	5908.3	5656.5	5383.0	4954.2	4896.5	4971.2	6080.6	5145.4
47.5°	7985.0	7857.2	7214.5	6434.6	6134.5	5877.1	5509.8	5405.7	5430.3	6611.6	5709.5
50°	8309.7	8247.2	7685.9	6892.7	6597.4	6499.0	6154.4	6027.6	5992.6	7225.9	6363.6
52.5°	8197.0	8192.3	7818.4	7189.9	7021.4	7142.6	6965.6	6818.9	6690.2	7873.3	7029.0
55°	8016.3	8039.9	7872.4	7450.2	7444.5	7730.4	8074.9	7952.8	7579.9	8576.6	7602.6
57.5°	7517.4	7618.7	7842.1	7942.4	8175.3	8467.8	8998.8	9070.7	8629.6	9115.2	8078.7
60°	6099.5	6322.0	7052.7	8013.4	9117.1	9845.9	10113.8	10175.3	9491.0	9562.9	8721.4
62.5°	4329.5	4556.7	5483.3	7108.5	9131.3	11656.7	11775.0	11533.6	10439.4	10226.4	9829.8
65°	2298.2	2473.3	3230.5	5131.2	7916.9	12076.9	14679.9	13960.5	12112.9	11531.7	11262.0
67.5°	1175.6	1228.6	1529.6	2511.2	5442.6	10727.2	17283.8	17790.2	14997.0	12826.6	11192.9
69°	1040.2	1071.5	1271.2	1815.5	3485.2	9085.9	17410.7	19105.0	16506.7	12718.7	10171.5
70°	1007.1	1034.6	1216.3	1643.2	2724.1	7619.7	16925.1	18989.5	16892.9	12307.9	9408.6
72.5°	854.7	878.4	1082.8	1452.0	2214.0	3782.4	13748.5	16091.2	15158.9	10252.9	6810.4
75°	571.7	649.3	1039.3	1361.1	2059.7	2148.6	9064.1	11628.3	10801.9	6915.4	3547.6
77.5°	137.2	147.7	293.4	1082.8	1883.6	1891.2	4661.7	7228.7	5896.0	2464.8	838.6
80°	73.8	71.0	82.3	214.9	1753.9	1774.8	2098.5	3508.8	2105.1	408.9	276.4
82.5°	52.1	49.2	53.0	89.9	551.8	1616.7	1518.3	1588.3	872.7	157.1	124.0
85°	18.9	18.0	29.3	81.4	173.2	929.5	1559.9	1310.0	707.1	71.9	90.9
87.5°	6.6	5.7	11.4	44.5	53.0	395.7	962.6	990.1	278.3	43.5	42.6
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°	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9	4356.9
2.5°	4318.1	4259.4	4151.5	4040.8	3938.6	3815.5	3754.0	3693.4	3667.8	3658.4	3613.9
5°	4193.2	4093.8	3864.7	3634.7	3422.7	3197.4	3048.8	2929.5	2859.5	2825.4	2771.5
7.5°	4033.2	3870.4	3523.0	3168.1	2837.7	2512.1	2270.8	2085.2	1957.4	1895.9	1840.1
10°	3878.0	3661.2	3167.1	2683.4	2234.8	1803.2	1470.0	1228.6	1074.3	1003.3	957.9
12.5°	3738.8	3457.7	2823.5	2211.1	1647.9	1142.5	803.6	611.5	515.9	482.7	466.6
15°	3614.8	3270.3	2498.9	1762.5	1116.0	653.1	439.2	373.9	358.7	358.7	356.8
17.5°	3497.5	3086.7	2185.6	1341.2	700.4	399.4	334.1	325.6	325.6	329.4	329.4
20°	3384.8	2911.6	1882.7	962.6	441.1	317.1	301.9	300.1	301.9	306.7	306.7
22.5°	3288.3	2752.5	1599.7	660.7	327.5	285.9	278.3	275.4	276.4	279.2	281.1
25°	3216.3	2618.1	1332.7	447.7	282.1	260.3	251.8	247.0	243.3	243.3	245.2
27.5°	3170.9	2504.5	1074.3	325.6	253.7	236.6	223.4	215.8	207.3	202.6	204.5
30°	3137.8	2396.6	832.0	266.0	227.2	210.1	193.1	180.8	168.5	162.8	164.7
32.5°	3125.5	2309.6	621.9	234.7	203.5	184.6	163.8	147.7	134.4	129.7	130.6
35°	3158.6	2240.5	455.3	212.0	184.6	160.9	137.2	119.3	108.9	106.0	107.0
37.5°	3245.7	2203.5	340.8	193.1	167.5	141.0	114.5	97.5	90.9	90.9	91.8
40°	3410.4	2202.6	273.6	179.8	152.4	122.1	94.7	82.3	78.6	80.5	81.4
42.5°	3650.8	2252.8	238.5	167.5	139.1	104.1	78.6	70.0	69.1	71.0	71.9
45°	3979.3	2344.6	219.6	157.1	124.9	87.1	66.3	60.6	60.6	63.4	64.4
47.5°	4381.5	2479.0	203.5	146.7	110.7	72.9	56.8	53.0	54.0	56.8	57.7
50°	4866.2	2648.4	187.4	135.4	100.3	60.6	49.2	46.4	47.3	51.1	52.1
52.5°	5418.0	2876.5	174.2	124.9	87.1	50.2	41.6	39.8	41.6	45.4	46.4
55°	5891.3	3081.0	158.1	116.4	70.0	41.6	34.1	34.1	36.0	40.7	41.6
57.5°	6346.6	3294.9	143.9	100.3	54.9	33.1	28.4	29.3	32.2	36.9	37.9
60°	7014.8	3657.4	126.8	84.2	41.6	26.5	23.7	24.6	28.4	33.1	34.1
62.5°	8149.7	4209.3	109.8	70.0	32.2	20.8	18.9	20.8	25.6	31.2	32.2
65°	9173.9	4433.6	89.9	58.7	24.6	16.1	16.1	18.9	24.6	30.3	31.2
67.5°	8603.1	3732.2	70.0	46.4	18.9	12.3	13.3	18.0	23.7	30.3	31.2
69°	7608.3	3051.6	59.6	36.9	16.1	11.4	12.3	18.0	23.7	29.3	30.3
70°	6833.1	2576.5	53.0	31.2	14.2	11.4	12.3	17.0	23.7	29.3	30.3
72.5°	4576.5	1391.4	42.6	22.7	13.3	10.4	10.4	17.0	22.7	28.4	29.3
75°	1966.9	384.3	34.1	16.1	11.4	9.5	9.5	16.1	21.8	27.4	29.3
77.5°	359.7	97.5	27.4	14.2	11.4	9.5	8.5	15.1	20.8	26.5	27.4
80°	142.9	48.3	21.8	12.3	10.4	8.5	7.6	14.2	19.9	25.6	26.5
82.5°	86.1	27.4	18.0	11.4	10.4	7.6	6.6	12.3	18.9	24.6	25.6
85°	70.0	18.9	14.2	11.4	9.5	7.6	5.7	11.4	17.0	23.7	24.6
87.5°	34.1	13.3	13.3	10.4	9.5	7.6	5.7	10.4	16.1	22.7	23.7
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)