

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: P191235

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-SL4-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26964 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

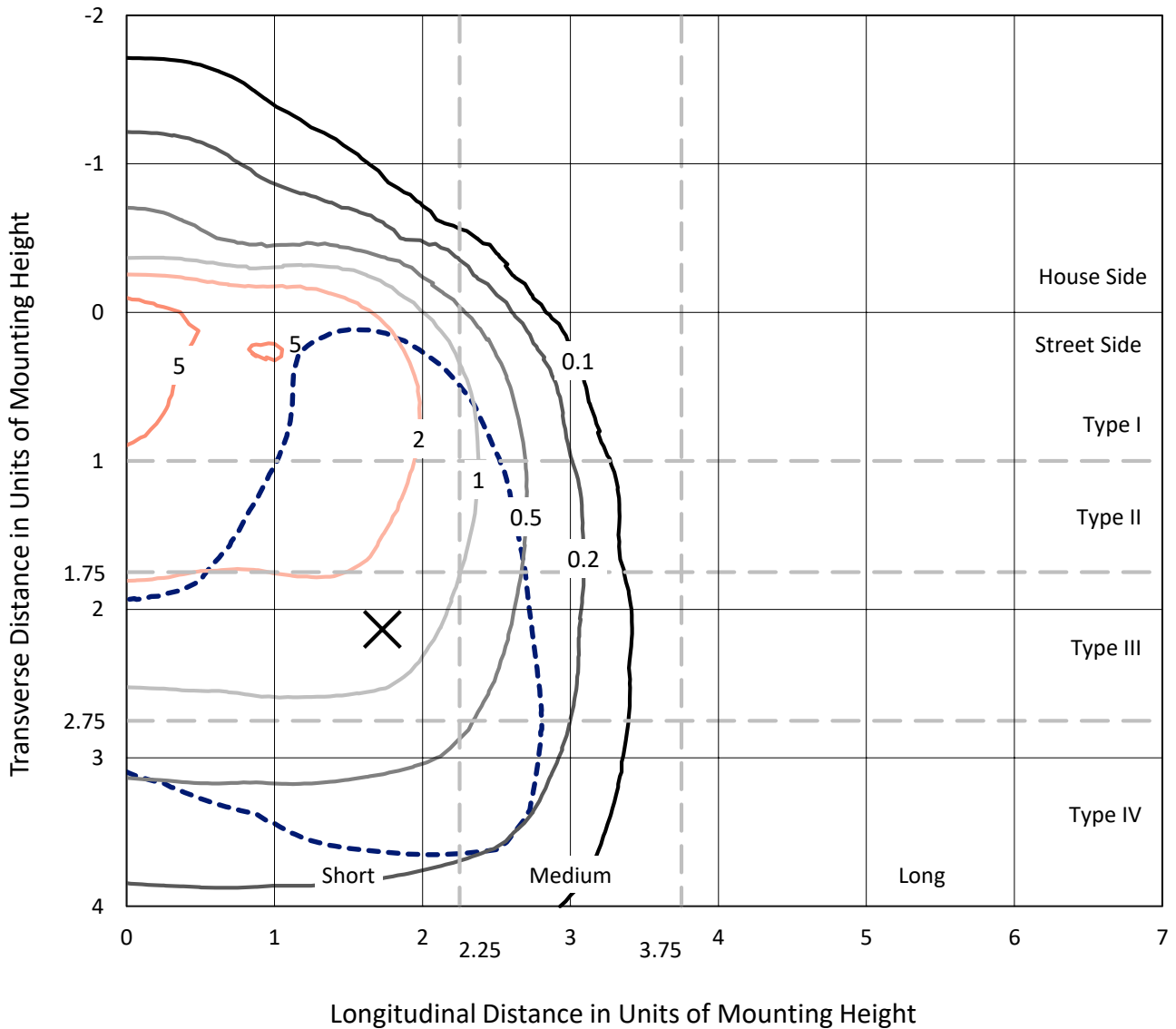
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

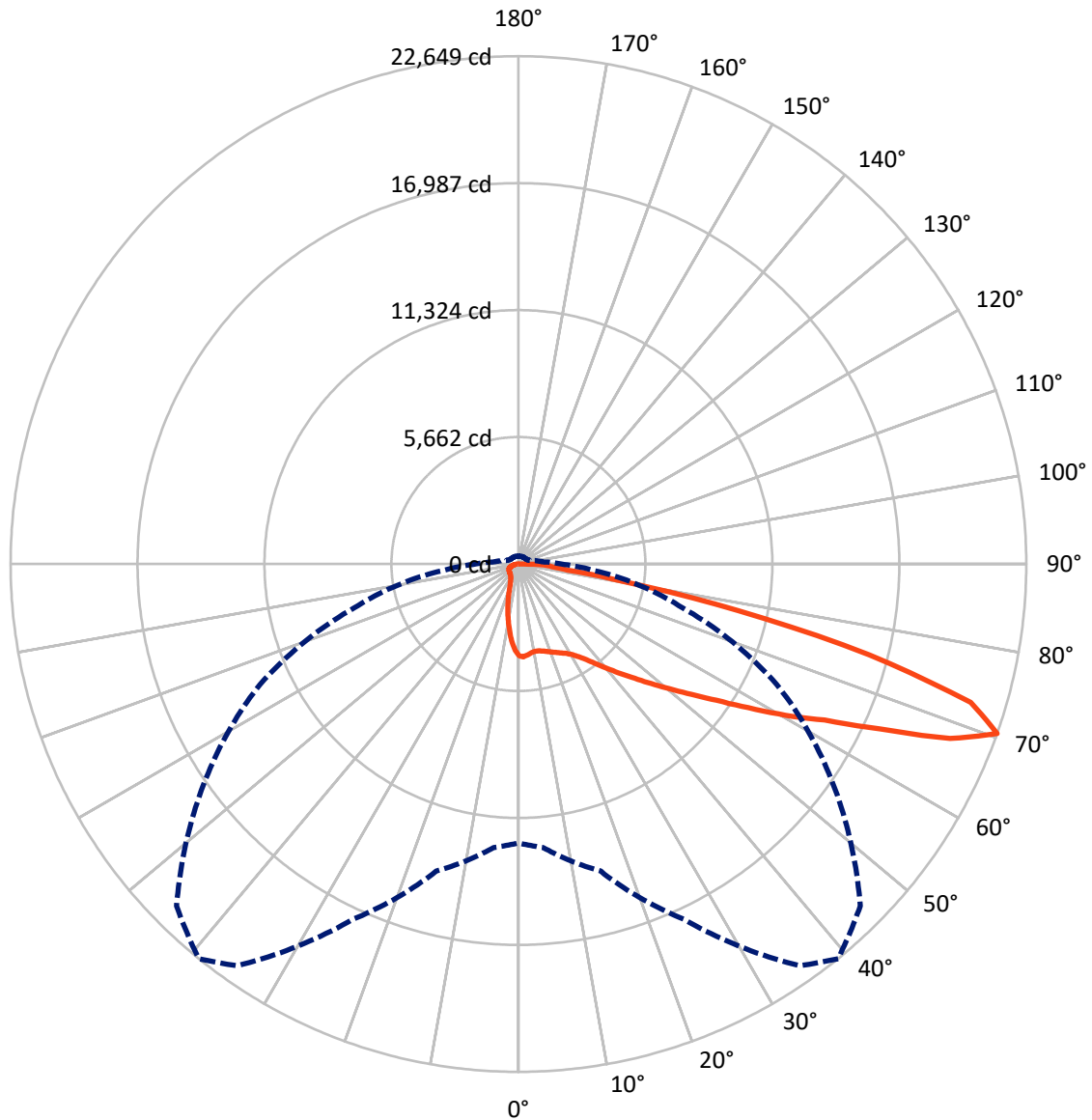
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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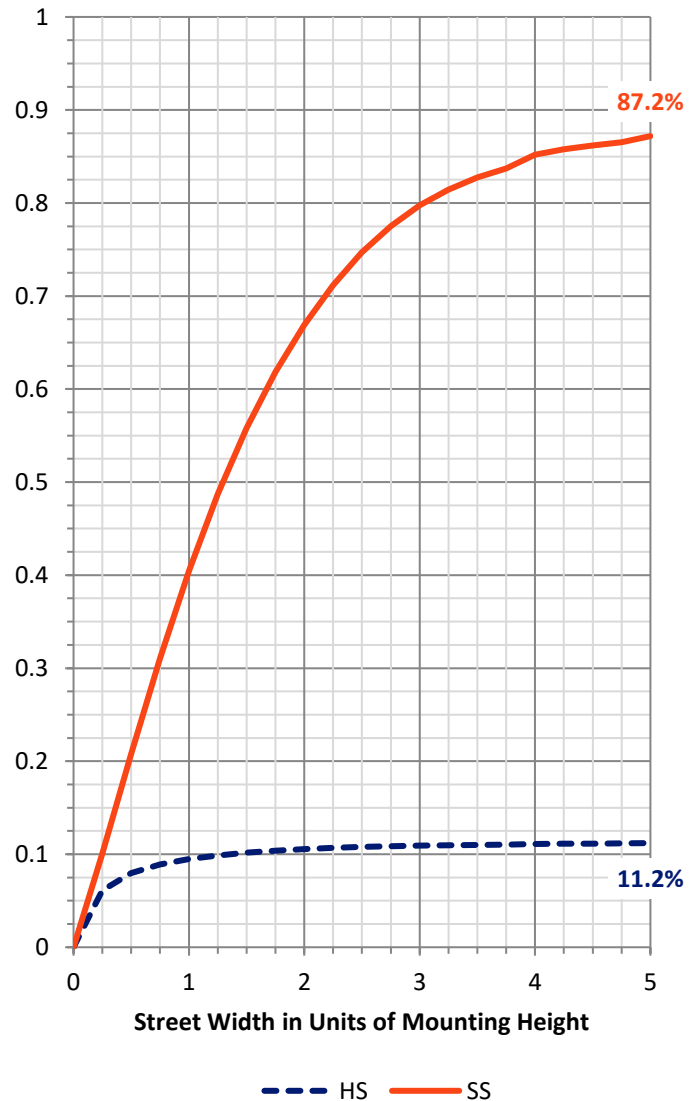
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3066.7	0.0	3066.7
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	23897.3	0.0	23897.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	26964.0	0.0	26964.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.3	1.3
10°-20°	878.1	3.3
20°-30°	1367.3	5.1
30°-40°	2130.0	7.9
40°-50°	3575.8	13.3
50°-60°	5680.5	21.1
60°-70°	7577.2	28.1
70°-80°	4575.7	17.0
80°-90°	828.1	3.1
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°	26964.0	100.0
0°-180°	26964.0	100.0



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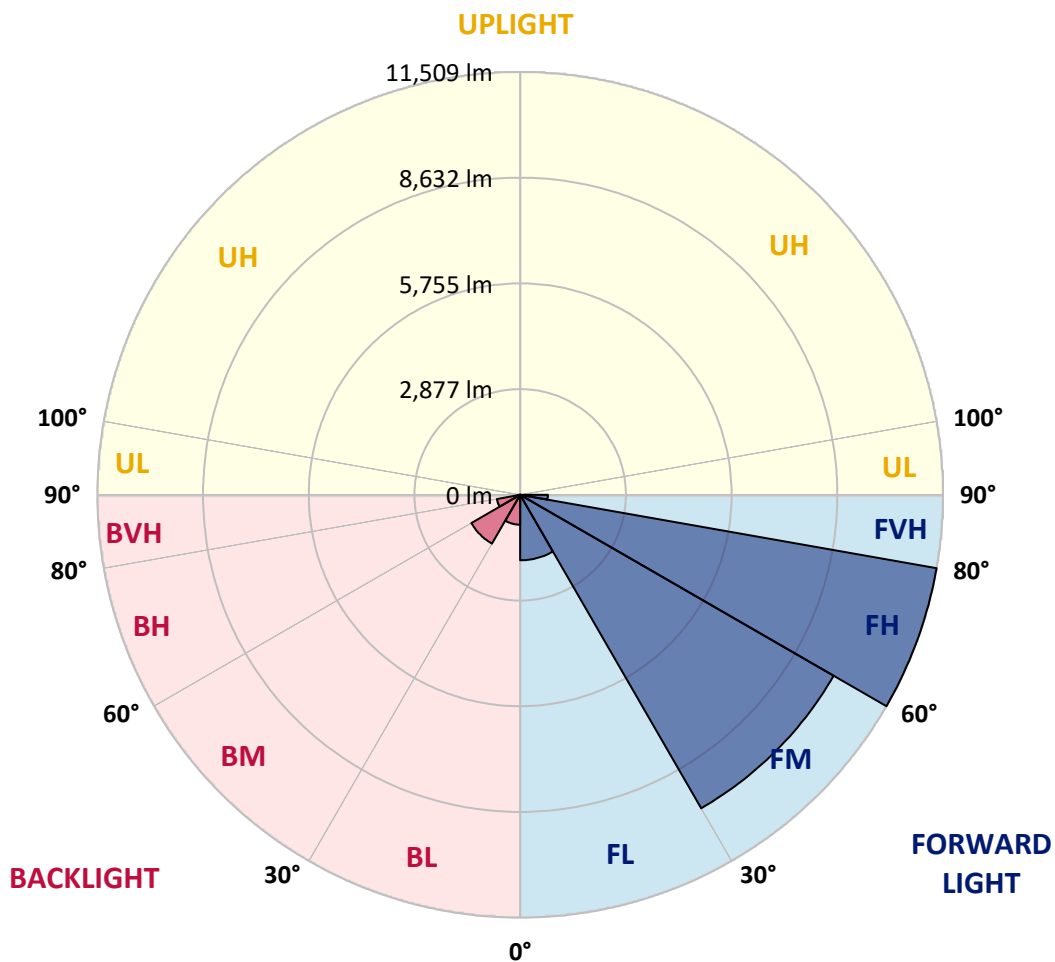
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1783.2	6.6			
FM	(30°-60°)	9851.6	36.5			
FH	(60°-80°)	11509.0	42.7			G4/12000
FVH	(80°-90°)	753.5	2.8			G5
BL	(0°-30°)	813.5	3.0	B2/1000		
BM	(30°-60°)	1534.7	5.7	B2/2500		
BH	(60°-80°)	643.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	74.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5
2.5°	4173.0	4171.7	4160.8	4152.5	4145.6	4143.0	4148.4	4127.8	4110.0	4088.0	4064.8
5°	4141.5	4140.2	4122.3	4105.9	4089.5	4083.9	4082.6	4045.6	4023.7	3990.7	3946.9
7.5°	4107.2	4100.4	4077.1	4049.7	4020.9	4007.2	3993.5	3945.5	3920.8	3887.9	3837.2
10°	4071.7	4063.4	4041.5	4014.1	3986.6	3966.1	3942.8	3896.1	3870.1	3845.4	3786.5
12.5°	4034.6	4027.8	4022.2	4010.0	3990.7	3972.9	3955.0	3915.3	3887.9	3859.1	3790.5
15°	4029.1	4026.3	4038.7	4046.9	4036.0	4025.0	4005.8	3971.5	3942.8	3913.9	3824.8
17.5°	4073.0	4071.7	4103.2	4125.0	4119.6	4100.4	4074.3	4036.0	4012.6	3988.0	3877.0
20°	4168.9	4175.8	4214.1	4243.0	4215.6	4188.2	4145.6	4092.2	4079.8	4068.9	3930.4
22.5°	4349.9	4356.7	4384.2	4395.1	4323.9	4284.1	4225.2	4156.7	4148.4	4156.7	3994.8
25°	4632.3	4625.5	4621.4	4580.3	4449.9	4388.3	4312.9	4241.6	4245.8	4282.7	4085.4
27.5°	5006.5	4969.6	4912.0	4788.6	4581.6	4513.1	4421.2	4355.4	4381.4	4452.7	4221.0
30°	5394.5	5353.4	5220.4	5018.9	4754.4	4679.0	4576.1	4502.1	4570.6	4683.1	4402.0
32.5°	5753.7	5748.3	5553.6	5294.5	4992.8	4927.0	4824.2	4740.7	4851.7	5023.0	4673.5
35°	6145.8	6158.2	5925.1	5613.9	5315.0	5246.5	5172.4	5109.4	5257.5	5493.2	5066.9
37.5°	6565.3	6590.0	6314.5	5963.5	5682.4	5653.6	5609.8	5582.3	5811.3	6137.6	5616.6
40°	7126.0	7101.3	6718.8	6358.3	6133.5	6132.1	6118.4	6151.3	6532.4	6979.3	6322.7
42.5°	7726.4	7653.8	7148.0	6781.9	6628.4	6675.0	6702.4	6836.8	7400.2	8002.0	7183.6
45°	8373.6	8210.4	7593.5	7230.2	7178.1	7276.8	7370.1	7662.0	8421.5	9165.9	8126.7
47.5°	8890.4	8732.7	8054.1	7700.5	7814.2	7963.7	8143.2	8605.3	9564.9	10368.2	9057.6
50°	9297.5	9194.7	8518.8	8248.8	8514.7	8745.1	9038.4	9673.1	10754.8	11539.0	9920.0
52.5°	9692.4	9615.6	8987.7	8810.9	9337.3	9655.3	10054.3	10819.2	11975.0	12690.5	10645.1
55°	10048.8	9993.9	9492.2	9511.4	10305.1	10719.2	11221.0	12124.3	13304.7	13717.4	11259.3
57.5°	10450.5	10380.6	10068.0	10390.1	11548.6	12086.0	12738.5	13591.2	14552.3	14630.3	11726.8
60°	10854.9	10794.6	10706.8	11404.7	13127.8	13692.7	14311.0	15012.8	15817.6	15339.1	11699.4
62.5°	11205.8	11212.7	11367.6	12469.9	14674.2	15328.2	16082.2	16775.9	16962.3	15462.5	10834.4
65°	11800.9	11909.1	12371.2	13977.8	16851.3	17725.9	18651.3	18540.3	17279.0	14309.5	8979.5
67.5°	12508.2	12698.8	13635.1	15987.6	19602.7	20763.9	21121.7	18939.2	16010.9	11632.2	6400.8
70°	12436.9	12698.8	14180.8	17486.0	21870.2	22648.8	21563.1	17140.6	12713.8	7599.0	3399.9
72.5°	11044.1	11418.4	13068.9	16799.2	21156.0	21087.4	18719.8	12778.3	7553.8	3051.7	1328.4
75°	8417.5	8795.7	10216.0	13271.8	16721.1	16145.2	13282.8	7058.9	2866.6	1211.9	837.6
77.5°	4842.0	5135.4	6232.1	8139.1	10608.1	10017.2	7393.4	3139.4	1395.6	844.4	654.0
80°	2703.5	2866.6	3532.9	4129.1	5198.5	4765.3	3308.0	1950.8	1041.9	612.7	504.5
82.5°	2137.3	2282.6	2857.0	2604.7	2374.4	2190.8	1900.1	1737.0	832.2	386.6	301.6
85°	1867.2	2005.6	2418.3	2050.9	1621.8	1487.5	1543.6	1709.6	647.1	233.0	257.7
87.5°	1730.1	1915.2	2155.1	1580.7	1262.6	1118.7	1424.4	1874.0	208.4	145.4	104.2
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°	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5	4093.5
2.5°	4044.2	4022.2	3986.6	3955.0	3905.7	3879.6	3850.9	3830.3	3813.9	3800.2	3822.2
5°	3919.4	3878.3	3802.9	3722.0	3626.1	3550.7	3487.6	3428.6	3387.5	3360.1	3379.3
7.5°	3801.6	3734.4	3616.4	3469.7	3305.3	3165.4	3050.2	2948.9	2878.9	2833.7	2851.5
10°	3734.4	3650.7	3468.4	3238.0	2995.4	2777.5	2596.6	2440.2	2331.9	2270.2	2279.9
12.5°	3717.9	3609.6	3357.3	3040.7	2708.9	2406.0	2151.0	1934.4	1782.2	1702.7	1705.5
15°	3730.3	3591.8	3253.2	2851.5	2432.0	2049.5	1731.4	1468.2	1291.4	1200.9	1199.5
17.5°	3750.9	3578.1	3143.5	2647.2	2151.0	1706.8	1351.7	1093.9	937.7	865.0	859.6
20°	3772.7	3556.2	3020.2	2426.5	1859.0	1388.8	1058.3	856.8	758.1	718.3	715.7
22.5°	3804.3	3537.0	2892.6	2193.4	1572.5	1131.0	870.5	734.8	682.7	662.2	659.4
25°	3855.0	3527.3	2757.0	1950.8	1314.7	945.9	758.1	674.5	644.4	630.6	629.2
27.5°	3940.0	3541.0	2629.4	1715.0	1105.0	821.2	695.1	644.4	622.4	610.1	608.7
30°	4049.7	3583.6	2495.1	1491.6	941.8	736.2	656.6	623.8	605.9	593.6	593.6
32.5°	4232.0	3654.9	2353.8	1298.2	825.3	677.2	627.9	605.9	590.9	581.2	579.9
35°	4500.7	3789.2	2222.3	1137.8	741.6	634.7	603.2	586.8	575.8	570.3	570.3
37.5°	4891.4	4001.7	2105.7	1022.7	690.9	605.9	579.9	567.5	560.7	560.7	560.7
40°	5416.5	4295.1	2011.1	945.9	662.2	585.3	562.1	552.5	548.4	549.7	549.7
42.5°	6064.9	4676.2	1948.1	892.4	648.4	573.1	549.7	541.6	537.4	536.0	537.4
45°	6803.9	5109.4	1941.3	852.7	634.7	564.8	541.6	533.3	525.1	519.6	519.6
47.5°	7522.2	5549.5	1997.4	839.0	619.7	555.3	534.7	526.4	514.1	501.8	501.8
50°	8156.9	5923.7	2072.8	844.4	614.2	541.6	523.6	519.6	500.4	486.7	485.3
52.5°	8661.4	6211.6	2134.5	860.9	619.7	531.9	509.9	511.4	490.8	475.7	474.3
55°	9065.8	6400.8	2118.0	877.4	632.0	526.4	497.7	500.4	484.0	468.8	468.8
57.5°	9242.7	6330.8	1935.7	863.7	641.6	527.8	488.0	499.0	485.3	471.6	471.6
60°	8862.9	5709.8	1594.4	803.3	629.2	523.6	484.0	504.5	503.1	489.4	488.0
62.5°	7714.2	4598.1	1236.5	714.2	586.8	503.1	473.0	503.1	518.2	514.1	512.7
65°	5945.7	3275.1	944.6	618.3	529.2	468.8	444.2	471.6	492.1	497.7	496.2
67.5°	3859.1	2007.0	727.9	527.8	464.7	429.1	407.1	419.5	423.6	423.6	420.8
70°	1897.4	1080.2	579.9	444.2	399.0	386.6	374.3	367.4	360.6	355.1	355.1
72.5°	936.3	706.0	477.1	375.6	344.1	338.6	335.8	327.7	322.1	315.3	312.6
75°	692.3	574.4	405.8	316.7	296.1	290.6	296.1	289.3	287.9	282.4	279.7
77.5°	569.0	489.4	349.5	271.5	253.6	244.0	252.3	253.6	255.0	246.7	244.0
80°	462.0	414.0	292.1	224.8	208.4	201.5	207.0	218.0	220.8	208.4	202.9
82.5°	333.2	338.6	235.8	175.4	161.7	156.3	167.3	181.0	183.7	165.9	161.7
85°	279.7	282.4	181.0	124.8	111.1	102.8	120.6	134.3	143.9	126.1	122.0
87.5°	116.5	165.9	104.2	69.9	61.7	53.5	64.4	71.3	86.3	79.5	78.2
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)