

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: P193602

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17803 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 258
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

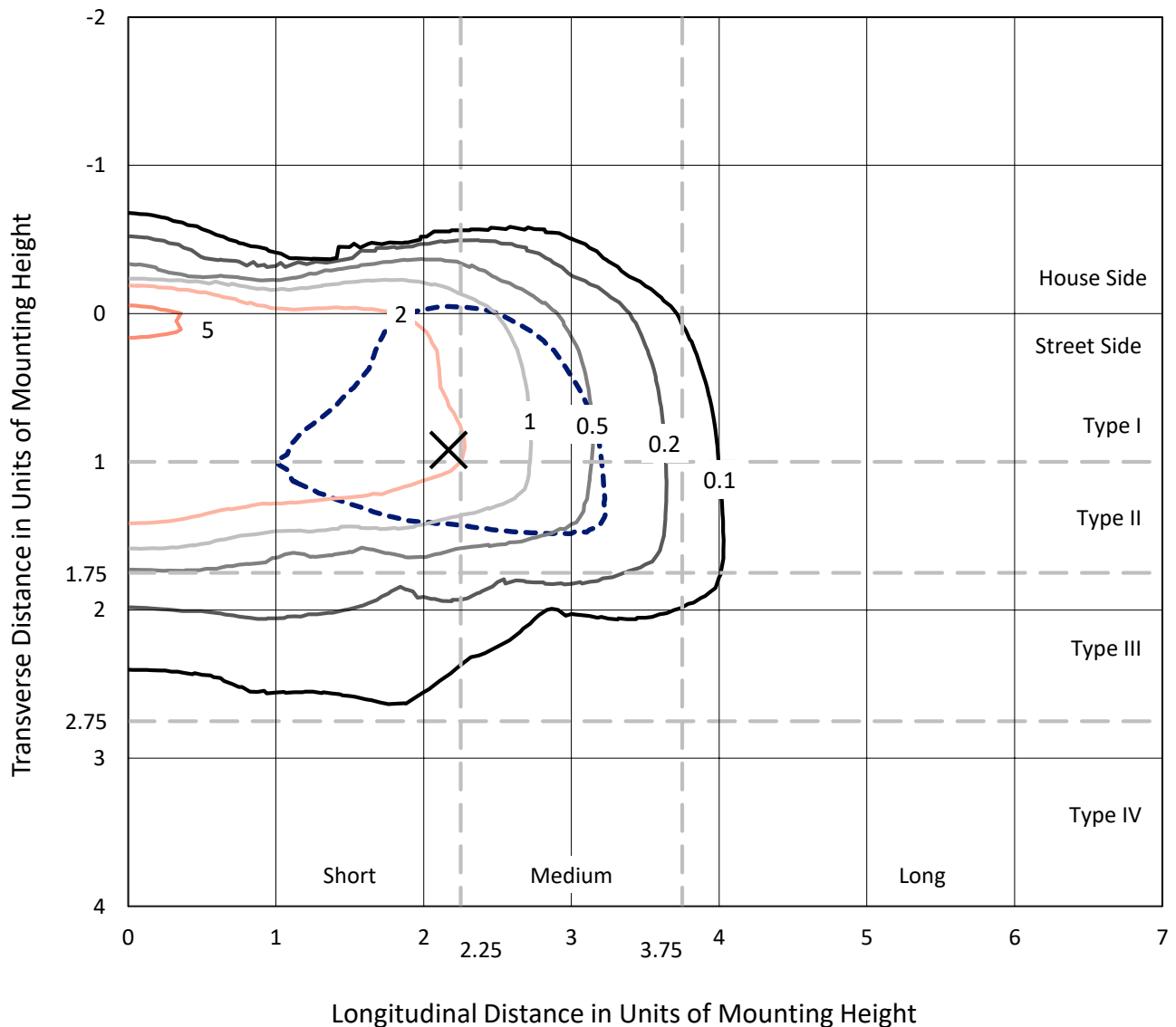


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Iso-Footcandle Lines of Horizontal Illumination

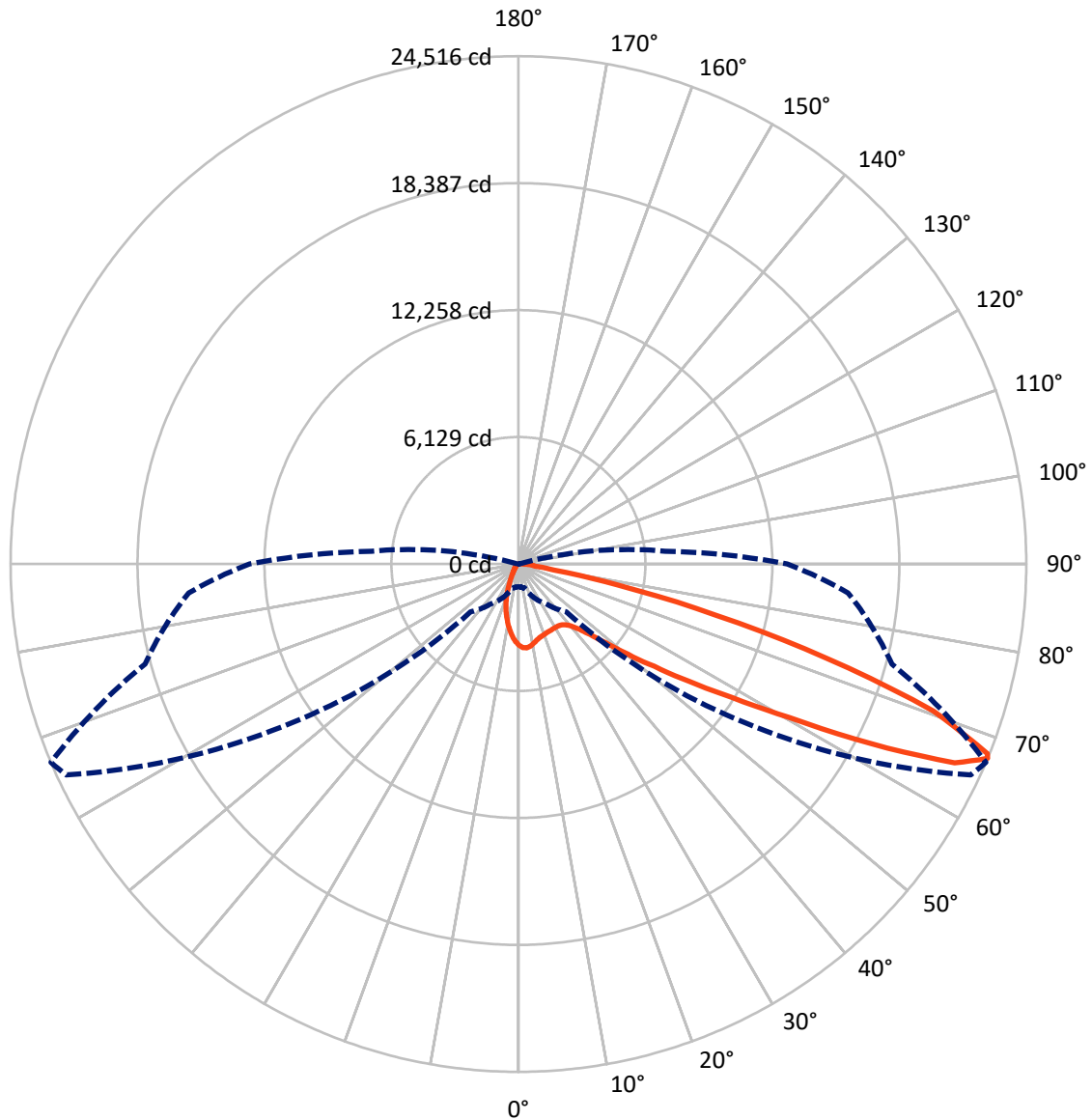
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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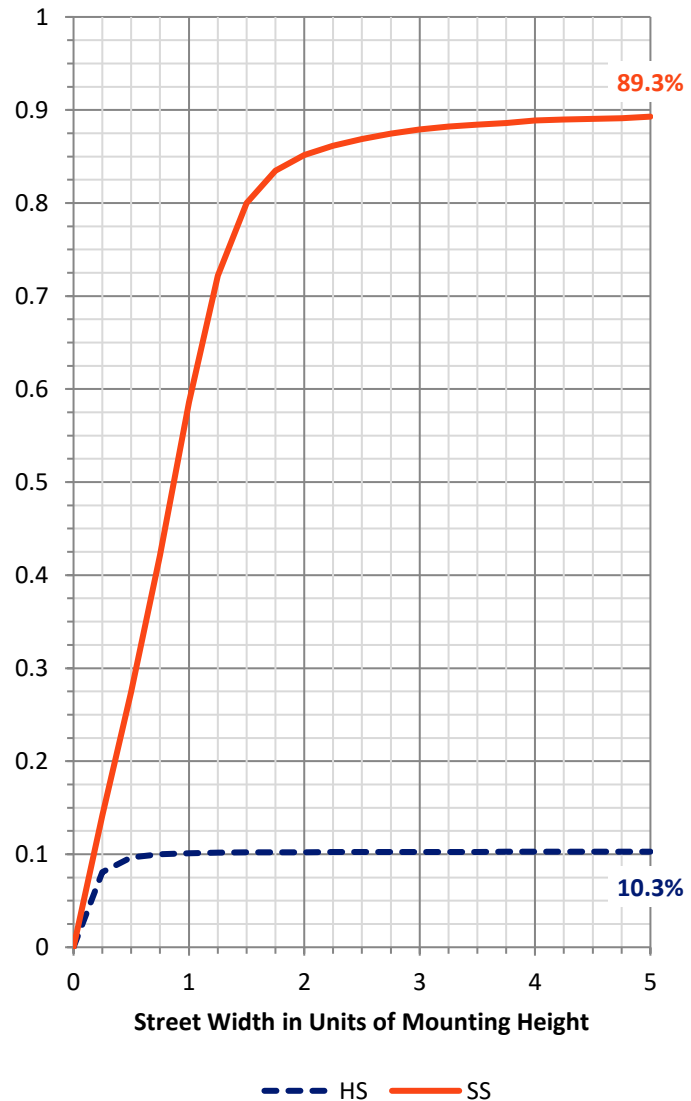
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.5	0.0	1848.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15954.5	0.0	15954.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	17803.0	0.0	17803.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	1.8
10°-20°	680.0	3.8
20°-30°	988.6	5.6
30°-40°	1542.2	8.7
40°-50°	2732.0	15.3
50°-60°	4323.1	24.3
60°-70°	4951.6	27.8
70°-80°	2053.9	11.5
80°-90°	212.2	1.2
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°	17803.0	100.0
0°-180°	17803.0	100.0



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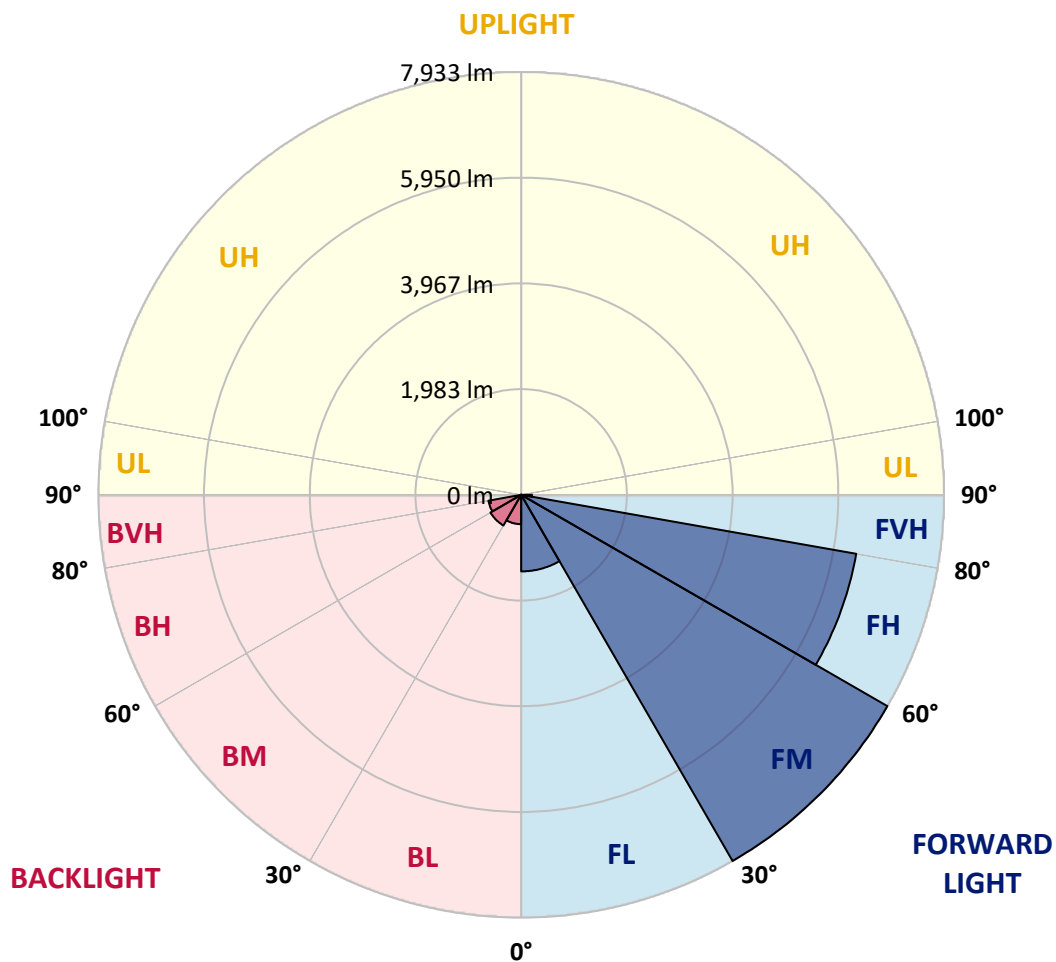
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.4	8.1			
FM (30°-60°)	7933.1	44.6			
FH (60°-80°)	6382.4	35.9			G3/7500
FVH (80°-90°)	202.6	1.1			G2/225
BL (0°-30°)	551.6	3.1	B2/1000		
BM (30°-60°)	664.3	3.7	B1/1000		
BH (60°-80°)	623.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	9.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2
2.5°	4059.1	4067.4	4066.4	4072.6	4087.2	4088.2	4073.7	4045.6	4039.4	4003.1	3939.7
5°	3743.5	3767.3	3781.9	3841.1	3907.5	3987.5	4047.7	4069.5	4066.4	4040.4	3944.9
7.5°	3383.1	3407.0	3423.6	3493.2	3581.5	3718.5	3875.3	4004.1	4015.5	4043.6	3940.8
10°	3143.3	3147.4	3170.3	3236.7	3329.1	3469.3	3656.2	3881.6	3915.8	4018.6	3930.4
12.5°	2946.0	2949.1	2979.2	3050.8	3149.5	3290.7	3487.0	3747.6	3800.6	3987.5	3928.3
15°	2805.8	2817.2	2844.2	2919.0	3023.8	3164.0	3365.5	3649.0	3712.3	3976.1	3947.0
17.5°	2759.0	2771.5	2779.8	2833.8	2929.3	3066.4	3273.1	3584.6	3656.2	3982.3	3983.3
20°	2807.9	2817.2	2798.5	2812.0	2871.2	2993.7	3195.2	3529.5	3614.7	3989.6	4030.1
22.5°	2989.6	2993.7	2942.8	2883.7	2873.3	2940.8	3133.9	3485.9	3577.3	4009.3	4085.1
25°	3301.1	3293.8	3210.8	3083.0	2962.6	2931.4	3097.6	3458.9	3558.6	4030.1	4142.2
27.5°	3677.0	3687.4	3573.2	3387.3	3157.8	2993.7	3092.4	3447.5	3550.3	4044.6	4192.1
30°	4133.9	4148.4	4017.6	3784.0	3454.8	3147.4	3140.1	3445.4	3545.1	4035.3	4196.2
32.5°	4600.1	4617.8	4515.0	4274.1	3851.5	3404.9	3248.1	3468.3	3555.5	4003.1	4172.3
35°	5088.2	5113.1	5044.6	4837.9	4389.3	3776.7	3438.2	3537.9	3604.3	3999.9	4148.4
37.5°	5762.1	5785.0	5656.2	5437.1	5040.4	4275.1	3743.5	3668.7	3719.6	4049.8	4154.7
40°	6768.3	6765.2	6432.9	6097.5	5755.9	4908.6	4172.3	3905.5	3931.4	4200.4	4231.5
42.5°	7864.9	7859.7	7368.5	6858.7	6550.3	5688.4	4736.2	4314.6	4296.9	4477.6	4430.9
45°	8710.2	8709.1	8308.3	7734.1	7506.6	6583.5	5465.1	4883.6	4856.6	4928.3	4798.5
47.5°	9070.5	9076.7	8875.3	8471.3	8566.9	7794.3	6384.1	5708.1	5667.6	5638.6	5441.3
50°	8790.1	8802.6	8819.2	8740.3	9344.6	9421.5	7616.7	6870.1	6850.4	6720.6	6412.2
52.5°	7874.2	7937.6	8132.8	8383.1	9614.6	10983.2	9549.2	8313.5	8207.6	8069.5	7729.9
55°	6331.2	6400.7	6771.5	7378.9	9212.8	12009.2	12257.4	10174.3	9997.8	9585.5	9095.4
57.5°	4190.0	4298.0	4835.9	5608.4	8045.6	12174.3	14959.3	12756.8	12142.1	11013.4	10460.9
60°	2308.4	2412.2	2995.8	3695.7	5810.9	11358.1	16776.5	16119.2	15033.0	12609.4	12119.3
62.5°	1421.6	1477.7	1908.6	2559.7	3484.9	8964.6	17152.4	20344.5	19087.0	14664.4	14122.3
65°	1131.9	1155.7	1366.5	2092.4	2498.4	5332.2	15938.5	23565.6	23146.1	17152.4	15915.7
67°	1098.6	1108.0	1207.7	1796.4	2355.1	3268.9	13352.9	24090.0	24515.8	18658.1	15971.7
67.5°	1105.9	1116.3	1210.8	1714.4	2351.0	3004.1	12461.9	23883.4	24421.3	18777.5	15723.6
70°	1066.4	1098.6	1386.3	1713.4	2235.7	2496.3	7463.0	20693.4	21253.1	17447.3	13341.5
72.5°	378.0	380.1	599.2	1386.3	2430.9	2523.3	3747.6	15170.1	15584.4	13346.7	9618.8
75°	224.3	191.1	199.4	394.6	2322.9	2450.6	2162.0	9693.5	9848.3	7647.9	4871.2
77.5°	154.7	135.0	139.1	174.5	884.7	2416.4	1717.5	5055.0	4889.9	2682.2	1037.4
80°	88.3	77.9	83.1	152.6	321.9	2254.4	1619.9	2049.8	1747.6	454.8	286.6
82.5°	46.7	39.5	47.8	125.6	224.3	1405.0	1623.0	990.6	785.0	153.7	195.2
85°	16.6	13.5	22.8	86.2	149.5	430.9	1504.7	832.8	654.2	74.8	148.5
87.5°	3.1	3.1	9.3	35.3	60.2	131.9	889.9	494.3	331.3	44.7	101.8
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°	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2
2.5°	3913.8	3869.1	3808.9	3735.2	3647.9	3571.1	3514.0	3454.8	3442.3	3421.6	3418.4
5°	3887.8	3811.0	3661.4	3490.1	3307.3	3142.2	3008.3	2888.8	2835.9	2790.2	2785.0
7.5°	3849.4	3734.1	3479.7	3203.5	2917.9	2658.3	2438.2	2282.4	2139.1	2070.6	2060.2
10°	3804.7	3639.6	3275.1	2892.0	2497.4	2130.8	1803.7	1529.6	1363.4	1264.8	1252.3
12.5°	3763.2	3547.2	3066.4	2569.0	2044.6	1554.5	1133.9	872.3	697.8	627.2	618.9
15°	3743.5	3472.4	2871.2	2238.8	1571.1	989.6	619.9	479.7	422.6	406.0	405.0
17.5°	3741.4	3409.1	2680.1	1897.2	1100.7	575.3	403.9	368.6	357.2	353.1	353.1
20°	3740.3	3348.9	2489.1	1543.1	698.8	383.2	336.4	328.1	319.8	314.6	314.6
22.5°	3751.8	3294.9	2289.7	1181.7	440.3	310.5	295.9	287.6	277.3	270.0	268.9
25°	3763.2	3253.3	2086.2	841.1	318.8	270.0	255.4	244.0	229.5	220.1	219.1
27.5°	3765.3	3201.4	1868.1	562.8	266.9	235.7	217.0	199.4	182.8	173.4	172.4
30°	3734.1	3114.2	1626.1	380.1	235.7	204.6	179.6	161.0	145.4	138.1	138.1
32.5°	3672.8	3006.2	1360.3	286.6	209.8	175.5	148.5	130.8	120.5	117.3	116.3
35°	3617.8	2889.9	1087.2	243.0	188.0	148.5	121.5	110.1	103.8	102.8	101.8
37.5°	3585.6	2796.4	830.7	220.1	167.2	124.6	102.8	94.5	91.4	89.3	90.3
40°	3610.5	2718.6	613.7	201.5	146.4	103.8	87.2	83.1	80.0	78.9	78.9
42.5°	3719.6	2705.1	455.9	184.8	126.7	86.2	75.8	72.7	70.6	69.6	70.6
45°	4006.2	2788.1	354.1	169.3	107.0	72.7	64.4	63.3	62.3	62.3	62.3
47.5°	4437.1	2959.5	294.9	151.6	89.3	62.3	56.1	55.0	54.0	55.0	55.0
50°	5167.1	3273.1	263.8	134.0	73.7	53.0	47.8	47.8	47.8	47.8	48.8
52.5°	6277.2	3889.9	243.0	116.3	60.2	44.7	40.5	40.5	41.5	41.5	42.6
55°	7513.9	4708.1	224.3	98.6	50.9	37.4	33.2	34.3	35.3	36.3	36.3
57.5°	8855.5	5614.7	208.7	81.0	43.6	30.1	28.0	29.1	30.1	32.2	32.2
60°	10474.4	6596.0	185.9	63.3	36.3	23.9	21.8	23.9	27.0	29.1	30.1
62.5°	12252.2	7545.1	156.8	49.8	30.1	18.7	17.7	21.8	26.0	28.0	29.1
65°	13467.1	7843.1	120.5	40.5	22.8	13.5	14.5	19.7	24.9	28.0	28.0
67°	12974.9	7111.0	98.6	34.3	18.7	10.4	13.5	19.7	24.9	27.0	28.0
67.5°	12633.3	6824.4	94.5	33.2	17.7	10.4	13.5	19.7	24.9	28.0	28.0
70°	10279.2	5126.6	78.9	24.9	14.5	9.3	11.4	18.7	23.9	27.0	27.0
72.5°	7142.2	3160.9	70.6	17.7	12.5	8.3	10.4	17.7	22.8	26.0	27.0
75°	3395.6	1144.3	60.2	13.5	11.4	7.3	9.3	17.7	22.8	26.0	26.0
77.5°	692.6	265.8	48.8	11.4	9.3	7.3	8.3	16.6	21.8	24.9	24.9
80°	227.4	102.8	36.3	10.4	9.3	7.3	8.3	15.6	21.8	23.9	24.9
82.5°	164.1	51.9	23.9	10.4	9.3	7.3	7.3	15.6	20.8	23.9	23.9
85°	125.6	36.3	15.6	10.4	9.3	7.3	7.3	14.5	19.7	22.8	22.8
87.5°	83.1	14.5	12.5	10.4	9.3	7.3	7.3	14.5	18.7	21.8	22.8
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)