

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: P319797

Luminaire Tested: **GLEON-SA3B-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA 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: 12826 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

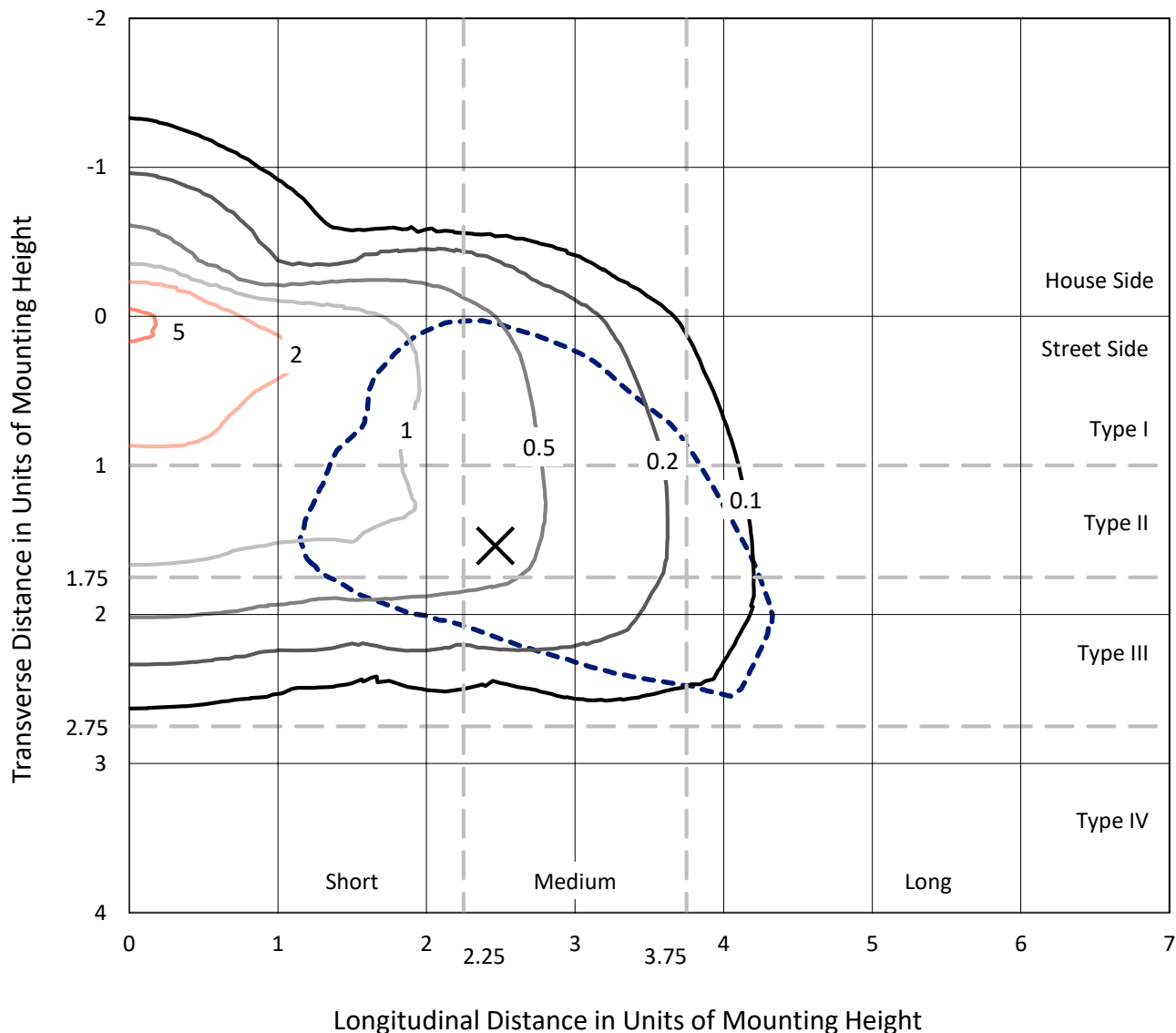
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

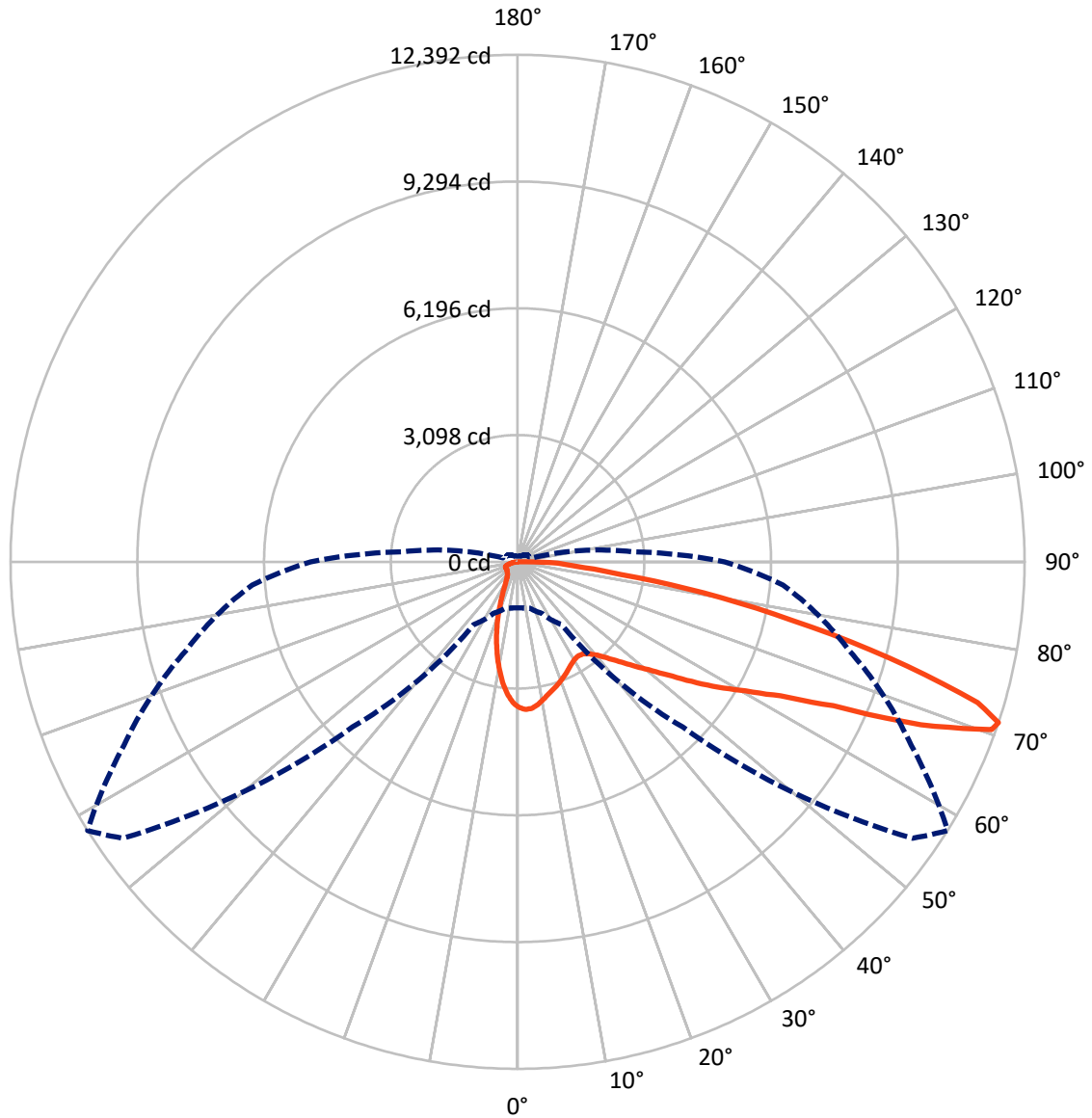
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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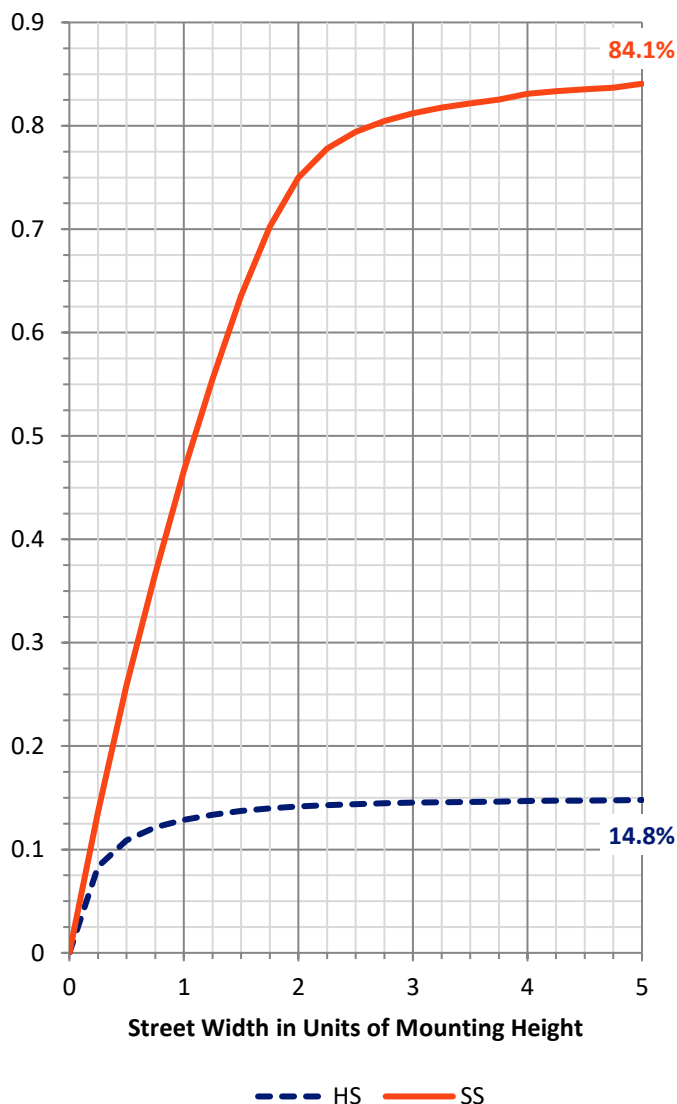
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1917.6	0.0	1917.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	10908.4	0.0	10908.4
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	12826.0	0.0	12826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.6	2.4
10°-20°	681.7	5.3
20°-30°	866.4	6.8
30°-40°	1103.6	8.6
40°-50°	1564.9	12.2
50°-60°	2421.8	18.9
60°-70°	3297.0	25.7
70°-80°	2199.5	17.1
80°-90°	384.5	3.0
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°	12826.0	100.0
0°-180°	12826.0	100.0

**Coefficient of Utilization**

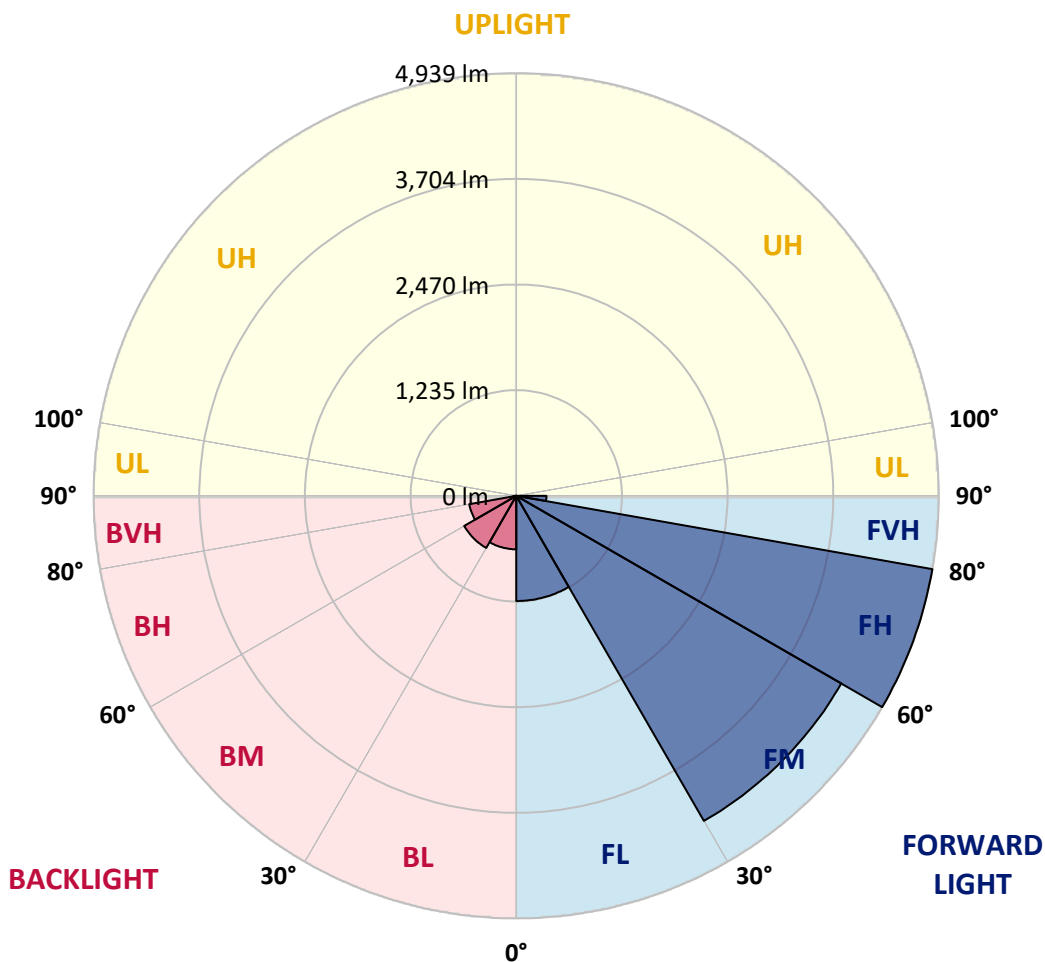


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.6	9.6			
FM (30°-60°)	4387.1	34.2			
FH (60°-80°)	4939.1	38.5			G2/5000
FVH (80°-90°)	352.6	2.7			G3/500
BL (0°-30°)	625.1	4.9	B2/1000		
BM (30°-60°)	703.2	5.5	B1/1000		
BH (60°-80°)	557.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.9	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°	58°	65°	75°	85°
0°	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7
2.5°	3647.9	3643.0	3644.8	3641.2	3632.7	3624.3	3611.7	3614.0	3596.5	3570.6	3538.5
5°	3579.1	3577.3	3590.7	3598.3	3604.6	3599.7	3596.1	3600.6	3575.1	3539.4	3483.5
7.5°	3434.8	3415.2	3432.1	3457.6	3481.7	3500.0	3524.2	3527.3	3511.2	3473.7	3400.4
10°	3229.7	3211.0	3236.0	3275.8	3324.0	3367.8	3416.5	3425.4	3428.6	3394.6	3305.7
12.5°	3017.1	3002.8	3027.8	3083.7	3163.6	3231.1	3308.8	3322.2	3349.9	3327.1	3218.1
15°	2826.8	2821.4	2851.8	2906.7	2998.8	3102.0	3214.1	3238.7	3285.6	3278.0	3149.8
17.5°	2662.3	2661.0	2684.2	2741.9	2843.7	2974.2	3119.8	3161.4	3231.1	3240.0	3093.5
20°	2539.9	2537.2	2553.3	2595.8	2700.8	2848.6	3018.0	3075.2	3175.7	3207.0	3035.4
22.5°	2474.2	2473.8	2474.2	2494.4	2580.1	2717.7	2918.8	2988.5	3121.6	3180.6	2971.1
25°	2463.1	2461.7	2451.9	2449.7	2498.4	2608.3	2820.5	2897.3	3070.2	3162.3	2909.9
27.5°	2492.1	2493.9	2480.9	2460.0	2469.8	2536.3	2735.2	2817.4	3029.1	3158.7	2867.4
30°	2552.4	2551.5	2540.4	2518.5	2499.3	2509.5	2674.4	2756.6	3001.4	3174.3	2838.4
32.5°	2619.0	2623.9	2621.7	2609.6	2581.0	2539.9	2656.1	2736.5	2993.4	3211.9	2825.9
35°	2699.0	2704.3	2720.4	2729.8	2696.3	2630.2	2695.4	2765.1	3016.6	3282.5	2846.0
37.5°	2774.9	2788.8	2833.9	2873.7	2845.1	2771.4	2799.9	2849.5	3088.6	3393.7	2900.0
40°	2862.5	2874.6	2948.3	3032.7	3028.3	2951.9	2968.4	3001.4	3215.4	3553.2	2997.9
42.5°	2948.7	2972.9	3079.6	3199.4	3233.8	3166.3	3192.7	3210.1	3394.2	3764.5	3168.5
45°	3063.5	3089.5	3237.8	3382.1	3462.5	3424.5	3466.5	3473.2	3618.9	4052.3	3416.5
47.5°	3237.3	3266.8	3439.7	3591.2	3714.1	3718.1	3787.3	3784.6	3899.5	4381.5	3728.8
50°	3508.1	3550.5	3692.2	3833.8	3983.0	4066.1	4158.6	4145.6	4235.9	4732.3	4088.5
52.5°	3862.8	3882.5	3987.5	4092.0	4277.4	4463.7	4596.4	4584.8	4617.4	5092.8	4496.8
55°	4230.5	4245.3	4288.6	4345.8	4595.1	4898.9	5179.5	5161.2	5078.5	5467.2	4900.2
57.5°	4561.1	4591.1	4621.0	4644.7	4915.0	5353.7	5775.9	5777.3	5578.9	5871.1	5317.1
60°	4612.5	4638.9	4836.8	5023.6	5462.3	5960.4	6414.4	6401.0	6096.7	6309.4	5781.7
62.5°	4077.3	4136.7	4467.3	4964.1	5989.5	7070.2	7228.8	7212.3	6715.9	6849.5	6322.8
65°	2921.9	2989.4	3388.4	4134.9	5733.9	8293.1	8698.7	8476.2	7560.4	7513.9	6956.3
67.5°	1685.7	1701.8	1874.7	2474.2	4365.9	8357.0	10941.1	10629.7	8871.6	8267.6	7266.4
70°	1246.5	1246.1	1287.2	1522.6	2362.6	6820.5	12007.6	12286.8	10252.2	8515.6	6828.1
71°	1127.2	1128.6	1174.6	1385.9	1871.1	5708.9	11781.0	12392.2	10615.9	8393.1	6510.9
72.5°	964.1	968.6	1032.5	1242.9	1574.0	3937.0	10805.3	11759.6	10788.3	8091.1	6014.5
75°	731.4	741.6	830.1	1047.7	1438.6	1996.6	7930.3	9390.3	9583.8	7139.5	4469.1
77.5°	521.8	533.5	633.5	881.0	1367.6	1504.7	5310.8	6849.5	7052.8	4575.4	2015.9
80°	329.7	343.6	419.1	701.0	1284.9	1428.8	3337.4	4604.0	3845.9	1464.1	512.9
82.5°	193.5	204.2	260.0	457.9	1049.5	1376.1	1963.6	2552.0	1496.7	442.3	233.2
85°	112.1	117.1	162.2	291.7	762.2	1298.8	1442.6	1426.6	649.6	216.2	110.4
87.5°	52.3	58.1	96.1	152.4	423.1	941.4	1140.2	985.1	403.9	101.4	51.8
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°	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7
2.5°	3522.8	3515.2	3483.5	3455.4	3425.9	3387.5	3345.0	3339.7	3313.7	3318.7	3309.7
5°	3453.1	3433.9	3357.5	3288.3	3206.5	3133.2	3053.7	3017.1	2964.4	2960.8	2947.4
7.5°	3353.5	3317.8	3199.4	3068.0	2936.7	2811.6	2687.8	2606.5	2523.4	2488.1	2485.0
10°	3241.4	3180.6	3006.4	2812.0	2622.6	2439.8	2262.9	2132.0	2014.1	1958.2	1956.0
12.5°	3135.0	3045.2	2806.2	2541.7	2282.6	2045.8	1803.2	1631.2	1483.3	1433.7	1412.7
15°	3044.8	2918.3	2611.4	2273.2	1958.7	1629.8	1353.7	1172.8	1036.1	988.7	979.8
17.5°	2957.2	2794.6	2411.7	2002.0	1621.8	1260.4	983.8	849.3	776.5	757.3	756.8
20°	2870.1	2667.3	2203.1	1724.6	1296.1	942.7	756.4	696.1	671.5	669.3	665.7
22.5°	2771.4	2532.3	1983.7	1446.2	1011.5	741.2	642.9	618.8	615.7	623.7	623.7
25°	2678.9	2398.3	1761.2	1173.7	786.8	618.3	574.1	569.2	577.7	592.0	593.3
27.5°	2592.6	2269.2	1544.1	931.5	630.4	544.6	526.3	532.1	547.3	563.8	564.3
30°	2521.6	2147.2	1333.2	734.1	532.6	489.7	486.5	498.2	514.7	527.6	530.8
32.5°	2466.7	2043.1	1129.5	590.2	468.7	448.6	451.2	461.1	471.3	478.5	483.4
35°	2441.2	1953.8	941.4	497.7	428.0	416.8	420.4	425.8	430.2	435.6	439.6
37.5°	2445.7	1884.5	773.4	440.1	400.8	395.0	395.0	395.0	395.0	397.6	398.1
40°	2487.2	1844.7	636.7	403.4	382.4	376.2	371.3	366.8	363.2	365.0	364.1
42.5°	2593.5	1841.2	536.6	380.2	367.7	357.4	347.6	341.3	336.9	338.7	339.6
45°	2774.0	1885.8	469.1	363.7	353.8	338.2	325.7	319.0	315.9	321.7	322.6
47.5°	3007.7	1983.2	428.0	351.6	340.9	320.3	306.9	300.7	301.6	310.1	312.3
50°	3308.8	2141.4	408.4	344.0	332.0	305.1	291.3	285.9	288.6	300.7	303.4
52.5°	3639.4	2369.3	410.6	341.8	326.1	294.0	279.2	273.0	277.4	288.6	290.9
55°	4021.0	2643.1	447.7	344.9	317.7	286.8	269.4	258.7	262.3	272.5	274.3
57.5°	4445.0	2956.8	522.3	344.0	306.9	280.1	259.1	243.0	245.7	252.0	253.8
60°	4886.4	3335.6	638.0	346.7	302.0	272.1	245.3	225.2	224.3	229.6	230.5
62.5°	5416.3	3773.9	770.2	348.5	305.1	261.8	227.0	207.3	204.6	206.0	206.9
65°	5962.2	4091.1	720.7	341.3	315.0	253.3	210.9	189.9	185.0	184.1	184.5
67.5°	5979.2	3751.1	505.3	327.0	319.0	248.9	198.8	175.1	167.1	164.0	163.5
70°	5362.2	3047.5	393.6	311.8	302.9	241.7	187.6	163.1	151.0	146.1	145.6
71°	5061.1	2805.3	373.1	304.3	290.9	234.6	182.7	157.7	145.2	139.8	138.9
72.5°	4588.8	2514.9	348.0	292.2	267.6	216.2	173.3	150.1	137.2	130.9	129.6
75°	3293.2	1644.6	298.9	260.5	221.6	172.5	151.9	134.9	123.8	116.2	115.3
77.5°	1268.8	654.5	226.1	216.7	169.8	134.9	125.1	116.6	108.6	101.0	100.5
80°	392.3	292.6	164.9	163.1	122.9	100.5	97.4	95.2	92.0	84.0	82.2
82.5°	209.5	168.0	113.5	105.4	80.4	67.0	70.6	71.5	71.9	63.4	62.5
85°	100.1	88.9	63.9	59.9	46.9	37.5	43.3	46.9	47.4	38.9	36.2
87.5°	47.8	46.5	29.9	22.8	17.4	12.5	15.2	18.8	20.6	14.7	13.0
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)