

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: P318511

Luminaire Tested: **GLEON-SA7A-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7A-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24237 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

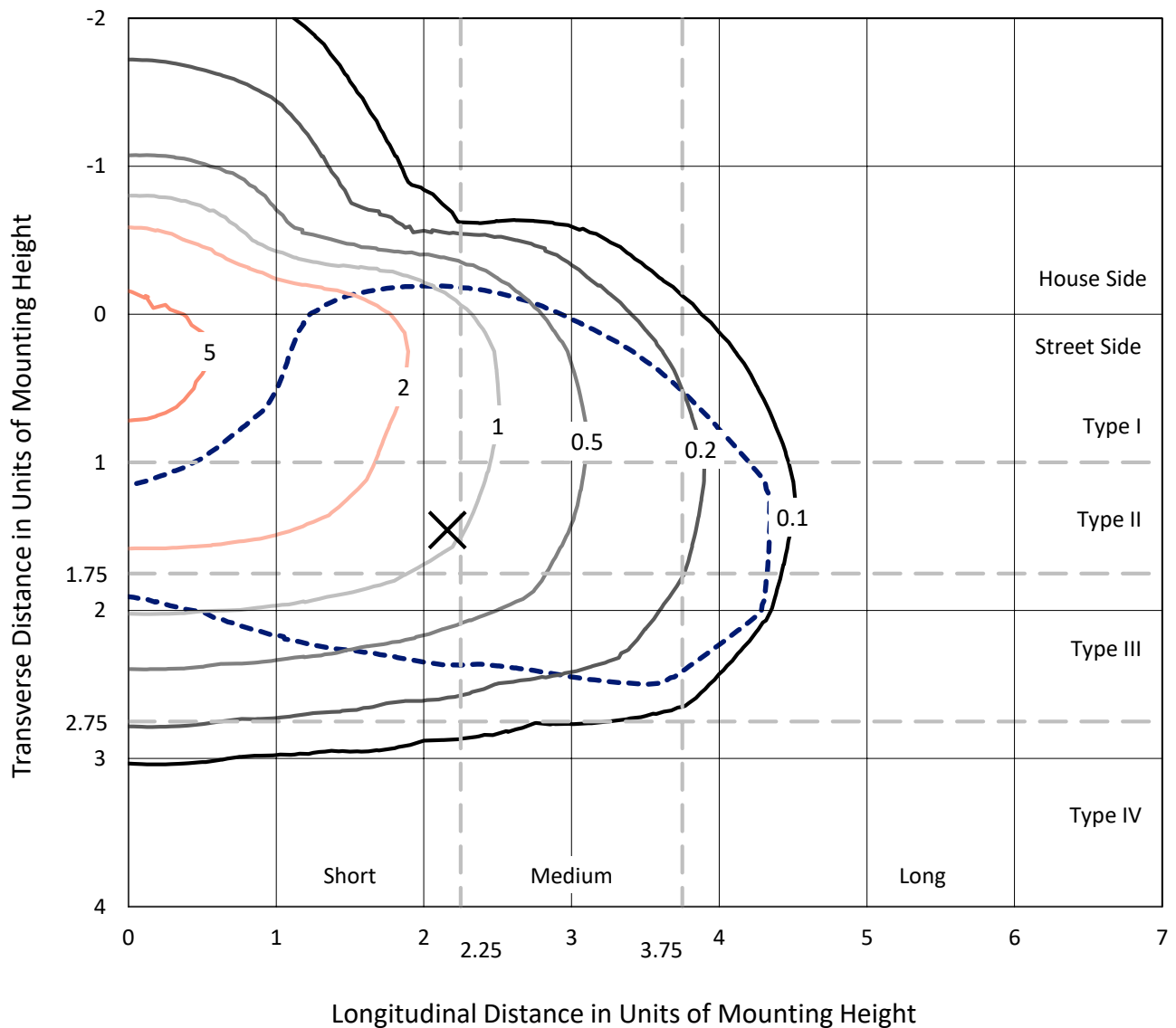
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

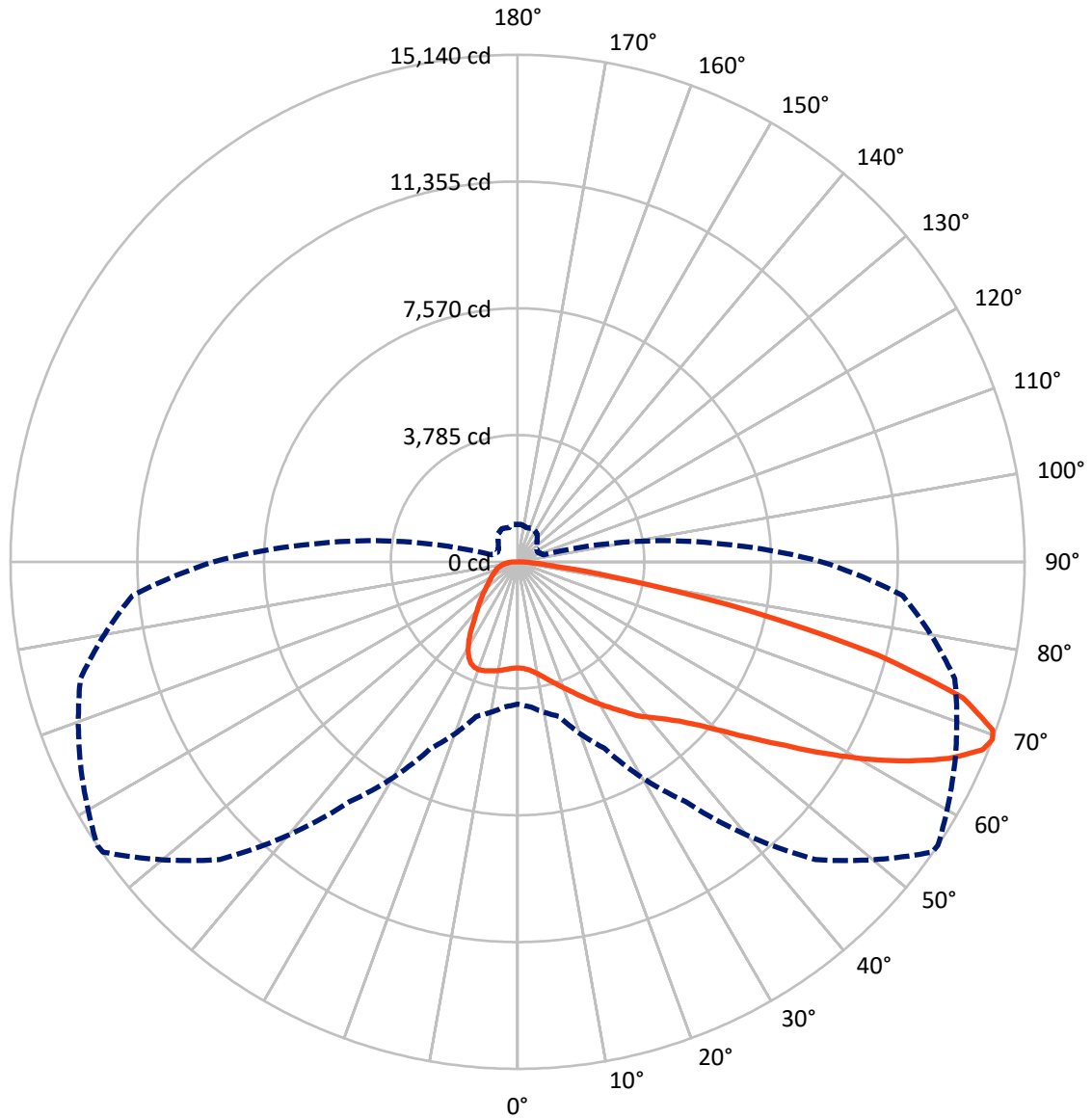
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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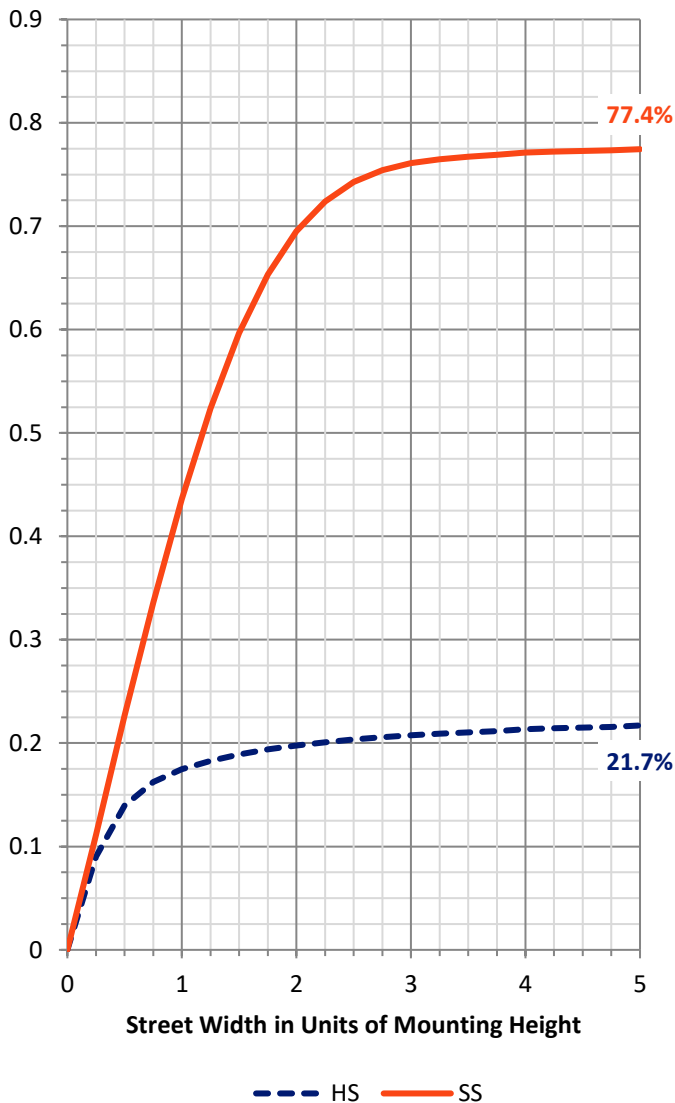
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5397.5	0.0	5397.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	18839.5	0.0	18839.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	24237.0	0.0	24237.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.2	1.3
10°-20°	1000.7	4.1
20°-30°	1746.9	7.2
30°-40°	2509.3	10.4
40°-50°	3472.8	14.3
50°-60°	5088.1	21.0
60°-70°	6203.4	25.6
70°-80°	3429.6	14.2
80°-90°	475.0	2.0
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°	24237.0	100.0
0°-180°	24237.0	100.0



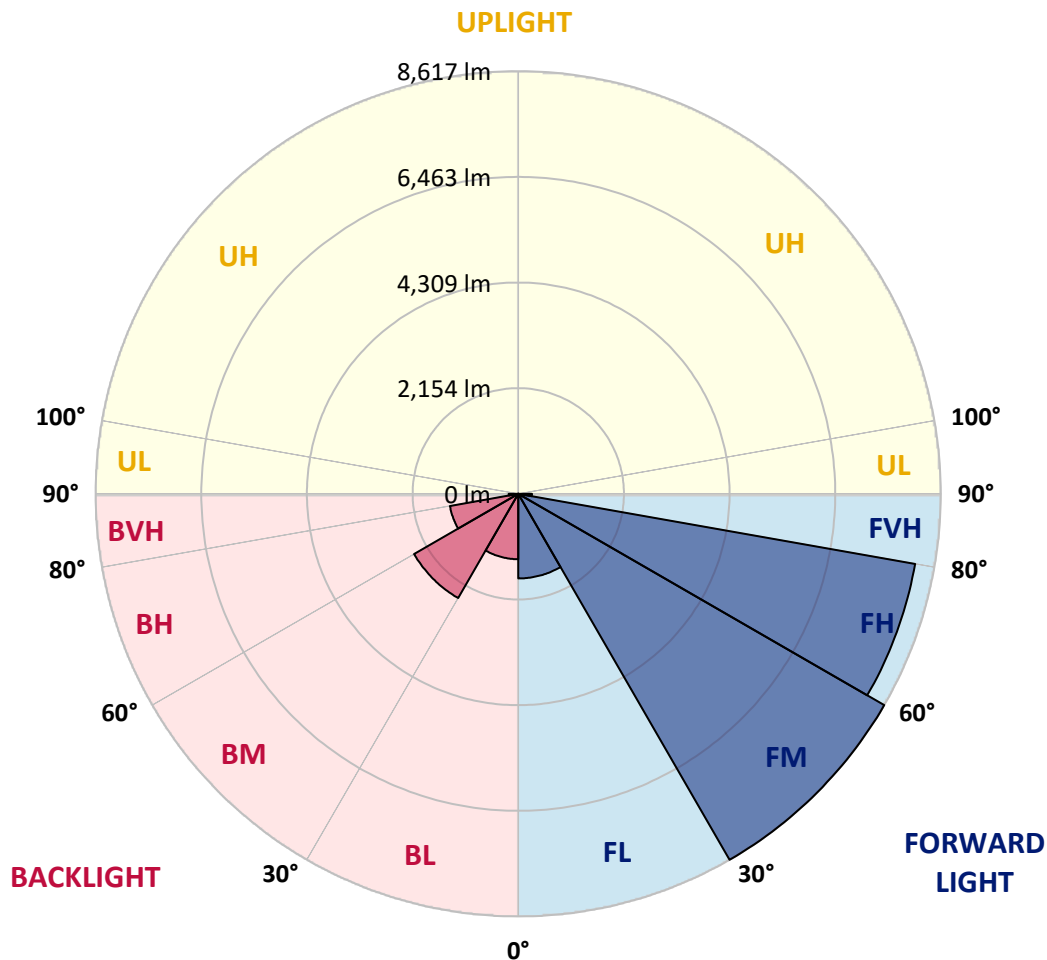
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 CATALOG NUMBER: GLEON-SA7A-827-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.0	7.1			
FM (30°-60°)	8617.2	35.6			
FH (60°-80°)	8217.6	33.9			G4/12000
FVH (80°-90°)	279.8	1.2			G3/500
BL (0°-30°)	1333.9	5.5	B3/2500		
BM (30°-60°)	2453.1	10.1	B2/2500		
BH (60°-80°)	1415.4	5.8	B3/2500		G3/2500
BVH (80°-90°)	195.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6
2.5°	3188.7	3192.0	3189.5	3196.2	3188.7	3193.7	3189.5	3189.5	3187.0	3179.5	3171.1
5°	3238.8	3245.4	3241.3	3247.9	3238.8	3240.4	3232.9	3232.9	3225.4	3209.5	3192.8
7.5°	3317.2	3324.8	3321.4	3328.1	3315.6	3315.6	3305.6	3304.7	3289.7	3263.8	3244.6
10°	3410.8	3420.8	3417.4	3427.5	3417.4	3420.8	3410.8	3410.8	3390.7	3354.0	3329.8
12.5°	3546.9	3559.4	3550.2	3549.4	3545.2	3551.9	3543.5	3541.8	3523.5	3473.4	3440.0
15°	3728.9	3742.2	3723.0	3721.4	3698.0	3695.5	3695.5	3693.0	3681.3	3621.2	3566.1
17.5°	3938.4	3942.6	3925.9	3899.2	3869.1	3849.9	3847.4	3854.1	3854.1	3784.0	3696.3
20°	4143.8	4151.4	4138.0	4107.9	4069.5	4041.1	4021.1	4034.5	4033.6	3950.1	3825.7
22.5°	4367.6	4385.1	4365.1	4326.7	4281.6	4249.9	4214.8	4226.5	4227.3	4124.6	3952.6
25°	4657.3	4641.5	4628.9	4574.7	4510.4	4477.8	4445.3	4456.9	4453.6	4312.5	4083.7
27.5°	4913.7	4917.0	4900.3	4842.7	4768.4	4696.6	4694.9	4702.4	4689.9	4507.9	4207.3
30°	5211.7	5213.4	5190.0	5138.3	5057.3	4964.6	4942.9	4955.4	4928.7	4693.2	4337.5
32.5°	5508.1	5516.5	5490.6	5428.0	5362.9	5250.1	5206.7	5215.1	5148.3	4882.8	4472.0
35°	5767.8	5779.5	5771.2	5729.4	5658.4	5561.6	5509.8	5504.8	5422.1	5114.9	4649.8
37.5°	6032.5	6043.3	6034.2	5999.1	5970.7	5868.0	5840.5	5840.5	5696.8	5352.0	4876.1
40°	6304.7	6321.4	6310.5	6262.1	6237.9	6191.1	6125.2	6109.3	5954.0	5636.7	5245.1
42.5°	6557.7	6579.4	6622.8	6594.4	6545.1	6551.8	6419.1	6410.7	6297.2	6057.5	5708.5
45°	6916.7	6948.4	7021.9	7000.2	6990.2	6953.4	6795.6	6788.1	6744.7	6623.6	6283.8
47.5°	7308.3	7351.7	7484.5	7488.6	7596.3	7527.0	7312.5	7286.6	7296.6	7301.6	6986.0
50°	7669.0	7716.6	7934.5	8037.2	8291.0	8306.1	7962.9	7939.5	7978.8	8094.0	7804.2
52.5°	7957.0	8017.2	8289.4	8606.6	9041.6	9165.2	8763.6	8746.1	8775.3	8974.0	8729.4
55°	8168.3	8233.4	8529.8	9107.6	9802.3	10020.2	9685.4	9668.7	9687.1	9940.0	9735.5
57.5°	8217.5	8233.4	8663.4	9444.9	10444.3	10967.9	10813.4	10780.0	10689.8	10910.2	10846.0
60°	7986.3	8049.7	8553.2	9563.5	10941.1	11902.2	11992.3	11950.6	11697.6	11878.0	11826.2
62.5°	7517.0	7630.6	8141.6	9383.1	11135.7	12665.3	13148.7	13098.6	12662.8	12779.7	12530.9
65°	6750.5	6799.0	7335.8	8761.1	10888.5	13153.8	14179.9	14154.9	13606.3	13423.4	12661.1
67.5°	5379.6	5470.6	5926.5	7461.1	9877.4	13096.1	14977.3	14974.8	14222.5	13662.2	12199.4
69°	4249.9	4344.2	4778.4	6146.0	8740.2	12569.3	15110.9	15140.1	14396.2	13517.0	11539.8
70°	3388.2	3497.6	3795.7	5176.7	7730.8	11874.6	14999.8	15052.4	14362.8	13277.3	10931.1
72.5°	1442.0	1530.5	1742.5	2668.5	4711.6	8867.1	13714.8	13913.6	13588.8	12151.8	9034.1
75°	629.5	657.1	753.1	1087.9	2091.5	4826.0	10744.1	11111.5	11619.1	10271.5	6729.7
77.5°	460.9	472.6	525.2	638.7	938.5	1822.7	6909.2	7122.9	8379.5	7474.4	4128.0
80°	356.5	364.9	405.8	469.2	612.9	737.3	3151.1	3334.8	4711.6	3839.1	1719.2
82.5°	283.9	289.7	318.1	345.7	423.3	446.7	1046.2	1160.6	1739.2	1060.4	455.0
85°	263.8	270.5	280.5	252.2	271.4	262.2	452.5	473.4	525.2	416.6	190.4
87.5°	119.4	141.1	278.0	196.2	144.4	115.2	185.4	193.7	217.9	218.8	84.3
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°	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6	3168.6
2.5°	3176.1	3173.6	3177.8	3167.8	3180.3	3179.5	3175.3	3177.0	3185.3	3184.5	3185.3
5°	3195.3	3193.7	3198.7	3191.2	3206.2	3211.2	3212.0	3219.6	3228.7	3231.2	3231.2
7.5°	3243.8	3243.8	3246.3	3236.3	3246.3	3245.4	3241.3	3248.8	3258.0	3258.8	3258.0
10°	3327.3	3328.1	3323.9	3298.0	3289.7	3267.1	3246.3	3247.1	3258.8	3268.0	3270.5
12.5°	3432.5	3429.1	3410.8	3363.2	3328.1	3282.2	3260.5	3259.6	3271.3	3278.8	3281.3
15°	3552.7	3543.5	3495.9	3418.3	3356.5	3311.4	3276.3	3268.0	3261.3	3253.0	3253.8
17.5°	3666.3	3645.4	3566.1	3458.3	3393.2	3333.1	3265.5	3211.2	3173.6	3151.9	3145.2
20°	3781.5	3740.6	3626.2	3495.9	3413.3	3303.9	3173.6	3063.4	2995.0	2963.2	2957.4
22.5°	3886.7	3820.7	3682.1	3535.2	3397.4	3205.4	3000.8	2840.5	2745.3	2702.7	2706.1
25°	3989.4	3897.5	3740.6	3562.7	3317.2	3031.7	2760.3	2563.3	2453.1	2405.5	2403.8
27.5°	4079.5	3975.2	3804.0	3540.2	3167.8	2784.5	2475.6	2283.6	2191.7	2150.8	2144.1
30°	4183.1	4072.9	3888.3	3454.2	2949.0	2499.0	2197.6	2062.3	1997.2	1956.3	1948.8
32.5°	4309.2	4205.6	3957.6	3298.0	2669.3	2200.9	1980.5	1886.1	1826.9	1780.9	1772.6
35°	4492.8	4381.0	3975.2	3074.3	2362.1	1965.5	1821.0	1724.2	1644.0	1584.7	1578.9
37.5°	4723.3	4600.6	3935.1	2784.5	2064.0	1812.7	1688.3	1568.9	1464.5	1381.0	1367.6
40°	5055.6	4870.2	3824.1	2450.6	1844.4	1694.9	1558.8	1422.7	1293.3	1195.6	1176.4
42.5°	5454.7	5186.7	3653.7	2118.3	1683.3	1575.5	1430.3	1261.6	1138.0	1068.7	1058.7
45°	5962.4	5515.7	3417.4	1827.7	1524.6	1456.1	1291.7	1136.4	1059.5	1008.6	1000.3
47.5°	6541.8	5884.7	3169.5	1591.4	1390.2	1344.3	1180.6	1080.4	1019.5	979.4	971.9
50°	7254.0	6301.3	2906.4	1397.7	1254.9	1209.8	1128.0	1049.5	1001.1	970.2	962.7
52.5°	8057.2	6771.4	2716.9	1244.9	1143.0	1110.5	1100.5	1032.8	993.6	970.2	962.7
55°	8922.2	7249.8	2512.4	1116.3	1046.2	1055.4	1082.1	1034.5	1007.8	979.4	968.5
57.5°	9788.1	7744.1	2284.4	1007.8	969.4	1014.5	1069.6	1037.8	1015.3	987.7	977.7
60°	10472.7	8057.2	1931.2	916.8	908.4	969.4	1039.5	1012.8	983.6	984.4	982.7
62.5°	10792.5	8040.5	1541.3	835.8	847.5	908.4	991.1	973.5	949.3	981.9	984.4
65°	10613.0	7639.8	1199.8	762.3	782.3	845.0	941.0	954.3	962.7	1025.3	1033.7
67.5°	9859.9	6859.9	929.3	698.0	723.1	801.5	946.0	1039.5	1050.4	1116.3	1115.5
69°	9080.9	6128.5	807.4	664.6	693.8	812.4	1011.1	1093.8	1052.9	1123.0	1113.0
70°	8428.0	5549.9	742.3	642.1	680.5	831.6	1054.5	1092.9	1040.3	1100.5	1083.8
72.5°	6490.9	3992.7	629.5	600.3	635.4	795.7	1067.1	1068.7	1011.1	1022.8	994.4
75°	4451.9	2523.2	549.4	543.6	566.9	717.2	1027.0	1021.1	935.1	918.4	895.1
77.5°	2454.7	1281.6	466.7	489.3	505.1	635.4	933.5	925.1	854.2	819.1	810.7
80°	946.8	561.1	394.1	435.0	445.0	550.2	818.2	810.7	751.5	706.4	693.8
82.5°	357.4	293.9	325.6	376.6	373.2	454.2	693.0	688.8	631.2	565.3	545.2
85°	165.3	176.2	258.0	310.6	286.4	336.5	554.4	561.9	491.8	413.3	413.3
87.5°	70.1	98.5	182.9	234.6	192.9	227.1	406.6	388.3	356.5	247.1	232.1
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)