

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: P532290

Luminaire Tested: **GALN-SA7C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-827-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

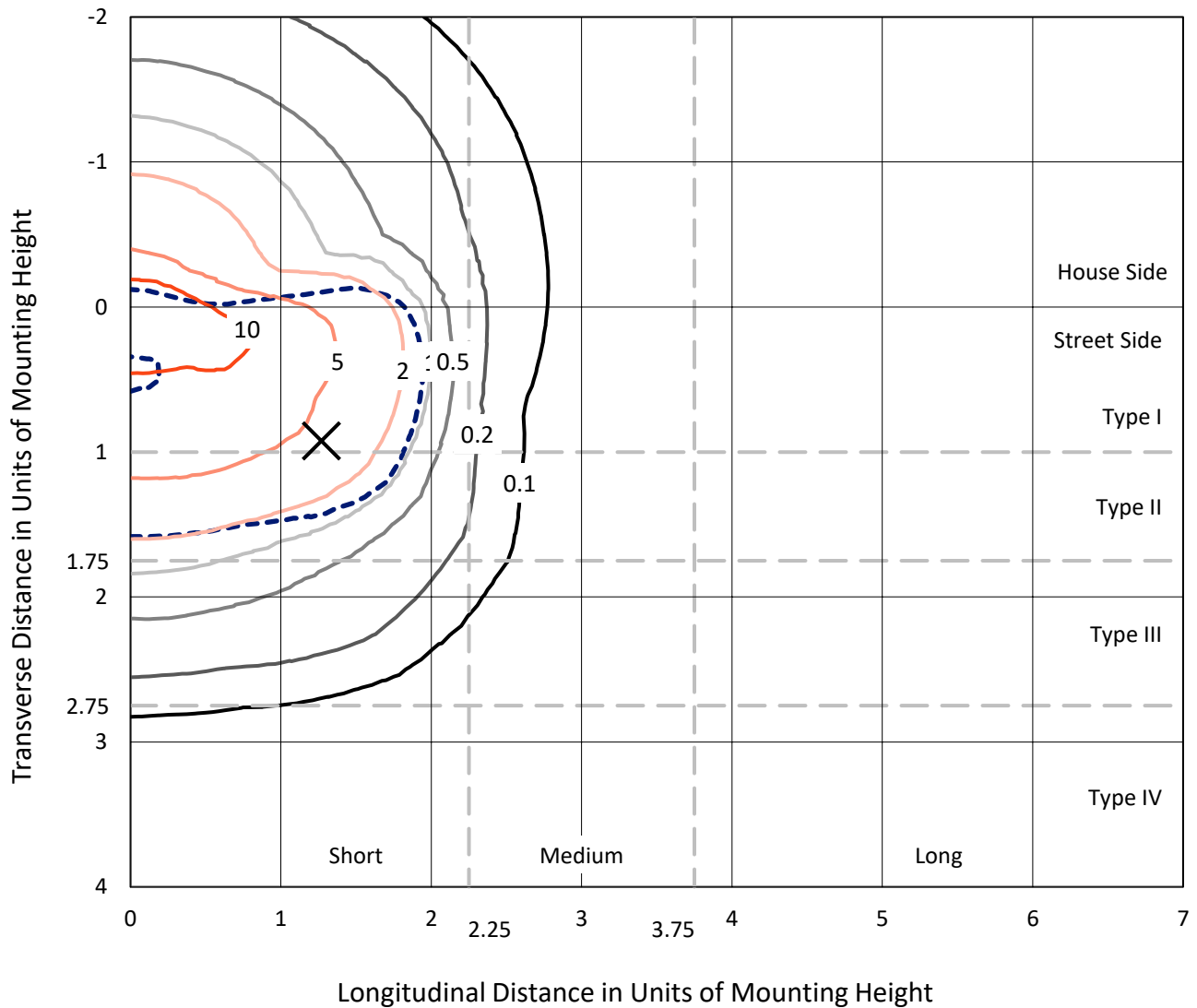
Lumens per Lamp: N/A  
Luminaire Lumens: 30453 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

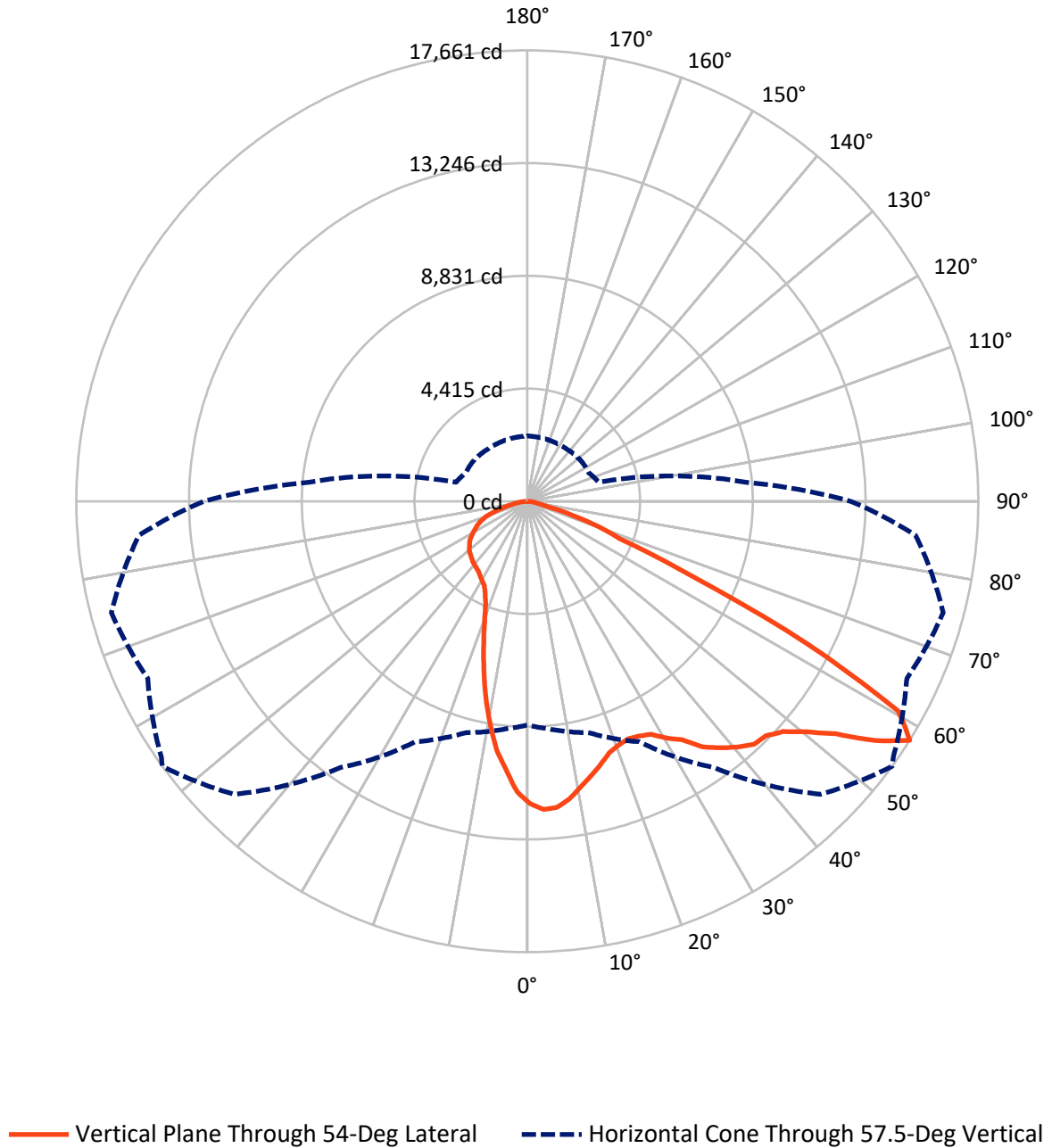
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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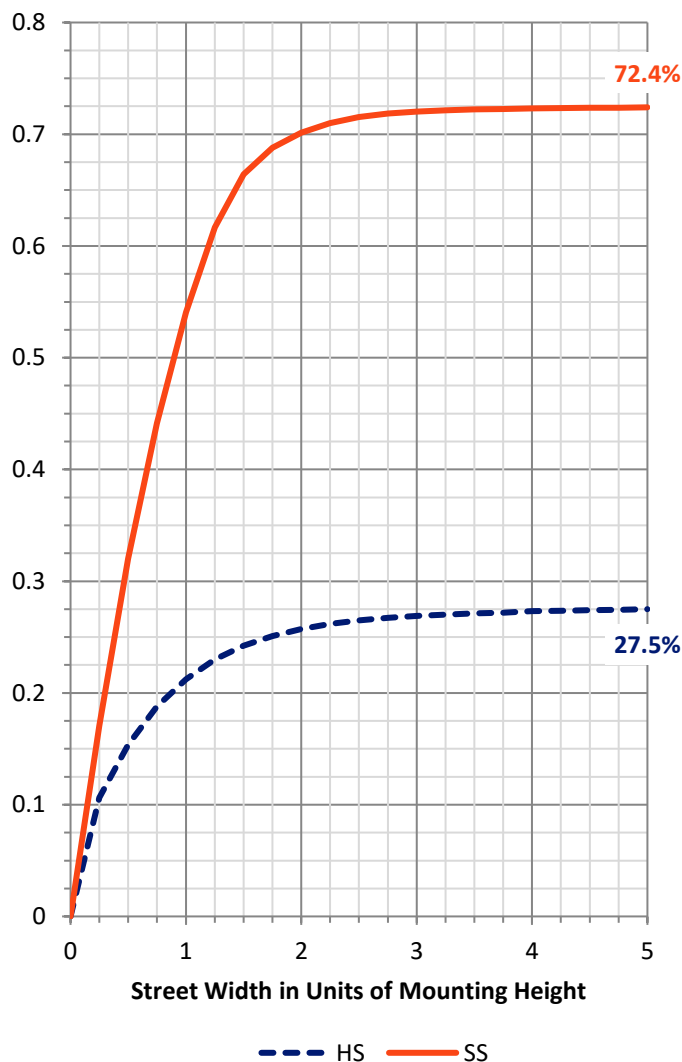
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8425.0	0.0	8425.0
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	22028.0	0.0	22028.0
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	30453.0	0.0	30453.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1020.8	3.4
10°-20°	2363.5	7.8
20°-30°	3320.8	10.9
30°-40°	4642.5	15.2
40°-50°	6285.1	20.6
50°-60°	7655.5	25.1
60°-70°	3987.3	13.1
70°-80°	1021.7	3.4
80°-90°	155.8	0.5
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°	30453.0	100.0
0°-180°	30453.0	100.0

**Coefficient of Utilization**



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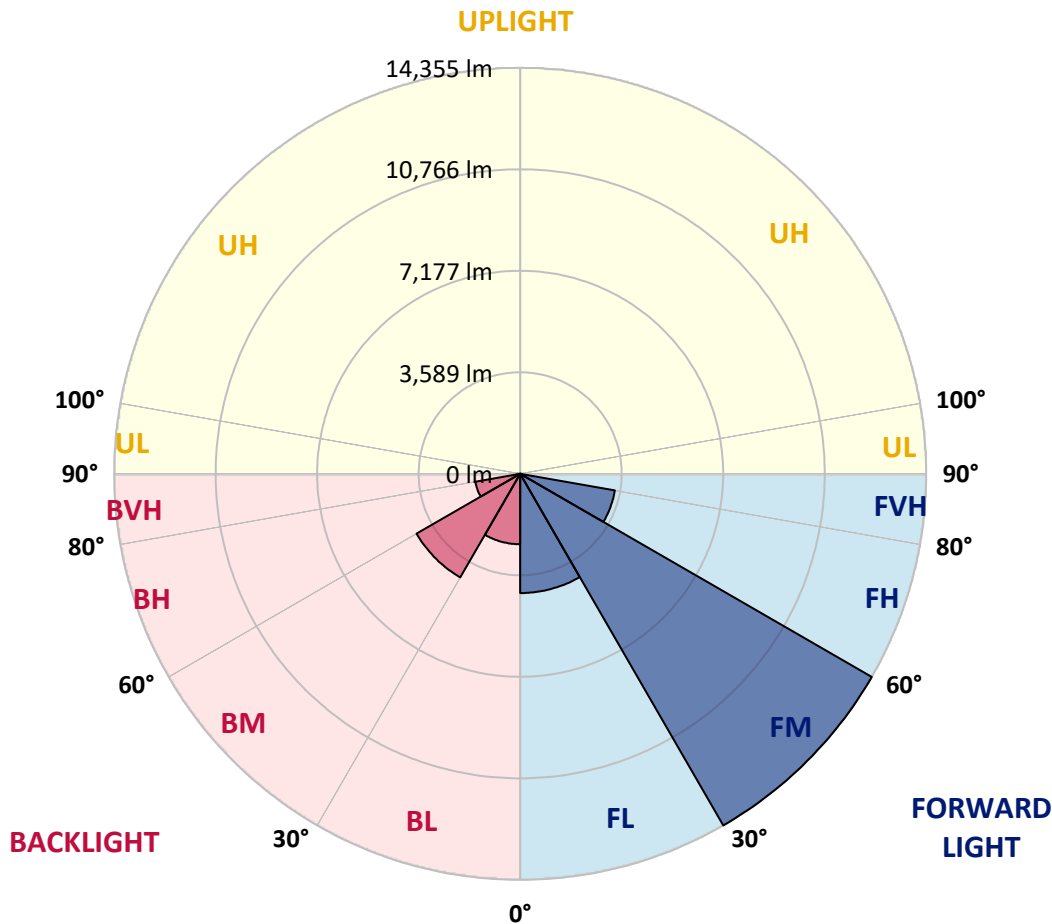
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4215.1	13.8			
FM (30°-60°)	14354.6	47.1			
FH (60°-80°)	3399.4	11.2			G2/5000
FVH (80°-90°)	58.9	0.2			G1/100
BL (0°-30°)	2490.0	8.2	B3/2500		
BM (30°-60°)	4228.4	13.9	B3/5000		
BH (60°-80°)	1609.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	97.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7
2.5°	12173.4	12126.4	12134.2	12196.8	12118.6	12087.2	12087.2	11934.6	11946.3	11840.6	11813.2
5°	11891.5	11781.9	11856.3	11950.2	11965.9	11997.2	12048.1	12009.0	11899.4	11785.8	11601.9
7.5°	11155.7	11253.5	11280.9	11347.4	11488.4	11617.5	11778.0	11668.4	11664.5	11551.0	11441.4
10°	10509.8	10451.1	10599.8	10697.7	10932.5	11147.8	11394.4	11382.7	11441.4	11312.2	11124.3
12.5°	9867.9	9820.9	9891.3	10114.5	10443.3	10756.4	11050.0	10940.4	11253.5	11230.0	10826.9
15°	9186.8	9222.0	9323.8	9531.2	9961.8	10337.6	10709.4	10713.3	10991.3	11085.2	10545.0
17.5°	8709.2	8670.1	8799.3	9108.5	9492.1	9942.2	10365.0	10451.1	10877.7	10932.5	10458.9
20°	8353.0	8407.8	8576.2	8732.7	9175.0	9719.1	10196.7	10228.0	10854.3	11003.0	10321.9
22.5°	8266.9	8235.6	8290.4	8544.8	8908.9	9499.9	10106.6	10224.1	10850.3	10979.5	10063.6
25°	8176.9	8278.7	8274.8	8529.2	8795.3	9323.8	10181.0	10310.2	11057.8	11100.9	10098.8
27.5°	8380.4	8368.7	8478.3	8497.9	8826.7	9370.7	10337.6	10435.4	11402.2	11367.0	10126.2
30°	8584.0	8525.3	8591.8	8822.7	8975.4	9640.8	10768.1	10760.3	11848.5	11825.0	10212.3
32.5°	8834.5	8807.1	8850.1	9053.7	9312.0	10000.9	11132.2	11363.1	12302.5	12451.3	10509.8
35°	8881.5	8995.0	9096.7	9370.7	9738.7	10584.2	11817.2	12009.0	12827.0	13292.8	11077.4
37.5°	9178.9	9222.0	9460.8	9946.1	10282.8	11363.1	12251.6	12373.0	13304.6	13833.0	11676.2
40°	9496.0	9546.9	9907.0	10415.9	10877.7	11872.0	12658.7	12697.9	13457.2	14247.9	12067.7
42.5°	9926.6	9973.5	10329.7	10967.8	11586.2	12306.4	13018.8	13061.9	13445.5	14725.5	12690.0
45°	10372.8	10486.3	10905.1	11629.3	12185.1	12815.3	13101.0	13277.2	13555.1	15152.1	13195.0
47.5°	10999.1	11104.8	11449.2	12157.7	12807.5	13261.5	13480.7	13653.0	13817.3	15524.0	13519.9
50°	11664.5	11684.1	12102.9	12744.8	13222.4	13766.5	14189.2	14247.9	14161.8	15954.5	14071.8
52.5°	12153.8	12216.4	12541.3	13167.6	13880.0	14549.3	15128.6	15191.3	15022.9	16115.0	14259.7
55°	11343.5	11308.3	11836.7	12670.5	14322.3	15715.8	16557.3	16604.3	15649.2	16612.1	14874.2
57.5°	8767.9	8936.3	9386.4	10392.4	12725.3	16232.5	17661.2	17492.8	16400.8	16862.6	15265.6
60°	6372.4	6333.3	6634.7	7307.9	9589.9	13989.6	16698.2	16870.5	15786.2	15199.1	12588.3
62.5°	5190.3	5135.5	5159.0	5182.5	6188.5	9284.6	12361.2	12357.3	12157.7	10924.7	8490.0
65°	4149.1	4278.3	4290.0	4466.2	4595.3	5546.5	7163.1	7546.7	6572.0	5389.9	3910.3
67.5°	3127.5	3080.5	3237.1	3863.4	4106.1	4004.3	3910.3	3953.4	2810.4	2027.6	1910.2
70°	1843.6	1824.0	2011.9	2693.0	3381.9	3182.3	2947.4	2951.4	1929.7	1417.0	1577.4
72.5°	1009.9	1006.0	1045.1	1366.1	1921.9	1996.3	1769.2	1824.0	1150.8	1146.9	1233.0
75°	563.7	551.9	540.2	602.8	692.8	732.0	747.6	755.5	790.7	884.6	919.9
77.5°	207.5	199.6	199.6	230.9	293.6	367.9	465.8	473.6	559.7	641.9	677.2
80°	70.5	78.3	105.7	144.8	195.7	262.3	317.1	324.9	395.3	450.1	461.9
82.5°	43.1	47.0	70.5	101.8	140.9	184.0	234.9	238.8	293.6	328.8	344.5
85°	19.6	23.5	39.1	62.6	90.0	121.3	125.3	125.3	121.3	125.3	117.4
87.5°	0.0	0.0	7.8	7.8	7.8	11.7	15.7	11.7	19.6	23.5	23.5
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°	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7	11836.7
2.5°	11731.0	11688.0	11554.9	11437.5	11402.2	11245.7	11014.7	11042.1	10873.8	10952.1	10869.9
5°	11570.6	11425.7	11085.2	10940.4	10560.7	10388.5	10271.0	9977.5	9840.5	9813.1	9695.6
7.5°	11159.6	11069.5	10642.9	10251.5	9848.3	9503.8	9061.5	8760.1	8544.8	8486.1	8313.9
10°	10834.7	10635.1	10044.0	9449.0	8873.6	8274.8	7699.4	7249.2	7030.0	6775.6	6689.5
12.5°	10513.7	10212.3	9413.8	8650.5	7906.8	7151.4	6454.6	5906.6	5429.1	5315.6	5276.4
15°	10314.1	9789.6	8850.1	7930.3	6873.4	5887.1	5190.3	4830.2	4536.6	4415.3	4501.4
17.5°	10051.8	9441.2	8310.0	7084.8	5922.3	5014.2	4430.9	4207.8	4102.1	4113.9	4078.7
20°	9723.0	9112.4	7601.5	6317.6	5072.9	4348.7	4016.0	3933.8	3949.5	3976.9	3965.1
22.5°	9488.2	8713.2	7088.7	5534.8	4384.0	3980.8	3843.8	3785.1	3836.0	3859.5	3839.9
25°	9308.1	8372.6	6466.4	4841.9	3984.7	3773.3	3710.7	3706.8	3785.1	3816.4	3796.8
27.5°	9143.7	8055.6	5847.9	4313.5	3718.6	3612.9	3593.3	3640.3	3691.2	3722.5	3749.9
30°	9045.9	7812.9	5268.6	3871.2	3585.5	3534.6	3499.4	3542.4	3569.8	3601.1	3585.5
32.5°	9139.8	7640.6	4708.9	3620.7	3475.9	3425.0	3472.0	3444.6	3491.5	3518.9	3475.9
35°	9433.4	7488.0	4309.6	3487.6	3350.6	3370.2	3378.0	3366.3	3385.8	3362.4	3413.2
37.5°	9723.0	7433.2	3941.7	3374.1	3291.9	3291.9	3284.1	3260.6	3299.7	3291.9	3315.4
40°	10091.0	7468.4	3628.5	3252.8	3237.1	3229.3	3198.0	3194.0	3178.4	3182.3	3190.1
42.5°	10411.9	7546.7	3448.5	3174.5	3186.2	3201.9	3143.2	3096.2	3115.8	3076.6	3076.6
45°	10752.5	7617.2	3288.0	3119.7	3107.9	3104.0	3057.0	3029.6	3014.0	3017.9	3053.1
47.5°	11288.7	7718.9	3166.6	3045.3	3053.1	2994.4	2982.7	2947.4	2963.1	2986.6	2990.5
50°	11668.4	7934.2	3072.7	2959.2	2986.6	2947.4	2877.0	2861.3	2861.3	2900.5	2892.6
52.5°	11934.6	8235.6	2982.7	2865.2	2877.0	2845.7	2822.2	2787.0	2763.5	2818.3	2845.7
55°	12748.8	8736.6	2959.2	2787.0	2783.0	2751.7	2708.7	2673.4	2661.7	2669.5	2724.3
57.5°	12670.5	8580.1	2884.8	2650.0	2642.1	2599.1	2556.0	2544.3	2540.4	2548.2	2563.8
60°	10286.7	6337.2	2575.6	2493.4	2481.6	2473.8	2430.8	2383.8	2360.3	2383.8	2364.2
62.5°	6806.9	4243.1	2270.3	2305.5	2313.3	2293.8	2223.3	2176.3	2184.2	2211.6	2168.5
65°	3342.8	2493.4	2058.9	2152.8	2160.7	2105.9	2039.3	1984.5	1957.1	1980.6	1961.0
67.5°	1910.2	1906.2	1886.7	1984.5	1980.6	1925.8	1820.1	1773.2	1726.2	1734.0	1722.3
70°	1620.5	1651.8	1691.0	1749.7	1745.8	1683.1	1557.9	1522.6	1456.1	1448.3	1428.7
72.5°	1276.0	1330.8	1417.0	1460.0	1424.8	1346.5	1264.3	1205.6	1146.9	1111.7	1123.4
75°	947.3	1025.5	1072.5	1099.9	1045.1	1002.1	935.5	865.1	794.6	763.3	751.5
77.5°	688.9	712.4	755.5	775.0	739.8	696.7	657.6	587.1	520.6	477.5	465.8
80°	481.5	497.1	528.4	528.4	528.4	508.9	458.0	387.5	344.5	305.3	297.5
82.5°	336.6	352.3	383.6	367.9	364.0	340.5	309.2	254.4	207.5	180.1	172.2
85°	117.4	129.2	156.6	187.9	199.6	195.7	176.1	140.9	109.6	90.0	82.2
87.5°	27.4	27.4	31.3	27.4	27.4	31.3	27.4	27.4	27.4	19.6	15.7
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)