

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: P532361

Luminaire Tested: **GALN-SA7D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33615 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

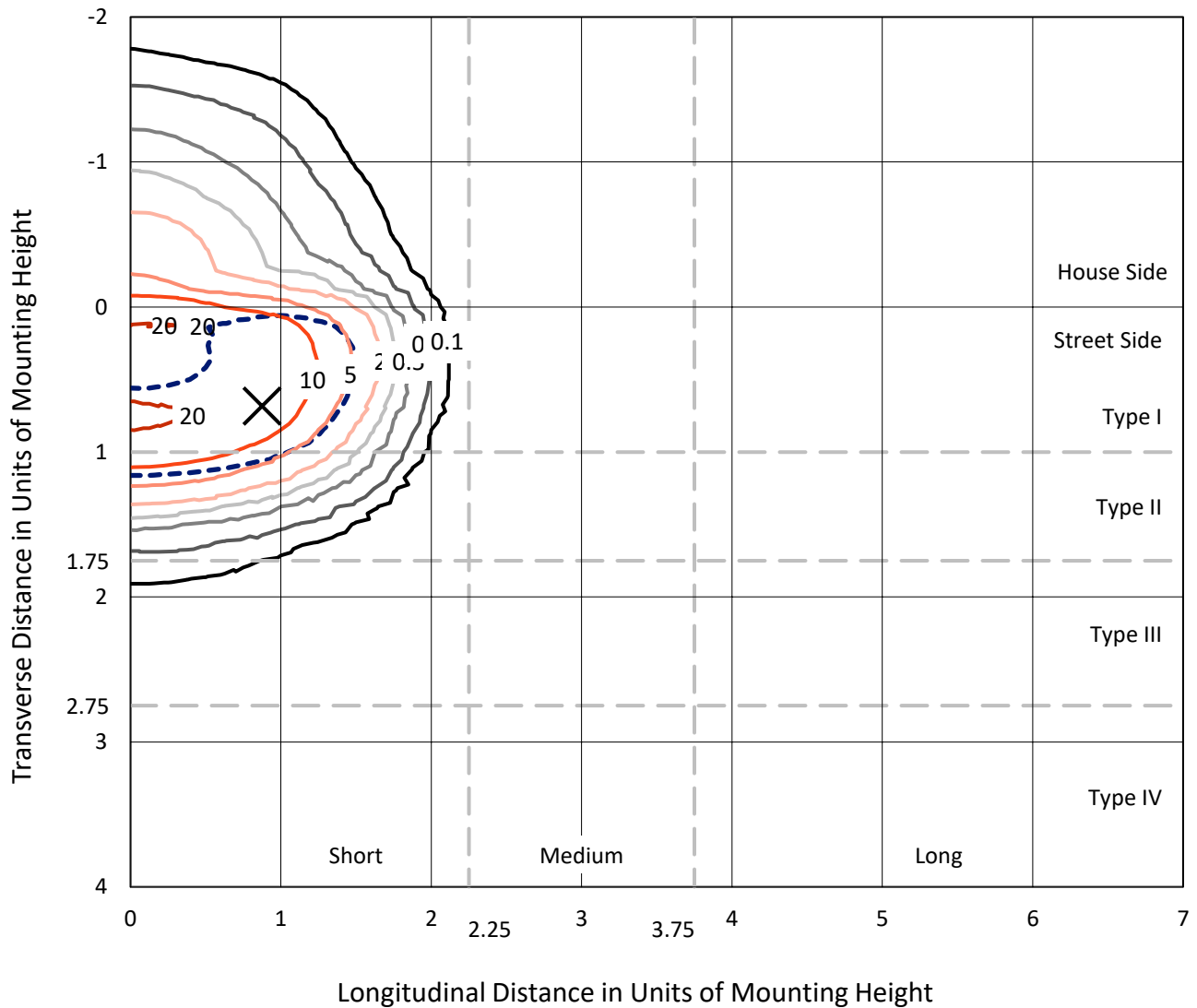
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

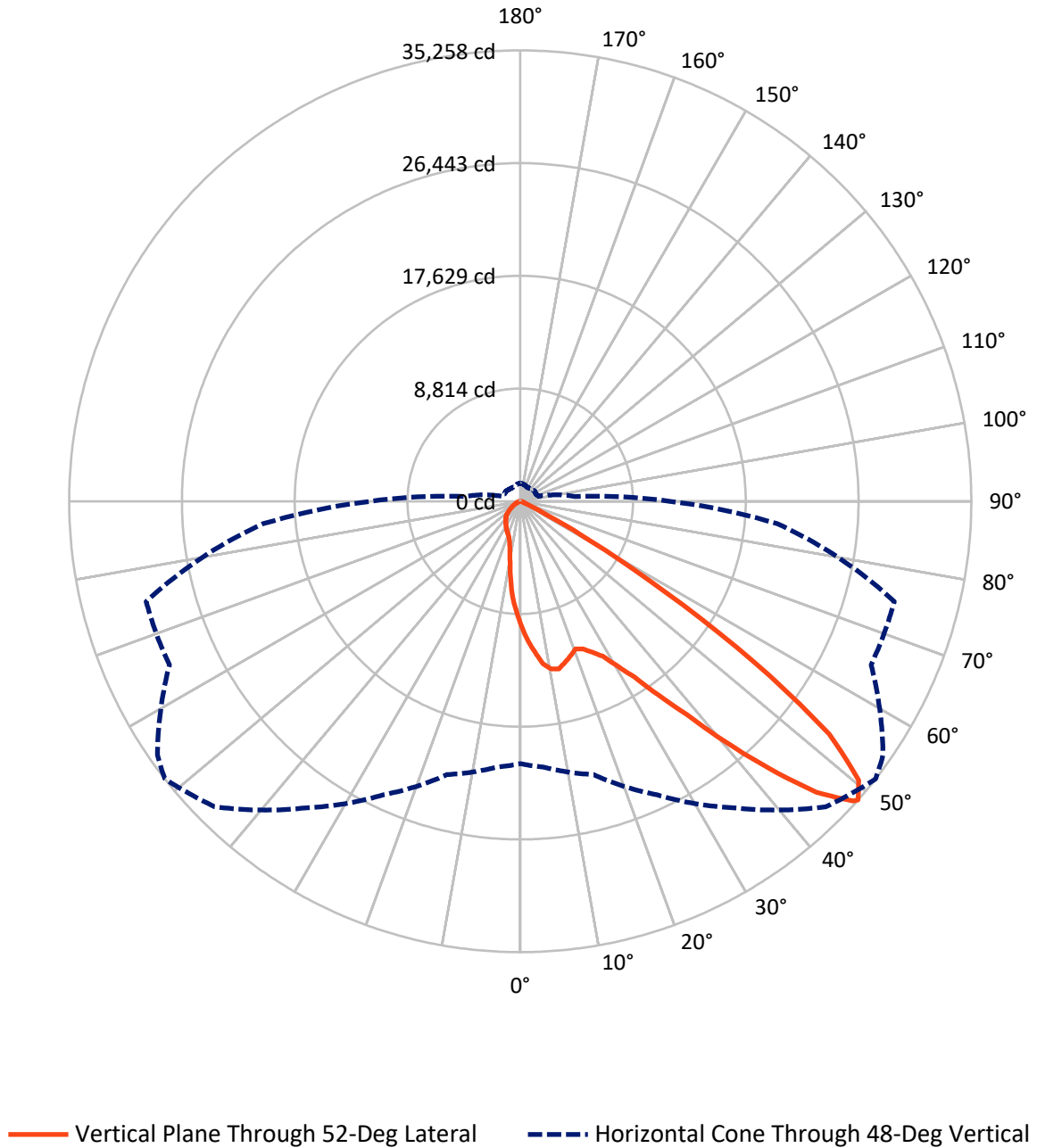
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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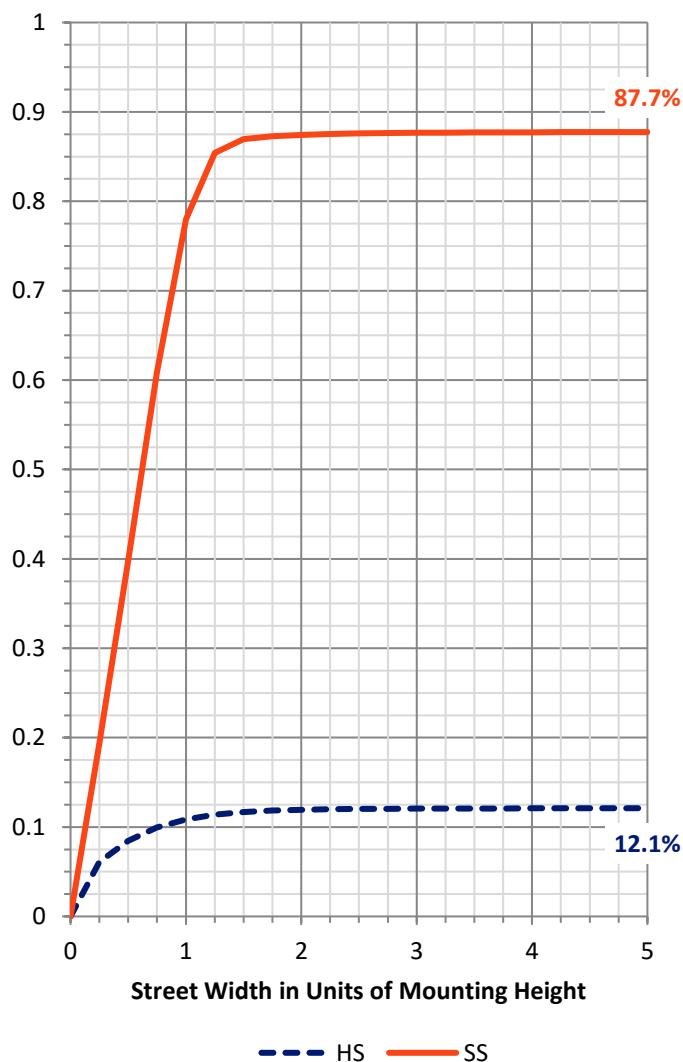
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4092.9	0.0	4092.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	29522.1	0.0	29522.1
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	33615.0	0.0	33615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	888.5	2.6
10°-20°	2322.0	6.9
20°-30°	3964.6	11.8
30°-40°	7300.8	21.7
40°-50°	11338.1	33.7
50°-60°	6823.6	20.3
60°-70°	789.2	2.3
70°-80°	152.8	0.5
80°-90°	35.3	0.1
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°	33615.0	100.0
0°-180°	33615.0	100.0

**Coefficient of Utilization**



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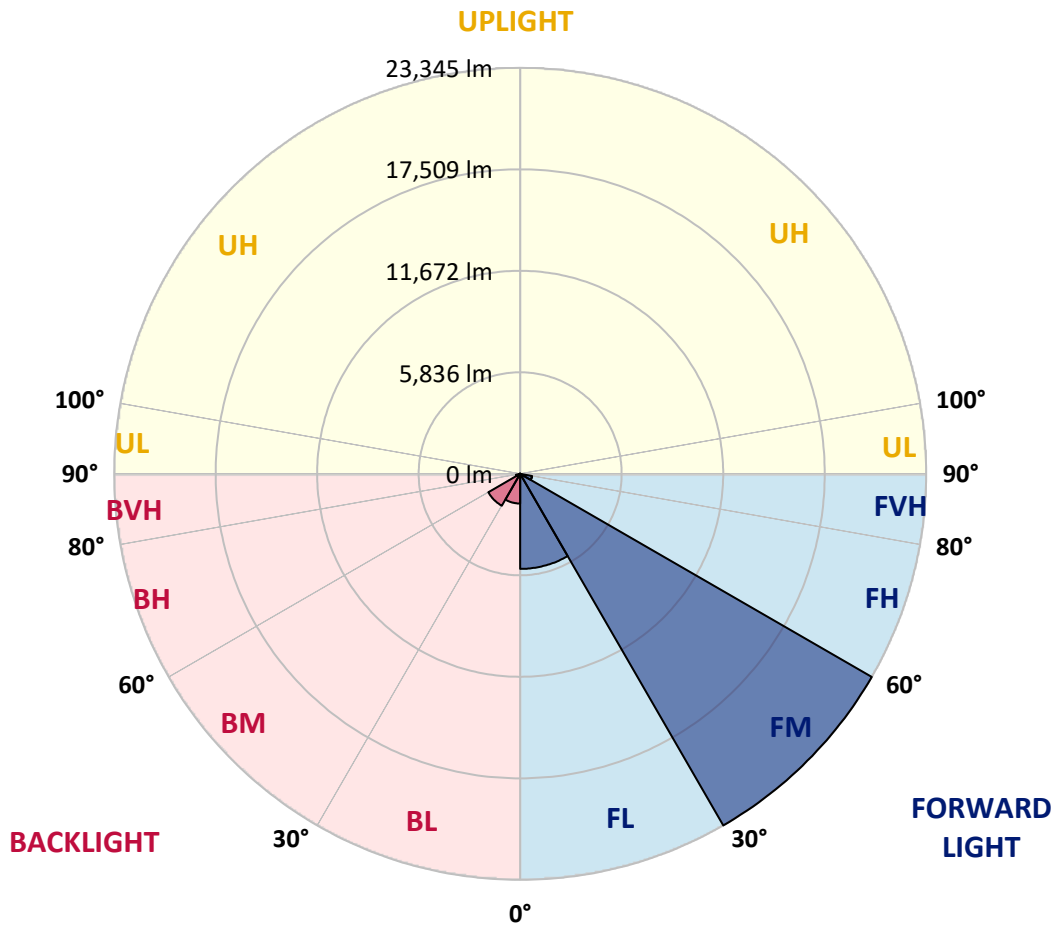
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5465.4	16.3			
FM (30°-60°)	23345.0	69.4			
FH (60°-80°)	695.0	2.1			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1709.7	5.1	B3/2500		
BM (30°-60°)	2117.6	6.3	B2/2500		
BH (60°-80°)	247.0	0.7	B1/500		G1/500
BVH (80°-90°)	18.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5
2.5°	11765.6	11496.1	11520.6	11344.1	11241.2	11074.6	10849.2	10805.1	10560.1	10226.9	9888.8
5°	12824.0	12760.3	12843.6	12588.8	12598.6	12324.2	11795.0	11804.8	11241.2	10697.3	10173.0
7.5°	12892.6	12745.6	12828.9	13054.3	13186.7	13137.6	12838.7	12579.0	12044.9	11246.1	10481.7
10°	11545.1	11824.4	11912.6	12285.0	12814.2	13372.9	13338.6	13353.3	12907.3	11863.6	10746.3
12.5°	10736.5	10550.3	10849.2	11074.6	11873.4	12956.3	13451.3	13559.1	13593.4	12461.4	11010.9
15°	10369.0	10369.0	10418.0	10481.7	11059.9	12059.6	13069.0	13382.7	14122.6	13245.5	11427.5
17.5°	10599.3	10589.5	10658.1	10525.8	10741.4	11510.8	12716.2	13073.9	14715.5	14014.8	11755.8
20°	11300.0	11334.3	11290.2	10908.0	10922.7	11501.0	12324.2	12887.7	15117.4	14681.2	12191.9
22.5°	12275.2	12294.8	12044.9	11628.4	11505.9	11790.1	12549.6	12980.8	15440.8	15480.0	12324.2
25°	13402.3	13323.9	13274.9	12686.8	12314.4	12559.4	13059.2	13309.2	15641.7	16166.0	12701.5
27.5°	14965.5	14808.6	14509.7	13985.4	13711.0	13363.1	13720.8	14132.4	16215.0	17126.5	13113.1
30°	17273.5	17136.3	16553.1	15876.9	15156.6	14813.5	14926.3	15151.7	17249.0	18238.8	13657.1
32.5°	20747.8	20458.7	19615.8	18327.0	17347.0	16401.2	16371.8	16611.9	18175.1	19777.5	14303.9
35°	24574.9	24486.7	23246.9	21919.0	20022.5	18562.3	18586.8	18714.2	19949.0	21796.4	15151.7
37.5°	27118.1	27603.3	26814.3	25388.3	23795.8	21708.2	21179.0	21223.1	22384.5	24187.8	16680.6
40°	29083.2	28671.5	28764.6	28431.4	27343.6	25922.5	24751.3	24521.0	25202.1	26833.9	18199.6
42.5°	28225.6	28245.2	28818.5	29607.5	29877.0	29774.1	28578.4	28142.3	27613.1	28999.9	19645.2
45°	25804.9	26309.6	27054.4	29142.0	30974.7	32694.7	32459.5	31734.2	29279.2	30715.0	20478.3
47.5°	21943.5	21923.9	23144.0	25858.8	29930.9	33958.9	35027.2	34517.6	30460.1	30523.8	20306.8
48°	20517.5	20870.3	22129.7	25324.6	29269.4	33772.7	35257.5	34615.6	30259.2	30269.0	20159.7
50°	15166.4	15102.7	16670.8	20591.0	26143.0	31734.2	34287.3	34787.1	30254.3	28980.3	19130.7
52.5°	8012.0	8286.4	9428.1	12946.5	18483.9	25971.5	30244.5	31023.7	29186.1	26873.1	17650.8
55°	3405.7	3077.4	3954.5	5846.0	10398.4	17351.9	22188.5	23923.2	24677.8	23781.1	15440.8
57.5°	1215.3	1328.0	1528.9	2200.2	4371.0	9496.7	13230.8	14578.3	17097.1	17449.9	10520.9
60°	779.1	793.8	857.5	1009.5	1641.6	3660.5	6277.3	7350.4	8492.2	8766.6	4910.1
62.5°	602.7	607.6	637.0	661.5	779.1	1421.1	2357.0	2793.2	2901.0	2494.2	1288.8
65°	504.7	509.6	519.4	519.4	553.7	666.4	823.2	906.6	882.1	872.2	730.1
67.5°	387.1	396.9	416.5	416.5	436.1	406.7	455.7	485.1	548.8	666.4	622.3
70°	303.8	308.7	323.4	333.2	333.2	294.0	328.3	357.7	401.8	494.9	490.0
72.5°	235.2	245.0	254.8	254.8	240.1	200.9	235.2	259.7	289.1	343.0	333.2
75°	181.3	181.3	186.2	151.9	117.6	102.9	142.1	171.5	215.6	225.4	186.2
77.5°	49.0	53.9	49.0	44.1	49.0	73.5	93.1	107.8	137.2	137.2	122.5
80°	0.0	4.9	14.7	29.4	49.0	68.6	83.3	93.1	107.8	117.6	112.7
82.5°	0.0	4.9	14.7	29.4	44.1	53.9	73.5	78.4	88.2	102.9	102.9
85°	0.0	4.9	9.8	19.6	29.4	34.3	34.3	29.4	29.4	24.5	19.6
87.5°	0.0	0.0	4.9	9.8	9.8	14.7	14.7	14.7	14.7	14.7	14.7
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°	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5	9707.5
2.5°	9756.5	9604.5	9374.2	9011.6	8663.7	8438.3	8222.7	7982.6	7850.2	7840.4	7766.9
5°	9874.1	9531.0	8982.2	8359.9	7693.4	7120.1	6541.9	6164.6	5826.4	5640.2	5605.9
7.5°	9937.8	9491.8	8604.9	7561.1	6424.3	5488.3	4841.5	4366.1	4179.9	4042.7	4037.8
10°	10070.1	9423.2	8041.4	6502.7	5096.3	4150.5	3704.6	3489.0	3386.1	3346.9	3288.1
12.5°	10168.1	9295.8	7463.1	5414.8	4028.0	3440.0	3244.0	3195.0	3199.9	3219.5	3195.0
15°	10305.3	9183.1	6684.0	4444.6	3381.2	3097.0	3097.0	3106.8	3175.4	3185.2	3180.3
17.5°	10295.5	8962.6	5880.3	3660.5	2989.2	2950.0	2964.7	3057.8	3101.9	3116.6	3082.3
20°	10413.1	8756.8	5052.2	3126.4	2768.7	2827.5	2925.5	2950.0	3003.9	3013.7	2974.5
22.5°	10378.8	8242.3	4282.8	2705.0	2602.0	2714.8	2812.8	2842.2	2827.5	2798.1	2793.2
25°	10315.1	7801.2	3577.2	2425.6	2479.5	2602.0	2695.2	2641.3	2611.8	2616.7	2621.6
27.5°	10202.4	7242.6	2994.1	2229.6	2312.9	2494.2	2489.3	2469.7	2499.1	2474.6	2499.1
30°	10182.8	6684.0	2513.8	2053.2	2190.4	2322.7	2332.5	2366.8	2401.1	2357.0	2401.1
32.5°	10212.2	6071.4	2170.8	1945.4	2116.9	2121.8	2229.6	2263.9	2239.4	2141.4	2151.2
35°	10437.6	5601.0	1920.9	1886.6	1999.3	2004.2	2107.1	2063.0	1955.2	1896.4	1930.7
37.5°	10912.9	5209.0	1803.3	1832.7	1842.5	1906.2	1911.1	1822.9	1832.7	1827.8	1847.4
40°	11520.6	4910.1	1720.0	1783.7	1773.9	1818.0	1641.6	1690.6	1734.7	1749.4	1759.2
42.5°	11937.1	4694.5	1666.1	1705.3	1685.7	1607.3	1509.3	1558.3	1592.6	1646.5	1656.3
45°	12123.3	4523.0	1602.4	1568.1	1568.1	1426.0	1386.8	1396.6	1475.0	1533.8	1524.0
47.5°	11819.5	4356.3	1489.7	1386.8	1421.1	1303.5	1259.4	1259.4	1342.7	1416.2	1401.5
48°	11701.9	4287.7	1494.6	1347.6	1372.1	1283.9	1239.8	1230.0	1323.1	1391.7	1391.7
50°	11118.7	4032.9	1367.2	1239.8	1190.8	1181.0	1151.6	1161.4	1220.2	1283.9	1283.9
52.5°	9981.9	3484.1	1156.5	1063.4	975.2	1034.0	1048.7	1029.1	1058.5	1117.3	1112.4
55°	8330.5	2675.6	926.2	882.1	813.4	877.2	906.6	882.1	852.6	896.8	896.8
57.5°	5336.4	1440.7	739.9	749.7	681.1	744.8	769.3	710.5	656.6	690.9	686.0
60°	2406.0	862.4	607.6	592.9	548.8	622.3	661.5	592.9	519.4	543.9	568.4
62.5°	901.7	612.5	460.6	450.8	441.0	509.6	529.2	475.3	401.8	416.5	421.4
65°	661.5	539.0	367.5	333.2	352.8	401.8	392.0	338.1	289.1	289.1	298.9
67.5°	563.5	470.4	298.9	259.7	259.7	264.6	245.0	215.6	200.9	210.7	220.5
70°	441.0	372.4	235.2	200.9	181.3	161.7	142.1	137.2	122.5	137.2	132.3
72.5°	284.2	249.9	181.3	151.9	137.2	112.7	93.1	88.2	73.5	68.6	68.6
75°	151.9	151.9	142.1	122.5	107.8	88.2	73.5	58.8	39.2	29.4	29.4
77.5°	107.8	117.6	127.4	117.6	98.0	73.5	58.8	39.2	19.6	9.8	9.8
80°	102.9	117.6	127.4	112.7	98.0	73.5	53.9	29.4	14.7	4.9	4.9
82.5°	93.1	107.8	117.6	102.9	88.2	63.7	49.0	29.4	14.7	4.9	4.9
85°	19.6	24.5	29.4	29.4	34.3	44.1	34.3	24.5	9.8	4.9	4.9
87.5°	14.7	14.7	14.7	14.7	14.7	14.7	9.8	9.8	4.9	4.9	4.9
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)