

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: P458134

Luminaire Tested: **GALN-SA9C-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41989 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

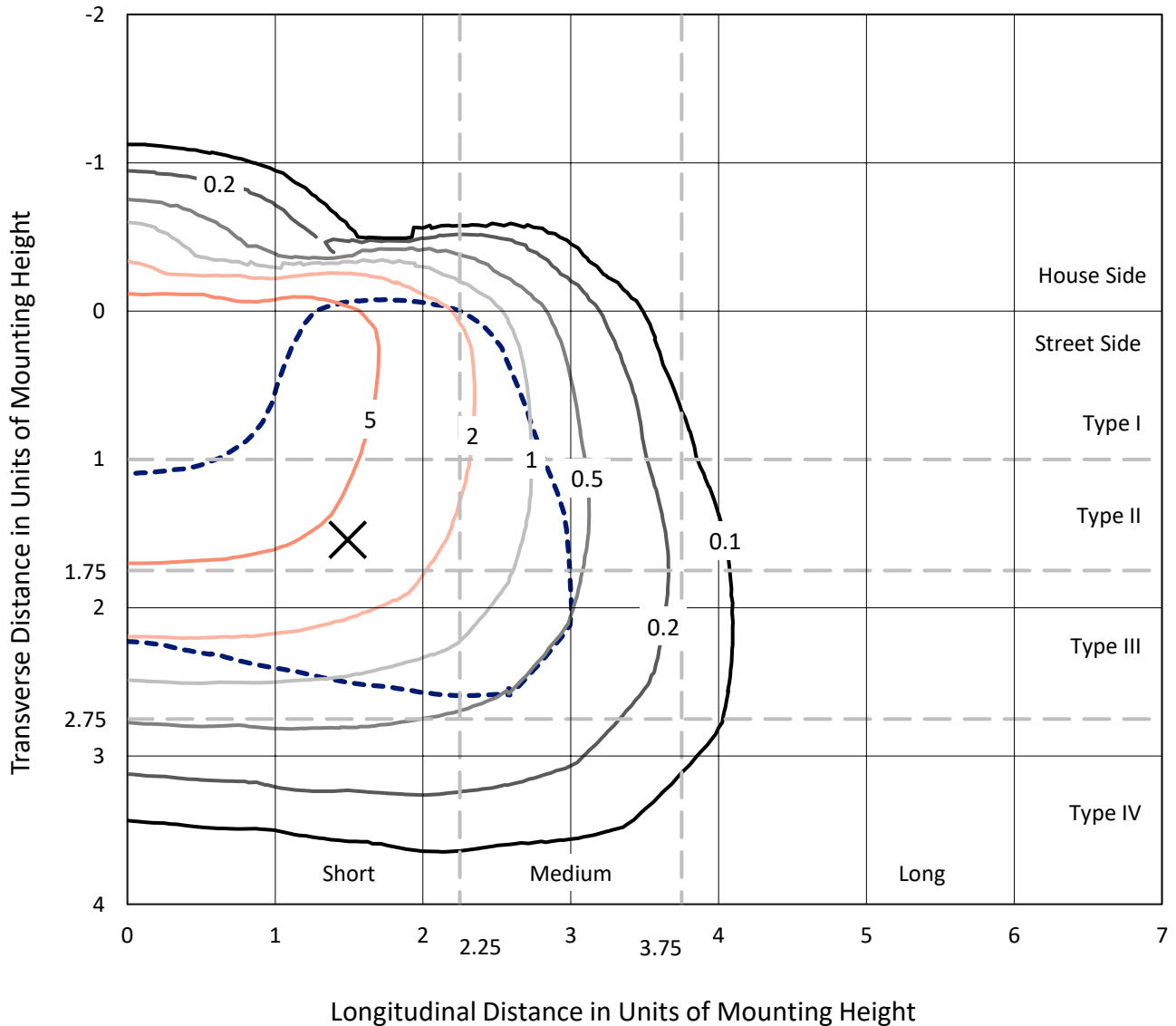
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

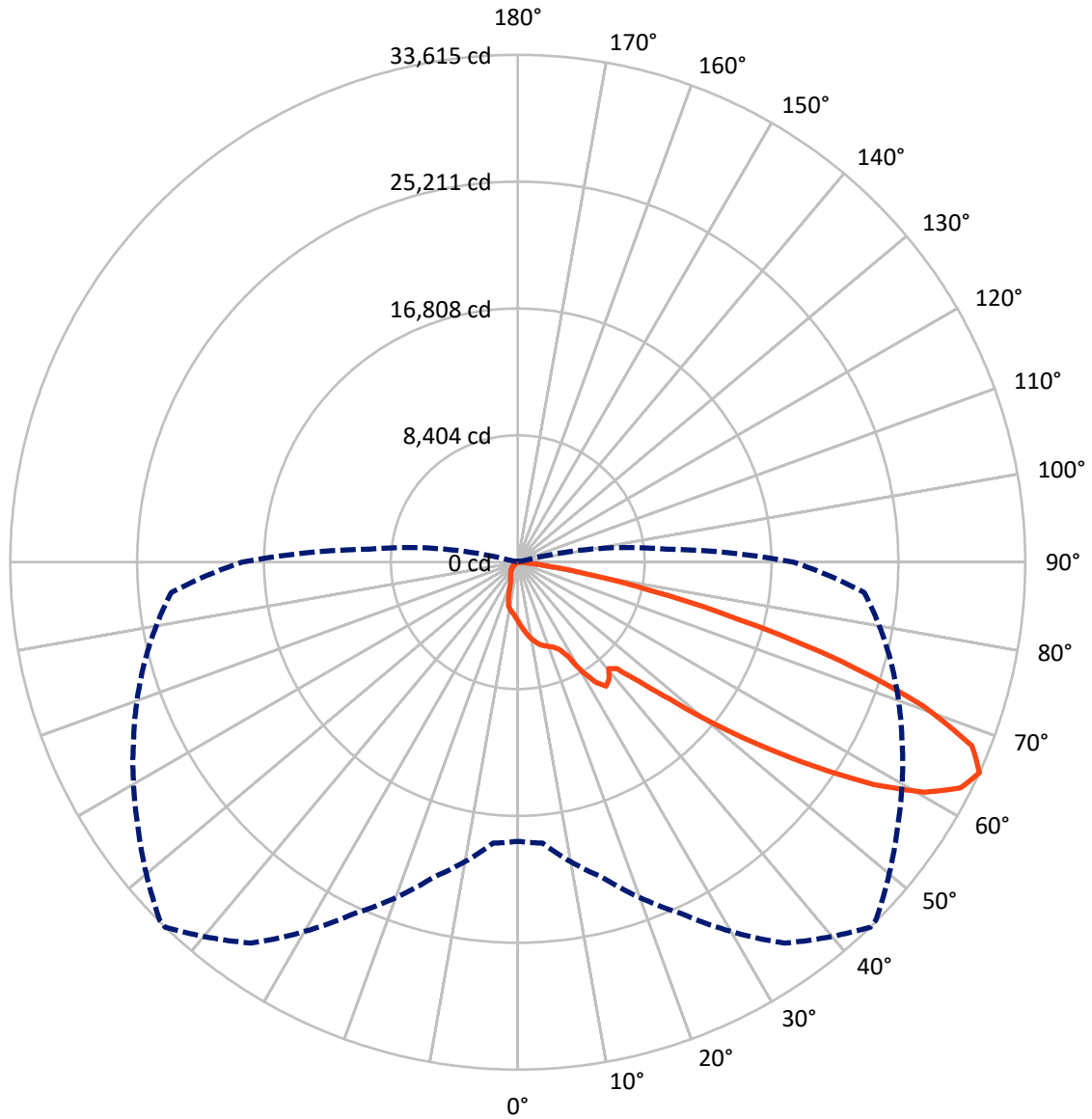
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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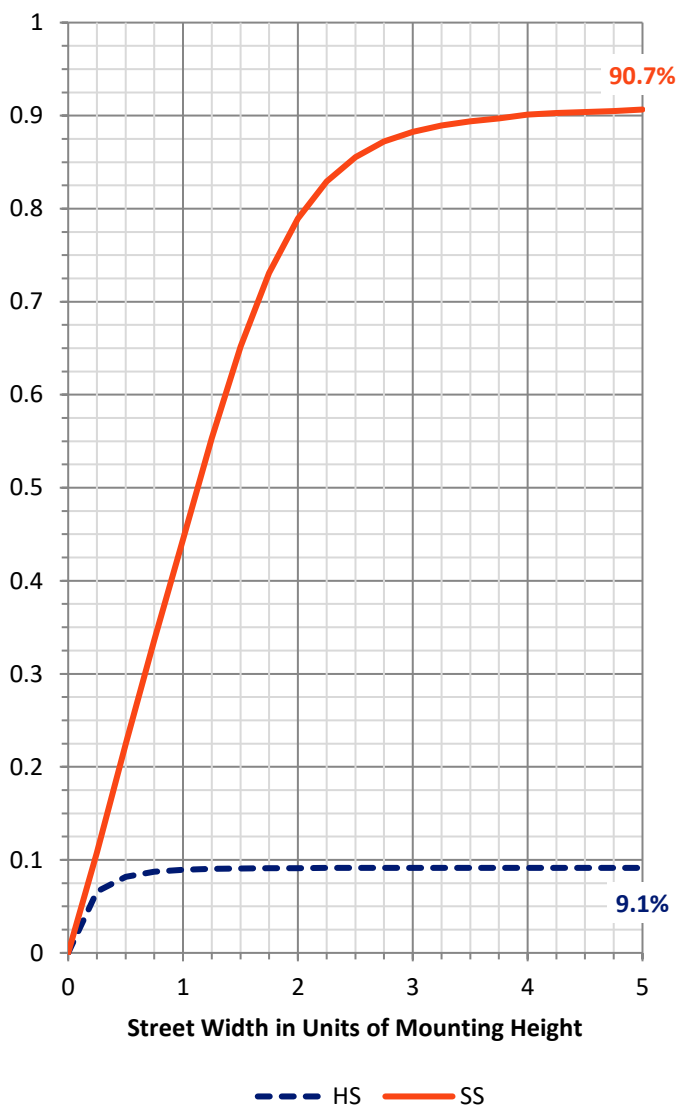
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3868.6	0.0	3868.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	38120.3	0.0	38120.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	41989.0	0.0	41989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.7	0.9
10°-20°	1169.8	2.8
20°-30°	1983.6	4.7
30°-40°	3298.0	7.9
40°-50°	5758.4	13.7
50°-60°	11249.9	26.8
60°-70°	13052.5	31.1
70°-80°	4753.1	11.3
80°-90°	334.9	0.8
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°	41989.0	100.0
0°-180°	41989.0	100.0

**Coefficient of Utilization**



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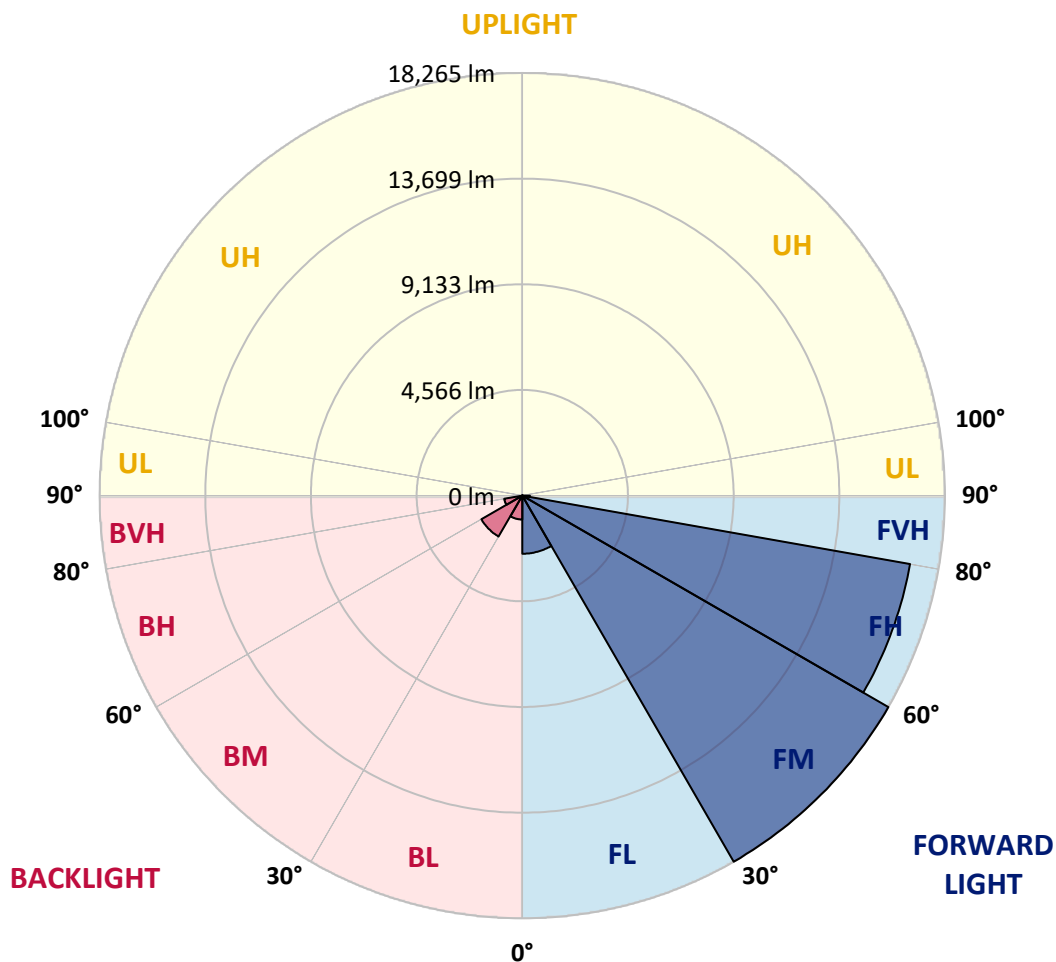
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2511.3	6.0			
FM	(30°-60°)	18265.3	43.5			
FH	(60°-80°)	17013.4	40.5			G5
FVH	(80°-90°)	330.3	0.8			G3/500
BL	(0°-30°)	1030.7	2.5	B3/2500		
BM	(30°-60°)	2041.1	4.9	B2/2500		
BH	(60°-80°)	792.2	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
2.5°	4398.8	4379.6	4369.9	4318.6	4280.1	4232.0	4232.0	4171.0	4100.4	4023.4	3952.8
5°	4889.7	4857.6	4815.9	4771.0	4681.2	4552.8	4552.8	4424.5	4276.9	4145.4	4001.0
7.5°	5361.4	5332.5	5261.9	5175.3	5027.7	4892.9	4883.3	4697.2	4520.7	4321.8	4116.5
10°	5775.3	5752.8	5691.8	5525.0	5371.0	5194.5	5191.3	4982.8	4777.4	4533.6	4280.1
12.5°	6064.0	6067.2	5987.0	5826.6	5627.7	5460.8	5448.0	5242.6	5027.7	4764.6	4453.4
15°	6269.4	6269.4	6185.9	6006.3	5826.6	5679.0	5666.2	5486.5	5265.1	4979.6	4642.7
17.5°	6327.1	6346.4	6256.5	6096.1	5951.7	5823.4	5820.2	5669.4	5492.9	5217.0	4835.2
20°	6304.7	6323.9	6253.3	6128.2	6028.7	5954.9	5945.3	5884.3	5720.7	5460.8	5040.5
22.5°	6256.5	6275.8	6224.4	6150.6	6102.5	6125.0	6108.9	6160.3	6073.6	5759.2	5284.4
25°	6266.2	6285.4	6246.9	6205.2	6246.9	6384.9	6426.6	6648.0	6571.0	6137.8	5547.5
27.5°	6567.8	6606.3	6551.7	6571.0	6718.5	7039.4	7119.6	7501.4	7161.3	6619.1	5958.1
30°	7238.3	7212.7	7110.0	7203.0	7716.4	8396.6	8374.1	8313.2	7780.6	7174.2	6445.8
32.5°	7847.9	7825.5	7819.1	8220.1	9150.6	9481.0	9465.0	8874.6	8335.6	7809.4	6927.1
35°	8095.0	8008.4	7989.1	8961.3	10517.4	10081.0	9981.6	9105.7	9009.4	8502.5	7418.0
37.5°	8839.4	8778.4	8480.0	9083.2	9971.9	9827.6	9750.6	9503.5	9728.1	9115.3	7973.1
40°	10373.0	10203.0	9933.4	9343.1	9198.7	9259.7	9336.7	10013.7	10578.3	9952.7	8714.2
42.5°	12278.8	12240.3	11739.8	10639.3	9558.0	9641.5	9740.9	11078.9	11800.8	11213.6	9923.8
45°	14566.5	14621.0	13899.1	12599.7	11181.5	11252.1	11396.5	12651.0	13456.3	13174.0	11826.4
47.5°	16645.6	16603.9	16360.0	15009.3	13700.2	13543.0	13777.2	14669.2	15747.2	15792.1	14187.9
50°	18737.5	18958.9	18596.3	18066.9	17094.8	16764.3	16677.7	17114.0	18756.8	18541.8	17024.2
52.5°	21743.8	21859.3	21179.1	21044.4	21265.8	20194.1	20107.5	20213.4	21682.9	20944.9	19148.2
55°	23633.6	23566.3	23312.8	24365.2	25241.1	23903.1	23794.1	23367.3	24111.7	22642.2	21192.0
57.5°	24230.4	24326.7	24917.0	26819.7	28892.3	27756.5	27557.6	26344.8	25863.5	24224.0	23072.2
60°	23964.1	24140.6	25414.3	28244.2	31119.0	30949.0	30778.9	28741.5	27121.2	25545.9	24390.8
62.5°	22067.9	22315.0	24352.3	27990.7	31873.0	32935.0	32723.2	30236.7	27958.7	26187.6	24621.8
65°	18493.7	18676.5	21602.7	25690.3	30801.4	33615.2	33538.2	30705.1	28090.2	25600.4	23040.1
67.5°	13183.6	13806.1	16517.2	21650.8	27631.4	32453.7	32585.3	30143.6	26854.9	23062.5	19080.8
70°	8287.5	8711.0	10655.3	15500.1	22151.3	28472.0	28905.2	27573.6	23306.4	17977.1	12772.9
72.5°	3952.8	4267.3	5653.3	9811.5	15634.9	22401.6	22744.9	22635.8	18022.0	11325.9	6590.2
75°	1761.5	1880.2	2698.3	5008.4	10093.9	15057.4	15946.1	16093.7	11261.8	5541.0	2563.6
77.5°	898.4	901.6	1264.1	2425.6	5040.5	8983.7	9160.2	9676.8	6105.7	2441.7	892.0
80°	478.1	510.1	670.6	1145.4	2614.9	4424.5	4402.0	4838.4	2708.0	1196.8	298.4
82.5°	215.0	237.4	378.6	600.0	1277.0	1678.0	1809.6	1979.6	1161.5	763.6	131.5
85°	64.2	77.0	186.1	301.6	462.0	484.5	542.2	699.4	657.7	542.2	67.4
87.5°	9.6	9.6	77.0	83.4	67.4	86.6	89.8	99.5	211.8	198.9	35.3
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°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
2.5°	3914.3	3891.9	3811.7	3744.3	3686.5	3651.2	3609.5	3583.9	3571.0	3561.4	3564.6
5°	3930.4	3875.8	3737.9	3628.8	3545.4	3455.5	3394.6	3359.3	3343.2	3317.6	3317.6
7.5°	4020.2	3933.6	3741.1	3574.2	3429.9	3307.9	3192.4	3150.7	3121.8	3115.4	3109.0
10°	4148.6	4039.5	3776.4	3545.4	3340.0	3173.2	3009.6	2865.2	2752.9	2685.5	2675.9
12.5°	4309.0	4151.8	3830.9	3526.1	3263.0	2967.8	2534.7	2242.7	2047.0	1986.0	1995.7
15°	4456.6	4286.5	3885.5	3510.1	3121.8	2460.9	1970.0	1636.3	1536.9	1527.2	1530.4
17.5°	4633.0	4430.9	3949.6	3487.6	2733.6	1880.2	1463.1	1373.2	1392.5	1424.6	1421.4
20°	4815.9	4584.9	4026.6	3352.9	2181.8	1414.9	1293.0	1302.6	1331.5	1360.4	1366.8
22.5°	5011.6	4761.4	4116.5	3028.8	1665.2	1232.1	1225.6	1238.5	1267.3	1299.4	1305.8
25°	5281.2	4982.8	4183.9	2605.3	1260.9	1139.0	1151.8	1174.3	1200.0	1235.3	1241.7
27.5°	5627.7	5281.2	4219.1	2053.4	1090.9	1055.6	1058.8	1090.9	1123.0	1155.1	1155.1
30°	6076.9	5637.3	4148.6	1552.9	1007.5	975.4	962.5	981.8	1023.5	1055.6	1058.8
32.5°	6477.9	5974.2	3962.5	1187.1	946.5	901.6	869.5	872.7	888.7	908.0	911.2
35°	6879.0	6301.4	3644.8	997.8	882.3	831.0	782.9	757.2	744.4	734.7	744.4
37.5°	7392.3	6708.9	3221.3	908.0	827.8	763.6	696.2	641.7	596.8	567.9	574.3
40°	8053.3	7273.6	2720.8	850.2	776.5	699.4	609.6	539.0	462.0	436.4	423.5
42.5°	9144.2	8130.3	2194.6	802.1	725.1	632.1	519.8	423.5	352.9	327.3	333.7
45°	10867.1	9211.5	1690.9	750.8	673.8	558.3	436.4	333.7	275.9	263.1	269.5
47.5°	13151.5	10610.4	1302.6	693.0	609.6	478.1	343.3	263.1	227.8	224.6	221.4
50°	15301.2	11913.1	1087.7	628.9	532.6	397.9	282.3	221.4	198.9	195.7	195.7
52.5°	17245.6	12846.7	885.5	555.1	449.2	327.3	237.4	195.7	176.5	166.8	166.8
55°	18974.9	13456.3	718.7	465.2	352.9	259.9	205.3	176.5	154.0	141.2	138.0
57.5°	20280.8	13530.1	539.0	372.2	263.1	202.1	176.5	154.0	128.3	112.3	105.9
60°	20839.1	12891.7	397.9	282.3	195.7	160.4	141.2	125.1	96.3	80.2	77.0
62.5°	20277.6	11650.0	295.2	215.0	150.8	118.7	99.5	93.0	67.4	48.1	44.9
65°	18265.9	9856.4	234.2	163.6	112.3	86.6	64.2	61.0	41.7	22.5	19.3
67.5°	14633.9	7719.6	186.1	121.9	80.2	57.8	41.7	38.5	22.5	6.4	6.4
70°	9516.3	4934.6	150.8	89.8	51.3	38.5	25.7	19.3	12.8	3.2	0.0
72.5°	4706.8	2306.9	121.9	70.6	35.3	19.3	9.6	6.4	9.6	0.0	0.0
75°	1825.6	821.4	89.8	48.1	19.3	9.6	6.4	0.0	3.2	0.0	0.0
77.5°	606.4	272.7	54.5	25.7	12.8	6.4	0.0	0.0	0.0	0.0	0.0
80°	224.6	105.9	28.9	16.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	89.8	41.7	19.3	12.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.9	25.7	12.8	9.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.1	19.3	12.8	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0
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)