

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: P456116

Luminaire Tested: **GALN-SA7B-760-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-760-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32601 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

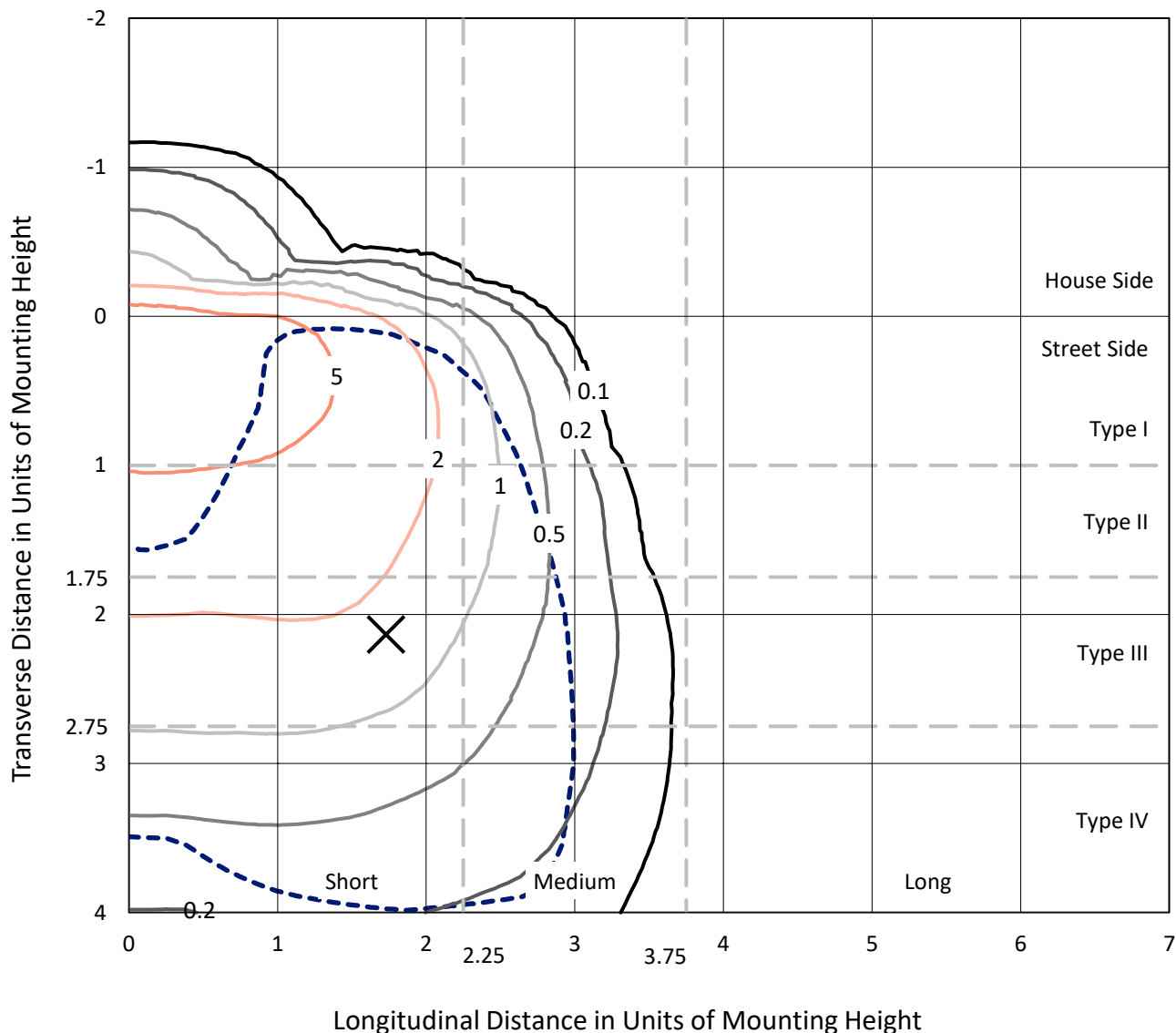
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

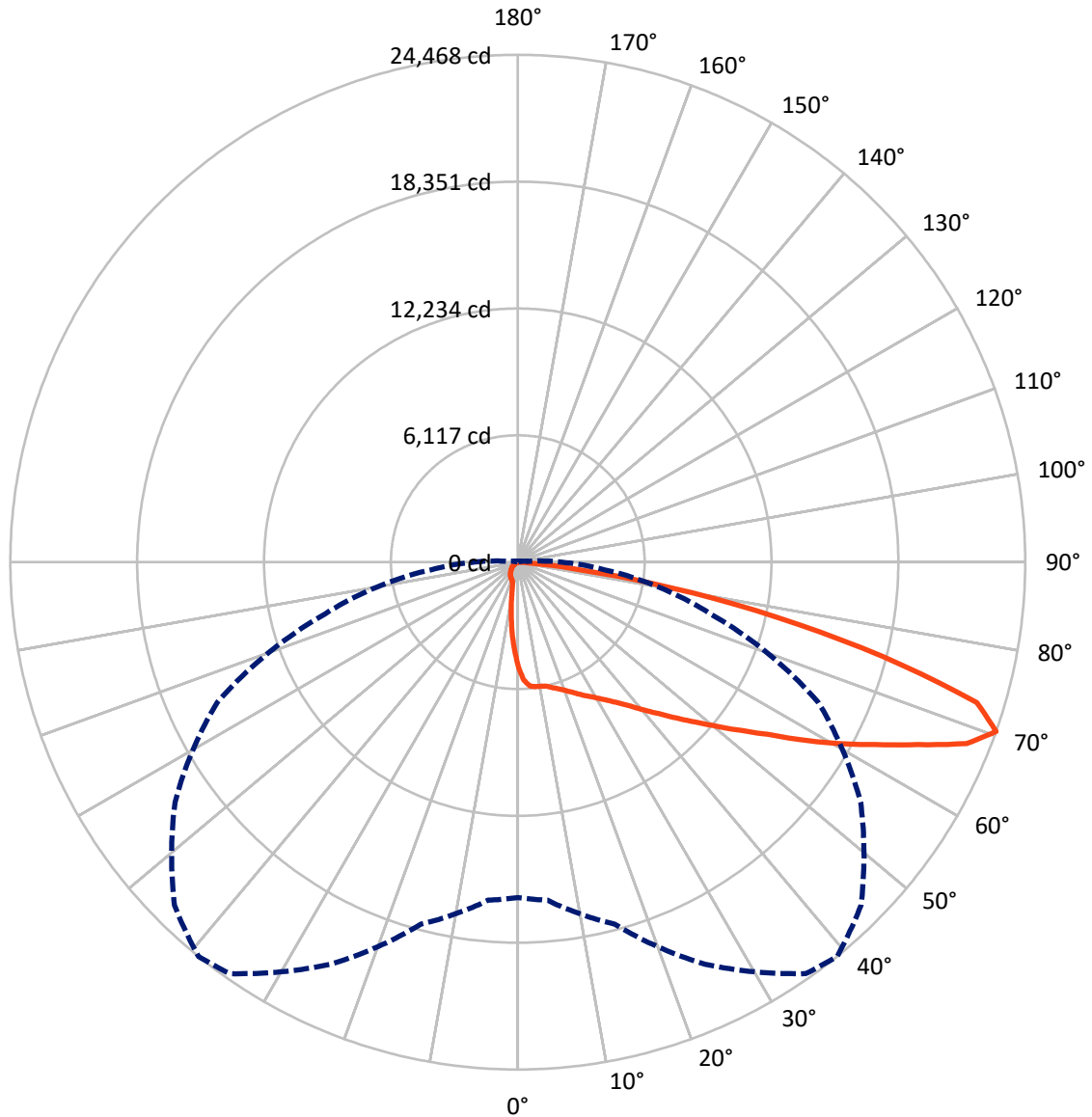
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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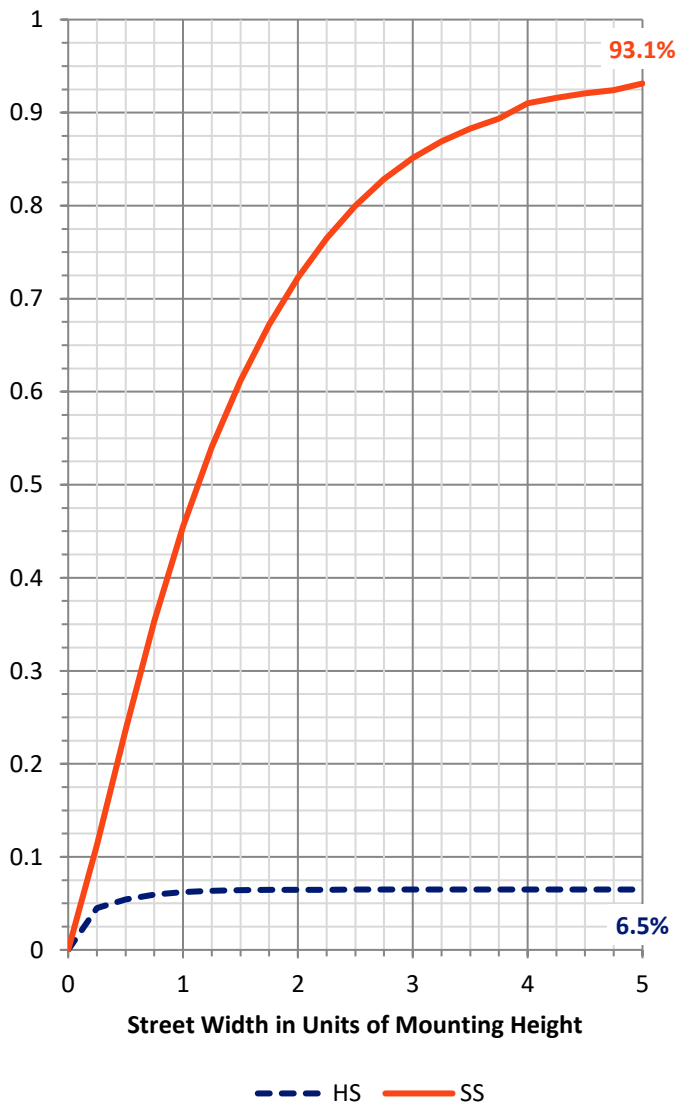
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2125.7	0.0	2125.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	30475.3	0.0	30475.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	32601.0	0.0	32601.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.9	1.3
10°-20°	1127.5	3.5
20°-30°	1888.9	5.8
30°-40°	2929.5	9.0
40°-50°	4642.3	14.2
50°-60°	6804.9	20.9
60°-70°	8722.3	26.8
70°-80°	5480.8	16.8
80°-90°	571.0	1.8
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°	32601.0	100.0
0°-180°	32601.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456116

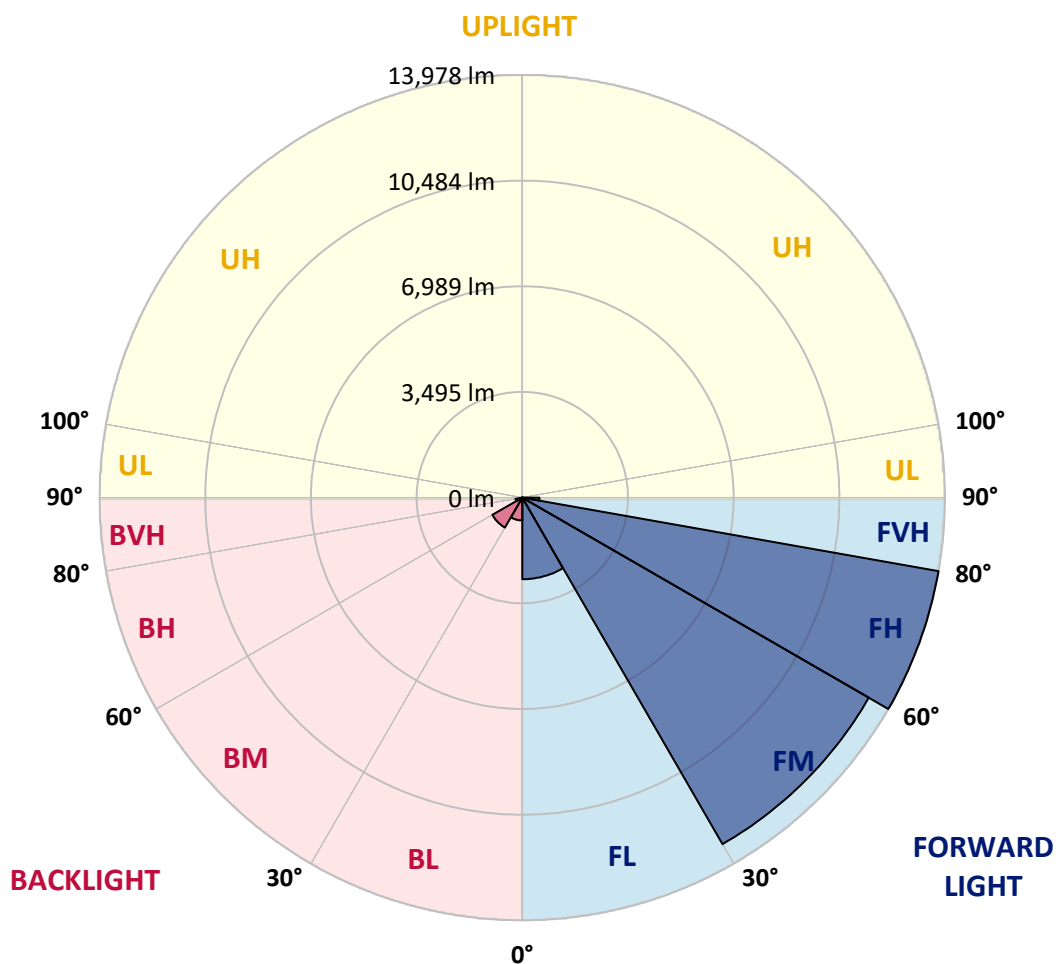
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2697.6	8.3			
FM	(30°-60°)	13232.7	40.6			
FH	(60°-80°)	13978.2	42.9			G5
FVH	(80°-90°)	566.8	1.7			G4/750
BL	(0°-30°)	752.7	2.3	B2/1000		
BM	(30°-60°)	1144.0	3.5	B2/2500		
BH	(60°-80°)	224.8	0.7	B1/500		G1/500
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9
2.5°	5877.7	5858.0	5831.7	5801.1	5713.4	5698.1	5645.5	5533.8	5400.1	5290.6	5139.5
5°	6156.0	6166.9	6147.2	6092.4	6028.9	5991.6	5925.9	5752.9	5579.8	5358.5	5111.0
7.5°	6219.5	6241.4	6217.3	6164.7	6103.4	6063.9	6011.4	5862.4	5660.8	5408.9	5069.3
10°	6212.9	6239.2	6223.9	6175.7	6125.3	6088.0	6031.1	5912.8	5750.7	5485.6	5082.5
12.5°	6202.0	6237.0	6234.8	6210.7	6169.1	6140.6	6105.6	6000.4	5849.2	5597.3	5154.8
15°	6171.3	6215.1	6254.5	6274.2	6276.4	6276.4	6232.6	6120.9	5976.3	5744.1	5249.0
17.5°	6184.4	6234.8	6333.4	6390.4	6429.8	6425.4	6379.4	6258.9	6099.0	5895.3	5347.6
20°	6265.5	6333.4	6471.4	6585.3	6624.8	6611.6	6550.3	6410.1	6228.2	6024.5	5444.0
22.5°	6464.8	6526.2	6699.3	6832.9	6861.4	6826.3	6738.7	6548.1	6383.8	6164.7	5560.1
25°	6762.8	6835.1	6995.0	7095.8	7095.8	7076.1	6953.4	6729.9	6559.0	6359.7	5711.2
27.5°	7124.3	7185.6	7343.3	7433.1	7380.6	7323.6	7200.9	6931.5	6767.2	6605.0	5893.1
30°	7490.1	7529.5	7696.0	7735.5	7680.7	7608.4	7477.0	7207.5	7062.9	6938.0	6156.0
32.5°	7836.2	7921.7	8059.7	8050.9	7976.4	7941.4	7820.9	7533.9	7452.9	7439.7	6524.0
35°	8182.4	8248.1	8370.8	8401.4	8335.7	8329.2	8241.5	8029.0	8031.2	8116.7	7098.0
37.5°	8480.3	8539.5	8684.1	8752.0	8765.1	8798.0	8762.9	8622.7	8822.1	9056.5	7858.1
40°	8730.1	8813.3	8997.3	9115.6	9251.5	9371.9	9378.5	9409.2	9810.1	10213.2	8850.5
42.5°	8925.0	9041.1	9308.4	9527.5	9838.6	9991.9	10114.6	10283.3	10958.0	11560.5	10020.4
45°	9179.2	9312.8	9645.8	9989.7	10476.1	10728.0	10898.9	11350.2	12307.5	13129.0	11220.9
47.5°	9599.8	9669.9	10009.4	10511.1	11150.8	11510.1	11843.1	12526.6	13755.6	14491.7	12219.9
50°	10140.9	10186.9	10443.2	11139.9	11968.0	12441.2	13048.0	13852.0	15258.4	15622.1	12785.1
52.5°	10739.0	10754.3	10947.1	11832.1	12883.7	13479.6	14158.7	15151.1	16483.0	16428.3	13159.7
55°	11433.4	11411.5	11575.8	12583.6	13968.1	14649.4	15440.3	16480.9	17545.6	17000.1	13374.4
57.5°	12228.7	12169.5	12329.4	13580.3	15357.0	16172.0	16976.0	17628.8	18369.3	17479.8	13477.4
60°	13061.1	12942.8	13133.4	14699.8	16993.5	17766.8	18435.0	18610.2	19236.8	17861.0	13299.9
62.5°	13724.9	13727.1	14082.0	15891.6	18676.0	19352.9	19707.8	19865.5	19983.8	17777.8	12366.7
65°	14761.1	14796.2	15363.6	17545.6	20623.5	21210.6	21453.8	20941.2	20016.7	16743.7	10964.6
67.5°	15830.2	15941.9	16980.3	19823.9	22873.4	23346.6	23033.3	21149.3	19122.9	14384.3	8313.8
70°	16178.5	16362.6	18073.5	21392.5	24222.9	24468.3	23407.9	20178.8	15985.8	9617.3	4184.3
72.5°	14824.7	15122.6	17444.8	20820.7	23361.9	23149.4	20943.4	16923.4	10162.8	3651.9	1277.2
75°	10454.2	10585.6	14498.2	17271.7	18789.9	18187.4	15931.0	10909.8	4179.9	1025.3	438.1
77.5°	5398.0	5334.4	8622.7	11459.7	13400.7	12776.3	10432.3	5647.7	1583.9	427.2	271.7
80°	2791.0	2837.0	3730.8	6004.8	8180.2	7527.3	5562.3	2617.9	843.4	236.6	208.1
82.5°	1564.2	1467.8	2144.7	2622.3	3825.0	2999.1	2133.8	1853.4	368.0	142.4	197.2
85°	284.8	297.9	1176.4	1417.4	1327.6	843.4	687.9	1237.8	107.3	78.9	138.0
87.5°	4.4	4.4	227.8	407.5	258.5	118.3	216.9	177.4	21.9	30.7	24.1
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°	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9	5086.9
2.5°	5062.8	4979.5	4824.0	4670.6	4475.7	4315.7	4208.4	4096.7	3982.7	3991.5	4017.8
5°	4975.1	4830.6	4523.9	4199.6	3888.5	3608.1	3332.1	3084.5	2983.8	2891.8	2896.1
7.5°	4887.5	4683.8	4234.7	3726.4	3255.4	2777.8	2431.7	2146.9	1995.8	1881.8	1849.0
10°	4848.1	4578.6	3969.6	3270.8	2602.6	2081.2	1636.5	1404.3	1224.6	1167.7	1183.0
12.5°	4865.6	4526.0	3730.8	2858.9	2063.7	1450.3	1139.2	1020.9	981.4	974.9	970.5
15°	4898.5	4488.8	3496.4	2403.2	1516.0	1077.8	957.3	935.4	931.1	926.7	928.9
17.5°	4942.3	4455.9	3246.7	1976.0	1163.3	942.0	907.0	896.0	893.8	893.8	893.8
20°	4986.1	4418.7	2968.4	1594.9	970.5	889.4	867.5	861.0	858.8	858.8	856.6
22.5°	5036.5	4385.8	2685.8	1253.1	893.8	852.2	832.5	828.1	825.9	823.7	823.7
25°	5108.8	4344.2	2385.7	1025.3	845.6	817.1	797.4	793.0	790.9	782.1	784.3
27.5°	5205.2	4313.5	2076.8	885.1	801.8	773.3	760.2	753.6	749.2	742.7	744.8
30°	5336.6	4287.3	1748.2	808.4	751.4	727.3	714.2	709.8	705.4	698.8	698.8
32.5°	5564.5	4298.2	1402.1	747.0	705.4	676.9	663.8	659.4	655.0	648.5	648.5
35°	5906.2	4361.7	1121.7	694.5	650.6	622.2	609.0	609.0	602.5	593.7	591.5
37.5°	6464.8	4523.9	900.4	644.1	598.1	571.8	556.4	552.1	545.5	532.3	530.2
40°	7124.3	4775.8	758.0	593.7	549.9	523.6	510.4	497.3	479.8	466.6	464.4
42.5°	7952.3	5034.3	657.2	543.3	503.9	479.8	464.4	442.5	416.2	398.7	396.5
45°	8815.5	5270.9	589.3	497.3	460.1	440.3	422.8	387.8	354.9	333.0	330.8
47.5°	9459.6	5314.7	534.5	453.5	422.8	403.1	379.0	335.2	291.4	271.7	265.1
50°	9764.1	5102.2	477.6	409.7	385.6	363.7	333.0	282.6	234.4	210.3	205.9
52.5°	9871.4	4734.2	431.6	370.2	348.3	322.0	284.8	227.8	184.0	159.9	157.7
55°	9827.6	4269.7	389.9	333.0	304.5	273.8	236.6	181.8	135.8	116.1	111.7
57.5°	9597.6	3678.2	348.3	295.7	260.7	230.0	188.4	135.8	92.0	74.5	72.3
60°	8977.6	2872.0	306.7	254.1	221.3	188.4	149.0	96.4	57.0	41.6	41.6
62.5°	7930.4	2131.6	267.3	212.5	186.2	151.2	105.2	61.3	30.7	21.9	19.7
65°	6627.0	1572.9	223.5	179.6	155.5	118.3	74.5	37.2	15.3	6.6	4.4
67.5°	4624.6	970.5	186.2	146.8	127.1	85.4	46.0	15.3	6.6	0.0	0.0
70°	2100.9	462.2	142.4	111.7	96.4	61.3	24.1	8.8	4.4	0.0	0.0
72.5°	652.8	243.2	100.8	81.1	65.7	39.4	13.1	6.6	4.4	0.0	0.0
75°	302.3	155.5	63.5	43.8	37.2	19.7	8.8	4.4	2.2	0.0	0.0
77.5°	225.6	120.5	37.2	24.1	19.7	13.1	6.6	4.4	2.2	0.0	0.0
80°	197.2	61.3	21.9	15.3	11.0	8.8	4.4	2.2	0.0	0.0	0.0
82.5°	177.4	30.7	13.1	8.8	6.6	4.4	2.2	2.2	0.0	0.0	0.0
85°	96.4	17.5	8.8	6.6	4.4	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	17.5	8.8	6.6	4.4	4.4	2.2	2.2	2.2	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)