

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: P456783

Luminaire Tested: **GALN-SA8A-750-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456783  
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-SA8A-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA 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: 30376 lumens  
Efficiency: N/A  
Efficacy: 124.5 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

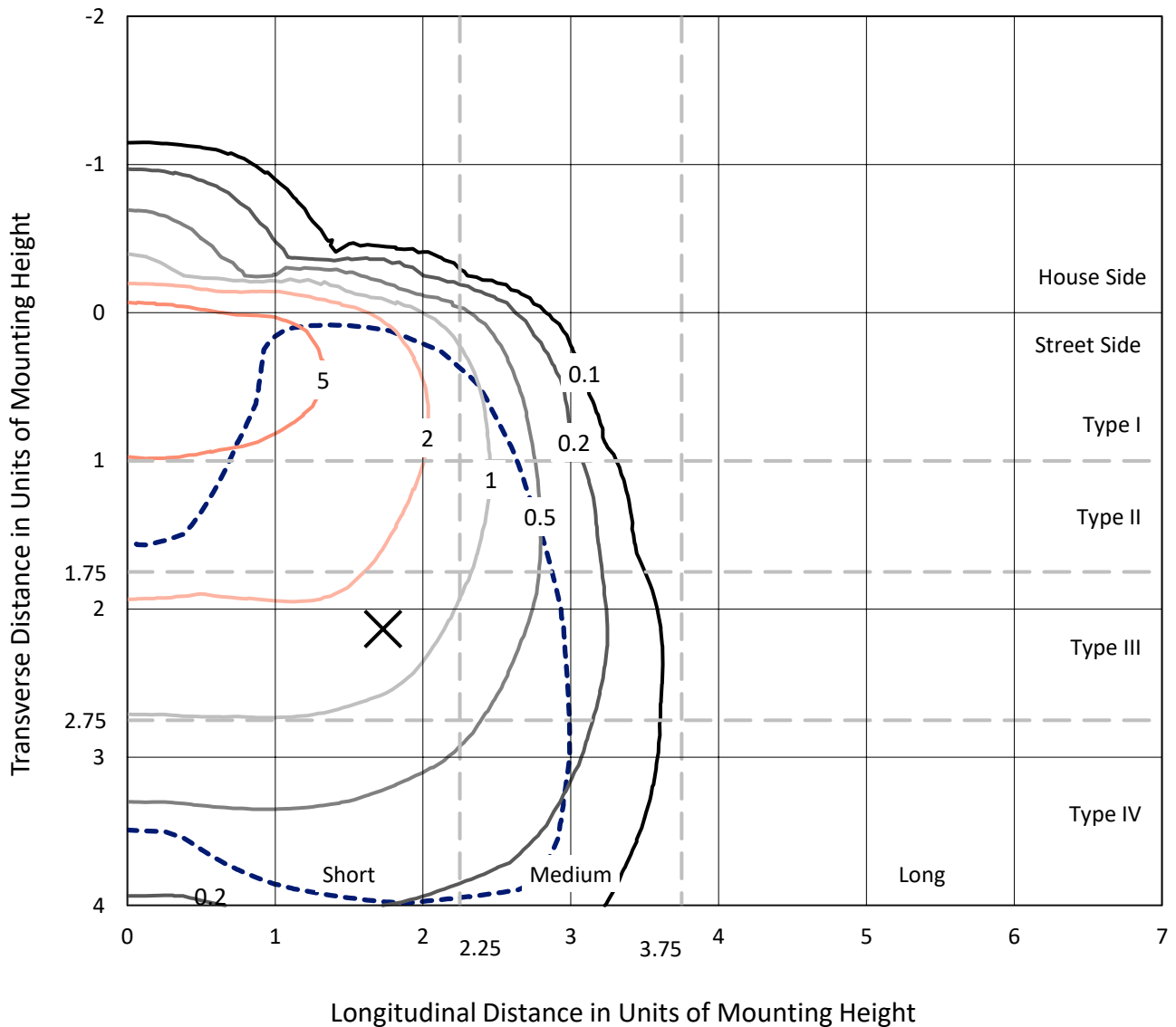
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

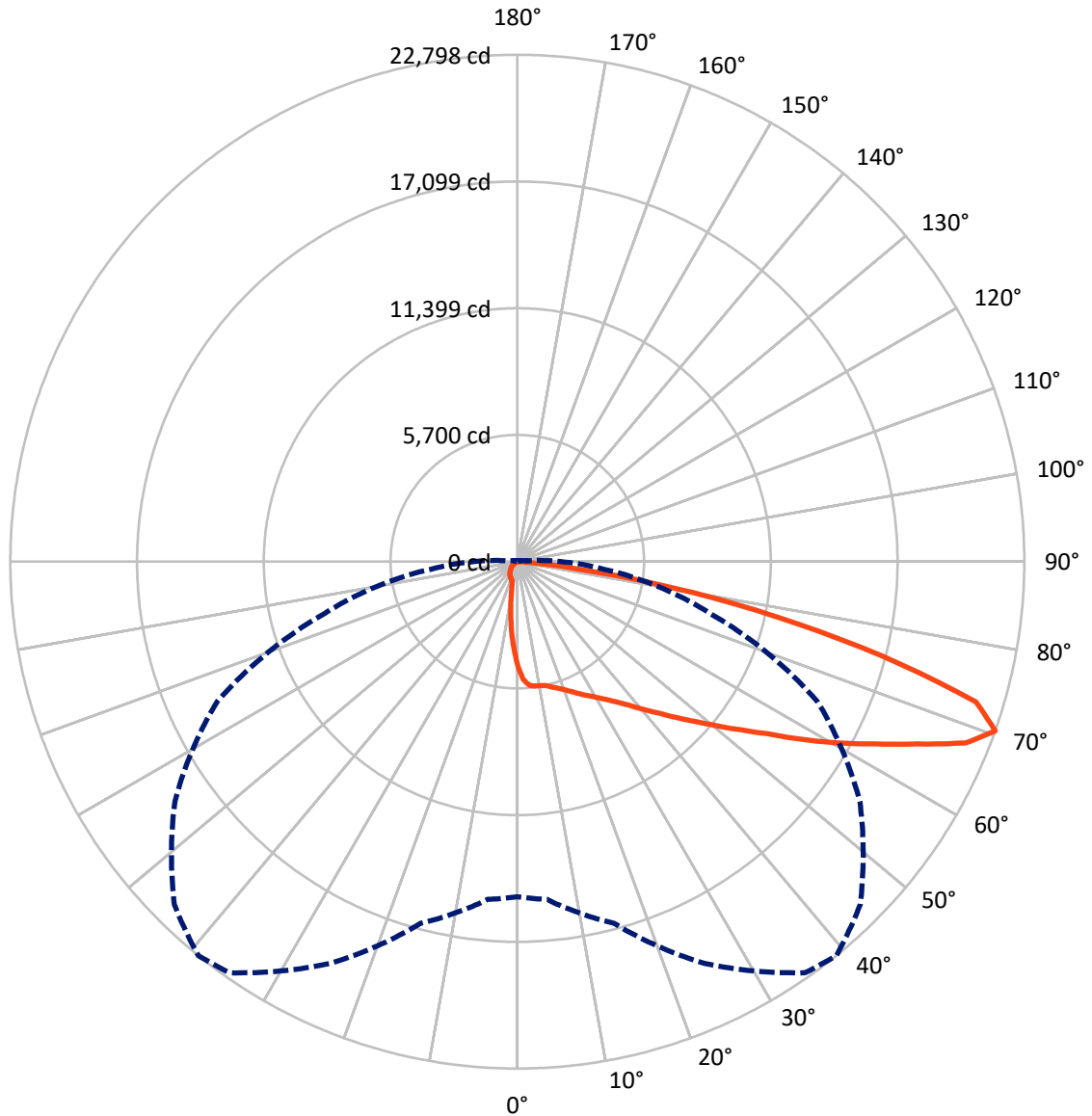
✕ Max cd  
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SA8A-750-U-SL4-HSS

### Luminous Intensity Polar Plot



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



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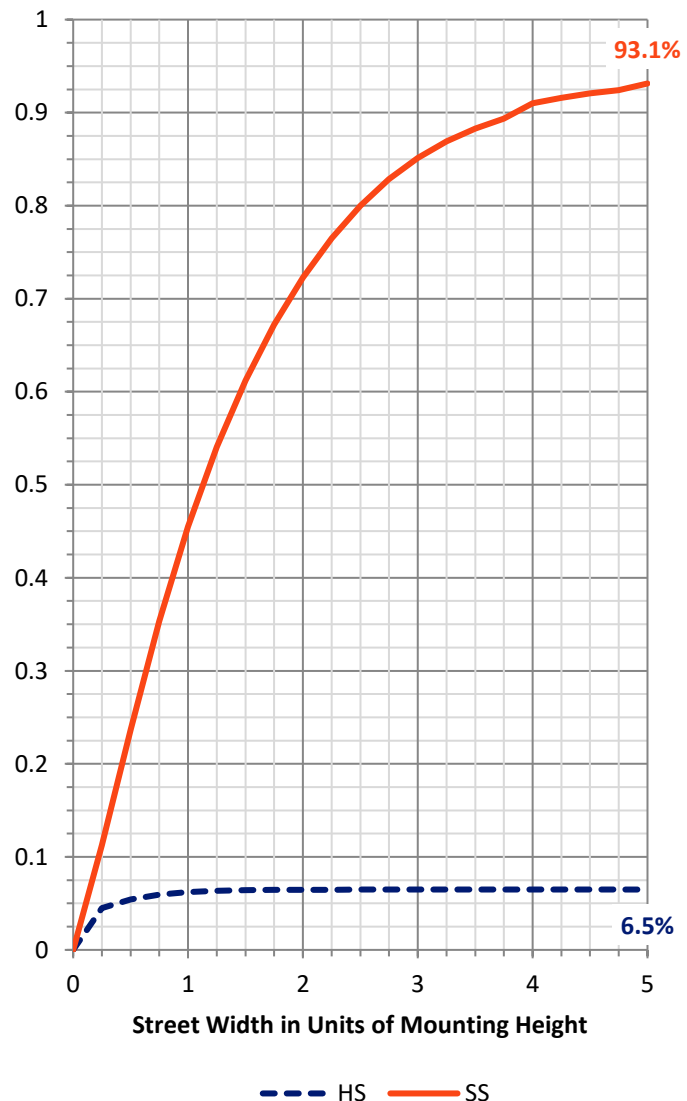
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1980.7	0.0	1980.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	28395.3	0.0	28395.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	30376.0	0.0	30376.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.3	1.3
10°-20°	1050.6	3.5
20°-30°	1760.0	5.8
30°-40°	2729.5	9.0
40°-50°	4325.5	14.2
50°-60°	6340.5	20.9
60°-70°	8127.0	26.8
70°-80°	5106.7	16.8
80°-90°	532.0	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°	30376.0	100.0
0°-180°	30376.0	100.0



REPORT NUMBER: P456783

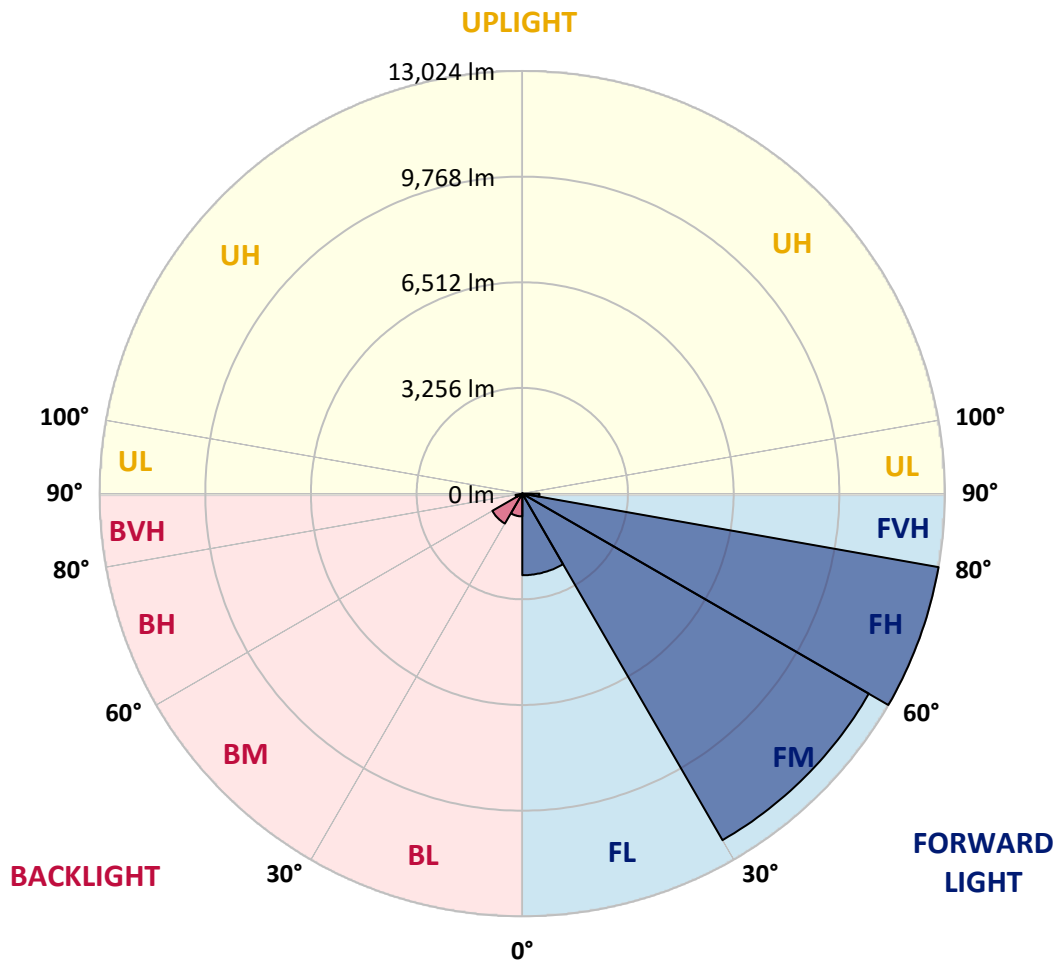
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2513.5	8.3			
FM	(30°-60°)	12329.6	40.6			
FH	(60°-80°)	13024.2	42.9			G5
FVH	(80°-90°)	528.1	1.7			G4/750
BL	(0°-30°)	701.3	2.3	B2/1000		
BM	(30°-60°)	1065.9	3.5	B2/2500		
BH	(60°-80°)	209.5	0.7	B1/500		G1/500
BVH	(80°-90°)	3.9	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°	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7
2.5°	5476.6	5458.2	5433.7	5405.1	5323.5	5309.2	5260.2	5156.1	5031.6	4929.5	4788.7
5°	5735.8	5746.0	5727.6	5676.6	5617.4	5582.7	5521.5	5360.2	5199.0	4992.8	4762.2
7.5°	5795.0	5815.4	5793.0	5744.0	5686.8	5650.1	5601.1	5462.3	5274.5	5039.8	4723.4
10°	5788.9	5813.4	5799.1	5754.2	5707.2	5672.5	5619.5	5509.2	5358.2	5111.2	4735.6
12.5°	5778.7	5811.3	5809.3	5786.8	5748.1	5721.5	5688.9	5590.9	5450.0	5215.3	4803.0
15°	5750.1	5790.9	5827.7	5846.0	5848.1	5848.1	5807.3	5703.2	5568.4	5352.1	4890.7
17.5°	5762.3	5809.3	5901.1	5954.2	5991.0	5986.9	5944.0	5831.7	5682.7	5492.9	4982.6
20°	5837.9	5901.1	6029.7	6135.9	6172.6	6160.4	6103.2	5972.6	5803.2	5613.3	5072.4
22.5°	6023.6	6080.8	6242.0	6366.5	6393.1	6360.4	6278.8	6101.2	5948.1	5744.0	5180.6
25°	6301.2	6368.6	6517.6	6611.5	6611.5	6593.1	6478.8	6270.6	6111.4	5925.6	5321.4
27.5°	6638.0	6695.2	6842.1	6925.8	6876.8	6823.8	6709.5	6458.4	6305.3	6154.3	5490.9
30°	6978.9	7015.7	7170.8	7207.5	7156.5	7089.1	6966.7	6715.6	6580.9	6464.5	5735.8
32.5°	7301.4	7381.0	7509.6	7501.5	7432.1	7399.4	7287.1	7019.7	6944.2	6932.0	6078.7
35°	7623.9	7685.2	7799.5	7828.1	7766.8	7760.7	7679.0	7481.0	7483.1	7562.7	6613.5
37.5°	7901.5	7956.7	8091.4	8154.6	8166.9	8197.5	8164.9	8034.2	8220.0	8438.4	7321.8
40°	8134.2	8211.8	8383.3	8493.5	8620.0	8732.3	8738.4	8767.0	9140.6	9516.1	8246.5
42.5°	8315.9	8424.1	8673.1	8877.2	9167.1	9310.0	9424.3	9581.5	10210.2	10771.5	9336.5
45°	8552.7	8677.2	8987.5	9307.9	9761.1	9995.8	10155.0	10575.5	11467.5	12233.0	10455.1
47.5°	8944.6	9009.9	9326.3	9793.7	10389.8	10724.5	11034.8	11671.7	12816.8	13502.6	11385.9
50°	9448.8	9491.6	9730.5	10379.6	11151.1	11592.1	12157.5	12906.6	14217.1	14555.9	11912.5
52.5°	10006.0	10020.3	10199.9	11024.6	12004.4	12559.6	13192.4	14117.0	15358.1	15307.1	12261.6
55°	10653.1	10632.7	10785.8	11724.7	13014.8	13649.6	14386.5	15356.0	16348.1	15839.8	12461.6
57.5°	11394.1	11338.9	11487.9	12653.5	14308.9	15068.2	15817.4	16425.6	17115.6	16286.8	12557.5
60°	12169.7	12059.5	12237.1	13696.5	15833.7	16554.2	17176.8	17340.1	17923.9	16642.0	12392.2
62.5°	12788.2	12790.2	13120.9	14807.0	17401.3	18032.1	18362.8	18509.7	18620.0	16564.4	11522.7
65°	13753.7	13786.4	14315.0	16348.1	19216.0	19763.0	19989.6	19512.0	18650.6	15601.0	10216.3
67.5°	14749.8	14853.9	15821.4	18470.9	21312.3	21753.2	21461.3	19705.9	17817.8	13402.6	7746.4
70°	15074.4	15245.8	16840.0	19932.5	22569.7	22798.3	21810.4	18801.6	14894.7	8960.9	3898.7
72.5°	13812.9	14090.5	16254.2	19399.7	21767.5	21569.5	19514.0	15768.4	9469.2	3402.7	1190.0
75°	9740.7	9863.1	13508.8	16092.9	17507.5	16946.2	14843.7	10165.2	3894.6	955.3	408.2
77.5°	5029.6	4970.4	8034.2	10677.6	12486.1	11904.4	9720.3	5262.2	1475.8	398.0	253.1
80°	2600.5	2643.4	3476.2	5595.0	7621.9	7013.6	5182.6	2439.3	785.9	220.5	193.9
82.5°	1457.4	1367.6	1998.3	2443.3	3564.0	2794.4	1988.1	1726.9	342.9	132.7	183.7
85°	265.4	277.6	1096.1	1320.7	1237.0	785.9	640.9	1153.3	100.0	73.5	128.6
87.5°	4.1	4.1	212.3	379.7	240.9	110.2	202.1	165.3	20.4	28.6	22.5
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°	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7	4739.7
2.5°	4717.2	4639.7	4494.8	4351.9	4170.2	4021.2	3921.2	3817.1	3710.9	3719.1	3743.6
5°	4635.6	4500.9	4215.1	3913.0	3623.2	3361.9	3104.7	2874.0	2780.1	2694.4	2698.5
7.5°	4553.9	4364.1	3945.7	3472.1	3033.2	2588.3	2265.7	2000.4	1859.5	1753.4	1722.8
10°	4517.2	4266.1	3698.7	3047.5	2425.0	1939.2	1524.8	1308.4	1141.0	1088.0	1102.3
12.5°	4533.5	4217.1	3476.2	2663.8	1922.8	1351.3	1061.4	951.2	914.5	908.3	904.3
15°	4564.2	4182.4	3257.8	2239.2	1412.5	1004.3	892.0	871.6	867.5	863.4	865.5
17.5°	4605.0	4151.8	3025.1	1841.2	1083.9	877.7	845.1	834.9	832.8	832.8	832.8
20°	4645.8	4117.1	2765.8	1486.0	904.3	828.7	808.3	802.2	800.2	800.2	798.1
22.5°	4692.8	4086.5	2502.5	1167.6	832.8	794.0	775.7	771.6	769.5	767.5	767.5
25°	4760.1	4047.7	2222.9	955.3	787.9	761.4	743.0	738.9	736.9	728.7	730.8
27.5°	4849.9	4019.1	1935.1	824.7	747.1	720.5	708.3	702.2	698.1	692.0	694.0
30°	4972.4	3994.7	1628.9	753.2	700.1	677.7	665.4	661.4	657.3	651.1	651.1
32.5°	5184.7	4004.9	1306.4	696.1	657.3	630.7	618.5	614.4	610.3	604.2	604.2
35°	5503.1	4064.1	1045.1	647.1	606.2	579.7	567.5	567.5	561.3	553.2	551.1
37.5°	6023.6	4215.1	838.9	600.1	557.3	532.8	518.5	514.4	508.3	496.0	494.0
40°	6638.0	4449.8	706.3	553.2	512.3	487.9	475.6	463.4	447.0	434.8	432.7
42.5°	7409.6	4690.7	612.4	506.2	469.5	447.0	432.7	412.3	387.8	371.5	369.5
45°	8213.8	4911.2	549.1	463.4	428.7	410.3	394.0	361.3	330.7	310.3	308.2
47.5°	8814.0	4952.0	498.1	422.5	394.0	375.6	353.1	312.3	271.5	253.1	247.0
50°	9097.7	4754.0	445.0	381.7	359.3	338.8	310.3	263.3	218.4	196.0	191.9
52.5°	9197.7	4411.1	402.1	345.0	324.6	300.1	265.4	212.3	171.5	149.0	147.0
55°	9156.9	3978.3	363.3	310.3	283.7	255.2	220.5	169.4	126.6	108.2	104.1
57.5°	8942.6	3427.2	324.6	275.6	242.9	214.3	175.5	126.6	85.7	69.4	67.4
60°	8364.9	2676.0	285.8	236.8	206.2	175.5	138.8	89.8	53.1	38.8	38.8
62.5°	7389.2	1986.1	249.0	198.0	173.5	140.8	98.0	57.2	28.6	20.4	18.4
65°	6174.7	1465.6	208.2	167.4	144.9	110.2	69.4	34.7	14.3	6.1	4.1
67.5°	4309.0	904.3	173.5	136.8	118.4	79.6	42.9	14.3	6.1	0.0	0.0
70°	1957.5	430.7	132.7	104.1	89.8	57.2	22.5	8.2	4.1	0.0	0.0
72.5°	608.3	226.6	93.9	75.5	61.2	36.7	12.2	6.1	4.1	0.0	0.0
75°	281.7	144.9	59.2	40.8	34.7	18.4	8.2	4.1	2.0	0.0	0.0
77.5°	210.2	112.3	34.7	22.5	18.4	12.2	6.1	4.1	2.0	0.0	0.0
80°	183.7	57.2	20.4	14.3	10.2	8.2	4.1	2.0	0.0	0.0	0.0
82.5°	165.3	28.6	12.2	8.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0
85°	89.8	16.3	8.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	16.3	8.2	6.1	4.1	4.1	2.0	2.0	2.0	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)