

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: P458357

Luminaire Tested: **GALN-SA9D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 64233 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

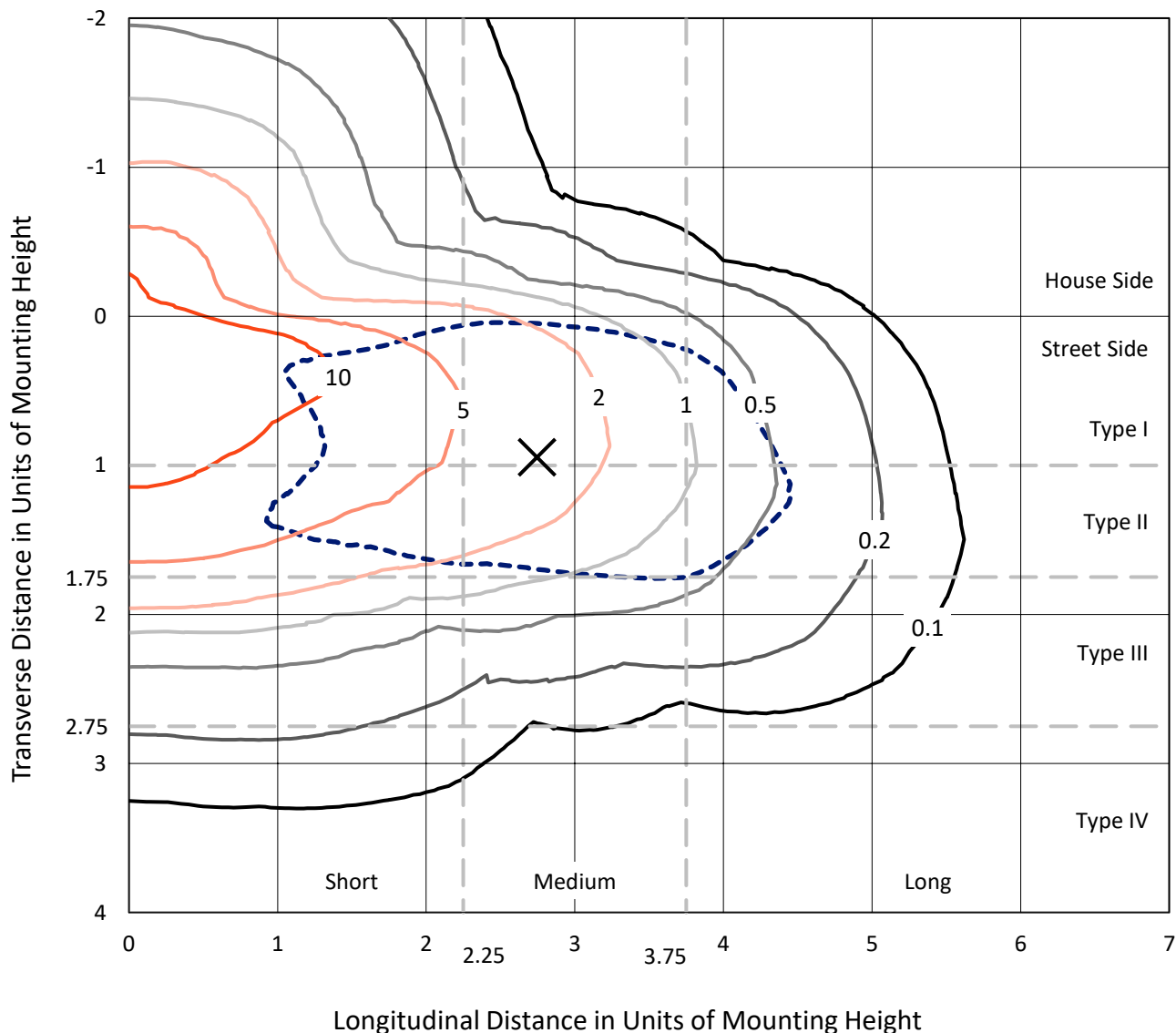
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

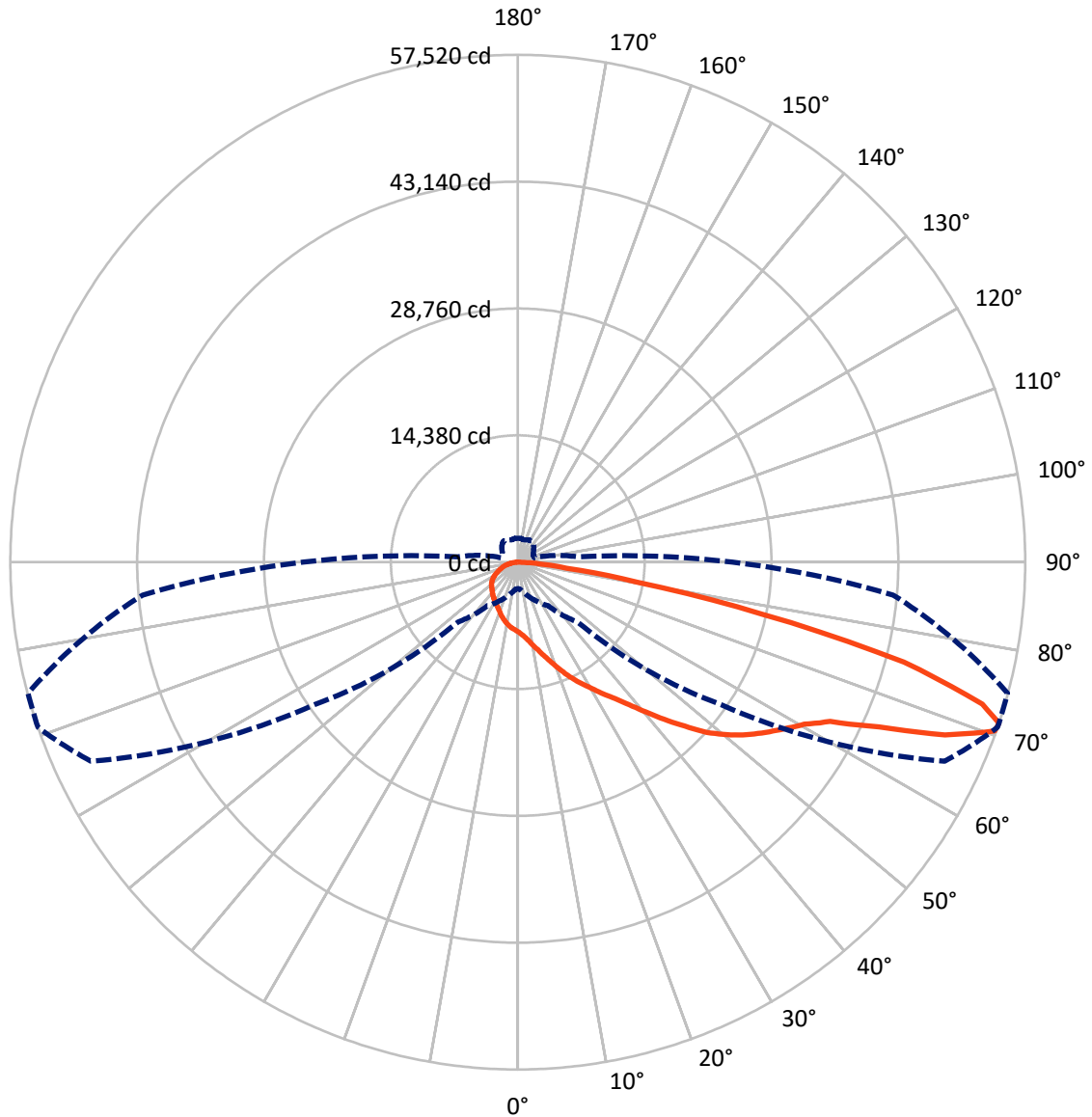
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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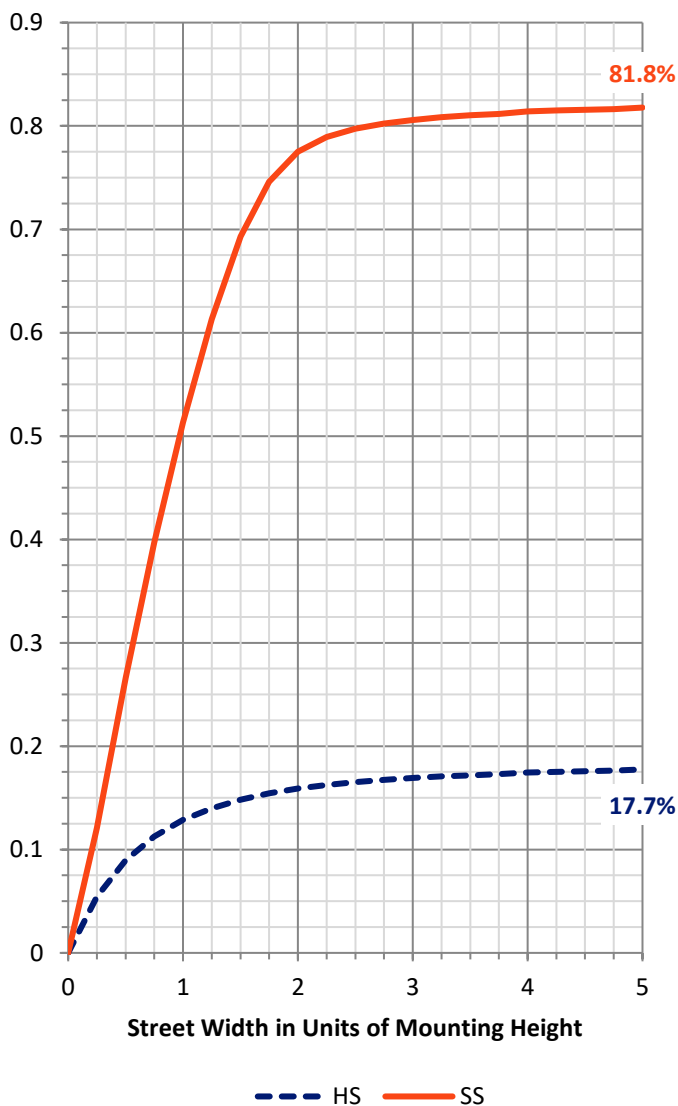
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11552.1	0.0	11552.1
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	52680.9	0.0	52680.9
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	64233.0	0.0	64233.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	791.5	1.2
10°-20°	2571.7	4.0
20°-30°	4494.2	7.0
30°-40°	6684.5	10.4
40°-50°	9848.8	15.3
50°-60°	13788.4	21.5
60°-70°	15421.9	24.0
70°-80°	9420.3	14.7
80°-90°	1211.8	1.9
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°	64233.0	100.0
0°-180°	64233.0	100.0

**Coefficient of Utilization**



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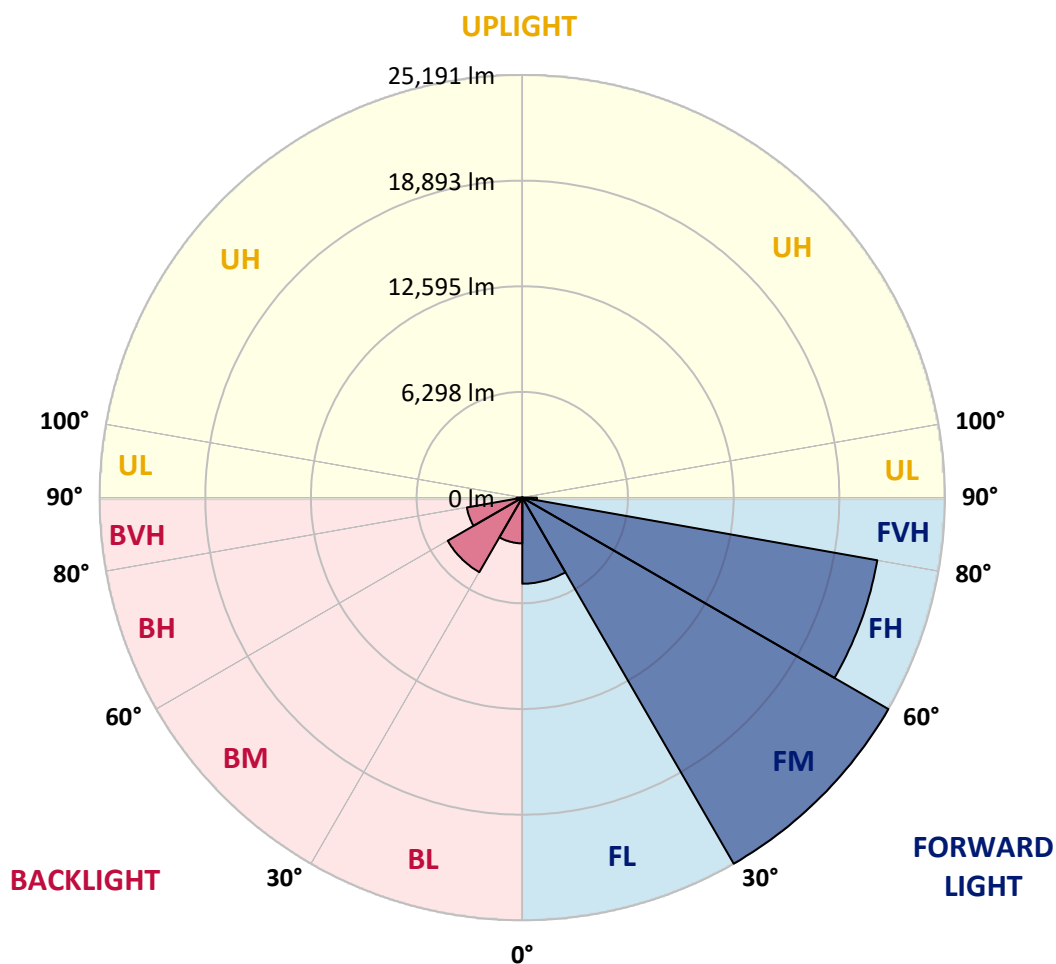
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5132.3	8.0			
FM	(30°-60°)	25190.9	39.2			
FH	(60°-80°)	21485.7	33.4			G5
FVH	(80°-90°)	871.9	1.4			G5
BL	(0°-30°)	2725.1	4.2	B4/5000		
BM	(30°-60°)	5130.8	8.0	B4/8500		
BH	(60°-80°)	3356.4	5.2	B4/5000		G4/5000
BVH	(80°-90°)	339.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3
2.5°	8751.8	8709.4	8713.0	8653.0	8575.3	8490.6	8370.5	8264.6	8179.9	8130.5	7985.7
5°	9697.9	9655.6	9602.6	9472.0	9415.5	9207.2	8942.4	8702.4	8518.8	8416.4	8126.9
7.5°	10464.0	10453.4	10439.3	10365.2	10220.4	9931.0	9705.0	9288.4	9016.6	8822.4	8328.2
10°	10937.1	10954.8	10965.4	10979.5	10919.5	10767.7	10457.0	9931.0	9585.0	9337.8	8589.4
12.5°	11177.2	11194.8	11254.8	11385.5	11466.7	11449.0	11194.8	10679.4	10202.8	9878.0	8868.3
15°	11325.5	11353.7	11459.6	11632.6	11904.4	12077.4	11953.9	11477.3	10954.8	10570.0	9200.2
17.5°	11487.8	11519.6	11636.1	11883.3	12239.8	12614.0	12748.2	12338.7	11770.3	11311.3	9570.9
20°	11579.6	11622.0	11787.9	12112.7	12529.3	13073.0	13517.8	13302.5	12681.1	12172.7	9998.0
22.5°	11727.9	11763.2	11904.4	12250.4	12748.2	13429.6	14287.4	14241.5	13694.3	13037.7	10467.6
25°	12130.4	12186.9	12257.5	12465.8	12945.9	13793.2	14926.4	15244.2	14675.8	13941.5	10898.3
27.5°	12889.4	12935.3	12931.8	12960.0	13231.9	14107.4	15480.7	16236.2	15650.2	14855.8	11314.9
30°	13754.4	13772.0	13786.1	13722.6	13782.6	14428.7	15989.1	17217.7	16631.6	15794.9	11678.5
32.5°	14806.4	14841.7	14721.7	14559.3	14509.9	14905.3	16409.2	18199.1	17793.1	16748.1	12038.6
35°	16049.1	16140.9	15897.3	15611.3	15410.1	15590.1	16974.1	19201.7	18982.8	17966.1	12515.2
37.5°	17468.3	17581.3	17355.3	16794.0	16508.0	16557.5	17711.9	20440.9	20486.8	19353.5	13224.8
40°	18629.8	18778.1	18785.1	17990.8	17556.6	17613.1	18647.5	21775.4	22301.4	21069.3	14061.5
42.5°	19395.9	19540.6	19692.4	19226.4	18771.0	19092.3	19738.3	23222.8	24342.0	23152.2	15230.1
45°	20236.1	20366.7	20451.5	20239.7	19985.5	20818.6	21055.2	24762.1	26516.7	25478.7	16508.0
47.5°	21210.5	21355.3	21436.5	21235.2	21139.9	22333.2	22474.4	26198.9	28839.7	27738.2	17920.2
50°	22509.7	22619.1	22576.8	22449.7	22428.5	23494.7	23837.1	27544.0	30756.7	30170.6	19385.3
52.5°	24126.6	24257.2	24303.1	24123.1	24041.9	24324.3	24935.1	28769.0	32500.7	32260.6	20949.3
55°	25104.5	25312.8	26011.8	26294.3	26488.4	25397.5	26117.7	30121.2	34064.6	34463.5	22629.7
57.5°	23851.2	24119.5	25683.5	27095.7	28920.9	28080.6	27794.7	31533.3	35628.6	36599.4	24642.0
60°	20793.9	20853.9	22869.8	25471.7	29143.3	31529.8	31293.3	33778.7	37323.2	38753.0	27293.4
62.5°	14425.1	14552.2	16935.2	21086.9	26396.6	32772.5	37245.5	37655.0	39752.1	41976.2	31180.3
65°	7438.5	7272.6	9443.8	13253.0	19900.7	29821.1	42068.0	44782.8	45019.4	47017.6	36652.4
67.5°	4578.9	4653.0	5669.8	7738.6	11766.7	21673.0	41563.1	53492.3	52246.1	53206.3	41732.6
70°	3438.6	3530.4	4229.4	5295.6	7173.7	12391.6	33425.6	55603.5	57343.9	57096.8	43278.9
71°	2990.2	3085.6	3812.8	4819.0	6026.4	9563.8	28161.8	53393.4	57520.4	57478.1	42696.4
72.5°	2548.9	2608.9	3177.3	4081.1	5080.2	6704.2	21157.6	47886.0	55066.8	56475.5	40617.0
75°	2001.7	2047.6	2301.8	3113.8	3999.9	4116.4	11353.7	35900.4	45227.7	47910.8	33814.0
77.5°	1631.0	1662.8	1793.4	2312.4	3085.6	2916.1	5955.7	23367.6	28334.8	31035.6	19918.4
80°	1295.6	1331.0	1408.6	1567.5	2312.4	2079.4	2842.0	11840.9	13687.3	13659.0	7950.4
82.5°	1006.2	1016.7	1108.5	1150.9	1581.6	1475.7	1539.2	5013.1	5553.3	5736.9	2870.2
85°	635.5	667.2	981.4	882.6	946.1	864.9	759.0	1991.1	2453.6	2418.3	1147.4
87.5°	194.2	204.8	331.9	374.2	420.1	377.8	278.9	586.0	716.7	776.7	286.0
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°	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3	7883.3
2.5°	7929.2	7890.4	7752.7	7639.7	7533.8	7417.3	7318.5	7290.2	7265.5	7254.9	7251.4
5°	8003.4	7886.9	7615.0	7392.6	7216.1	7053.7	6951.3	6905.4	6859.5	6859.5	6873.6
7.5°	8109.3	7897.5	7477.3	7145.5	6923.1	6771.3	6697.1	6690.1	6700.7	6711.2	6714.8
10°	8225.8	7890.4	7276.1	6863.1	6665.4	6594.7	6598.3	6658.3	6714.8	6757.1	6764.2
12.5°	8338.8	7848.0	7039.6	6598.3	6471.2	6485.3	6584.2	6718.3	6827.8	6887.8	6891.3
15°	8465.8	7781.0	6753.6	6347.6	6305.3	6414.7	6598.3	6803.0	6969.0	7067.8	7078.4
17.5°	8571.8	7668.0	6453.5	6104.0	6157.0	6358.2	6612.4	6877.2	7078.4	7202.0	7223.2
20°	8691.8	7523.2	6142.9	5871.0	6022.8	6294.7	6584.2	6870.1	7078.4	7198.4	7226.7
22.5°	8787.1	7318.5	5846.3	5680.4	5902.8	6217.0	6488.8	6718.3	6887.8	6951.3	6993.7
25°	8825.9	7060.8	5567.4	5525.0	5807.5	6089.9	6273.5	6404.1	6457.1	6450.0	6467.7
27.5°	8804.8	6764.2	5327.3	5401.5	5687.4	5892.2	5984.0	5973.4	5878.1	5789.8	5832.2
30°	8716.5	6411.2	5126.1	5274.4	5532.1	5645.1	5631.0	5493.3	5313.2	5147.3	5157.9
32.5°	8557.6	6029.9	4939.0	5129.6	5313.2	5362.6	5267.3	5087.3	4829.6	4614.2	4582.4
35°	8423.5	5666.3	4773.1	4963.7	5094.3	5069.6	4977.8	4744.8	4511.8	4321.2	4289.4
37.5°	8402.3	5355.6	4614.2	4776.6	4850.7	4815.4	4702.5	4504.8	4420.0	4275.3	4257.6
40°	8515.3	5136.7	4451.8	4578.9	4614.2	4586.0	4462.4	4349.4	4427.1	4391.8	4391.8
42.5°	8822.4	5020.2	4307.1	4381.2	4409.4	4430.6	4342.4	4247.0	4342.4	4180.0	4127.0
45°	9309.6	5023.7	4176.4	4187.0	4271.8	4345.9	4285.9	4144.7	4095.2	3770.4	3706.9
47.5°	10026.3	5143.8	4070.5	4003.4	4155.3	4278.8	4194.1	3989.3	3770.4	3555.1	3516.3
50°	10863.0	5359.1	3975.2	3812.8	3999.9	4194.1	4130.5	3890.5	3664.5	3533.9	3509.2
52.5°	11791.5	5631.0	3858.7	3601.0	3809.3	4155.3	4144.7	3876.4	3565.7	3477.4	3456.2
55°	12938.8	5899.3	3714.0	3353.9	3639.8	4123.5	4105.8	3759.9	3544.5	3481.0	3473.9
57.5°	14273.3	6287.6	3505.7	3103.2	3445.6	3992.9	3954.0	3689.2	3473.9	3428.0	3424.5
60°	16423.3	6891.3	3209.1	2873.7	3247.9	3763.4	3812.8	3569.2	3360.9	3350.3	3346.8
62.5°	19251.2	7738.6	2902.0	2637.2	3018.5	3466.8	3608.0	3406.8	3240.9	3293.8	3300.9
65°	23155.7	8451.7	2584.2	2436.0	2764.3	3180.9	3413.9	3255.0	3106.7	3209.1	3209.1
67.5°	25701.2	8465.8	2294.7	2227.7	2506.6	2940.8	3209.1	3075.0	2933.7	3106.7	3113.8
70°	25171.6	7417.3	2054.7	2008.8	2255.9	2683.1	2983.2	2877.3	2714.9	2870.2	2813.7
71°	24317.2	6834.8	1959.4	1924.1	2157.1	2559.5	2877.3	2789.0	2626.6	2729.0	2697.2
72.5°	22954.5	5934.6	1804.0	1811.1	2008.8	2404.2	2729.0	2637.2	2474.8	2531.3	2520.7
75°	19403.0	5182.6	1542.8	1574.5	1726.4	2139.4	2432.4	2361.8	2195.9	2195.9	2185.3
77.5°	12130.4	3622.2	1281.5	1299.2	1465.1	1832.3	2090.0	2030.0	1871.1	1818.1	1804.0
80°	4525.9	1871.1	1002.6	1023.8	1126.2	1443.9	1729.9	1673.4	1511.0	1451.0	1394.5
82.5°	1712.2	939.1	737.8	720.2	829.6	1101.5	1355.7	1288.6	1161.5	1016.7	974.4
85°	646.1	466.0	451.9	437.8	487.2	653.1	840.2	826.1	692.0	589.6	579.0
87.5°	169.5	151.8	176.5	130.6	137.7	123.6	127.1	53.0	24.7	10.6	7.1
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)