

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: P459188

Luminaire Tested: **GALN-SA6D-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35350 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

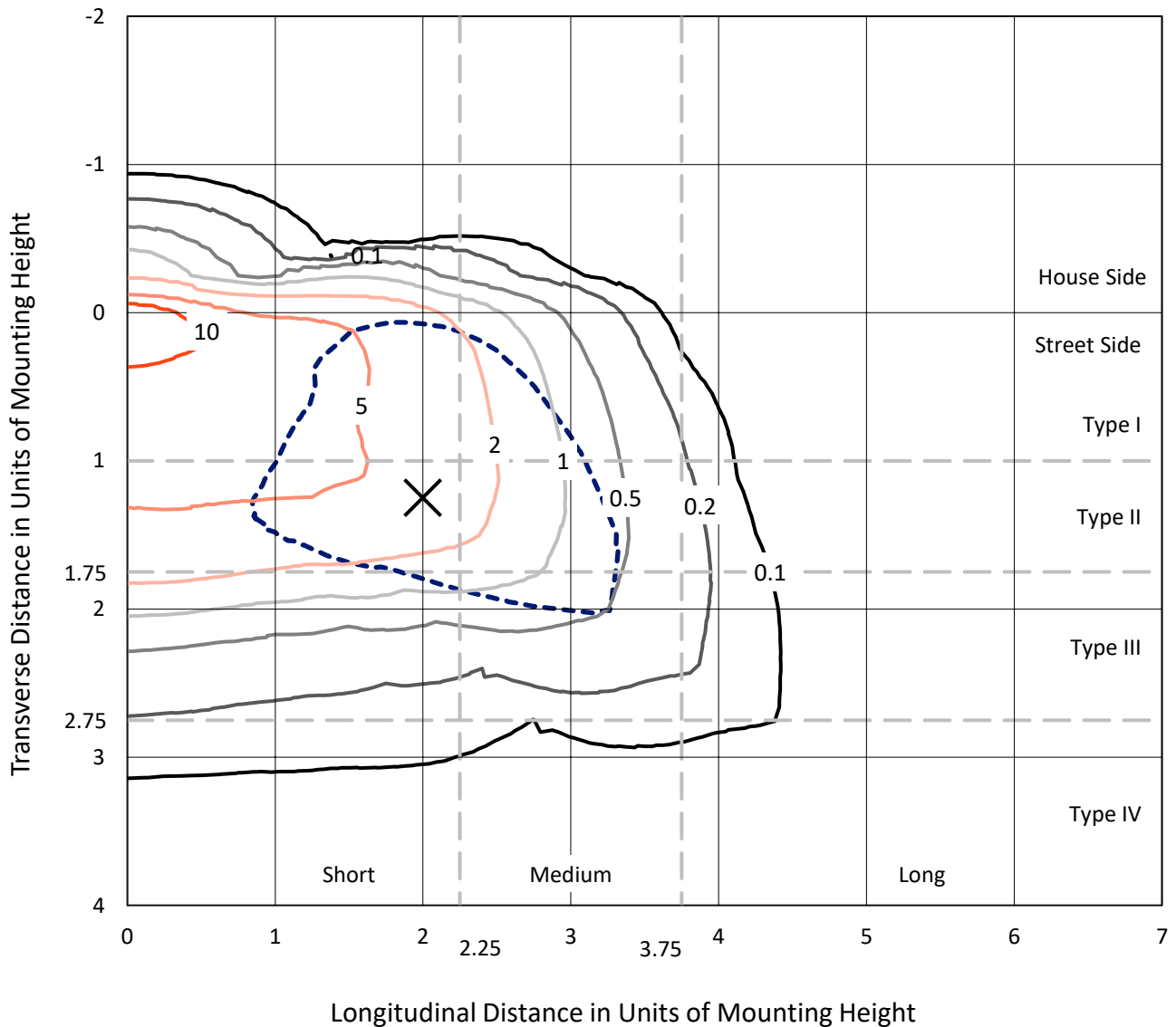
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

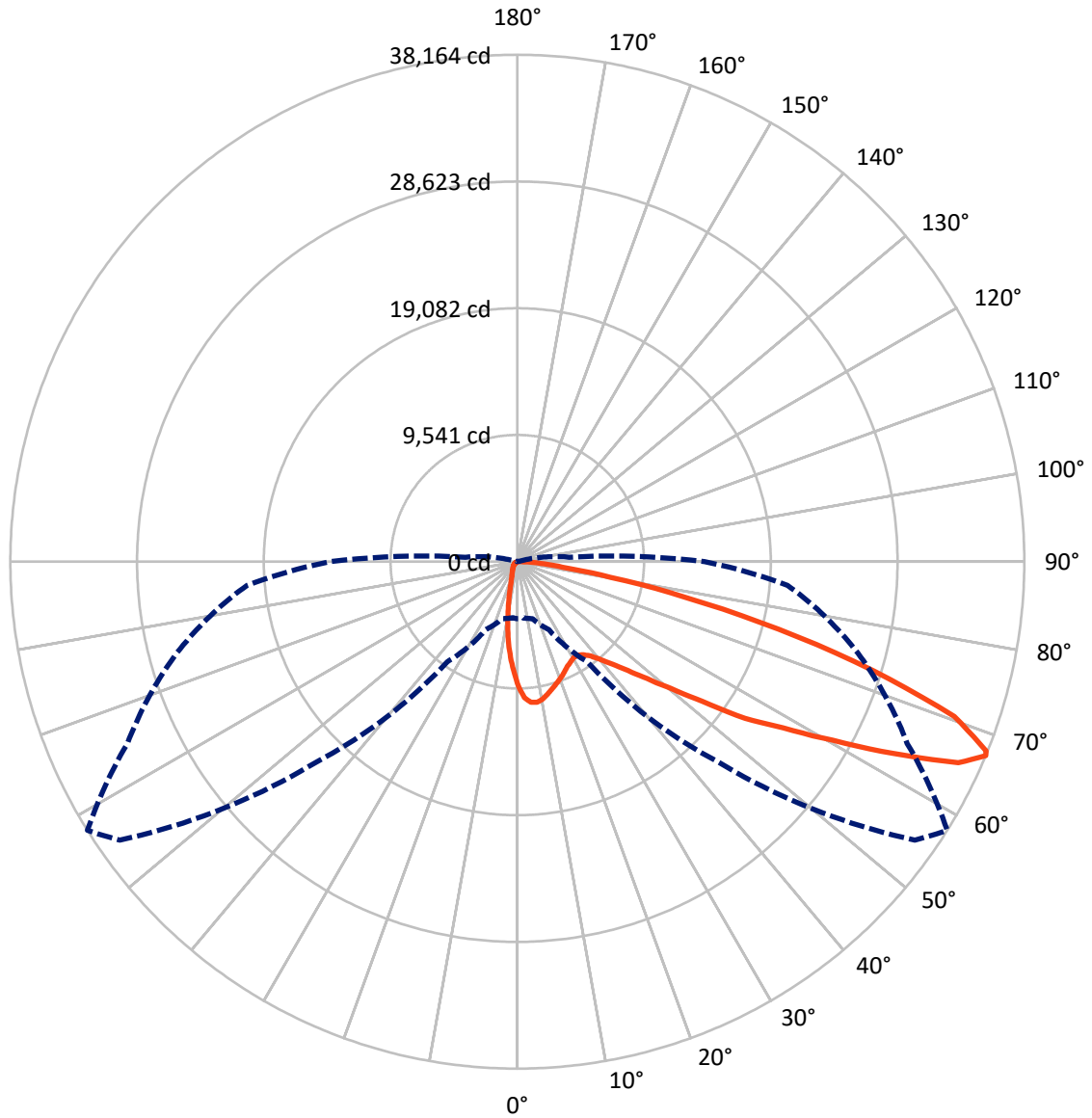
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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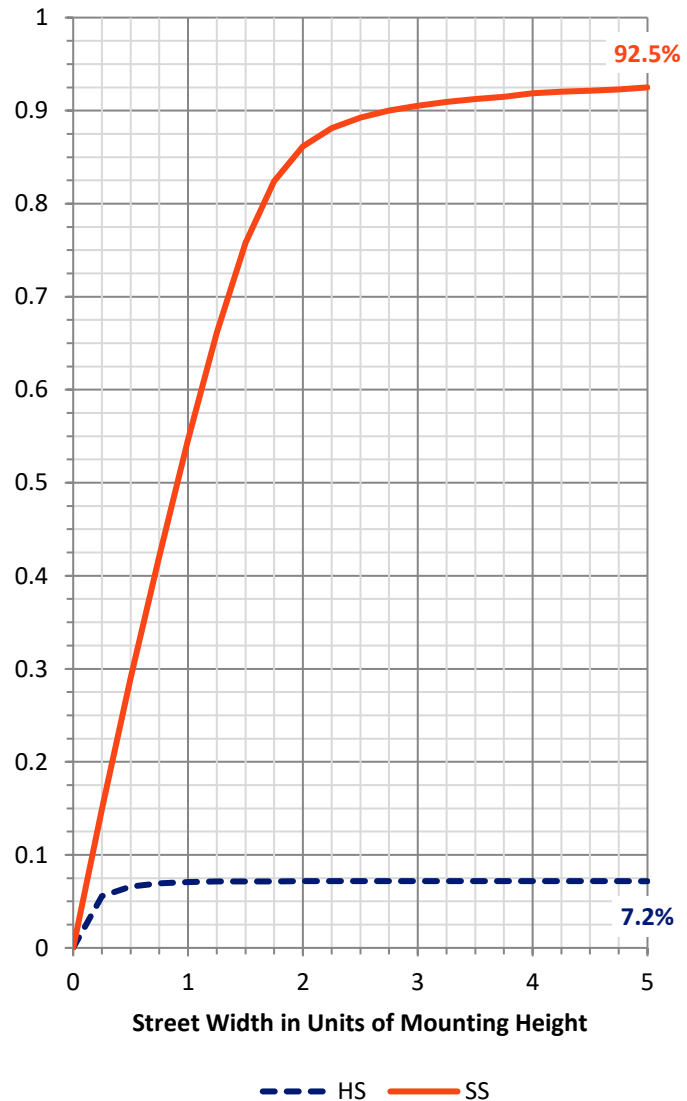
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2551.1	0.0	2551.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	32798.9	0.0	32798.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	35350.0	0.0	35350.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	760.4	2.2
10°-20°	1642.3	4.6
20°-30°	2225.5	6.3
30°-40°	3086.6	8.7
40°-50°	4922.8	13.9
50°-60°	8509.5	24.1
60°-70°	9720.5	27.5
70°-80°	4052.6	11.5
80°-90°	429.7	1.2
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°	35350.0	100.0
0°-180°	35350.0	100.0



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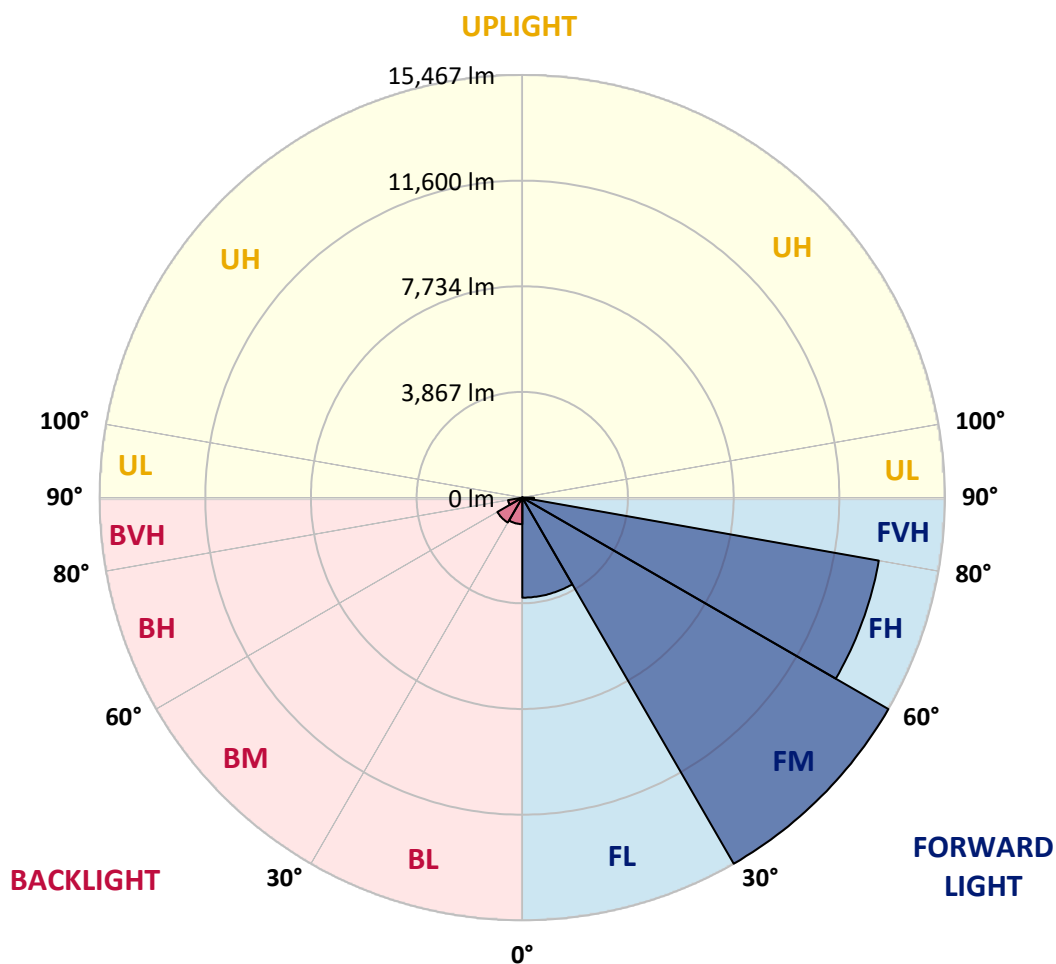
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3659.6	10.4			
FM	(30°-60°)	15467.1	43.8			
FH	(60°-80°)	13245.7	37.5			G5
FVH	(80°-90°)	426.6	1.2			G3/500
BL	(0°-30°)	968.7	2.7	B2/1000		
BM	(30°-60°)	1051.9	3.0	B2/2500		
BH	(60°-80°)	527.4	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0
2.5°	10875.7	10892.2	10830.8	10781.2	10653.7	10516.6	10334.7	10237.9	10072.5	9786.7	9470.2
5°	11130.8	11152.1	11142.6	11130.8	11081.2	10948.9	10717.4	10632.4	10389.1	9923.7	9352.1
7.5°	10563.9	10641.8	10651.3	10743.4	10830.8	10842.6	10755.2	10691.4	10467.0	9921.4	9141.8
10°	9812.7	9864.7	9940.3	10046.6	10256.8	10431.6	10516.6	10507.2	10377.3	9848.1	8896.2
12.5°	9054.4	9082.8	9198.5	9380.4	9637.9	9935.5	10162.3	10207.2	10209.6	9760.7	8690.6
15°	8402.4	8390.6	8480.4	8690.6	9052.1	9425.3	9831.6	9902.5	10015.8	9675.7	8499.3
17.5°	7845.0	7906.4	7920.6	8152.1	8485.1	8969.4	9486.7	9611.9	9838.7	9602.5	8341.0
20°	7500.1	7533.1	7563.9	7693.8	7993.8	8504.0	9163.1	9335.5	9673.3	9536.3	8163.9
22.5°	7398.5	7419.8	7393.8	7433.9	7646.5	8100.1	8811.1	9040.2	9515.1	9474.9	8019.8
25°	7476.5	7497.7	7436.3	7389.1	7462.3	7771.7	8471.0	8749.7	9387.5	9463.1	7911.1
27.5°	7665.4	7705.6	7620.5	7535.5	7493.0	7594.6	8204.0	8527.6	9300.1	9519.8	7861.5
30°	7960.7	7984.3	7920.6	7816.6	7719.8	7618.2	8064.6	8374.1	9276.5	9652.1	7856.8
32.5°	8282.0	8331.6	8296.1	8227.6	8102.4	7861.5	8104.8	8378.8	9333.2	9843.4	7915.8
35°	8678.8	8735.5	8768.6	8754.4	8593.8	8293.8	8359.9	8591.4	9484.3	10195.4	8076.5
37.5°	9068.6	9118.2	9304.8	9368.6	9226.9	8943.4	8856.0	9009.5	9817.4	10656.0	8367.0
40°	9515.1	9581.2	9843.4	10086.7	10018.2	9720.6	9559.9	9687.5	10327.7	11350.5	8917.4
42.5°	9942.6	10060.7	10459.9	10889.9	10953.7	10620.6	10514.3	10556.8	11083.6	12349.7	9685.1
45°	10549.7	10660.7	11175.7	11759.2	12059.2	11799.3	11690.7	11683.6	12120.6	13755.3	10930.0
47.5°	11426.1	11525.3	12132.4	12708.8	13242.7	13278.1	13072.6	13143.4	13424.5	15399.4	12456.0
50°	12500.9	12734.8	13134.0	13734.0	14447.4	15023.8	15087.6	14993.1	15234.0	17303.3	14289.1
52.5°	14062.3	14152.1	14518.3	15012.0	15848.2	16826.2	17584.4	17454.5	17378.9	19117.5	16141.1
55°	15226.9	15347.4	15916.7	16594.7	17820.7	19110.4	20754.5	20799.4	19845.1	20860.8	17952.9
57.5°	14875.0	15059.2	15921.4	17284.4	19979.7	22337.2	23560.9	23591.6	22127.0	22554.6	19998.6
60°	13067.8	13155.3	14390.7	16209.6	20164.0	25833.3	27541.2	27293.2	24449.1	24449.1	21805.7
62.5°	9267.0	9404.0	10405.6	13082.0	18210.4	27047.5	32308.2	31795.6	27647.5	26260.9	22882.9
65°	5922.1	5789.8	6453.6	8258.4	13566.3	25254.6	36458.6	36489.3	30657.0	26986.1	22294.7
67°	4289.8	4237.8	4429.2	5645.7	9198.5	21229.3	36546.0	38164.2	32386.2	26527.8	20414.4
67.5°	3923.7	3963.8	4103.2	5093.0	8357.6	19318.3	36149.2	38064.9	32775.9	26251.4	19734.1
70°	2974.0	2905.5	3056.7	3602.4	5010.3	12186.7	31096.4	34911.4	32291.7	23508.9	15767.9
72.5°	2187.4	2180.3	2390.6	2945.7	3857.5	6491.4	23343.5	27992.4	26381.4	17901.0	9928.4
75°	1476.4	1542.5	1878.0	2461.4	3496.1	4209.5	15914.3	20308.1	18314.4	10164.7	4058.3
77.5°	841.0	845.7	1209.5	1977.2	3139.4	3387.4	9430.0	12937.9	9694.6	3380.3	1204.7
80°	363.8	399.2	600.0	1436.2	2603.2	3000.0	5407.1	7110.3	3921.3	715.8	389.8
82.5°	134.6	158.3	264.6	883.5	1899.2	2470.9	3267.0	3394.5	1329.9	252.8	243.3
85°	0.0	4.7	96.9	413.4	989.8	1103.2	2182.7	2012.6	588.2	120.5	158.3
87.5°	0.0	0.0	0.0	42.5	129.9	411.0	678.0	755.9	141.7	42.5	37.8
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°	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0	9371.0
2.5°	9300.1	9146.5	8761.5	8376.5	8090.6	7852.0	7493.0	7296.9	7193.0	7039.4	7048.9
5°	9066.2	8754.4	8076.5	7374.9	6807.9	6255.2	5593.8	5326.8	5102.4	4974.9	4889.8
7.5°	8719.0	8258.4	7254.4	6319.0	5447.3	4481.1	3755.9	3271.7	2945.7	2825.2	2709.5
10°	8338.7	7726.8	6420.5	5123.7	3914.2	2917.4	2303.2	1859.1	1700.8	1554.3	1568.5
12.5°	7986.7	7242.6	5655.2	4044.1	2742.5	1854.3	1445.7	1263.8	1211.8	1195.3	1195.3
15°	7698.5	6779.6	4833.1	3040.2	1880.3	1332.3	1157.5	1107.9	1089.0	1084.3	1084.3
17.5°	7391.4	6340.2	4091.4	2246.5	1367.7	1115.0	1055.9	1022.8	1015.8	1011.0	1011.0
20°	7117.4	5898.5	3387.4	1672.5	1105.5	1003.9	966.2	944.9	937.8	933.1	935.4
22.5°	6857.5	5506.4	2726.0	1263.8	973.2	914.2	876.4	855.1	841.0	829.1	831.5
25°	6626.1	5128.4	2192.1	1034.7	876.4	824.4	786.6	755.9	725.2	711.0	708.7
27.5°	6463.1	4797.7	1707.9	885.8	789.0	732.3	685.0	647.3	607.1	585.8	581.1
30°	6328.4	4462.2	1351.2	781.9	701.6	647.3	588.2	533.9	491.3	470.1	460.6
32.5°	6241.0	4143.3	1065.4	696.9	628.4	562.2	496.1	441.7	394.5	373.2	368.5
35°	6226.8	3876.4	871.7	626.0	562.2	491.3	422.8	363.8	323.6	302.4	297.6
37.5°	6328.4	3670.9	729.9	569.3	507.9	429.9	354.3	300.0	264.6	248.0	245.7
40°	6600.1	3541.0	633.1	522.1	458.3	373.2	302.4	255.1	219.7	203.2	203.2
42.5°	7117.4	3545.7	569.3	477.2	408.7	318.9	257.5	212.6	181.9	167.7	163.0
45°	7925.3	3706.3	515.0	432.3	361.4	276.4	219.7	174.8	144.1	132.3	132.3
47.5°	9007.2	4025.2	467.7	387.4	318.9	236.2	186.6	141.7	115.7	103.9	103.9
50°	10422.2	4537.8	427.6	349.6	283.5	203.2	151.2	115.7	89.8	80.3	78.0
52.5°	11900.9	5170.9	380.3	316.5	243.3	172.4	122.8	89.8	68.5	61.4	59.1
55°	13533.2	5789.8	335.4	283.5	198.4	144.1	96.9	70.9	49.6	42.5	42.5
57.5°	15179.7	6396.9	281.1	236.2	155.9	106.3	75.6	52.0	33.1	26.0	26.0
60°	16573.4	6593.0	238.6	191.3	118.1	75.6	54.3	33.1	18.9	11.8	11.8
62.5°	16764.7	5931.6	200.8	146.5	85.0	52.0	28.3	18.9	7.1	4.7	4.7
65°	15725.4	4818.9	167.7	111.0	56.7	26.0	11.8	7.1	2.4	0.0	0.0
67°	14090.7	3907.1	137.0	82.7	40.2	16.5	7.1	2.4	0.0	0.0	0.0
67.5°	13672.6	3725.2	132.3	78.0	35.4	14.2	4.7	2.4	0.0	0.0	0.0
70°	10729.2	2789.8	94.5	47.2	21.3	9.4	0.0	0.0	0.0	0.0	0.0
72.5°	6668.6	1578.0	68.5	28.3	14.2	4.7	0.0	0.0	0.0	0.0	0.0
75°	2520.5	552.8	47.2	18.9	9.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	784.3	210.2	28.3	14.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	264.6	80.3	18.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	163.0	33.1	11.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	101.6	14.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	4.7	2.4	0.0	0.0	0.0	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)