

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: P383248

Luminaire Tested: **GLEON-SA5D-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29922.2 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

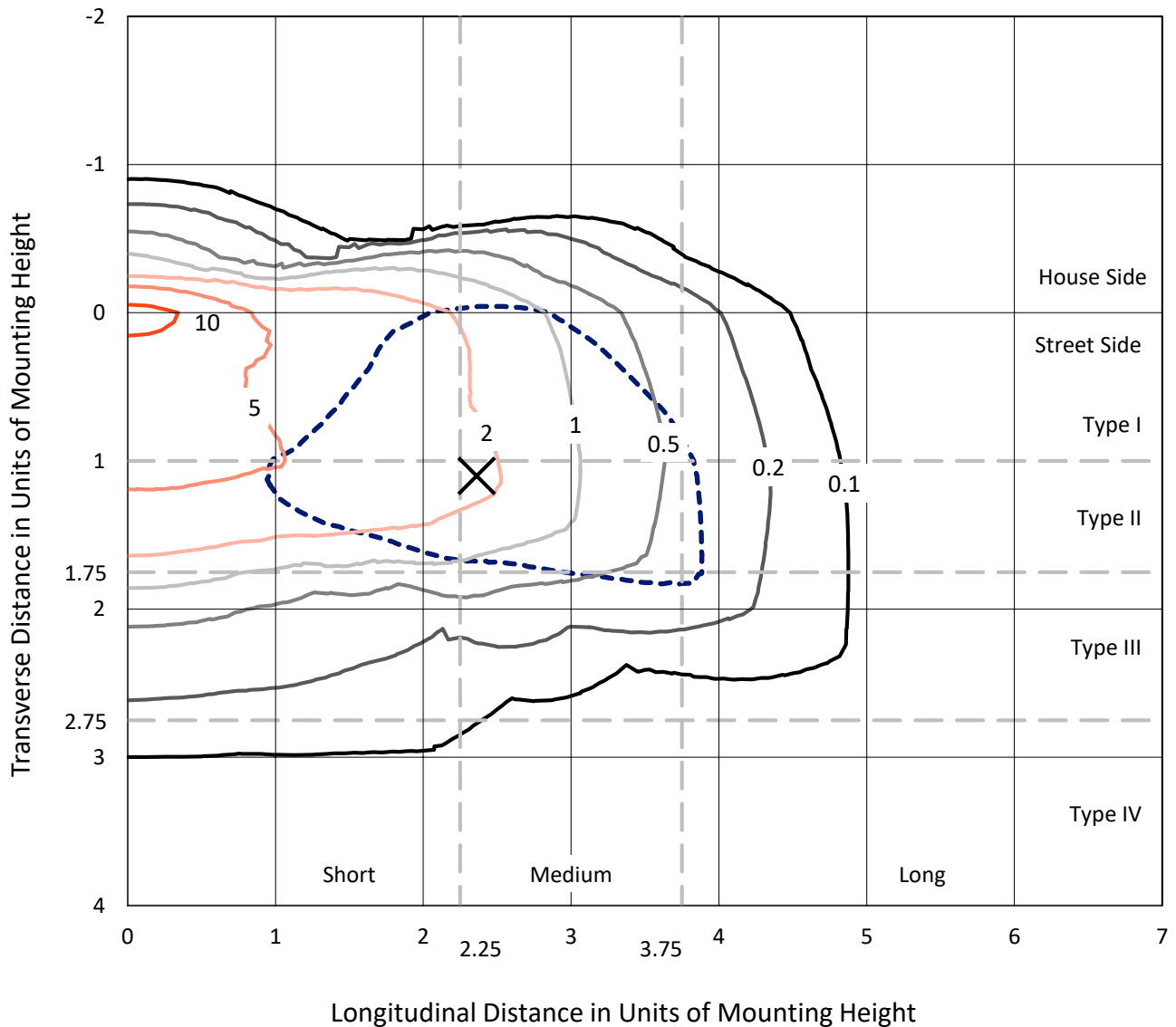
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

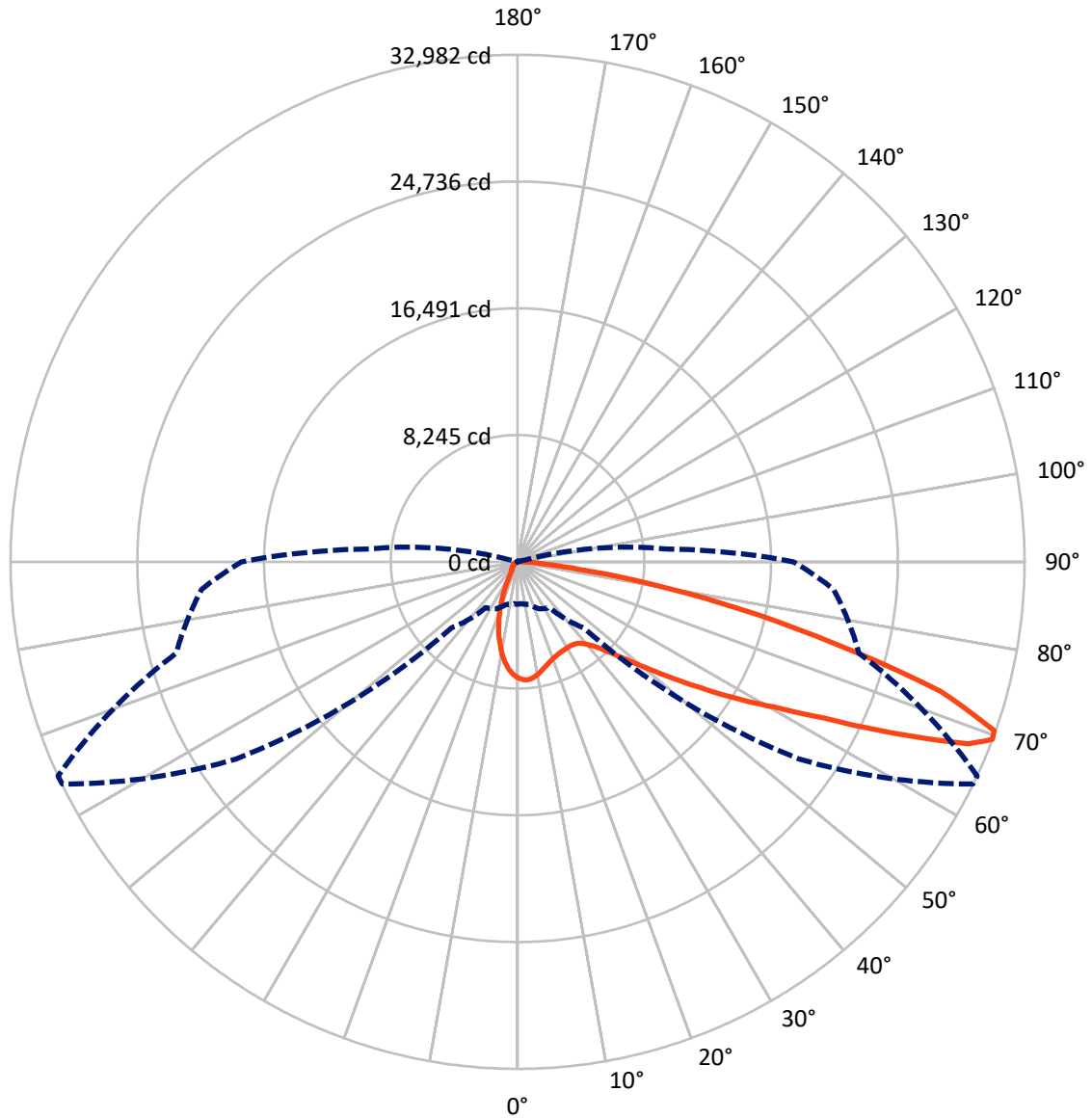
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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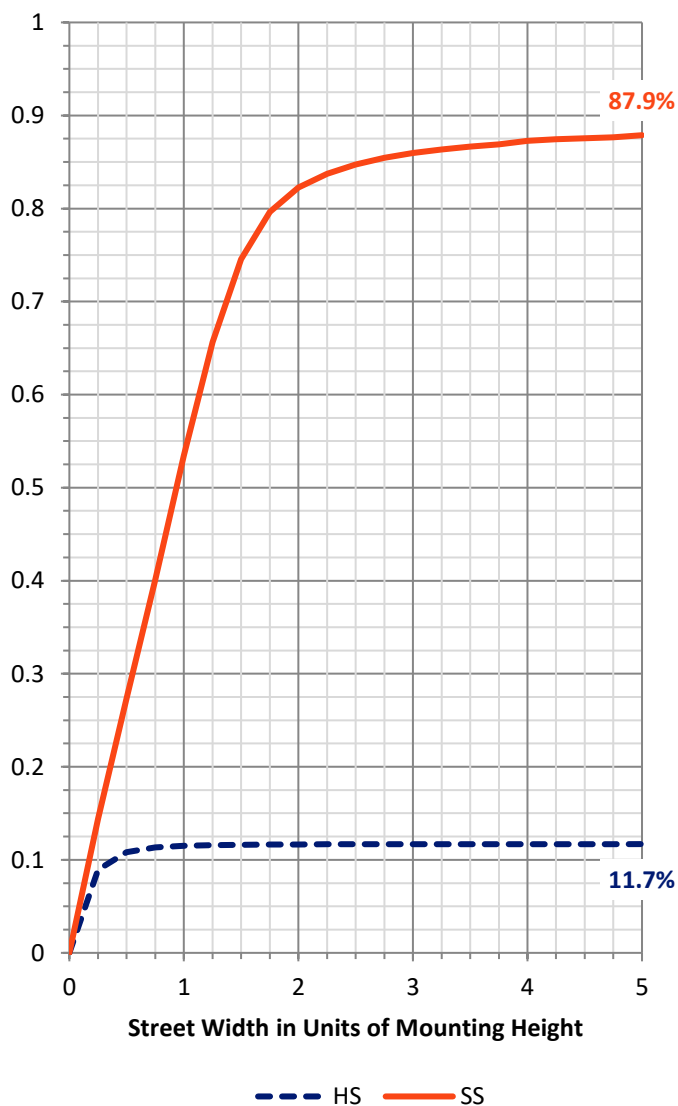
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3527.1	0.0	3527.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	26395.1	0.0	26395.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	29922.2	0.0	29922.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.3	2.1
10°-20°	1384.1	4.6
20°-30°	1917.0	6.4
30°-40°	2673.0	8.9
40°-50°	4154.7	13.9
50°-60°	6669.9	22.3
60°-70°	7544.7	25.2
70°-80°	4431.1	14.8
80°-90°	515.5	1.7
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°	29922.2	100.0
0°-180°	29922.2	100.0

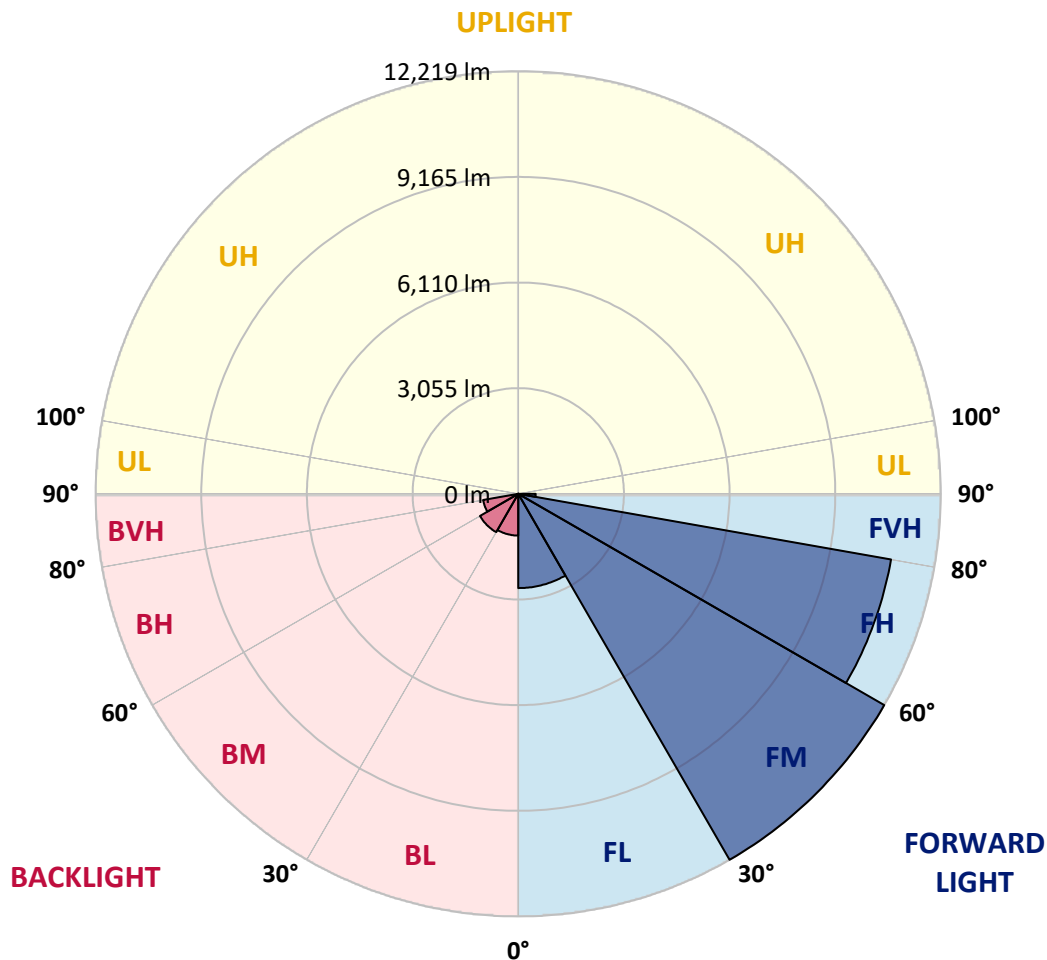


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2726.6	9.1			
FM (30°-60°)	12219.4	40.8			
FH (60°-80°)	10945.3	36.6			G4/12000
FVH (80°-90°)	503.9	1.7			G4/750
BL (0°-30°)	1206.8	4.0	B3/2500		
BM (30°-60°)	1278.1	4.3	B2/2500		
BH (60°-80°)	1030.6	3.4	B3/2500		G3/2500
BVH (80°-90°)	11.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4
2.5°	7628.5	7609.5	7624.7	7657.6	7674.1	7674.1	7686.8	7671.6	7676.6	7639.9	7586.7
5°	7151.2	7122.1	7163.8	7256.3	7370.2	7467.8	7612.0	7688.1	7695.6	7696.9	7634.9
7.5°	6637.1	6610.5	6672.6	6781.5	6928.3	7109.4	7361.4	7581.7	7594.3	7713.3	7667.8
10°	6219.3	6200.3	6272.5	6388.9	6561.2	6763.7	7072.7	7379.1	7415.8	7679.1	7662.7
12.5°	5887.6	5872.4	5940.8	6075.0	6251.0	6475.1	6797.9	7153.7	7203.1	7601.9	7637.4
15°	5645.7	5643.2	5700.1	5829.3	6024.3	6233.3	6563.7	6944.8	7001.8	7518.3	7633.6
17.5°	5519.1	5523.0	5564.7	5674.9	5842.0	6049.7	6366.2	6768.8	6830.9	7443.6	7652.6
20°	5506.5	5510.3	5533.0	5595.1	5730.6	5914.1	6205.3	6620.7	6685.3	7387.9	7682.9
22.5°	5617.9	5615.4	5621.7	5615.4	5691.3	5830.6	6099.0	6506.7	6581.4	7351.2	7707.0
25°	5831.9	5828.0	5825.5	5778.7	5728.0	5802.7	6054.7	6442.1	6513.0	7324.7	7720.9
27.5°	6129.4	6126.9	6123.1	6045.8	5893.9	5847.0	6059.7	6418.1	6477.6	7303.1	7718.4
30°	6520.6	6538.3	6533.3	6425.6	6188.9	5982.5	6112.9	6405.4	6457.3	7261.3	7691.8
32.5°	6980.3	7015.7	7043.5	6928.3	6632.1	6251.0	6235.8	6419.4	6457.3	7229.6	7643.7
35°	7457.6	7503.2	7605.7	7565.2	7175.2	6654.9	6447.2	6502.9	6534.5	7247.4	7620.9
37.5°	7927.3	7981.8	8204.6	8322.4	7886.8	7189.1	6776.4	6709.3	6725.8	7355.0	7646.2
40°	8473.0	8555.3	8893.4	9083.3	8736.4	7904.6	7269.0	7063.8	7070.2	7591.8	7764.0
42.5°	9189.6	9274.5	9640.4	9937.9	9693.6	8808.5	7937.4	7605.7	7599.4	8035.0	8041.3
45°	10063.3	10151.9	10530.5	10861.0	10750.8	9879.7	8793.3	8397.1	8389.4	8733.8	8566.7
47.5°	11053.5	11140.8	11478.8	11819.5	11938.4	11130.7	9883.5	9477.1	9459.3	9705.0	9378.4
50°	11903.0	11960.0	12271.5	12729.8	13266.6	12667.7	11239.6	10848.3	10829.3	10995.1	10569.7
52.5°	12211.9	12244.8	12561.4	13203.3	14542.9	14749.3	13021.0	12517.1	12503.1	12575.3	12156.2
55°	11586.5	11646.0	12034.7	12986.8	15234.2	17101.8	15269.6	14583.5	14478.3	14322.6	13814.9
57.5°	9882.2	9977.2	10395.0	11661.2	14911.4	18968.1	18574.3	16920.7	16766.3	15814.1	15163.4
60°	7404.4	7520.8	7867.9	9234.0	13188.1	19632.8	22185.4	19525.1	19177.0	17001.8	16402.9
62.5°	5081.0	5139.3	5374.8	6264.8	9712.6	18543.9	25206.4	23013.4	22377.8	18293.3	17743.7
65°	3880.7	3900.9	3997.2	4303.7	5783.7	15063.3	26408.0	27615.8	26847.3	19838.0	19135.2
67.5°	3127.4	3110.9	3243.8	3681.9	3873.1	9189.6	25006.3	31970.1	31610.5	21903.0	20535.6
69°	2757.7	2734.8	2870.4	3379.4	3637.6	6075.0	22355.0	32959.0	32981.7	22993.1	20631.8
70°	2481.6	2496.8	2631.1	3199.6	3557.9	4768.3	19822.7	32707.0	32886.8	23400.8	20054.4
72.5°	1657.4	1697.9	1967.6	2656.4	3421.1	3608.5	11968.8	28066.6	28757.9	22482.9	17205.6
75°	934.4	964.8	1285.2	2003.0	3223.6	3436.3	6321.9	20677.4	21345.9	18801.0	13267.9
77.5°	458.3	474.8	726.8	1292.7	2695.6	3274.2	3585.7	14045.3	14808.8	12271.5	7504.5
80°	193.8	202.6	363.4	797.7	1927.1	3124.9	2662.7	8643.9	8738.9	4807.5	1999.2
82.5°	74.7	77.2	153.2	497.6	1224.3	2436.1	2227.1	4098.5	3999.8	905.3	455.8
85°	8.8	10.2	55.7	298.8	681.1	1253.5	1809.3	1766.3	1634.6	179.8	234.2
87.5°	0.0	0.0	3.8	91.2	202.6	587.5	940.8	733.1	660.9	58.2	121.6
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°	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4	7561.4
2.5°	7542.4	7529.8	7461.4	7362.6	7269.0	7152.4	7041.0	6973.9	6920.7	6885.3	6927.1
5°	7562.7	7507.0	7299.3	7033.5	6772.6	6478.8	6205.3	5973.6	5882.5	5781.2	5826.8
7.5°	7556.3	7451.3	7077.7	6604.2	6125.6	5630.6	5162.1	4801.2	4613.9	4430.3	4477.1
10°	7524.7	7347.4	6781.5	6080.0	5363.4	4651.8	3987.1	3481.8	3199.6	2943.8	2980.5
12.5°	7455.1	7208.1	6432.0	5479.8	4521.4	3583.2	2804.5	2157.5	1810.6	1657.4	1676.4
15°	7413.3	7072.7	6062.3	4872.1	3622.4	2495.5	1714.3	1275.0	1116.7	1066.1	1072.4
17.5°	7393.0	6942.3	5679.9	4177.0	2703.3	1589.0	1107.9	977.5	943.3	934.4	937.0
20°	7372.7	6810.5	5286.2	3489.5	1862.5	1068.6	910.4	872.4	859.7	848.4	850.9
22.5°	7338.5	6683.9	4863.2	2793.2	1256.0	867.3	820.4	783.7	757.2	743.2	745.8
25°	7296.8	6551.0	4431.5	2080.2	916.6	773.7	729.3	677.4	645.7	620.4	621.7
27.5°	7229.6	6387.7	3985.8	1514.3	769.8	692.6	633.1	576.1	522.9	493.8	493.8
30°	7135.9	6202.8	3490.8	1083.9	690.1	612.8	540.7	469.8	412.8	386.2	383.6
32.5°	7032.2	6010.3	2990.6	821.7	626.7	538.2	455.8	381.1	330.4	308.9	307.7
35°	6943.6	5802.7	2491.8	688.8	563.4	466.0	376.1	312.7	272.2	254.5	253.2
37.5°	6886.6	5595.1	2005.5	615.4	506.5	398.8	315.2	258.3	229.2	215.3	214.0
40°	6877.7	5440.6	1561.2	559.7	453.3	339.4	263.3	219.0	192.5	177.3	176.0
42.5°	6992.9	5352.0	1197.8	512.8	398.8	287.4	224.1	187.4	159.6	144.3	143.1
45°	7295.5	5379.9	921.8	471.0	344.4	243.1	189.9	155.8	130.4	119.1	116.4
47.5°	7847.5	5572.3	733.1	429.3	292.5	206.3	162.1	129.1	107.6	96.2	94.9
50°	8830.0	6024.3	612.8	383.6	244.3	176.0	134.2	105.1	87.4	77.2	76.0
52.5°	10134.2	6829.5	547.0	339.4	202.6	149.4	110.1	83.6	68.4	60.7	59.5
55°	11572.5	7804.5	504.0	291.2	165.9	124.1	87.4	65.9	53.2	46.9	44.3
57.5°	12976.7	8649.0	463.4	244.3	138.1	101.3	69.7	51.9	41.8	35.5	34.2
60°	14266.9	9425.1	416.6	196.3	112.7	79.7	54.4	40.5	32.9	26.5	26.5
62.5°	15648.2	10025.3	352.0	153.2	92.4	60.7	44.3	36.7	26.5	22.8	21.5
65°	17111.9	10471.0	276.0	119.1	72.2	45.6	36.7	38.0	21.5	16.5	15.2
67.5°	18193.2	10382.4	203.8	93.7	55.7	35.5	35.5	40.5	19.0	12.7	11.4
69°	17955.2	9661.9	170.9	81.0	48.1	30.4	32.9	40.5	17.7	11.4	10.2
70°	17265.1	8864.2	150.6	72.2	43.0	27.9	31.7	39.2	16.5	11.4	10.2
72.5°	14378.3	6676.4	117.7	54.4	34.2	22.8	26.5	34.2	16.5	11.4	8.8
75°	10815.4	4273.2	89.9	39.2	25.3	17.7	20.2	25.3	16.5	10.2	8.8
77.5°	5885.1	1540.9	64.6	26.5	17.7	14.0	14.0	19.0	15.2	7.6	5.0
80°	1513.0	387.4	40.5	17.7	14.0	10.2	8.8	12.7	8.8	1.3	0.0
82.5°	373.6	87.4	21.5	12.7	10.2	3.8	3.8	6.3	3.8	0.0	0.0
85°	205.1	43.0	14.0	8.8	5.0	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	105.1	12.7	3.8	2.5	1.3	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)