

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: P383141

Luminaire Tested: **GLEON-SA4D-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4D-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27705.2 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

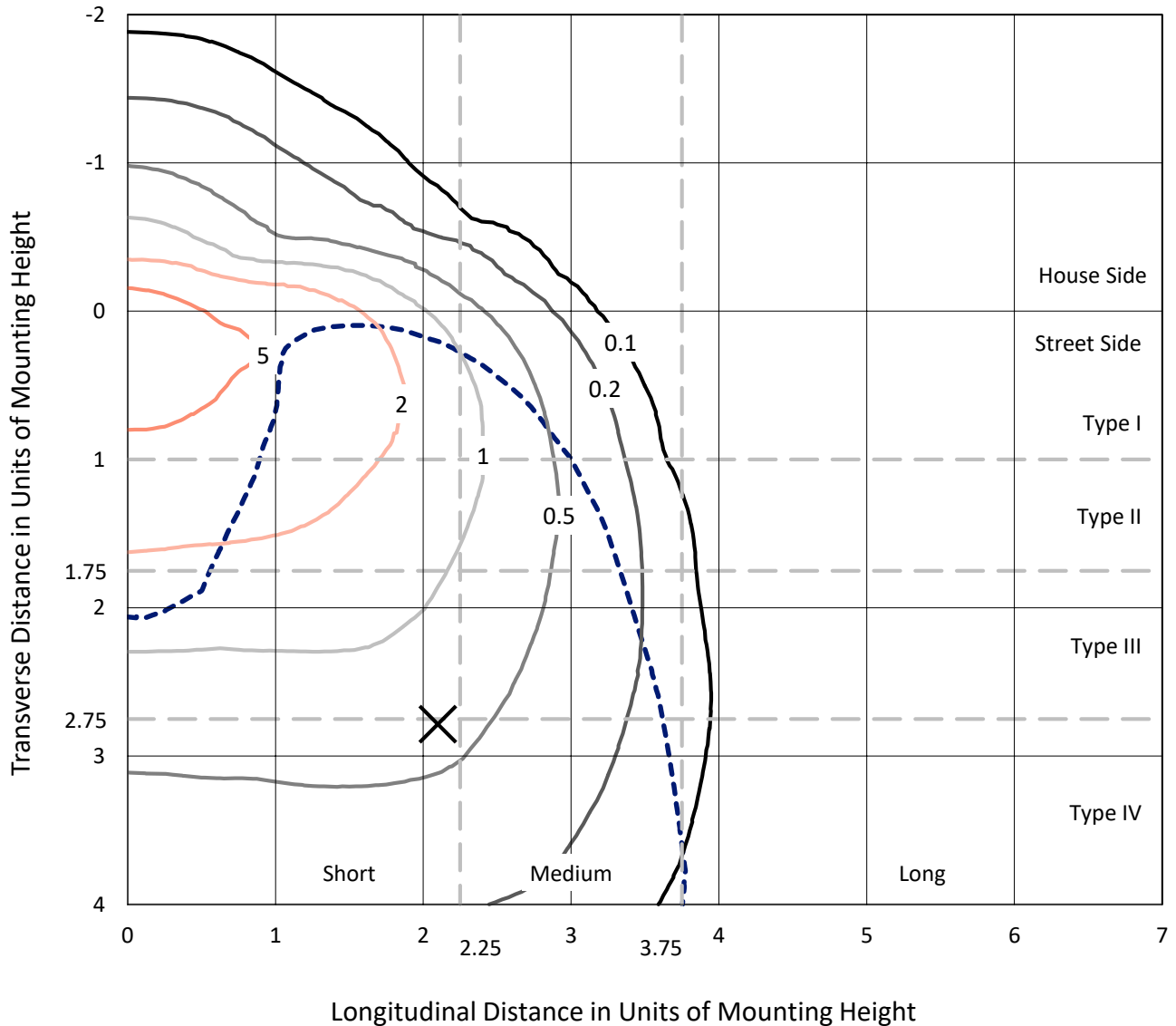
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

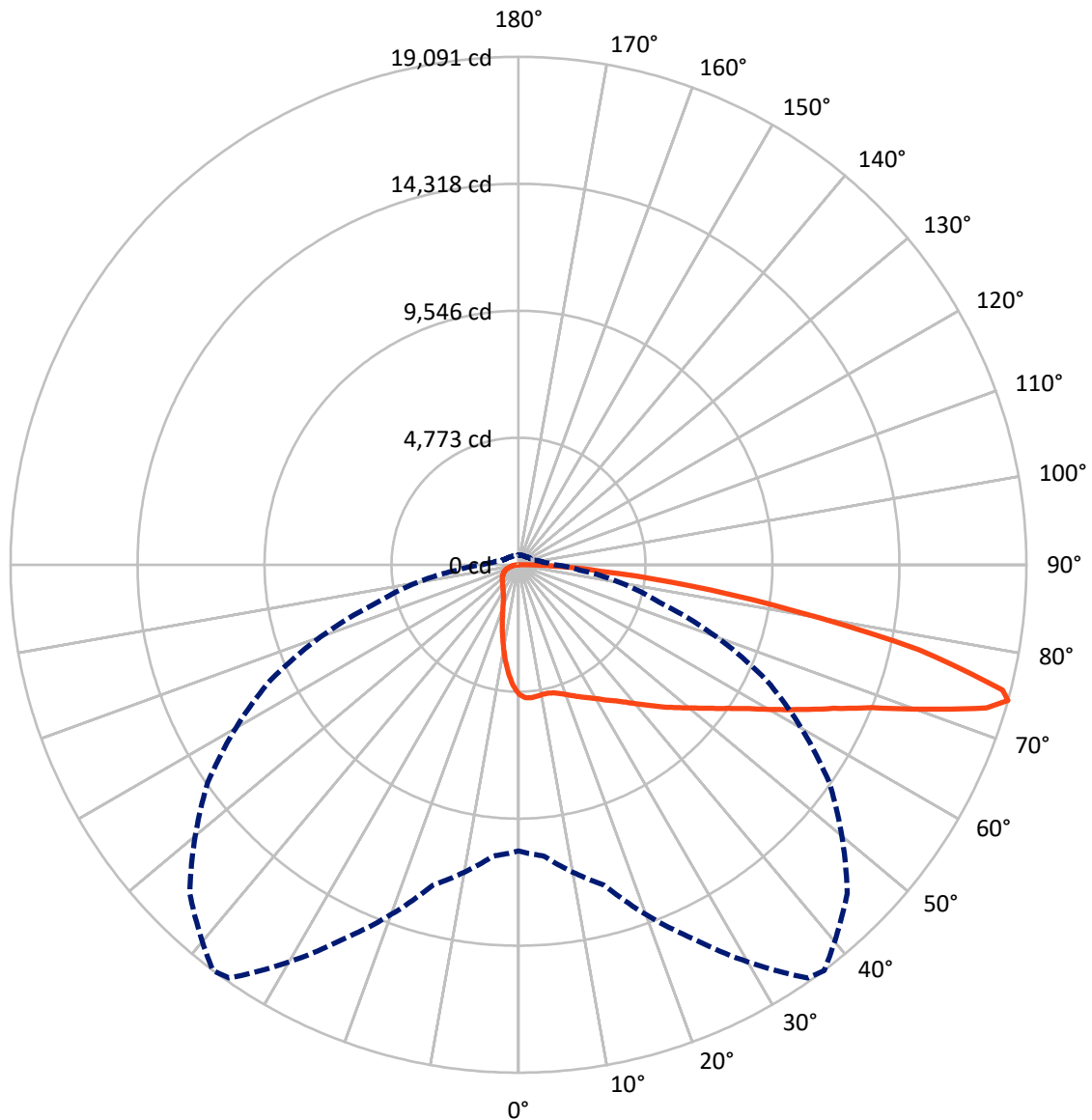
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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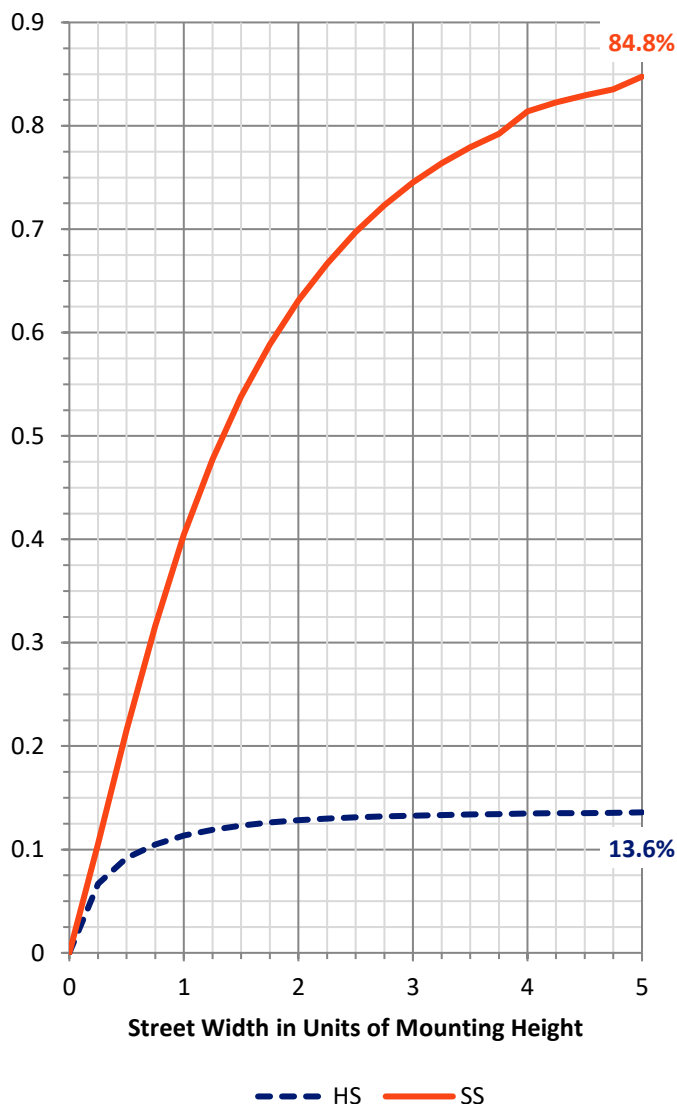
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3812.0	0.0	3812.0
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	23893.1	0.0	23893.1
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	27705.2	0.0	27705.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.9	1.6
10°-20°	1101.9	4.0
20°-30°	1697.8	6.1
30°-40°	2468.8	8.9
40°-50°	3633.7	13.1
50°-60°	5102.9	18.4
60°-70°	6458.7	23.3
70°-80°	5687.1	20.5
80°-90°	1124.5	4.1
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°	27705.2	100.0
0°-180°	27705.2	100.0

**Coefficient of Utilization**



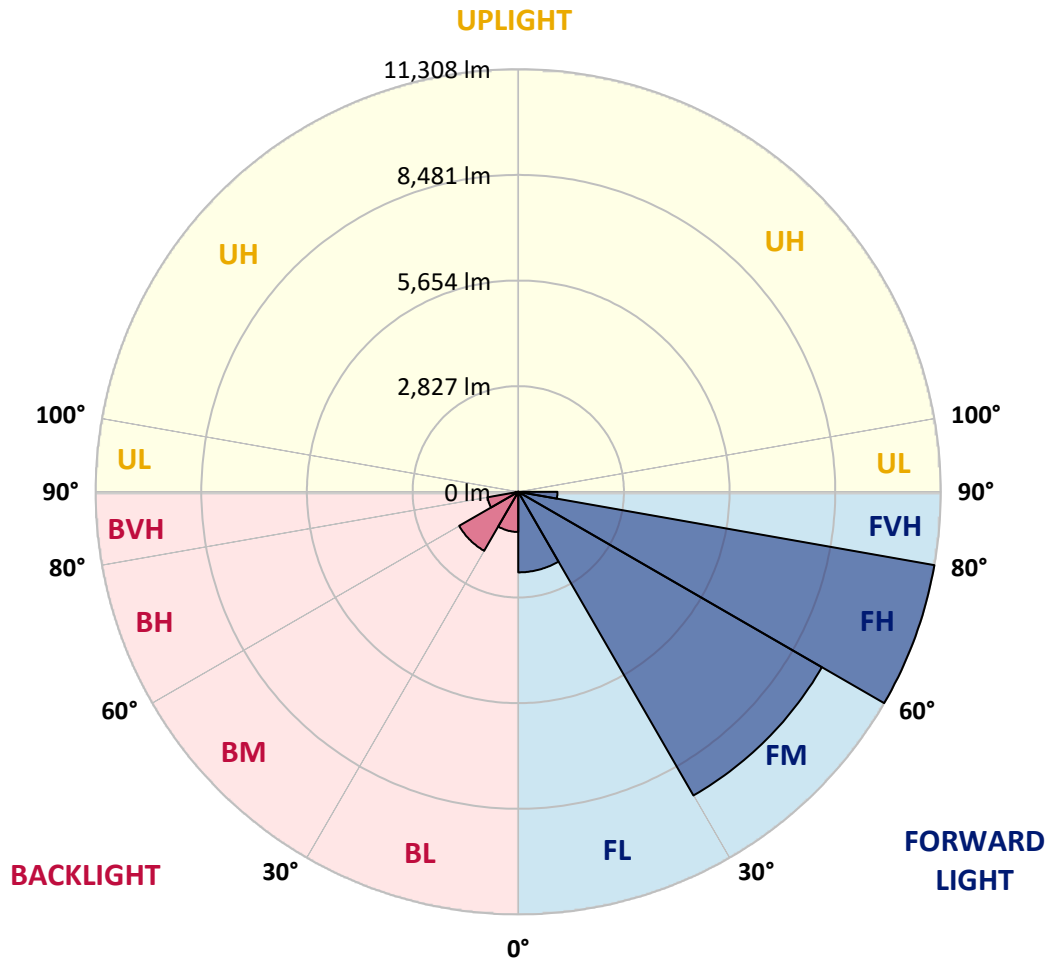
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2155.8	7.8			
FM (30°-60°)	9381.2	33.9			
FH (60°-80°)	11307.8	40.8			G4/12000
FVH (80°-90°)	1048.3	3.8			G5
BL (0°-30°)	1073.8	3.9	B3/2500		
BM (30°-60°)	1824.2	6.6	B2/2500		
BH (60°-80°)	837.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	76.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5
2.5°	5048.4	5049.4	5048.4	5040.6	5022.1	5006.4	4993.7	4975.2	4934.2	4903.0	4856.2
5°	5096.2	5090.3	5086.5	5071.8	5042.6	5025.0	5000.6	4965.4	4898.2	4835.7	4759.6
7.5°	5073.8	5067.0	5058.2	5040.6	5007.4	4992.8	4958.6	4912.8	4831.8	4749.8	4640.5
10°	5004.6	5002.6	4998.7	4994.8	4966.5	4954.7	4923.5	4874.7	4794.7	4695.2	4567.3
12.5°	4927.4	4932.3	4947.9	4968.4	4955.7	4949.9	4930.3	4897.1	4815.2	4707.9	4553.6
15°	4878.6	4892.3	4934.2	4987.9	4998.7	4996.7	4991.8	4970.4	4883.5	4764.4	4584.9
17.5°	4862.0	4884.5	4964.5	5053.3	5084.6	5091.4	5093.3	5056.3	4959.7	4833.7	4617.0
20°	4892.3	4920.6	5037.7	5159.7	5209.5	5213.3	5204.6	5140.2	5031.8	4893.2	4634.6
22.5°	4984.1	5009.4	5155.7	5293.3	5350.0	5355.8	5329.5	5231.9	5108.0	4963.5	4659.0
25°	5160.7	5191.9	5338.2	5475.9	5505.2	5506.1	5468.1	5347.1	5207.5	5062.1	4711.8
27.5°	5391.0	5422.2	5554.0	5688.6	5673.0	5664.2	5612.5	5491.5	5337.3	5197.8	4805.4
30°	5647.6	5681.8	5806.7	5902.4	5865.3	5847.7	5805.8	5649.6	5517.8	5383.1	4948.8
32.5°	5913.1	5944.3	6053.7	6119.0	6072.2	6064.4	6000.9	5858.4	5753.1	5666.1	5181.2
35°	6185.4	6207.8	6315.1	6352.2	6289.8	6287.9	6270.2	6139.5	6073.1	6114.1	5518.9
37.5°	6463.5	6469.3	6561.1	6563.0	6544.5	6552.3	6570.9	6488.9	6507.4	6635.2	5958.0
40°	6711.4	6727.0	6793.4	6813.9	6846.0	6873.4	6966.1	6912.5	7055.9	7282.3	6504.5
42.5°	6894.8	6925.1	7031.5	7084.2	7188.6	7231.5	7362.3	7412.1	7701.0	8040.6	7154.5
45°	7050.0	7096.9	7267.7	7376.0	7552.6	7627.8	7815.1	7982.1	8429.9	8863.3	7838.6
47.5°	7217.9	7277.4	7491.1	7698.0	7938.1	8023.0	8363.6	8613.5	9207.8	9690.9	8483.7
50°	7464.8	7510.7	7719.5	8044.5	8344.1	8453.4	8924.8	9283.0	9998.3	10479.4	9042.8
52.5°	7809.3	7791.7	7968.4	8424.1	8826.2	8960.8	9524.0	9995.3	10799.5	11192.8	9515.2
55°	8155.8	8126.4	8250.4	8821.3	9388.3	9529.8	10183.7	10710.7	11561.7	11834.9	9877.3
57.5°	8541.3	8485.6	8590.0	9269.3	10028.6	10197.4	10922.5	11471.0	12311.2	12354.2	10107.6
60°	8938.4	8863.3	8980.4	9824.6	10841.4	11040.5	11787.2	12212.7	13017.7	12769.8	10181.7
62.5°	9285.9	9233.1	9413.7	10444.2	11757.9	11976.4	12636.2	13001.1	13714.6	12942.6	9914.4
65°	9589.4	9598.1	9910.5	11141.1	12779.6	13012.9	13610.2	13973.2	14263.0	12840.2	9288.7
67.5°	9951.4	10001.2	10534.0	12058.4	14065.9	14321.6	15027.2	15033.0	14569.5	12239.0	8057.1
70°	10479.4	10581.9	11391.9	13331.0	15894.8	16246.1	16790.7	15655.7	14139.1	10609.2	6339.6
72.5°	10947.8	11139.2	12304.3	14787.1	18123.8	18390.2	17822.2	15296.6	12340.5	7950.8	3949.6
74°	10757.5	10994.7	12470.3	15504.4	18963.0	19091.0	17473.8	14248.4	10289.1	5506.1	2295.3
75°	10347.6	10605.3	12228.2	15497.6	18856.7	18785.4	16632.6	13051.0	8473.9	3755.3	1527.3
77.5°	8351.0	8623.2	10303.8	13282.3	15461.5	15394.1	12776.7	8755.0	3711.4	1231.6	775.9
80°	4855.2	5063.1	6396.2	8434.9	10425.7	10547.7	8402.7	4332.1	1460.0	692.0	526.0
82.5°	2156.8	2300.3	3089.8	4305.7	6291.8	6448.8	4400.4	2270.0	901.7	420.6	316.2
85°	1415.1	1521.5	1875.7	2050.4	2996.0	3103.5	2153.8	1767.4	595.4	231.3	232.2
87.5°	1017.9	1120.4	1393.6	1217.0	1375.1	1301.8	1172.1	1635.6	239.1	131.7	78.1
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°	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5	4881.5
2.5°	4835.7	4820.0	4784.9	4718.6	4681.5	4650.3	4598.5	4568.3	4554.6	4553.6	4559.5
5°	4715.7	4679.5	4588.8	4477.5	4388.7	4307.7	4207.1	4146.7	4103.7	4078.3	4085.2
7.5°	4576.0	4519.5	4377.0	4199.4	4056.9	3899.7	3744.6	3651.9	3579.7	3526.0	3535.8
10°	4480.5	4402.4	4194.5	3938.8	3701.7	3473.3	3259.6	3131.7	3030.2	2952.2	2958.0
12.5°	4448.2	4342.9	4054.9	3713.3	3380.6	3068.3	2789.1	2593.1	2488.6	2399.8	2406.7
15°	4453.1	4311.6	3937.8	3510.4	3091.7	2698.4	2359.8	2130.4	1988.9	1927.5	1928.4
17.5°	4457.0	4275.5	3814.9	3292.7	2805.7	2352.9	1985.0	1752.7	1619.0	1562.5	1563.4
20°	4444.3	4216.9	3662.7	3042.9	2507.2	2035.8	1679.6	1482.5	1380.9	1337.1	1337.1
22.5°	4427.7	4147.6	3490.9	2792.1	2212.4	1760.5	1460.9	1310.7	1252.1	1222.8	1221.8
25°	4435.6	4095.9	3315.2	2534.5	1941.1	1541.0	1315.5	1215.9	1176.9	1158.4	1157.4
27.5°	4477.5	4071.5	3153.2	2277.8	1704.0	1376.1	1217.9	1147.7	1122.3	1110.6	1110.6
30°	4553.6	4071.5	2984.4	2059.2	1506.8	1254.0	1142.8	1094.9	1077.4	1069.6	1069.6
32.5°	4686.3	4094.0	2821.4	1842.5	1349.7	1158.4	1080.3	1048.2	1034.5	1030.6	1030.6
35°	4914.8	4170.1	2662.3	1637.6	1222.8	1080.3	1020.8	1002.3	992.5	991.5	994.4
37.5°	5235.8	4325.3	2512.9	1486.3	1133.0	1016.9	971.0	956.4	950.6	955.4	959.3
40°	5639.9	4536.1	2377.3	1349.7	1064.8	966.2	925.2	915.4	912.5	919.3	925.2
42.5°	6127.8	4821.0	2266.1	1251.2	1012.0	923.3	886.1	874.4	871.5	879.3	887.1
45°	6655.7	5127.5	2188.0	1177.9	971.0	891.0	852.0	839.3	833.5	837.4	846.1
47.5°	7135.9	5417.3	2156.8	1126.2	932.0	863.7	821.7	806.1	796.4	794.4	801.2
50°	7540.9	5633.0	2171.4	1094.9	900.8	833.5	792.5	774.9	760.2	751.5	756.3
52.5°	7835.6	5768.6	2185.0	1081.3	876.4	800.3	760.2	743.7	724.1	709.5	709.5
55°	8049.4	5799.9	2154.9	1070.6	857.9	764.1	724.1	708.5	689.0	672.4	670.4
57.5°	8133.3	5712.1	2042.6	1055.0	845.1	730.0	686.1	674.3	657.8	638.3	637.3
60°	8020.1	5440.7	1825.9	1021.8	828.5	701.6	648.0	640.2	632.4	613.9	612.9
62.5°	7565.3	4845.4	1545.8	954.5	795.4	671.5	612.9	616.8	617.8	605.0	603.1
65°	6740.7	4027.6	1272.6	866.6	745.6	635.3	576.7	595.4	606.1	604.1	601.1
67.5°	5542.2	3134.7	1078.4	773.9	680.2	585.6	537.7	559.2	568.0	574.9	572.9
70°	4113.5	2210.5	892.0	676.3	601.1	527.0	487.0	497.7	491.9	499.7	502.6
72.5°	2293.4	1326.2	727.1	578.7	519.2	458.7	430.4	428.4	415.7	415.7	415.7
74°	1376.1	973.0	639.2	518.2	469.4	413.8	389.4	380.6	368.9	369.9	368.9
75°	1106.7	836.3	586.5	478.2	434.3	387.4	363.0	351.3	342.5	342.5	341.6
77.5°	698.8	635.3	472.4	380.6	347.5	319.1	302.6	286.9	286.9	286.0	285.0
80°	528.0	505.6	368.0	287.9	266.4	245.0	234.2	227.4	227.4	230.3	229.3
82.5°	362.1	380.6	258.6	201.0	190.3	174.7	172.7	173.7	170.8	166.8	165.9
85°	264.5	286.0	174.7	126.9	116.2	106.4	114.2	118.1	113.2	104.4	100.5
87.5°	101.5	187.3	93.7	52.7	48.8	41.9	48.8	50.8	54.7	42.9	43.9
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)