

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: P320121

Luminaire Tested: **GLEON-SA7B-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320121  
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-SA7B-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA 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: 28235 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

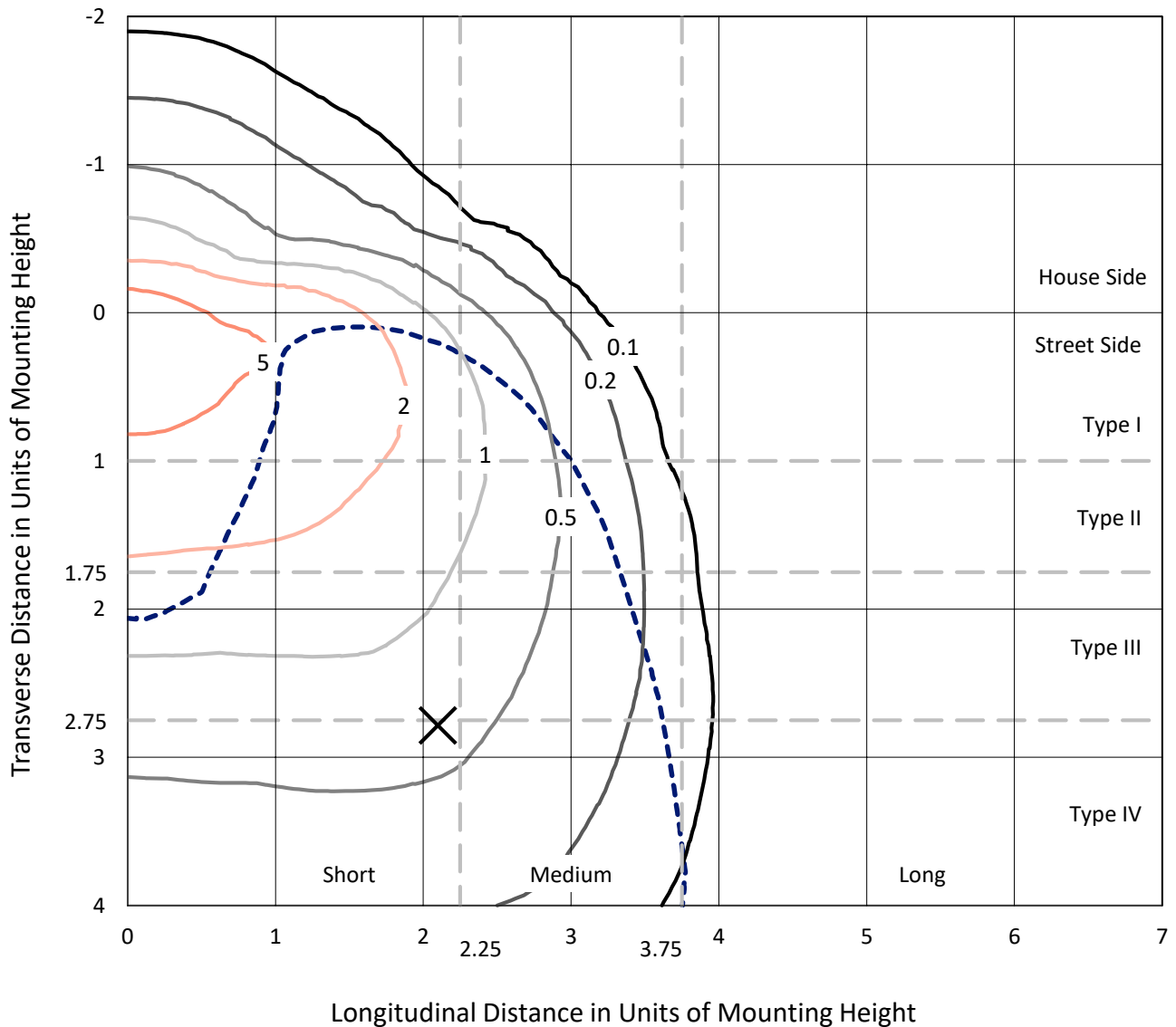
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

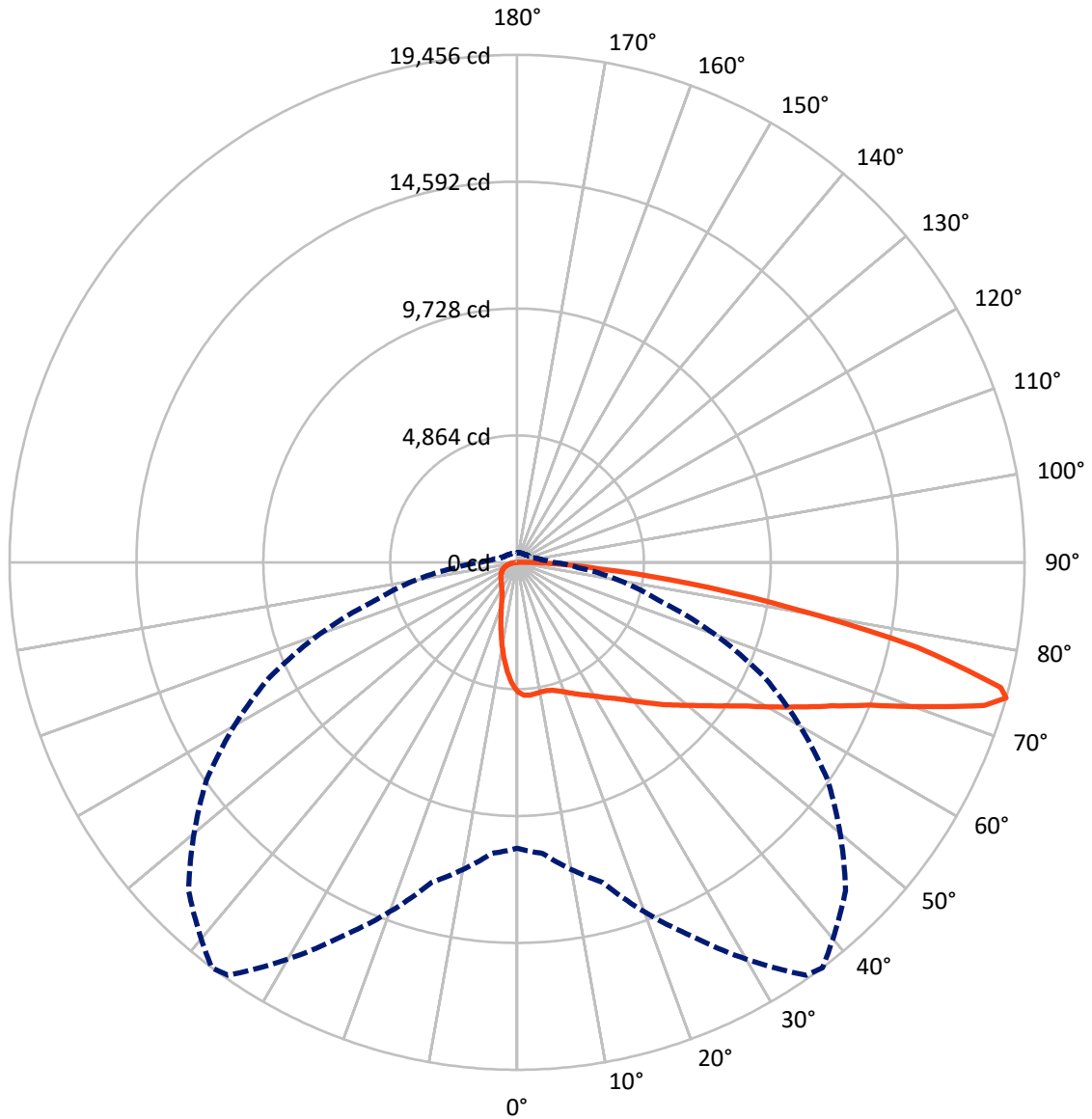
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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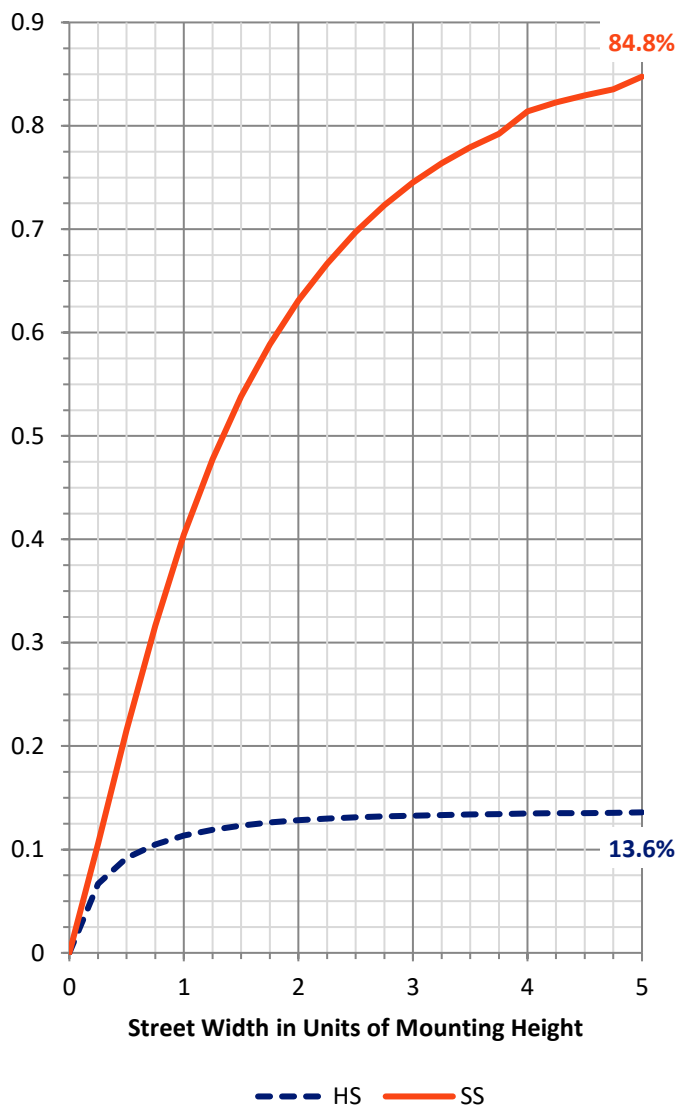
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3884.9	0.0	3884.9
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	24350.1	0.0	24350.1
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	28235.0	0.0	28235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.1	1.6
10°-20°	1123.0	4.0
20°-30°	1730.3	6.1
30°-40°	2516.0	8.9
40°-50°	3703.2	13.1
50°-60°	5200.5	18.4
60°-70°	6582.2	23.3
70°-80°	5795.9	20.5
80°-90°	1146.0	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°	28235.0	100.0
0°-180°	28235.0	100.0

**Coefficient of Utilization**

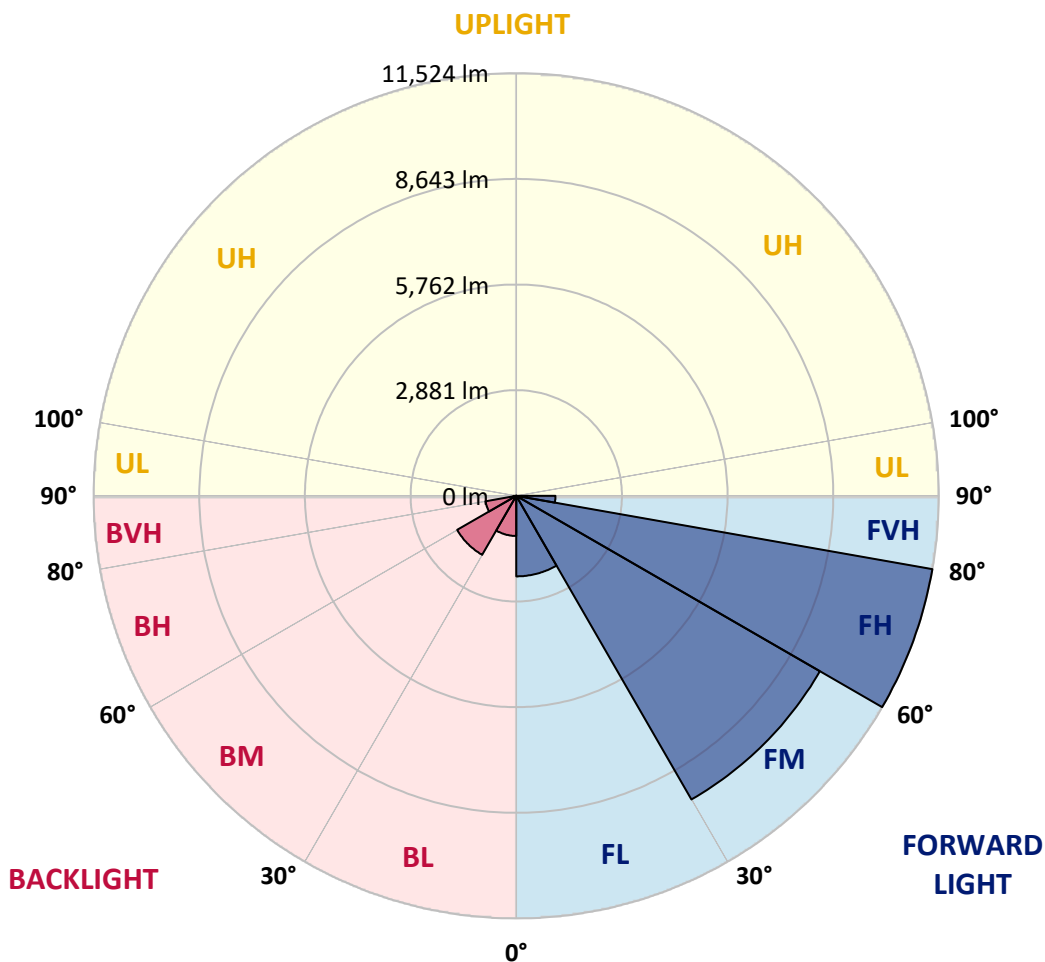


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.0	7.8			
FM (30°-60°)	9560.6	33.9			
FH (60°-80°)	11524.1	40.8			G4/12000
FVH (80°-90°)	1068.4	3.8			G5
BL (0°-30°)	1094.3	3.9	B3/2500		
BM (30°-60°)	1859.1	6.6	B2/2500		
BH (60°-80°)	853.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	77.6	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°	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9
2.5°	5145.0	5146.0	5145.0	5137.0	5118.1	5102.2	5089.3	5070.4	5028.6	4996.8	4949.0
5°	5193.7	5187.7	5183.8	5168.8	5139.0	5121.1	5096.2	5060.4	4991.8	4928.2	4850.6
7.5°	5170.8	5163.9	5154.9	5137.0	5103.2	5088.3	5053.5	5006.7	4924.2	4840.6	4729.2
10°	5100.2	5098.2	5094.2	5090.3	5061.4	5049.5	5017.7	4967.9	4886.4	4784.9	4654.6
12.5°	5021.6	5026.6	5042.5	5063.4	5050.5	5044.5	5024.6	4990.8	4907.3	4797.9	4640.7
15°	4971.9	4985.8	5028.6	5083.3	5094.2	5092.3	5087.3	5065.4	4976.9	4855.5	4672.5
17.5°	4955.0	4977.9	5059.4	5149.9	5181.8	5188.7	5190.7	5152.9	5054.5	4926.2	4705.4
20°	4985.8	5014.7	5134.0	5258.4	5309.1	5313.1	5304.1	5238.5	5128.1	4986.8	4723.3
22.5°	5079.3	5105.2	5254.4	5394.6	5452.3	5458.3	5431.4	5332.0	5205.6	5058.4	4748.1
25°	5259.3	5291.2	5440.4	5580.6	5610.4	5611.4	5572.6	5449.3	5307.1	5158.9	4801.8
27.5°	5494.1	5525.9	5660.2	5797.4	5781.5	5772.6	5719.8	5596.5	5439.4	5297.1	4897.3
30°	5755.6	5790.5	5917.8	6015.2	5977.4	5959.5	5916.8	5757.6	5623.4	5486.1	5043.5
32.5°	6026.2	6058.0	6169.4	6236.0	6188.3	6180.3	6115.7	5970.5	5863.1	5774.5	5280.2
35°	6303.7	6326.5	6435.9	6473.7	6410.1	6408.1	6390.2	6256.9	6189.3	6231.1	5624.4
37.5°	6587.1	6593.1	6686.6	6688.6	6669.7	6677.6	6696.5	6613.0	6631.9	6762.2	6071.9
40°	6839.7	6855.7	6923.3	6944.2	6977.0	7004.8	7099.3	7044.6	7190.8	7421.6	6628.9
42.5°	7026.7	7057.6	7166.0	7219.7	7326.1	7369.9	7503.1	7553.8	7848.2	8194.4	7291.3
45°	7184.9	7232.6	7406.6	7517.0	7697.1	7773.7	7964.6	8134.7	8591.2	9032.8	7988.5
47.5°	7355.9	7416.6	7634.4	7845.3	8089.9	8176.5	8523.6	8778.2	9383.9	9876.2	8645.9
50°	7607.6	7654.3	7867.1	8198.3	8503.7	8615.1	9095.4	9460.5	10189.5	10679.8	9215.8
52.5°	7958.6	7940.7	8120.8	8585.2	8995.0	9132.2	9706.1	10186.5	11006.0	11406.9	9697.2
55°	8311.7	8281.9	8408.2	8990.0	9567.9	9712.1	10378.5	10915.5	11782.8	12061.3	10066.2
57.5°	8704.6	8647.9	8754.3	9446.5	10220.3	10392.4	11131.4	11690.3	12546.6	12590.4	10300.9
60°	9109.4	9032.8	9152.1	10012.5	11048.8	11251.7	12012.6	12446.2	13266.7	13014.1	10376.5
62.5°	9463.4	9409.7	9593.7	10644.0	11982.7	12205.5	12877.8	13249.8	13976.9	13190.1	10104.0
65°	9772.8	9781.7	10100.0	11354.1	13024.0	13261.8	13870.4	14240.4	14535.8	13085.7	9466.4
67.5°	10141.7	10192.5	10735.5	12289.1	14334.9	14595.5	15314.6	15320.5	14848.1	12473.0	8211.3
70°	10679.8	10784.2	11609.8	13586.0	16198.8	16556.8	17111.8	15955.1	14409.5	10812.1	6460.8
72.5°	11157.2	11352.2	12539.7	15069.9	18470.4	18741.9	18163.1	15589.1	12576.5	8102.9	4025.1
74°	10963.3	11205.0	12708.8	15800.9	19325.7	19456.0	17808.0	14520.9	10485.9	5611.4	2339.3
75°	10545.5	10808.1	12462.1	15794.0	19217.3	19144.7	16950.7	13300.5	8636.0	3827.2	1556.5
77.5°	8510.6	8788.1	10500.8	13536.3	15757.2	15688.5	13021.1	8922.4	3782.4	1255.2	790.7
80°	4948.0	5159.9	6518.5	8596.2	10625.1	10749.4	8563.3	4414.9	1487.9	705.2	536.1
82.5°	2198.0	2344.2	3148.8	4388.1	6412.1	6572.2	4484.6	2313.4	919.0	428.7	322.2
85°	1442.1	1550.6	1911.6	2089.6	3053.4	3162.8	2195.0	1801.2	606.7	235.7	236.7
87.5°	1037.3	1141.8	1420.3	1240.2	1401.4	1326.8	1194.5	1666.9	243.7	134.3	79.6
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°	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9	4974.9
2.5°	4928.2	4912.2	4876.4	4808.8	4771.0	4739.2	4686.5	4655.6	4641.7	4640.7	4646.7
5°	4805.8	4769.0	4676.5	4563.1	4472.6	4390.1	4287.6	4226.0	4182.2	4156.4	4163.3
7.5°	4663.6	4605.9	4460.7	4279.7	4134.5	3974.3	3816.2	3721.7	3648.1	3593.4	3603.4
10°	4566.1	4486.6	4274.7	4014.1	3772.4	3539.7	3321.9	3191.6	3088.2	3008.6	3014.6
12.5°	4533.3	4425.9	4132.5	3784.4	3445.2	3127.0	2842.5	2642.6	2536.2	2445.7	2452.6
15°	4538.3	4394.1	4013.1	3577.5	3150.8	2750.0	2404.9	2171.2	2027.0	1964.3	1965.3
17.5°	4542.3	4357.3	3887.8	3355.7	2859.4	2397.9	2023.0	1786.3	1650.0	1592.3	1593.3
20°	4529.3	4297.6	3732.7	3101.1	2555.1	2074.7	1711.7	1510.8	1407.3	1362.6	1362.6
22.5°	4512.4	4227.0	3557.6	2845.5	2254.7	1794.2	1488.9	1335.7	1276.0	1246.2	1245.2
25°	4520.4	4174.3	3378.6	2582.9	1978.2	1570.4	1340.7	1239.2	1199.5	1180.6	1179.6
27.5°	4563.1	4149.4	3213.5	2321.4	1736.5	1402.4	1241.2	1169.6	1143.8	1131.8	1131.8
30°	4640.7	4149.4	3041.4	2098.6	1535.6	1278.0	1164.7	1115.9	1098.0	1090.1	1090.1
32.5°	4776.0	4172.3	2875.3	1877.8	1375.5	1180.6	1101.0	1068.2	1054.3	1050.3	1050.3
35°	5008.7	4249.8	2713.2	1668.9	1246.2	1101.0	1040.3	1021.4	1011.5	1010.5	1013.5
37.5°	5335.9	4408.0	2561.0	1514.7	1154.7	1036.4	989.6	974.7	968.7	973.7	977.7
40°	5747.7	4622.8	2422.8	1375.5	1085.1	984.6	942.9	932.9	929.9	936.9	942.9
42.5°	6245.0	4913.2	2309.4	1275.1	1031.4	940.9	903.1	891.1	888.2	896.1	904.1
45°	6783.0	5225.5	2229.9	1200.5	989.6	908.1	868.3	855.3	849.4	853.4	862.3
47.5°	7272.4	5520.9	2198.0	1147.7	949.8	880.2	837.4	821.5	811.6	809.6	816.6
50°	7685.1	5740.7	2212.9	1115.9	918.0	849.4	807.6	789.7	774.8	765.8	770.8
52.5°	7985.5	5879.0	2226.9	1102.0	893.1	815.6	774.8	757.9	738.0	723.1	723.1
55°	8203.3	5910.8	2196.0	1091.1	874.2	778.8	738.0	722.1	702.2	685.3	683.3
57.5°	8288.8	5821.3	2081.7	1075.1	861.3	743.9	699.2	687.3	670.3	650.5	649.5
60°	8173.5	5544.8	1860.9	1041.3	844.4	715.1	660.4	652.4	644.5	625.6	624.6
62.5°	7710.0	4938.1	1575.4	972.7	810.6	684.3	624.6	628.6	629.6	616.6	614.7
65°	6869.6	4104.6	1296.9	883.2	759.9	647.5	587.8	606.7	617.6	615.6	612.7
67.5°	5648.2	3194.6	1099.0	788.7	693.2	596.7	548.0	569.9	578.8	585.8	583.8
70°	4192.2	2252.7	909.0	689.2	612.7	537.1	496.3	507.2	501.3	509.2	512.2
72.5°	2337.3	1351.6	741.0	589.8	529.1	467.5	438.6	436.6	423.7	423.7	423.7
74°	1402.4	991.6	651.5	528.1	478.4	421.7	396.8	387.9	376.0	376.9	376.0
75°	1127.9	852.4	597.7	487.3	442.6	394.8	370.0	358.0	349.1	349.1	348.1
77.5°	712.1	647.5	481.4	387.9	354.1	325.2	308.3	292.4	292.4	291.4	290.4
80°	538.1	515.2	375.0	293.4	271.5	249.6	238.7	231.7	231.7	234.7	233.7
82.5°	369.0	387.9	263.6	204.9	193.9	178.0	176.0	177.0	174.1	170.1	169.1
85°	269.5	291.4	178.0	129.3	118.4	108.4	116.4	120.3	115.4	106.4	102.4
87.5°	103.4	191.0	95.5	53.7	49.7	42.8	49.7	51.7	55.7	43.8	44.8
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)