

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: P319799

Luminaire Tested: **GLEON-SA5B-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319799  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20999 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

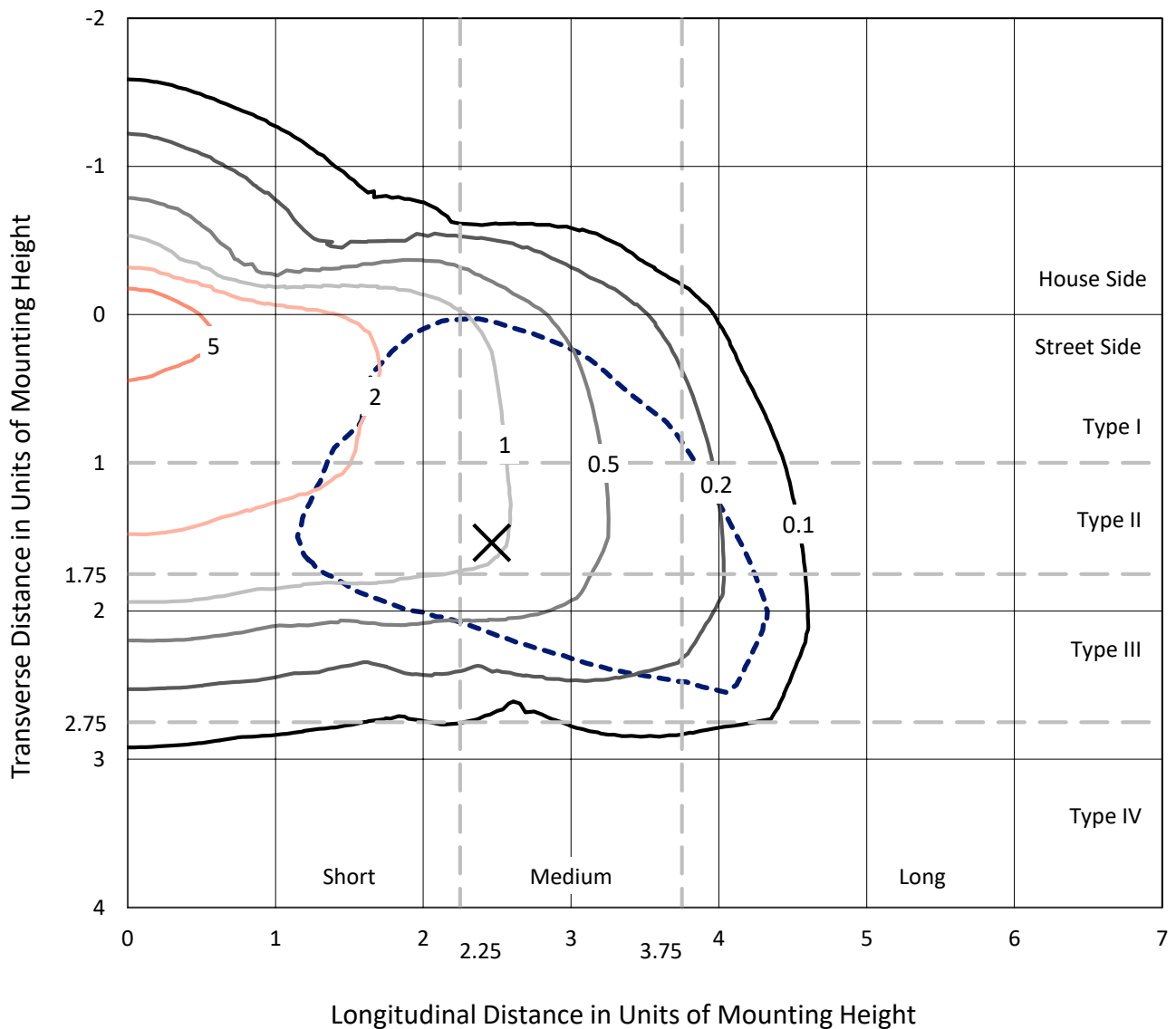
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

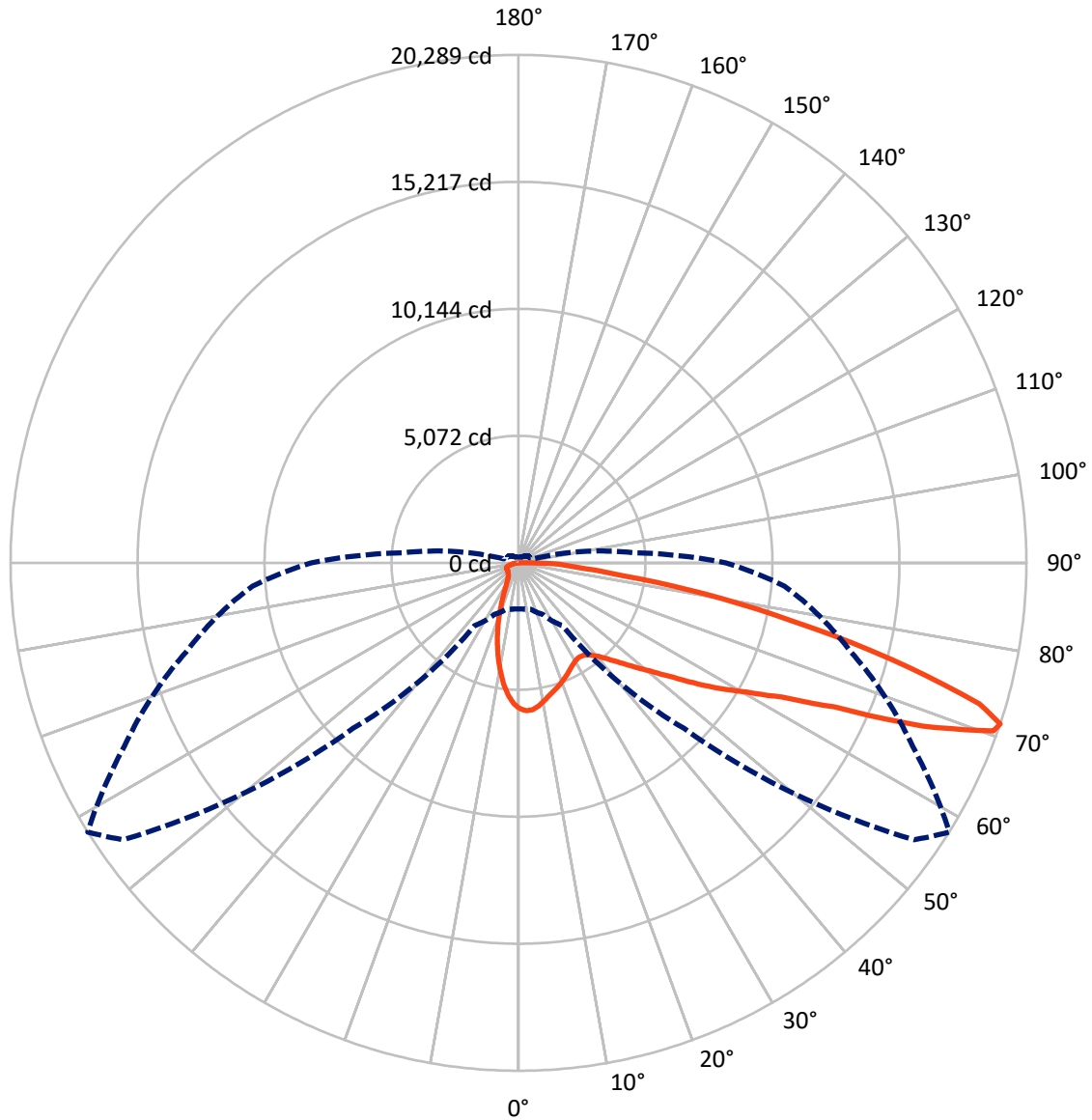
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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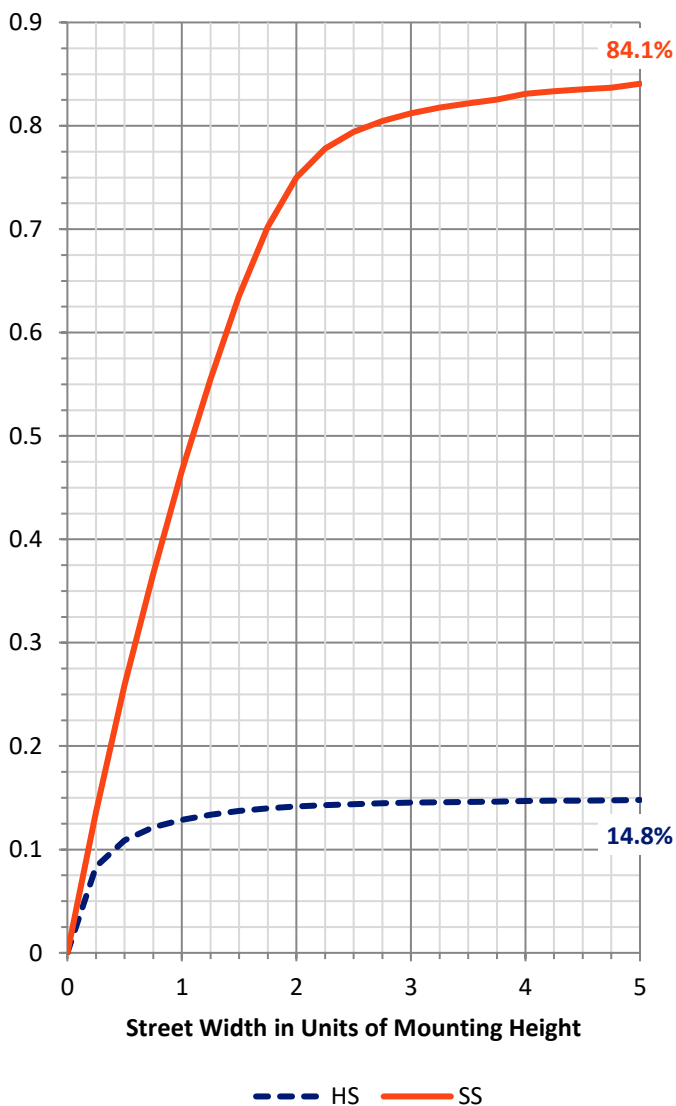
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3139.5	0.0	3139.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	17859.5	0.0	17859.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	20999.0	0.0	20999.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.9	2.4
10°-20°	1116.1	5.3
20°-30°	1418.5	6.8
30°-40°	1806.8	8.6
40°-50°	2562.2	12.2
50°-60°	3965.0	18.9
60°-70°	5397.9	25.7
70°-80°	3601.0	17.1
80°-90°	629.6	3.0
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°	20999.0	100.0
0°-180°	20999.0	100.0

**Coefficient of Utilization**

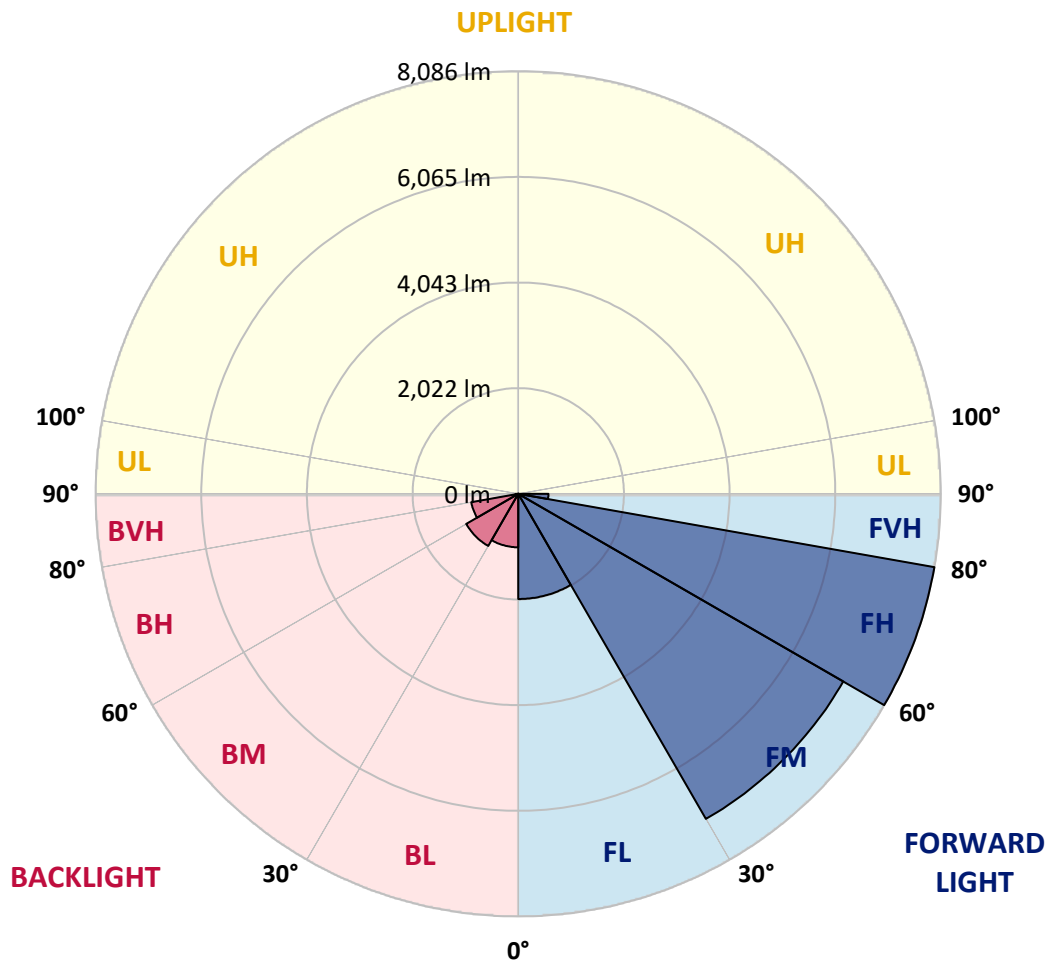


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.1	9.6			
FM (30°-60°)	7182.7	34.2			
FH (60°-80°)	8086.5	38.5			G4/12000
FVH (80°-90°)	577.3	2.7			G4/750
BL (0°-30°)	1023.4	4.9	B3/2500		
BM (30°-60°)	1151.3	5.5	B2/2500		
BH (60°-80°)	912.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	52.3	0.2			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°	58°	65°	75°	85°
0°	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1
2.5°	5972.5	5964.4	5967.3	5961.5	5947.6	5933.7	5913.2	5916.9	5888.3	5845.9	5793.3
5°	5859.8	5856.9	5878.8	5891.3	5901.5	5893.5	5887.6	5894.9	5853.2	5794.7	5703.3
7.5°	5623.6	5591.4	5619.2	5660.9	5700.4	5730.4	5769.8	5775.0	5748.6	5687.2	5567.2
10°	5287.8	5257.1	5298.1	5363.2	5442.2	5513.8	5593.6	5608.2	5613.3	5557.7	5412.2
12.5°	4939.6	4916.2	4957.2	5048.6	5179.6	5290.0	5417.3	5439.2	5484.6	5447.3	5268.8
15°	4628.0	4619.2	4669.0	4759.0	4909.6	5078.6	5262.2	5302.4	5379.2	5366.8	5156.9
17.5°	4358.8	4356.6	4394.7	4489.0	4655.8	4869.4	5107.9	5175.9	5290.0	5304.6	5064.7
20°	4158.4	4154.0	4180.4	4249.9	4421.7	4663.9	4941.1	5034.7	5199.3	5250.5	4969.6
22.5°	4050.9	4050.2	4050.9	4083.8	4224.2	4449.5	4778.7	4892.8	5110.8	5207.3	4864.3
25°	4032.6	4030.4	4014.3	4010.7	4090.4	4270.3	4617.8	4743.6	5026.7	5177.4	4764.1
27.5°	4080.1	4083.1	4061.9	4027.5	4043.6	4152.6	4478.1	4612.7	4959.4	5171.5	4694.6
30°	4178.9	4177.4	4159.1	4123.3	4091.9	4108.7	4378.6	4513.2	4914.0	5197.1	4647.0
32.5°	4287.9	4295.9	4292.3	4272.5	4225.7	4158.4	4348.6	4480.3	4900.9	5258.6	4626.6
35°	4418.8	4427.6	4453.9	4469.3	4414.4	4306.2	4413.0	4527.1	4938.9	5374.1	4659.5
37.5°	4543.2	4565.8	4639.7	4704.8	4658.0	4537.3	4584.1	4665.3	5056.7	5556.3	4748.0
40°	4686.5	4706.3	4827.0	4965.2	4957.9	4832.8	4859.9	4914.0	5264.4	5817.4	4908.2
42.5°	4827.7	4867.2	5042.0	5238.1	5294.4	5183.9	5227.1	5255.6	5557.0	6163.4	5187.6
45°	5015.7	5058.1	5301.0	5537.2	5668.9	5606.7	5675.5	5686.5	5924.9	6634.4	5593.6
47.5°	5300.2	5348.5	5631.6	5879.6	6080.7	6087.3	6200.7	6196.3	6384.3	7173.5	6104.9
50°	5743.5	5813.0	6044.9	6276.8	6521.1	6657.1	6808.5	6787.3	6935.1	7747.7	6693.7
52.5°	6324.3	6356.5	6528.4	6699.6	7003.1	7308.1	7525.4	7506.4	7559.8	8338.0	7362.3
55°	6926.3	6950.4	7021.4	7115.0	7523.2	8020.6	8480.0	8450.0	8314.6	8951.0	8022.8
57.5°	7467.6	7516.6	7565.6	7604.4	8046.9	8765.2	9456.5	9458.7	9133.9	9612.3	8705.2
60°	7551.7	7594.9	7918.9	8224.7	8943.0	9758.6	10501.7	10479.8	9981.7	10329.8	9466.0
62.5°	6675.4	6772.7	7314.0	8127.4	9806.1	11575.5	11835.2	11808.1	10995.5	11214.2	10351.8
65°	4783.8	4894.3	5547.5	6769.8	9387.7	13577.6	14241.8	13877.5	12378.0	12301.9	11389.0
67.5°	2759.8	2786.2	3069.3	4050.9	7147.9	13682.2	17913.0	17403.2	14524.8	13535.9	11896.7
70°	2040.8	2040.1	2107.4	2492.9	3868.0	11166.6	19659.0	20116.2	16785.1	13941.9	11179.1
71°	1845.5	1847.7	1923.0	2269.0	3063.4	9346.7	19288.2	20288.8	17380.5	13741.4	10659.7
72.5°	1578.5	1585.8	1690.4	2035.0	2577.0	6445.7	17690.6	19253.1	17662.8	13247.0	9847.1
75°	1197.4	1214.2	1359.1	1715.3	2355.3	3268.9	12983.6	15374.1	15690.8	11688.9	7316.9
77.5°	854.4	873.4	1037.2	1442.5	2239.0	2463.6	8695.0	11214.2	11547.0	7491.0	3300.4
80°	539.8	562.5	686.1	1147.7	2103.7	2339.2	5464.1	7537.8	6296.5	2397.0	839.7
82.5°	316.7	334.3	425.7	749.8	1718.2	2252.9	3214.8	4178.2	2450.4	724.2	381.8
85°	183.6	191.6	265.5	477.7	1247.9	2126.4	2361.9	2335.6	1063.6	354.0	180.7
87.5°	85.6	95.1	157.3	249.4	692.7	1541.2	1866.7	1612.9	661.3	166.0	84.9
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°	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1	5818.1
2.5°	5767.7	5755.2	5703.3	5657.2	5608.9	5546.0	5476.5	5467.8	5425.3	5433.4	5418.7
5°	5653.5	5622.1	5497.0	5383.6	5249.8	5129.8	4999.6	4939.6	4853.3	4847.5	4825.5
7.5°	5490.4	5431.9	5238.1	5023.0	4808.0	4603.2	4400.5	4267.4	4131.4	4073.6	4068.4
10°	5306.8	5207.3	4922.1	4603.9	4293.7	3994.6	3704.9	3490.6	3297.5	3206.0	3202.4
12.5°	5132.7	4985.7	4594.4	4161.3	3737.1	3349.4	2952.2	2670.6	2428.5	2347.3	2312.9
15°	4985.0	4778.0	4275.5	3721.7	3206.8	2668.4	2216.4	1920.1	1696.3	1618.7	1604.1
17.5°	4841.6	4575.4	3948.5	3277.7	2655.2	2063.5	1610.7	1390.5	1271.3	1239.8	1239.1
20°	4699.0	4366.9	3606.9	2823.5	2122.0	1543.4	1238.4	1139.6	1099.4	1095.7	1089.9
22.5°	4537.3	4146.0	3247.7	2367.8	1656.1	1213.5	1052.6	1013.1	1008.0	1021.1	1021.1
25°	4385.9	3926.5	2883.5	1921.6	1288.1	1012.4	939.9	931.9	945.8	969.2	971.4
27.5°	4244.7	3715.1	2528.0	1525.1	1032.1	891.7	861.7	871.2	896.1	923.1	923.8
30°	4128.4	3515.5	2182.7	1201.8	871.9	801.7	796.6	815.6	842.7	863.9	869.0
32.5°	4038.5	3345.0	1849.2	966.3	767.3	734.4	738.8	754.9	771.7	783.4	791.5
35°	3996.8	3198.7	1541.2	814.9	700.7	682.5	688.3	697.1	704.4	713.2	719.8
37.5°	4004.1	3085.3	1266.2	720.5	656.1	646.6	646.6	646.6	646.6	651.0	651.7
40°	4072.1	3020.2	1042.3	660.5	626.1	615.9	607.9	600.5	594.7	597.6	596.1
42.5°	4246.2	3014.4	878.5	622.5	602.0	585.2	569.1	558.8	551.5	554.5	555.9
45°	4541.7	3087.5	768.0	595.4	579.3	553.7	533.2	522.3	517.2	526.7	528.1
47.5°	4924.3	3247.0	700.7	575.7	558.1	524.5	502.5	492.3	493.7	507.6	511.3
50°	5417.3	3505.9	668.6	563.2	543.5	499.6	476.9	468.1	472.5	492.3	496.7
52.5°	5958.6	3879.0	672.2	559.6	534.0	481.3	457.2	446.9	454.2	472.5	476.2
55°	6583.2	4327.4	732.9	564.7	520.1	469.6	441.1	423.5	429.4	446.2	449.1
57.5°	7277.4	4840.9	855.1	563.2	502.5	458.6	424.3	397.9	402.3	412.6	415.5
60°	8000.1	5461.2	1044.5	567.6	494.5	445.5	401.6	368.7	367.2	376.0	377.4
62.5°	8867.6	6178.7	1261.1	570.5	499.6	428.6	371.6	339.4	335.0	337.2	338.7
65°	9761.5	6698.1	1179.9	558.8	515.7	414.7	345.3	310.9	302.8	301.4	302.1
67.5°	9789.3	6141.4	827.3	535.4	522.3	407.4	325.5	286.7	273.6	268.5	267.7
70°	8779.1	4989.4	644.4	510.6	495.9	395.7	307.2	267.0	247.2	239.2	238.5
71°	8286.1	4592.9	610.8	498.1	476.2	384.0	299.2	258.2	237.7	229.0	227.5
72.5°	7512.9	4117.5	569.8	478.4	438.2	354.0	283.8	245.8	224.6	214.3	212.1
75°	5391.7	2692.5	489.4	426.4	362.8	282.3	248.7	220.9	202.6	190.2	188.7
77.5°	2077.4	1071.6	370.1	354.8	278.0	220.9	204.8	190.9	177.7	165.3	164.6
80°	642.2	479.1	269.9	267.0	201.2	164.6	159.5	155.8	150.7	137.5	134.6
82.5°	343.1	275.0	185.8	172.6	131.7	109.7	115.6	117.0	117.8	103.9	102.4
85°	163.8	145.6	104.6	98.0	76.8	61.4	71.0	76.8	77.5	63.6	59.2
87.5°	78.3	76.1	49.0	37.3	28.5	20.5	24.9	30.7	33.6	24.1	21.2
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)