

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: P318202

Luminaire Tested: **GLEON-SA8B-827-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8B-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33039 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

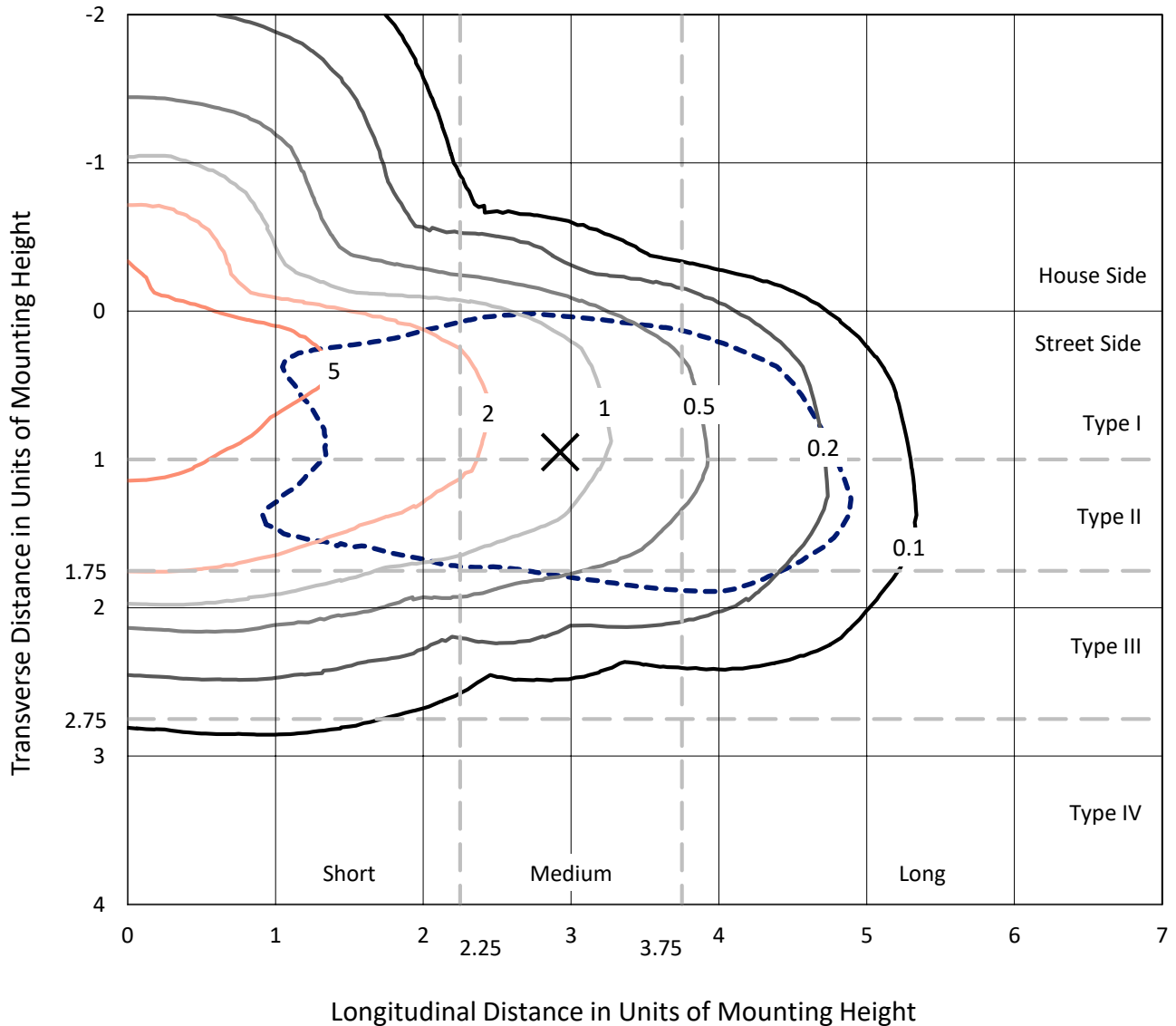
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA8B-827-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

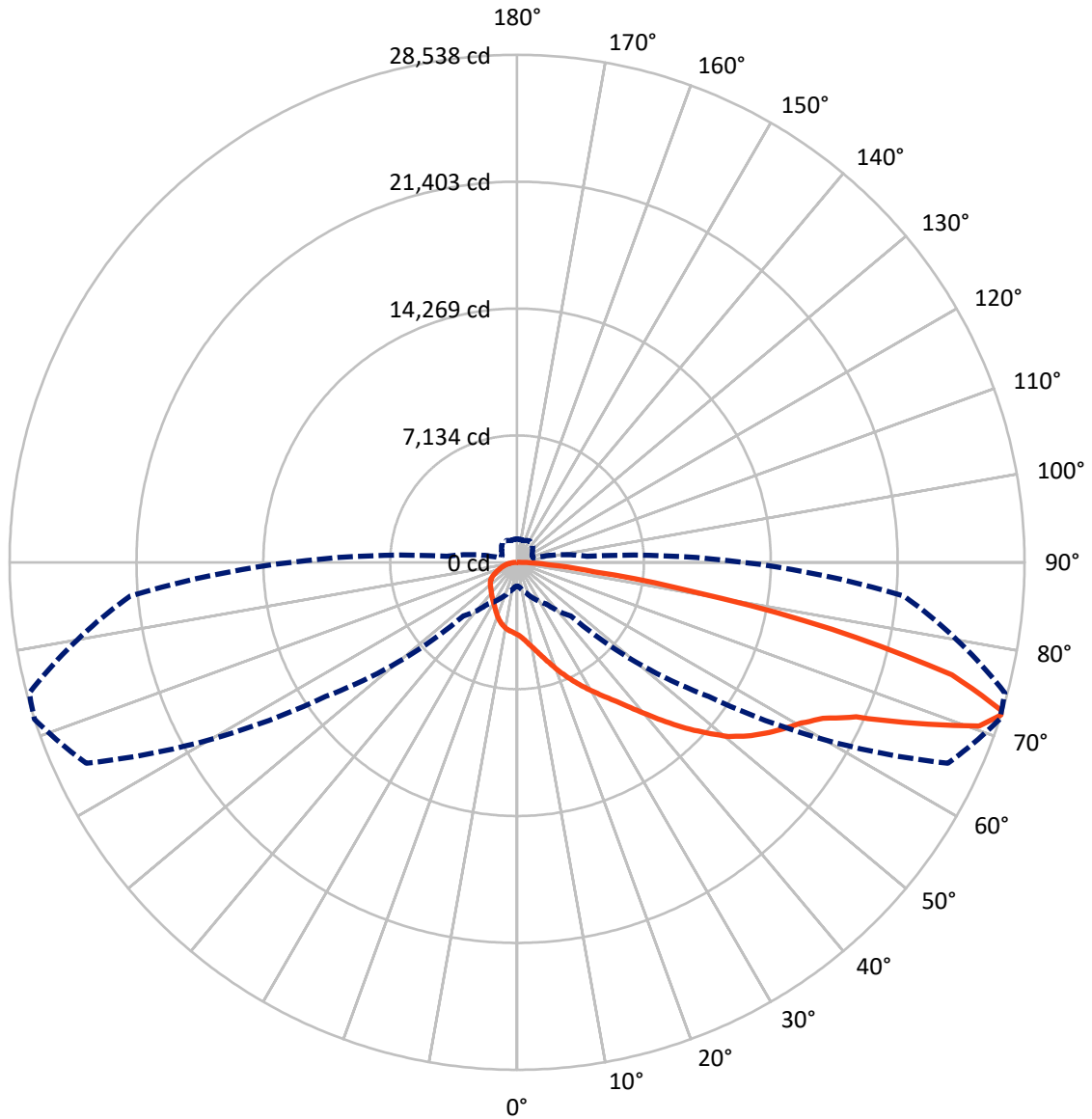
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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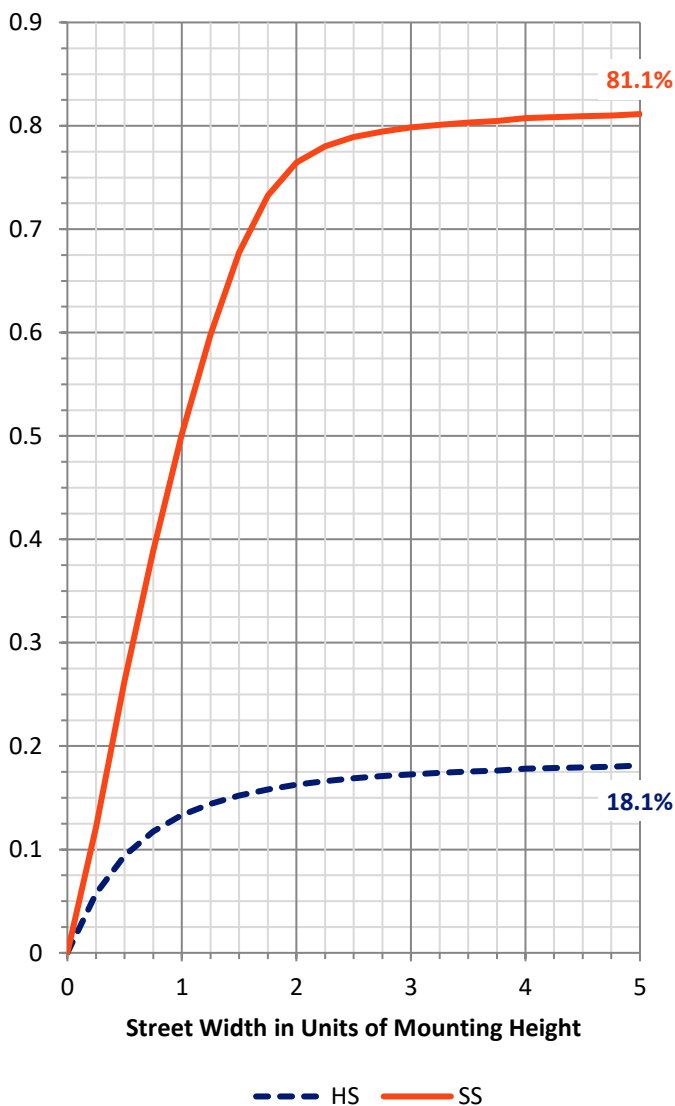
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6129.0	0.0	6129.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	26910.0	0.0	26910.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	33039.0	0.0	33039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.3	1.2
10°-20°	1316.2	4.0
20°-30°	2306.3	7.0
30°-40°	3419.6	10.4
40°-50°	5001.4	15.1
50°-60°	6881.9	20.8
60°-70°	7661.6	23.2
70°-80°	5191.5	15.7
80°-90°	853.3	2.6
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°	33039.0	100.0
0°-180°	33039.0	100.0

**Coefficient of Utilization**

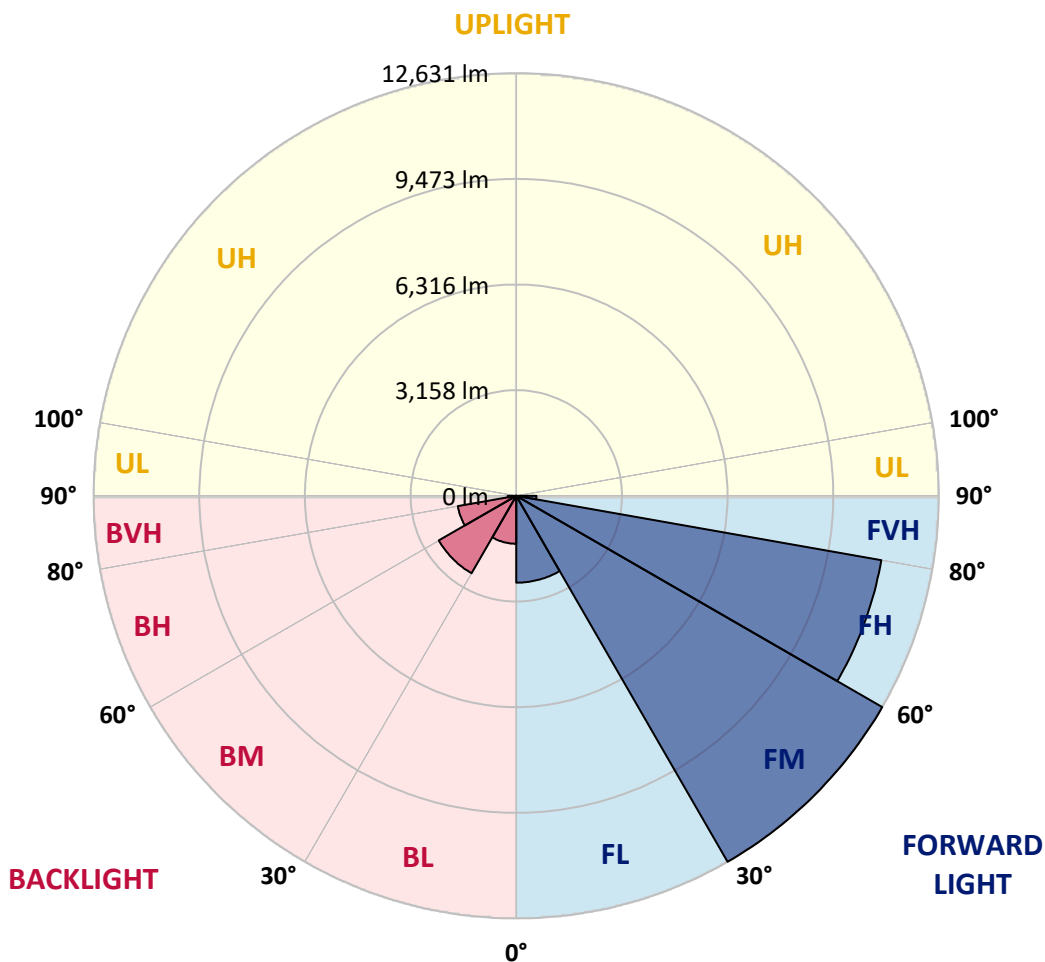


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2597.1	7.9			
FM (30°-60°)	12631.2	38.2			
FH (60°-80°)	11079.9	33.5			G4/12000
FVH (80°-90°)	601.9	1.8			G4/750
BL (0°-30°)	1432.7	4.3	B3/2500		
BM (30°-60°)	2671.6	8.1	B3/5000		
BH (60°-80°)	1773.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	251.4	0.8			G3/500
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°	65°	72°	75°	85°
0°	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7
2.5°	4490.1	4483.3	4459.4	4459.4	4413.9	4375.2	4302.4	4253.5	4195.5	4175.0	4106.8
5°	4924.7	4927.0	4897.4	4876.9	4809.8	4727.9	4603.9	4491.3	4378.6	4333.1	4193.2
7.5°	5289.9	5285.3	5277.3	5260.3	5197.7	5113.5	4946.3	4779.1	4613.0	4544.7	4303.6
10°	5524.2	5534.4	5541.3	5549.2	5523.1	5462.8	5304.6	5101.0	4883.7	4790.5	4435.5
12.5°	5642.5	5660.7	5692.6	5747.2	5790.4	5783.6	5668.7	5452.5	5194.3	5077.1	4600.5
15°	5711.9	5735.8	5785.9	5883.7	6005.4	6074.8	6044.1	5848.4	5560.6	5416.1	4801.8
17.5°	5755.1	5774.5	5851.8	5982.7	6163.5	6347.8	6428.6	6264.8	5974.7	5809.7	5032.8
20°	5784.7	5799.5	5896.2	6049.8	6284.1	6577.6	6802.9	6761.9	6430.9	6217.0	5273.9
22.5°	5850.7	5863.2	5955.4	6110.1	6369.4	6748.3	7163.5	7224.9	6912.1	6669.8	5532.2
25°	6035.0	6035.0	6112.3	6220.4	6463.9	6896.2	7468.4	7740.3	7403.5	7121.4	5771.1
27.5°	6386.5	6383.1	6411.5	6449.1	6633.4	7046.3	7740.3	8195.3	7913.2	7604.9	6003.1
30°	6802.9	6825.6	6829.0	6810.8	6897.3	7234.0	7991.7	8675.4	8426.2	8094.1	6240.9
32.5°	7338.7	7353.5	7336.4	7276.1	7263.6	7500.2	8238.5	9178.2	8981.4	8604.8	6458.2
35°	8019.0	7990.5	7937.1	7814.2	7697.0	7856.3	8520.7	9681.0	9604.8	9222.6	6757.4
37.5°	8748.2	8749.3	8683.3	8404.6	8243.1	8311.3	8909.7	10250.9	10359.0	9957.4	7140.7
40°	9332.9	9363.6	9404.6	9038.3	8828.9	8923.4	9404.6	10911.9	11250.9	10828.9	7640.1
42.5°	9741.3	9776.6	9892.6	9662.8	9445.5	9620.7	9987.0	11617.2	12252.0	11834.5	8224.9
45°	10173.6	10192.9	10274.8	10175.9	10037.1	10431.8	10643.4	12347.6	13311.1	12906.1	8879.0
47.5°	10628.6	10649.1	10733.3	10667.3	10594.5	11189.5	11328.3	13035.8	14325.8	14083.5	9577.5
50°	11190.6	11204.3	11283.9	11164.4	11187.2	11760.5	11940.3	13667.2	15389.5	15141.5	10278.3
52.5°	11957.4	11960.8	12071.1	11963.0	11856.1	12179.2	12467.0	14262.1	16223.4	16106.2	10979.0
55°	12558.0	12594.4	12956.2	12933.4	12872.0	12559.1	12907.3	14828.7	16967.4	17023.1	11723.0
57.5°	12174.6	12316.8	13049.5	13565.9	14068.7	13504.5	13502.2	15466.9	17659.0	17923.0	12540.9
60°	10662.8	10856.2	11935.7	13081.3	14654.6	15149.5	14737.7	16246.1	18357.5	18814.8	13565.9
62.5°	7615.1	7933.7	9396.6	11225.9	13851.5	16239.3	17251.8	17482.7	19307.4	19847.8	14898.1
65°	3849.7	4090.8	5317.2	7520.7	11066.6	15527.2	19984.3	20190.2	20958.1	21438.1	16949.2
67.5°	2338.9	2429.9	3028.3	4183.0	6784.7	12095.0	20876.2	24703.1	24152.5	24407.3	19873.9
70°	1723.5	1790.6	2163.7	2778.0	3902.0	7097.5	18139.1	27923.6	27561.9	27533.4	22035.4
72°	1342.4	1391.3	1721.2	2244.5	2853.1	4258.1	13147.3	26734.8	28537.9	28394.6	21837.4
72.5°	1273.0	1316.2	1616.5	2112.5	2696.1	3859.9	11820.8	25932.8	28467.4	28402.6	21581.5
75°	1002.2	1032.9	1196.8	1633.6	2110.3	2189.9	6477.5	20096.9	25253.7	26303.7	19410.9
77.5°	829.3	833.9	920.3	1188.8	1645.0	1548.3	3181.9	13943.6	18083.4	19238.0	13750.2
80°	675.7	681.4	722.4	833.9	1244.5	1145.6	1510.7	8017.8	10124.7	10137.2	6538.9
82.5°	538.1	539.2	584.7	609.8	894.2	819.1	865.7	3764.3	4424.1	4255.8	2350.3
85°	378.8	370.9	571.1	500.5	584.7	525.6	477.8	1490.3	1829.3	1749.6	736.0
87.5°	126.3	130.8	253.7	324.2	341.3	298.1	212.7	571.1	690.5	684.8	233.2
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°	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7
2.5°	4085.1	4048.7	3995.3	3936.1	3889.5	3841.7	3806.4	3788.2	3767.7	3750.7	3771.2
5°	4128.4	4060.1	3946.3	3834.9	3753.0	3680.1	3627.8	3600.5	3575.5	3558.4	3560.7
7.5°	4198.9	4088.5	3897.4	3734.8	3621.0	3542.5	3489.0	3470.8	3454.9	3450.4	3456.0
10°	4274.0	4111.3	3832.6	3616.4	3486.8	3421.9	3398.0	3410.5	3421.9	3432.2	3443.5
12.5°	4359.3	4131.8	3738.2	3477.7	3367.3	3342.3	3366.2	3420.8	3460.6	3484.5	3499.3
15°	4470.8	4150.0	3629.0	3338.9	3264.9	3293.4	3374.1	3468.6	3537.9	3582.3	3589.1
17.5°	4573.2	4148.8	3489.0	3198.9	3181.9	3264.9	3386.6	3519.7	3613.0	3675.6	3688.1
20°	4679.0	4118.1	3326.4	3062.4	3097.7	3234.2	3392.3	3552.7	3665.4	3738.2	3755.2
22.5°	4777.9	4064.7	3147.8	2938.4	3027.2	3193.3	3370.7	3533.4	3646.0	3705.2	3723.4
25°	4845.1	3971.4	2966.9	2833.8	2964.6	3143.2	3300.2	3431.0	3515.2	3544.8	3549.3
27.5°	4879.2	3849.7	2796.2	2742.8	2899.8	3061.3	3169.4	3234.2	3258.1	3255.8	3251.3
30°	4883.7	3689.2	2649.5	2668.8	2824.7	2940.7	2991.9	2979.4	2948.7	2896.3	2900.9
32.5°	4868.9	3508.4	2526.6	2598.3	2729.1	2794.0	2796.2	2735.9	2654.0	2571.0	2548.2
35°	4873.5	3330.9	2418.5	2518.7	2613.1	2641.5	2615.4	2526.6	2415.1	2308.2	2285.4
37.5°	4923.5	3176.2	2325.3	2426.5	2484.5	2491.4	2453.8	2360.5	2278.6	2174.0	2164.9
40°	5043.0	3065.8	2236.5	2323.0	2356.0	2359.4	2305.9	2239.9	2246.8	2191.0	2189.9
42.5°	5258.0	3018.1	2158.0	2214.9	2235.4	2242.2	2201.3	2159.2	2218.3	2181.9	2169.4
45°	5535.6	3029.4	2092.1	2109.1	2146.7	2178.5	2153.5	2102.3	2125.0	1966.9	1914.6
47.5°	5856.4	3102.2	2039.7	2018.1	2083.0	2143.2	2104.6	2027.2	1946.4	1789.5	1759.9
50°	6231.8	3214.9	1991.9	1928.2	2013.6	2095.5	2056.8	1946.4	1824.7	1748.5	1738.3
52.5°	6623.1	3352.5	1944.2	1829.3	1926.0	2059.1	2039.7	1928.2	1778.1	1703.0	1689.3
55°	7066.8	3491.3	1883.9	1714.4	1831.5	2042.0	2031.8	1862.3	1742.8	1700.7	1690.5
57.5°	7618.5	3649.4	1804.2	1594.9	1742.8	1980.6	1948.7	1822.4	1706.4	1674.6	1671.1
60°	8337.5	3882.6	1689.3	1467.5	1634.7	1886.1	1879.3	1764.4	1648.4	1625.6	1621.1
62.5°	9415.9	4268.3	1531.2	1340.1	1514.2	1725.7	1788.3	1685.9	1587.0	1585.8	1588.1
65°	11088.2	4848.5	1359.4	1228.6	1392.4	1590.4	1682.5	1605.2	1524.4	1547.1	1550.6
67.5°	13026.7	5329.7	1191.1	1119.4	1268.4	1461.8	1587.0	1524.4	1441.3	1500.5	1501.6
70°	13671.7	4899.7	1043.2	1011.3	1139.9	1337.8	1483.4	1435.7	1351.5	1410.6	1404.9
72°	12723.0	3955.4	947.6	929.4	1043.2	1235.4	1391.3	1352.6	1269.6	1309.4	1294.6
72.5°	12423.8	3771.2	923.7	908.9	1017.0	1209.3	1367.4	1332.1	1249.1	1283.2	1269.6
75°	11082.5	3275.2	794.0	797.5	887.3	1081.9	1233.2	1221.8	1136.5	1139.9	1135.3
77.5°	8038.3	2401.5	668.9	691.7	755.4	951.0	1097.8	1091.0	997.7	980.6	977.2
80°	3730.2	1225.2	544.9	555.2	621.1	795.2	936.2	927.1	852.1	830.5	817.9
82.5°	1277.5	582.5	409.5	416.4	481.2	640.5	812.2	806.6	744.0	701.9	675.7
85°	456.2	290.1	286.7	279.9	343.6	504.0	707.6	676.9	584.7	498.3	496.0
87.5°	147.9	124.0	147.9	146.8	200.2	341.3	514.2	438.0	424.3	352.7	345.8
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)