

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: P324280

Luminaire Tested: **GLEON-SA6B-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18626 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

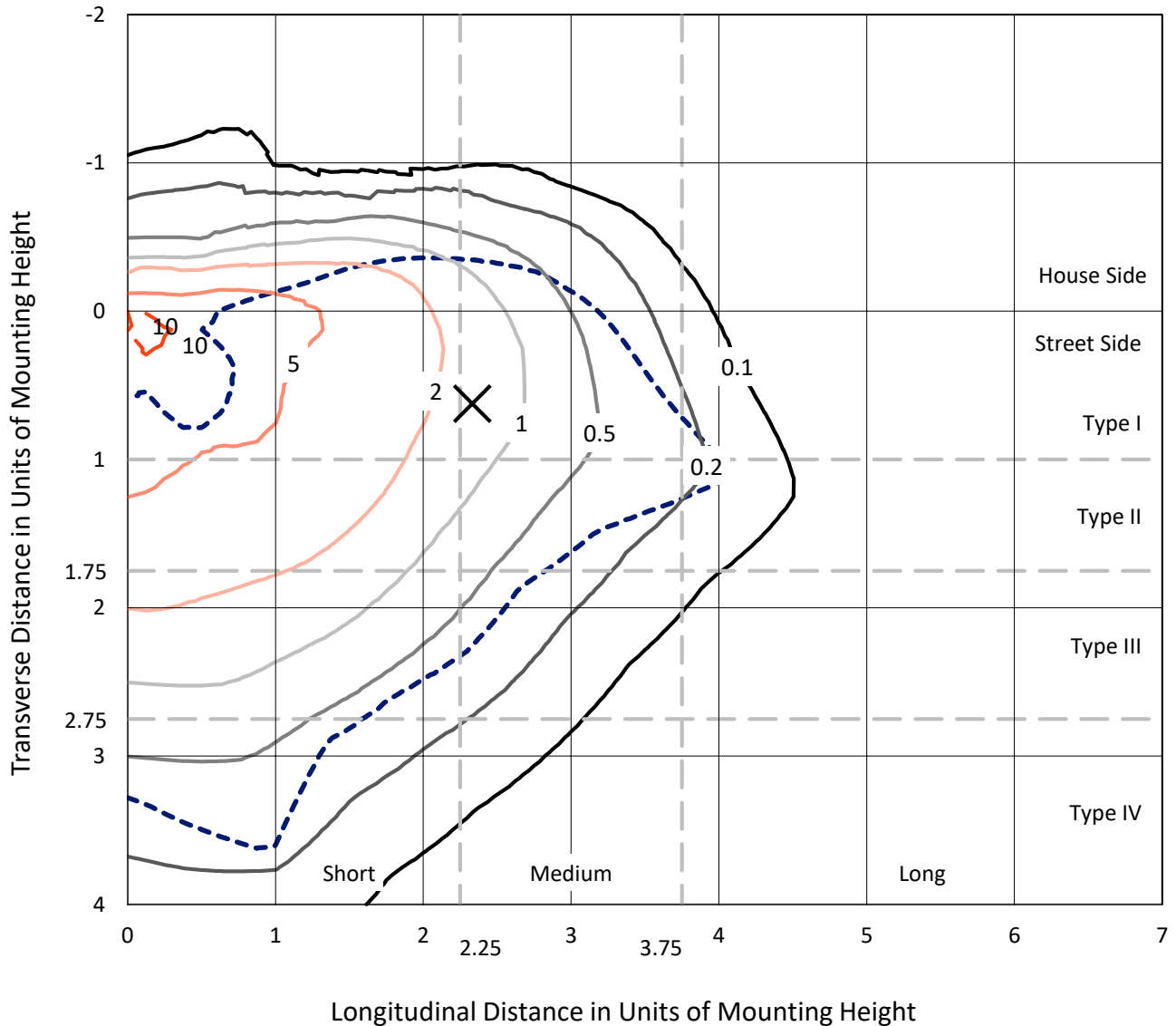
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

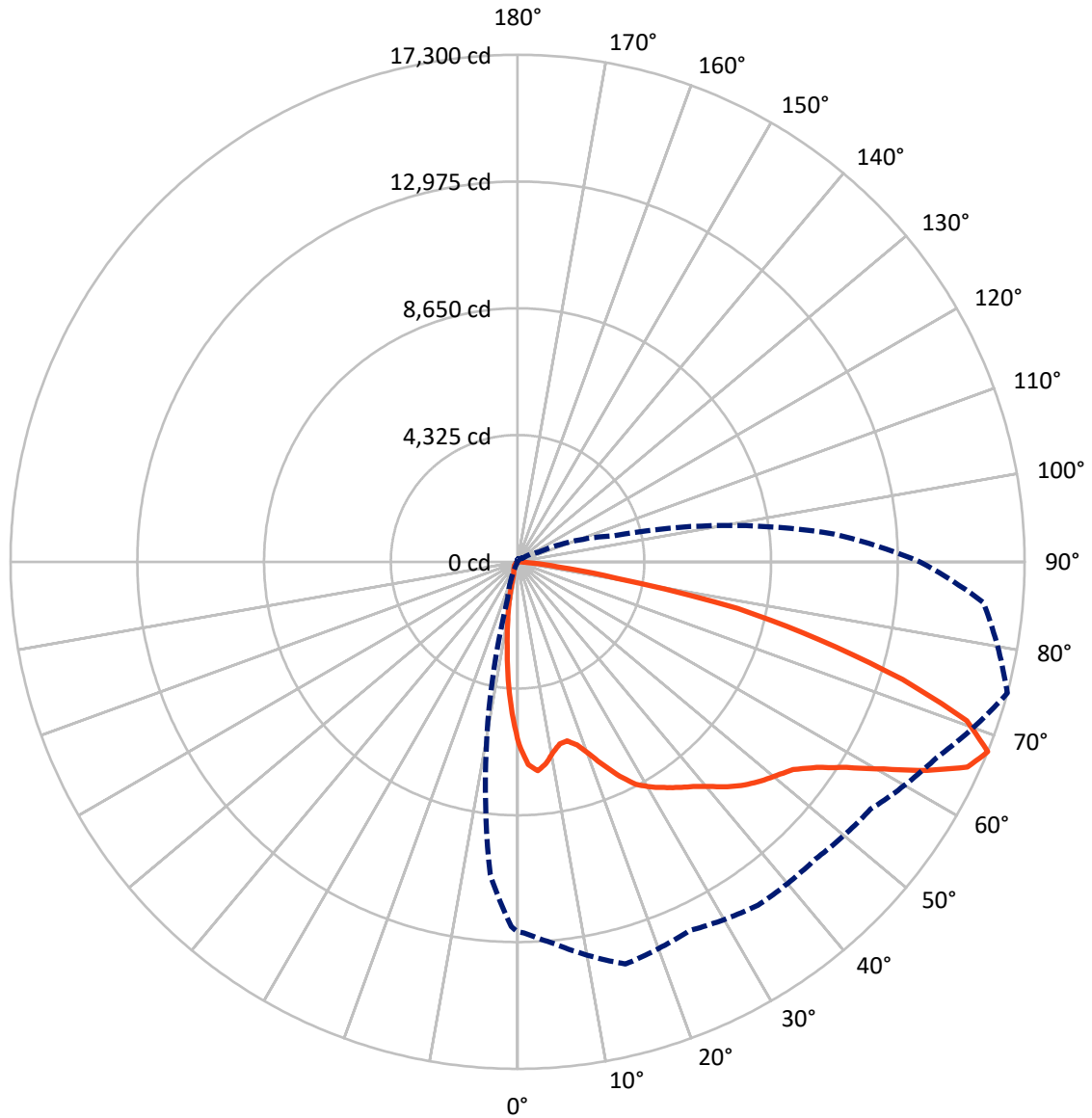
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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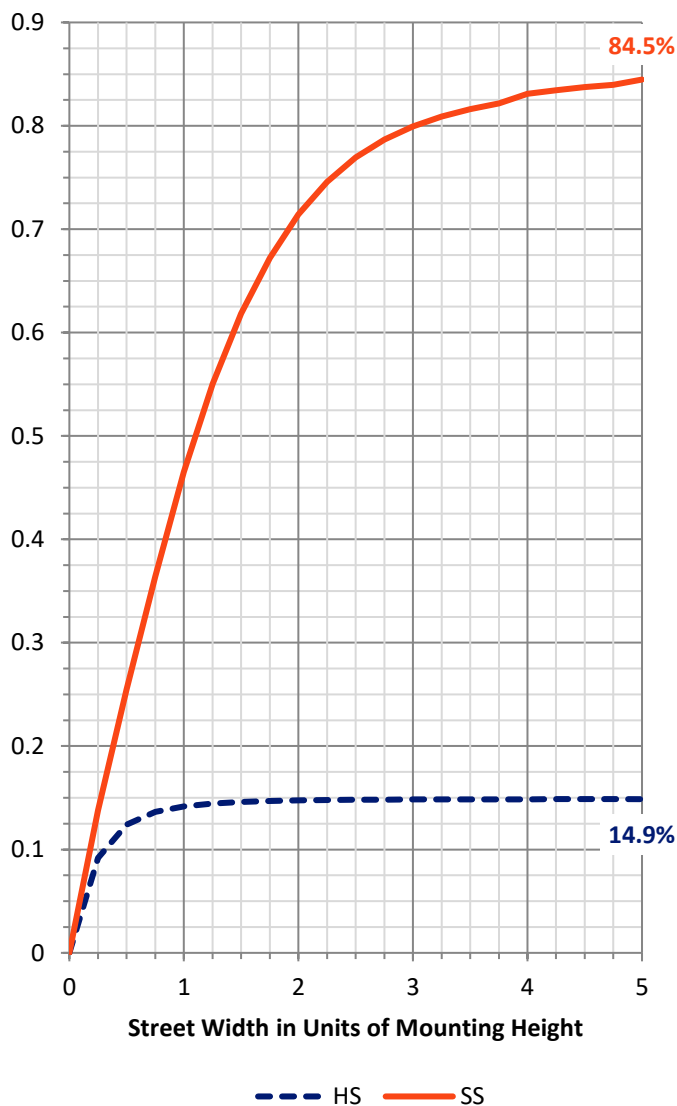
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2795.0	0.0	2795.0
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	15831.0	0.0	15831.0
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	18626.0	0.0	18626.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.0	2.5
10°-20°	933.3	5.0
20°-30°	1320.4	7.1
30°-40°	1941.3	10.4
40°-50°	2790.3	15.0
50°-60°	3928.0	21.1
60°-70°	4587.5	24.6
70°-80°	2340.4	12.6
80°-90°	310.9	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°	18626.0	100.0
0°-180°	18626.0	100.0

**Coefficient of Utilization**

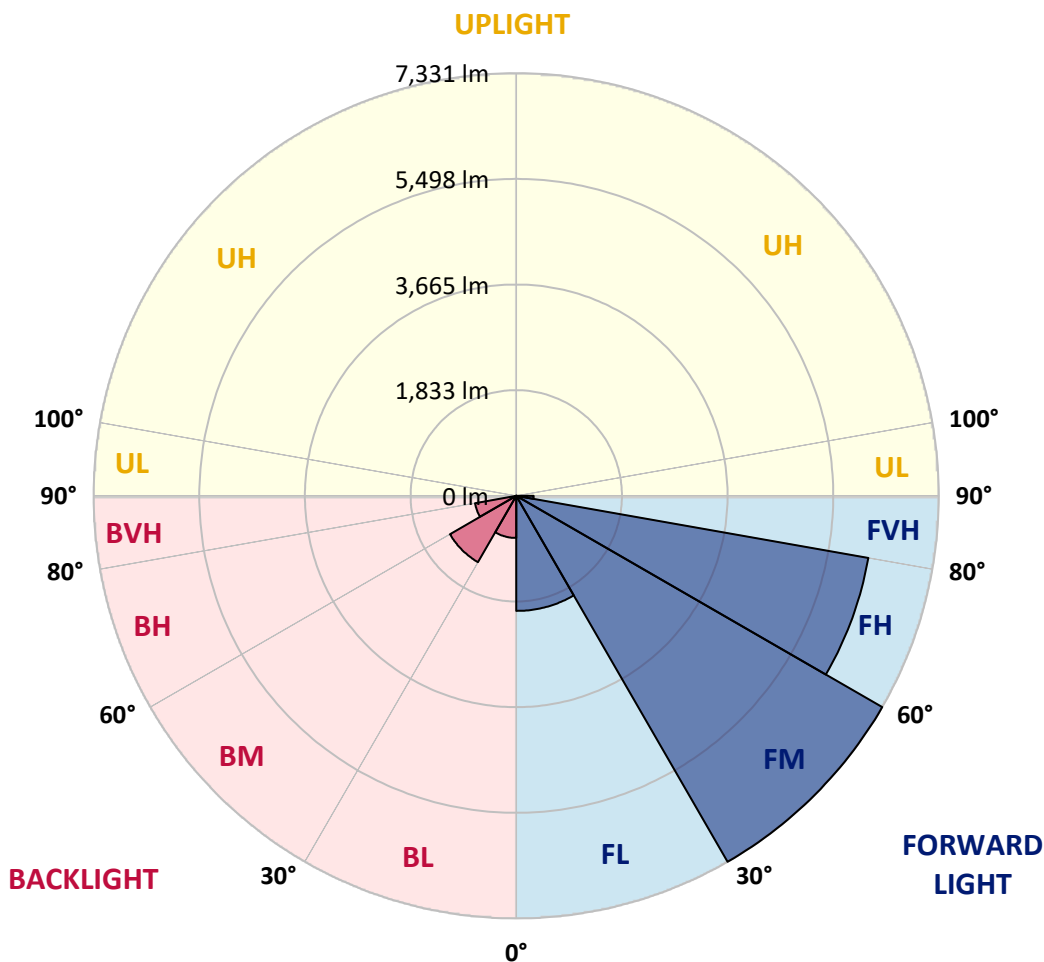


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 CATALOG NUMBER: GLEON-SA6B-827-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.7	10.7			
FM (30°-60°)	7330.9	39.4			
FH (60°-80°)	6201.9	33.3			G3/7500
FVH (80°-90°)	301.5	1.6			G3/500
BL (0°-30°)	730.9	3.9	B2/1000		
BM (30°-60°)	1328.7	7.1	B2/2500		
BH (60°-80°)	726.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7
2.5°	6773.7	6784.3	6839.0	6966.0	7104.6	7115.2	7208.7	7112.5	7079.9	6924.6	6764.0
5°	6824.9	6865.5	7053.4	7426.6	7750.4	7854.6	7928.7	7739.9	7541.3	7161.9	6756.9
7.5°	6412.8	6480.8	6776.3	7476.9	8055.7	8311.6	8360.1	8064.6	7578.4	6953.7	6344.9
10°	5885.2	5962.8	6319.3	7180.5	7975.4	8414.0	8481.0	8093.7	7394.9	6616.6	5899.3
12.5°	5458.1	5549.0	5913.4	6846.9	7699.3	8184.5	8316.9	7995.7	7236.0	6377.5	5594.9
15°	5261.4	5365.5	5748.4	6631.6	7393.1	7775.1	7884.6	7746.0	7147.8	6339.6	5524.3
17.5°	5374.3	5487.2	5882.5	6650.2	7105.5	7268.7	7356.9	7413.4	7147.8	6568.1	5730.8
20°	5837.5	5959.3	6377.5	6838.1	6867.2	6806.3	6900.8	7099.3	7230.7	7002.2	6226.6
22.5°	6478.1	6621.1	7093.1	7160.2	6750.8	6520.5	6532.8	6844.3	7381.6	7552.8	6914.9
25°	7259.0	7433.7	7913.7	7640.1	6799.3	6350.2	6345.8	6634.3	7529.0	8104.3	7681.6
27.5°	8034.6	8226.9	8648.7	8226.0	6999.6	6319.3	6310.5	6570.8	7672.8	8594.8	8519.0
30°	8684.8	8871.9	9235.4	8650.4	7215.7	6391.6	6349.3	6638.7	7758.4	8913.4	9129.5
32.5°	9214.2	9364.2	9658.1	8942.5	7446.9	6531.9	6440.2	6820.5	7904.0	9182.5	9690.7
35°	9796.6	9954.5	10071.9	9220.4	7706.3	6734.0	6602.5	7109.0	8128.1	9456.0	10305.7
37.5°	10461.0	10618.0	10603.9	9474.5	8035.4	7068.4	6984.6	7566.0	8476.6	9726.9	10992.1
40°	11111.3	11271.8	11157.1	9752.5	8421.9	7619.9	7558.1	8252.5	8943.4	10073.6	11796.8
42.5°	11720.1	11893.9	11648.6	10015.4	8882.5	8315.1	8421.0	9136.6	9527.5	10500.7	12490.4
45°	12210.6	12388.0	12060.7	10271.3	9367.8	9158.6	9477.2	10116.0	10229.8	10861.6	12958.9
47.5°	12567.1	12734.8	12346.5	10527.2	9988.9	10190.1	10745.1	11143.0	10864.2	11174.8	13291.5
50°	12794.8	12925.3	12430.4	10847.4	10804.2	11393.6	12065.9	12260.1	11461.5	11457.1	13695.6
52.5°	12939.5	12998.6	12492.1	11181.8	11654.8	12703.9	13359.5	13420.3	12076.5	11767.7	14240.0
55°	13438.0	13485.6	12929.8	11586.8	12358.0	13851.8	14529.4	14473.0	12772.7	12375.6	14882.4
57.5°	14288.6	14338.8	13834.1	12169.2	12927.1	14561.2	15377.4	15478.8	13588.9	13229.7	15570.6
60°	14715.6	14809.1	14629.1	12906.8	13478.6	15014.7	15955.3	16279.1	14608.8	14355.6	16237.6
62.5°	14328.3	14464.1	14725.3	13724.7	14026.5	15264.4	16135.3	16565.9	15653.5	15667.6	16648.8
65°	13555.3	13663.9	14106.8	14173.0	14344.1	15233.5	15690.6	16165.3	16293.2	16872.9	16626.7
67.5°	12621.8	12662.4	13038.3	14208.3	13883.6	14305.3	14354.7	14705.9	15787.6	17300.0	15958.8
70°	11278.0	11300.1	11628.3	13026.8	11930.9	12023.6	11950.4	12021.8	13573.0	16259.7	14272.7
72.5°	9076.6	9132.2	9598.9	10818.3	8691.9	8424.5	8999.8	8968.1	10453.0	13737.1	10600.4
75°	6682.8	6779.0	7484.0	8714.0	6100.5	5518.1	5938.1	6050.2	7431.0	10626.0	6629.0
77.5°	4679.0	4750.5	5433.4	6405.8	4415.2	3945.8	3794.0	3927.3	4904.9	7686.9	3339.6
80°	2695.5	2722.0	3157.9	3698.8	2975.2	3404.1	3083.8	3175.5	2939.1	3419.9	1436.4
82.5°	1763.8	1768.2	1938.5	2201.4	1852.9	2152.9	1593.5	2037.3	1807.9	1373.8	467.6
85°	952.9	958.2	1124.1	1562.6	1049.1	592.9	348.5	715.6	1117.9	315.0	127.9
87.5°	105.0	96.2	338.8	568.2	291.2	53.8	18.5	80.3	179.1	20.3	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



REPORT NUMBER: P324280

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7
2.5°	6681.9	6608.7	6426.1	6232.8	6077.5	5931.9	5785.5	5606.4	5467.8	5439.6	5393.7
5°	6539.0	6306.9	5924.0	5539.3	5229.6	4838.7	4590.8	4397.6	4208.7	4197.3	4159.3
7.5°	6039.6	5734.3	5195.2	4663.1	4227.3	3854.9	3479.1	3227.6	3029.9	2960.2	2918.8
10°	5559.6	5216.4	4543.1	3936.1	3547.0	3217.9	2953.2	2690.2	2452.0	2287.9	2213.8
12.5°	5224.3	4844.9	4102.9	3579.6	3300.8	2988.5	2665.5	2337.3	2062.9	1865.3	1744.4
15°	5094.6	4689.6	3955.5	3438.5	3094.4	2699.1	2286.1	1911.1	1606.7	1427.6	1319.1
17.5°	5249.0	4777.9	3944.0	3266.4	2785.5	2294.1	1837.9	1395.0	1108.2	972.3	902.6
20°	5640.8	5058.4	3939.6	3055.5	2418.5	1814.1	1245.0	917.6	743.8	667.9	635.3
22.5°	6194.9	5416.7	3974.9	2847.3	2036.4	1296.2	859.4	674.1	585.0	544.4	525.9
25°	6907.8	5919.6	4074.6	2658.5	1677.3	967.0	669.7	564.7	502.0	470.3	457.1
27.5°	7667.5	6498.4	4229.9	2494.4	1385.3	771.2	573.5	483.5	438.5	416.5	404.1
30°	8294.0	7169.0	4387.0	2311.7	1173.5	672.3	525.0	441.2	389.1	375.0	363.5
32.5°	8841.9	7676.3	4498.1	2146.7	1035.0	597.3	474.7	394.4	359.1	331.8	319.4
35°	9409.2	8099.0	4494.6	2031.1	939.7	540.9	432.3	352.9	310.6	278.8	269.1
37.5°	10023.3	8576.3	4417.9	1932.3	898.2	495.9	408.5	330.9	288.5	256.8	244.4
40°	10742.4	9077.5	4339.3	1839.7	886.7	459.7	391.8	313.2	268.2	237.3	225.0
42.5°	11443.0	9529.2	4270.5	1770.8	837.3	458.8	376.8	300.0	252.3	222.3	208.2
45°	12003.3	9950.1	4257.3	1729.4	785.3	474.7	368.8	291.2	240.0	210.0	196.8
47.5°	12469.2	10407.2	4342.0	1700.3	735.9	433.2	388.2	285.0	228.5	199.4	184.4
50°	13023.3	10968.3	4541.4	1652.6	683.8	390.0	444.7	286.8	218.8	188.8	172.9
52.5°	13796.2	11744.8	4834.3	1572.3	612.3	350.3	437.6	288.5	208.2	177.3	161.5
55°	14662.7	12714.5	5149.3	1439.1	512.6	298.2	375.0	276.2	187.9	165.0	150.0
57.5°	15573.2	13594.2	5336.4	1280.3	407.6	257.6	300.0	251.5	165.9	148.2	138.5
60°	15716.2	13928.6	5250.8	1085.3	323.8	224.1	222.3	255.9	148.2	130.6	123.5
62.5°	15360.6	13508.6	4837.0	911.5	270.9	196.8	182.6	223.2	134.1	116.5	109.4
65°	14676.8	12373.0	4166.4	821.5	251.5	168.5	151.8	157.1	117.4	101.5	95.3
67.5°	13725.6	10857.1	3420.8	770.3	248.8	144.7	129.7	119.1	101.5	88.2	82.9
70°	11781.0	9044.8	2729.1	742.0	241.8	121.8	109.4	97.1	84.7	75.0	70.6
72.5°	8670.7	6409.3	2122.9	711.2	243.5	97.1	95.3	80.3	67.9	58.2	56.5
75°	5009.9	3661.7	1392.3	576.2	232.1	75.0	79.4	56.5	47.6	40.6	40.6
77.5°	2669.9	2233.2	530.3	240.0	84.7	47.6	45.0	33.5	30.0	24.7	23.8
80°	1163.8	982.9	159.7	67.1	46.8	25.6	16.8	15.0	13.2	10.6	9.7
82.5°	412.1	355.6	52.1	32.6	20.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	93.5	67.1	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7
2.5°	5300.2	5280.8	5166.1	5170.5	5190.8	5219.9	5151.1	5182.8	5268.4	5350.5	5381.4
5°	4098.5	4102.9	4033.2	4076.4	4115.2	4141.7	4030.5	4032.3	4100.2	4192.9	4241.4
7.5°	2887.9	2880.8	2884.4	2987.6	3060.8	3007.9	3049.4	2905.5	2914.4	2980.5	2931.1
10°	2146.7	2049.7	1995.0	2072.6	2152.9	2123.8	2052.3	2005.6	2038.2	2111.4	2106.1
12.5°	1687.0	1547.6	1465.6	1410.0	1476.1	1421.4	1419.7	1379.1	1335.0	1342.9	1460.3
15°	1268.8	1167.3	1070.3	981.2	979.4	960.9	866.5	760.6	751.8	757.0	817.9
17.5°	872.6	838.2	798.5	721.8	701.5	623.8	532.0	489.7	468.5	478.2	498.5
20°	613.2	600.0	604.4	562.9	533.8	459.7	405.9	389.1	385.6	395.3	405.0
22.5°	508.2	484.4	481.8	463.2	434.1	380.3	351.2	341.5	337.1	345.9	352.9
25°	444.7	420.9	411.2	399.7	368.8	331.8	314.1	305.3	300.9	306.2	310.6
27.5°	391.8	369.7	360.9	352.9	322.9	296.5	282.3	274.4	270.9	272.6	277.1
30°	352.1	332.6	321.2	311.5	285.9	267.3	255.0	247.1	243.5	243.5	247.9
32.5°	310.6	300.0	289.4	277.1	253.2	240.9	228.5	219.7	216.2	217.1	220.6
35°	258.5	255.0	257.6	246.2	225.9	215.3	202.9	193.2	190.6	191.5	195.0
37.5°	229.4	213.5	223.2	217.1	205.6	191.5	175.6	166.8	162.3	165.0	166.8
40°	210.9	191.5	184.4	190.6	188.8	165.9	151.8	142.9	139.4	140.3	142.1
42.5°	195.0	172.1	156.2	155.3	165.9	144.7	129.7	121.8	117.4	117.4	119.1
45°	180.0	155.3	135.9	120.9	139.4	122.6	108.5	101.5	96.2	96.2	97.1
47.5°	168.5	141.2	118.2	98.8	105.0	100.6	89.1	82.1	76.8	76.8	77.6
50°	157.9	127.1	102.4	82.9	78.5	82.9	72.4	64.4	60.9	60.0	61.8
52.5°	146.5	112.9	87.4	70.6	61.8	62.6	56.5	51.2	46.8	46.8	48.5
55°	135.0	101.5	75.9	60.0	51.2	46.8	45.0	41.5	37.9	37.9	39.7
57.5°	123.5	89.1	64.4	49.4	40.6	37.1	37.1	34.4	31.8	31.8	33.5
60°	112.9	76.8	52.9	40.6	31.8	30.9	31.8	29.1	27.4	27.4	29.1
62.5°	100.6	65.3	43.2	33.5	25.6	24.7	27.4	25.6	23.8	23.8	25.6
65°	85.6	55.6	34.4	25.6	19.4	19.4	22.9	21.2	19.4	19.4	21.2
67.5°	72.4	46.8	26.5	18.5	14.1	15.0	19.4	17.6	16.8	16.8	18.5
70°	60.0	36.2	18.5	11.5	7.9	11.5	15.0	15.0	15.0	15.0	16.8
72.5°	45.0	24.7	10.6	4.4	3.5	7.9	12.4	14.1	13.2	13.2	15.9
75°	29.1	14.1	3.5	0.0	0.0	4.4	9.7	11.5	11.5	10.6	13.2
77.5°	16.8	4.4	0.0	0.0	0.0	0.0	6.2	5.3	4.4	3.5	6.2
80°	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P324280

CATALOG NUMBER: GLEON-SA6B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7
2.5°	5505.8	5609.9	5756.4	5911.7	6150.8	6340.5	6526.6	6686.3	6748.1	6773.7
5°	4357.9	4510.5	4724.9	5000.2	5431.7	5819.9	6213.4	6609.6	6781.6	6824.9
7.5°	3127.0	3322.0	3594.6	3939.6	4445.2	4948.1	5497.8	6079.3	6345.8	6412.8
10°	2314.4	2552.6	2864.9	3228.5	3711.1	4228.2	4827.3	5491.7	5796.1	5885.2
12.5°	1642.0	1964.1	2382.3	2824.4	3242.6	3704.0	4310.2	5042.6	5362.0	5458.1
15°	964.4	1275.9	1770.8	2362.9	2898.5	3366.1	3982.0	4812.3	5164.3	5261.4
17.5°	553.2	708.5	1082.6	1742.6	2469.7	3117.3	3878.7	4869.6	5284.3	5374.3
20°	422.6	472.0	623.8	1122.3	1968.5	2872.9	3878.7	5194.3	5705.2	5837.5
22.5°	369.7	405.9	467.6	669.7	1448.8	2610.8	3923.7	5663.7	6331.6	6478.1
25°	328.2	360.9	413.8	503.8	988.2	2299.4	4030.5	6239.9	7069.3	7259.0
27.5°	293.8	324.7	372.3	441.2	675.9	1923.5	4174.3	6915.8	7882.8	8034.6
30°	262.9	292.1	335.3	383.8	521.5	1497.3	4297.0	7552.8	8521.6	8684.8
32.5°	233.8	260.3	299.1	335.3	427.1	1107.3	4310.2	8057.5	9051.9	9214.2
35°	206.5	230.3	265.6	293.8	353.8	874.4	4104.6	8495.1	9582.2	9796.6
37.5°	180.0	202.9	233.8	255.0	311.5	712.9	3790.5	8983.1	10262.5	10461.0
40°	155.3	175.6	207.3	221.5	294.7	547.9	3449.1	9494.8	10929.5	11111.3
42.5°	132.4	151.8	182.6	210.0	258.5	409.4	3080.2	9974.8	11529.5	11720.1
45°	110.3	130.6	161.5	222.3	214.4	306.2	2685.8	10293.3	12003.3	12210.6
47.5°	89.1	112.1	154.4	211.8	171.2	225.0	2373.5	10595.1	12362.4	12567.1
50°	71.5	94.4	173.8	188.8	140.3	172.1	2242.9	10865.1	12598.0	12794.8
52.5°	58.2	79.4	164.1	144.7	117.4	142.1	2313.5	11302.7	12815.9	12939.5
55°	48.5	62.6	98.8	100.6	99.7	120.9	2400.8	11930.9	13379.7	13438.0
57.5°	42.4	50.3	68.8	77.6	83.8	107.6	2402.6	12832.7	14252.4	14288.6
60°	36.2	44.1	57.4	62.6	72.4	96.2	2315.2	13147.7	14595.6	14715.6
62.5°	31.8	38.8	47.6	52.1	60.9	86.5	2110.5	12691.5	14124.4	14328.3
65°	28.2	35.3	39.7	44.1	53.8	77.6	1773.5	11779.2	13342.7	13555.3
67.5°	24.7	30.9	35.3	39.7	48.5	68.8	1305.9	10719.5	12445.4	12621.8
70°	22.1	27.4	31.8	35.3	42.4	58.2	792.3	9096.0	11204.8	11278.0
72.5°	21.2	24.7	29.1	31.8	37.1	51.2	401.5	6684.6	8957.5	9076.6
75°	18.5	22.1	26.5	28.2	32.6	44.1	163.2	4390.5	6491.3	6682.8
77.5°	15.0	20.3	23.8	25.6	28.2	36.2	82.9	2805.8	4555.5	4679.0
80°	5.3	15.0	20.3	21.2	23.8	26.5	54.7	1536.1	2642.6	2695.5
82.5°	0.0	9.7	15.9	15.0	16.8	20.3	35.3	730.6	1744.4	1763.8
85°	0.0	4.4	12.4	9.7	7.1	14.1	12.4	159.7	915.0	952.9
87.5°	0.0	0.0	0.9	4.4	3.5	5.3	1.8	0.9	82.9	105.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)