

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: P322361

Luminaire Tested: **GLEON-SA7B-827-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21654 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

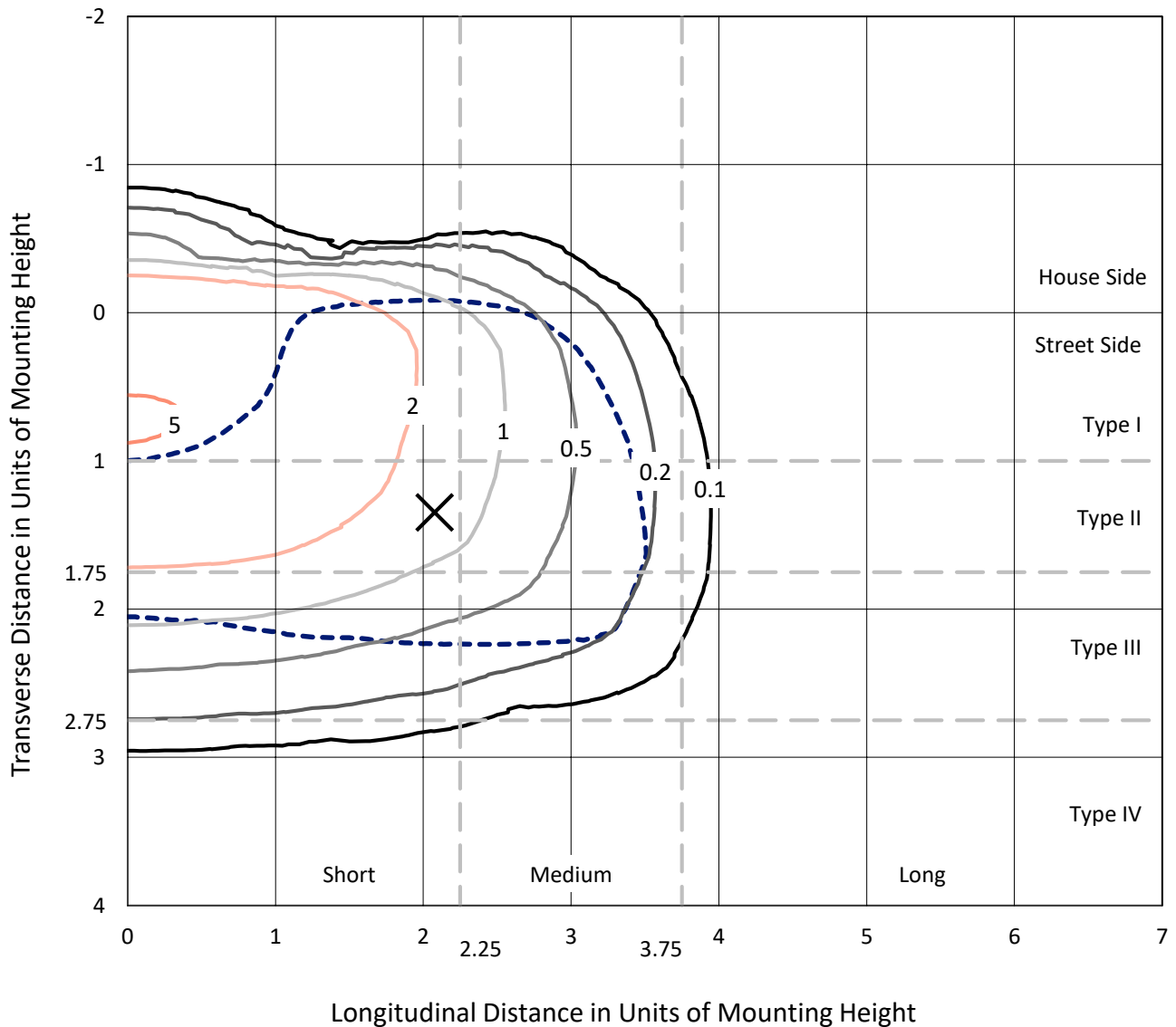
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

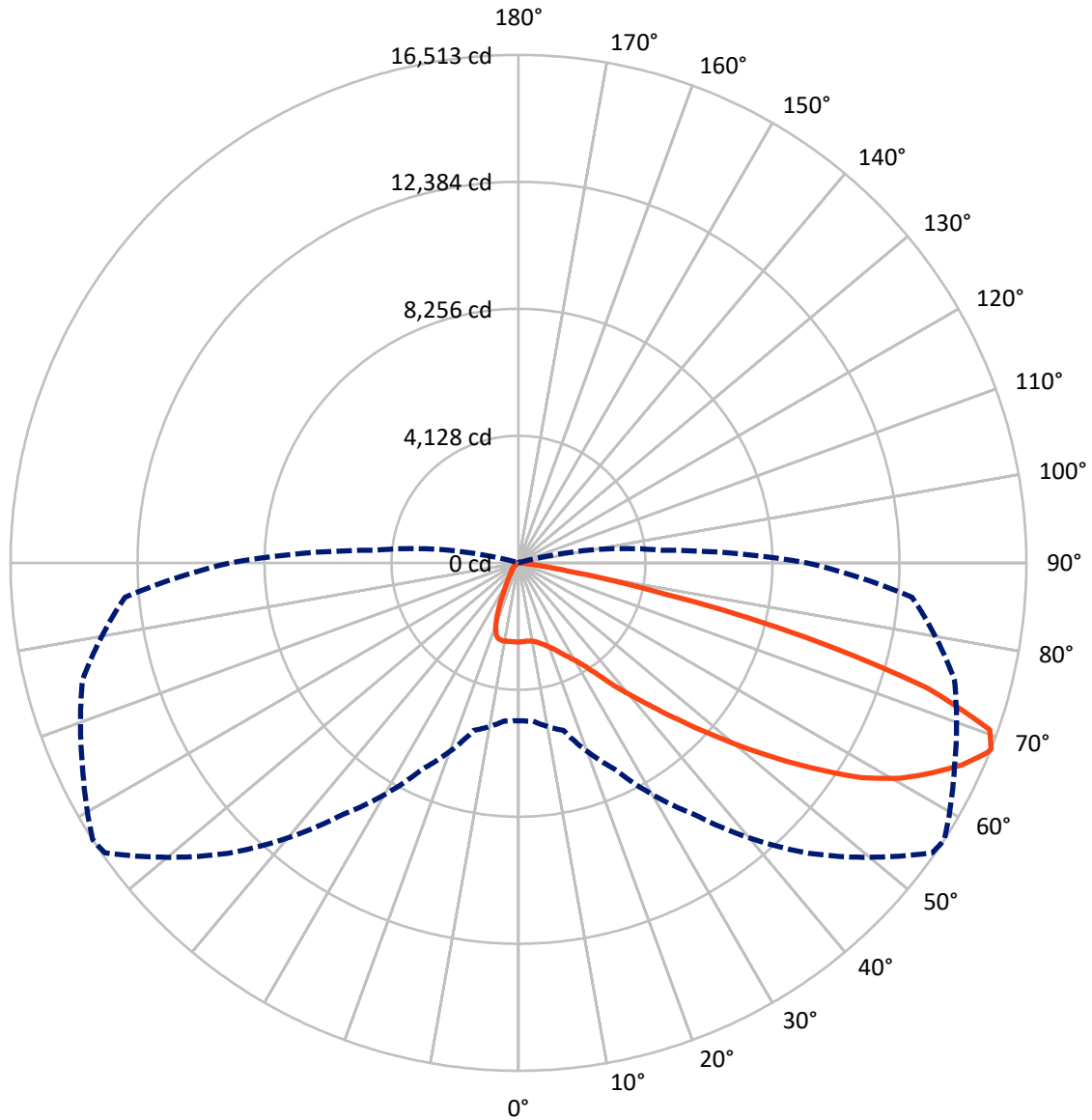
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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 CATALOG NUMBER: GLEON-SA7B-827-U-T3-HSS

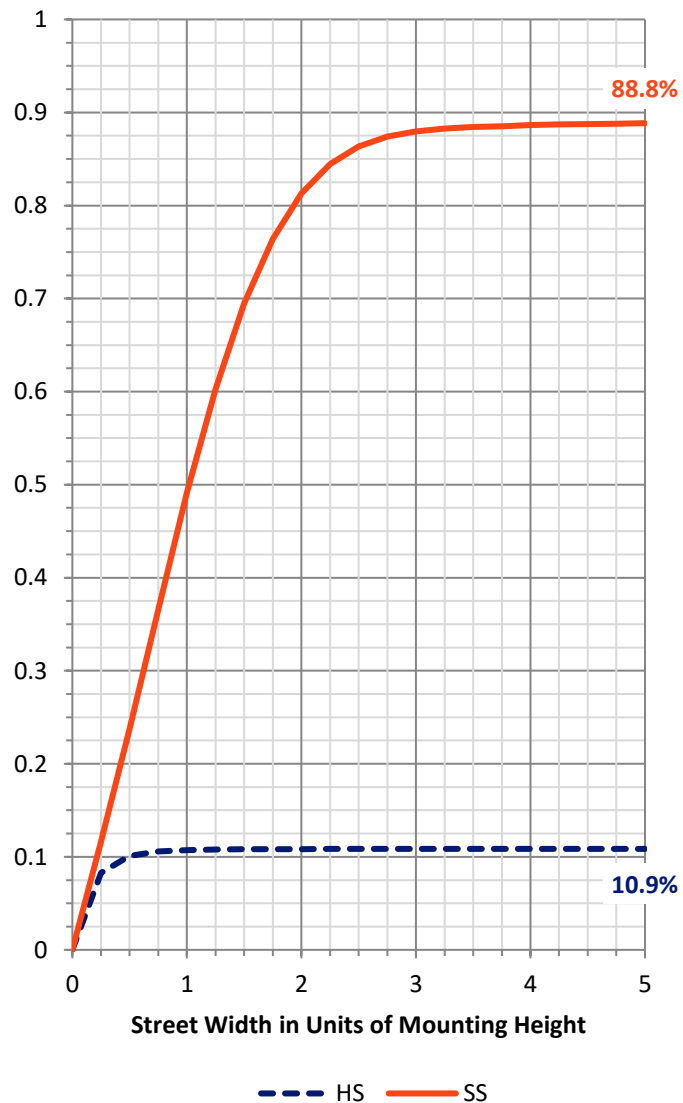
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2374.5	0.0	2374.5
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	19279.5	0.0	19279.5
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	21654.0	0.0	21654.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	1.1
10°-20°	667.3	3.1
20°-30°	1151.1	5.3
30°-40°	1986.8	9.2
40°-50°	3398.4	15.7
50°-60°	5437.1	25.1
60°-70°	6282.0	29.0
70°-80°	2400.4	11.1
80°-90°	90.0	0.4
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°	21654.0	100.0
0°-180°	21654.0	100.0

**Coefficient of Utilization**



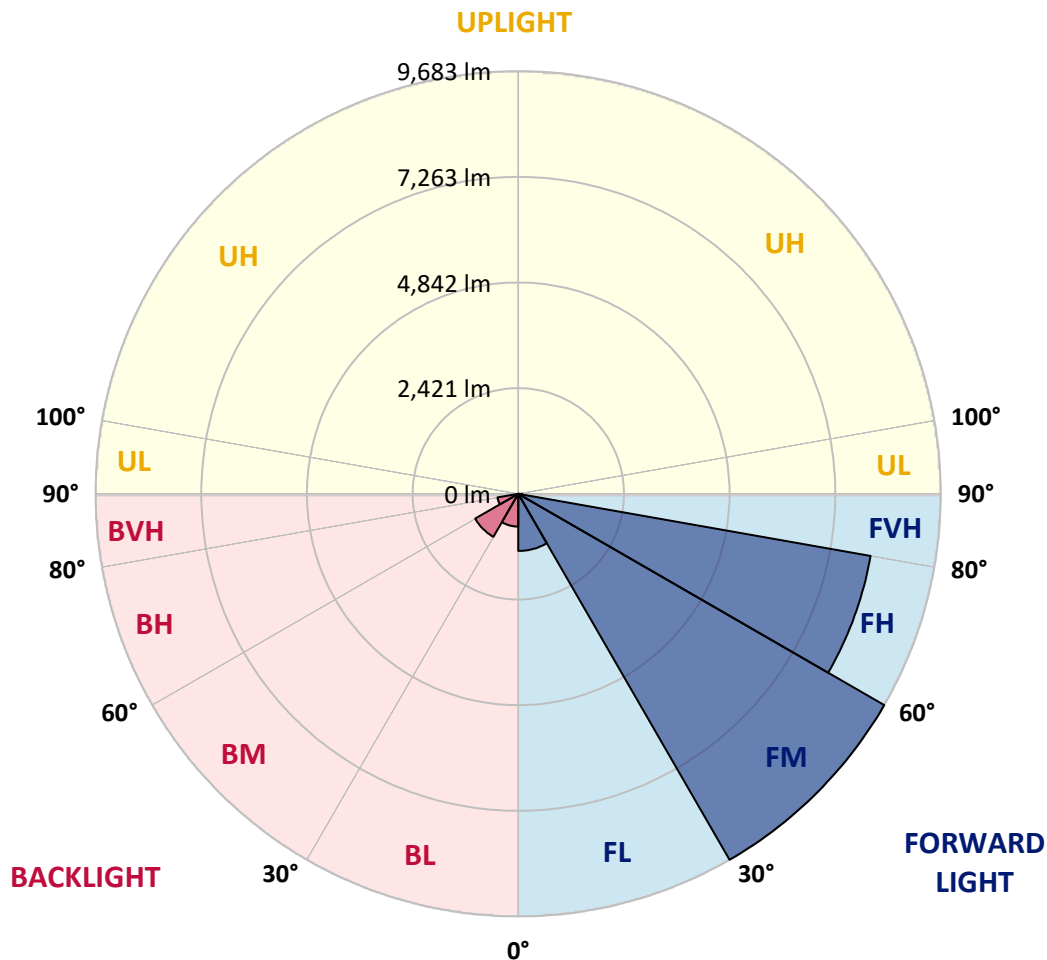
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 CATALOG NUMBER: GLEON-SA7B-827-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1308.8	6.0			
FM (30°-60°)	9683.5	44.7			
FH (60°-80°)	8198.9	37.9			G4/12000
FVH (80°-90°)	88.3	0.4			G1/100
BL (0°-30°)	750.4	3.5	B2/1000		
BM (30°-60°)	1138.8	5.3	B2/2500		
BH (60°-80°)	483.6	2.2	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2512.7	2523.9	2532.1	2537.2	2543.4	2556.7	2560.8	2566.9	2570.0	2570.0	2577.2
5°	2413.3	2425.6	2443.0	2457.4	2486.0	2522.9	2549.5	2559.8	2578.2	2594.6	2603.8
7.5°	2321.2	2335.5	2356.0	2389.8	2438.9	2498.3	2553.6	2567.9	2603.8	2638.6	2656.0
10°	2261.8	2273.1	2299.7	2347.8	2412.3	2495.2	2573.1	2590.5	2651.9	2710.3	2743.0
12.5°	2241.3	2251.6	2279.2	2333.5	2413.3	2510.6	2618.1	2643.7	2733.8	2818.8	2864.9
15°	2271.0	2273.1	2302.8	2354.0	2432.8	2548.5	2692.9	2723.6	2837.2	2947.8	3005.2
17.5°	2385.7	2376.5	2391.8	2414.4	2476.8	2598.7	2771.7	2817.8	2969.3	3099.4	3153.6
20°	2672.4	2672.4	2637.6	2576.1	2577.2	2676.5	2878.2	2930.4	3115.7	3266.2	3315.4
22.5°	3162.8	3153.6	3084.0	2933.5	2795.3	2810.6	3008.2	3075.8	3291.8	3452.6	3469.0
25°	3752.6	3741.3	3633.8	3421.9	3182.3	3027.7	3184.3	3262.2	3501.7	3644.1	3610.3
27.5°	4377.2	4368.0	4261.5	3998.3	3657.4	3373.8	3394.2	3468.0	3715.7	3856.0	3748.5
30°	4982.3	4985.4	4879.9	4609.6	4223.6	3815.1	3660.5	3703.5	3923.6	4065.9	3912.3
32.5°	5557.7	5561.8	5470.7	5168.7	4808.2	4328.0	4029.1	4017.8	4165.2	4305.5	4129.4
35°	6070.7	6081.0	6018.5	5784.0	5402.1	4899.4	4507.2	4480.6	4508.2	4666.9	4462.2
37.5°	6565.3	6571.4	6524.3	6326.7	6007.2	5527.0	5111.3	5073.4	5014.0	5135.9	4901.4
40°	7106.9	7091.5	7037.3	6858.1	6583.7	6220.2	5760.5	5694.9	5591.5	5700.1	5478.9
42.5°	7610.7	7593.3	7602.5	7399.7	7168.3	6932.8	6517.1	6404.5	6344.1	6469.0	6187.4
45°	8240.4	8231.1	8261.9	8085.8	7898.4	7727.4	7384.4	7261.5	7234.9	7381.3	7044.4
47.5°	8861.9	8884.4	8979.6	8904.9	8829.1	8678.6	8302.8	8247.5	8263.9	8441.0	7948.6
50°	9380.0	9406.6	9667.7	9753.7	9863.2	9775.2	9398.4	9364.6	9429.1	9588.8	8921.3
52.5°	9754.7	9809.0	10133.6	10529.8	10929.1	10988.5	10612.7	10582.0	10669.1	10693.6	9672.8
55°	10014.8	10062.9	10430.5	11155.4	11968.4	12224.4	11990.9	11872.1	11855.8	11613.1	10463.3
57.5°	10060.9	10055.7	10584.1	11559.9	12783.4	13443.8	13296.4	13179.7	12843.8	12462.9	11369.4
60°	9800.8	9830.5	10443.8	11700.1	13295.4	14366.4	14377.6	14226.1	13702.9	13289.2	12247.9
62.5°	9000.1	9120.9	9740.4	11332.5	13289.2	14738.0	15170.1	15054.4	14428.8	13966.0	13138.7
65°	7701.8	7744.8	8335.6	10073.1	12391.3	14582.4	15883.8	15840.8	15083.1	14623.4	13596.4
67.5°	5624.3	5531.1	6151.6	7932.2	10490.9	13675.2	16395.7	16450.0	15587.9	14758.5	13109.0
68°	5132.8	5160.5	5643.7	7402.8	9993.3	13354.8	16429.5	16512.5	15638.1	14670.5	12842.8
70°	3059.4	3112.7	3543.7	5097.0	7602.5	11541.4	16065.0	16254.4	15339.1	13762.3	11108.3
72.5°	781.2	844.7	1252.2	2281.3	4342.4	8131.8	13561.6	13882.1	13317.9	11164.6	7499.1
75°	321.5	337.9	447.4	751.5	1617.8	3663.5	8938.7	9624.7	9232.5	6684.0	3389.1
77.5°	222.2	233.4	287.7	416.7	700.3	1242.0	4382.3	4877.9	4394.6	2281.3	739.3
80°	159.7	168.9	205.8	277.5	402.4	443.3	1428.3	1651.6	1311.6	500.7	183.3
82.5°	95.2	102.4	153.6	197.6	244.7	211.9	355.3	403.4	379.9	248.8	81.9
85°	47.1	55.3	103.4	141.3	132.1	89.1	108.5	120.8	149.5	151.5	44.0
87.5°	3.1	6.1	60.4	85.0	36.9	20.5	31.7	38.9	53.2	74.7	18.4
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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CATALOG NUMBER: GLEON-SA7B-827-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2580.2	2581.3	2574.1	2571.0	2573.1	2560.8	2555.7	2557.7	2557.7	2560.8	2555.7
5°	2605.8	2605.8	2593.5	2577.2	2567.9	2544.4	2529.0	2524.9	2521.9	2519.8	2515.7
7.5°	2661.1	2655.0	2633.5	2597.6	2566.9	2515.7	2476.8	2456.3	2446.1	2442.0	2438.9
10°	2750.2	2738.9	2703.1	2636.5	2565.9	2474.8	2389.8	2329.4	2279.2	2258.7	2246.4
12.5°	2870.0	2853.6	2793.2	2682.6	2558.7	2390.8	2206.5	2029.4	1864.5	1796.9	1763.2
15°	3008.2	2984.7	2889.5	2721.5	2516.8	2201.4	1801.0	1490.8	1262.5	1176.5	1139.6
17.5°	3148.5	3117.8	2973.4	2746.1	2390.8	1809.2	1263.5	954.3	801.7	760.8	746.4
20°	3289.8	3244.7	3046.1	2727.7	2106.2	1304.5	833.5	697.3	653.2	641.0	636.9
22.5°	3423.9	3354.3	3111.6	2656.0	1667.9	875.4	659.4	616.4	602.1	594.9	592.8
25°	3540.7	3443.4	3169.0	2434.8	1180.6	661.4	593.9	579.5	561.1	547.8	548.8
27.5°	3650.2	3532.5	3203.8	2070.3	787.4	565.2	549.8	530.4	496.6	477.1	477.1
30°	3782.3	3651.2	3229.4	1593.2	579.5	499.7	487.4	457.7	411.6	386.0	386.0
32.5°	3980.9	3831.4	3213.0	1118.1	480.2	439.3	410.6	369.6	319.5	294.9	293.9
35°	4285.0	4109.9	3096.3	733.1	423.9	381.9	335.8	285.7	241.6	221.2	220.1
37.5°	4694.6	4482.6	2834.2	524.2	379.9	328.7	273.4	218.1	185.3	172.0	171.0
40°	5226.0	4915.8	2459.4	424.9	338.9	277.5	210.9	168.9	146.4	136.2	137.2
42.5°	5863.9	5379.6	2009.9	366.6	299.0	228.3	164.8	133.1	118.8	111.6	109.6
45°	6572.4	5837.3	1538.9	326.6	259.0	184.3	129.0	105.5	94.2	90.1	90.1
47.5°	7351.6	6282.7	1126.3	291.8	216.0	142.3	103.4	86.0	76.8	73.7	72.7
50°	8059.1	6591.9	812.0	255.0	177.1	112.6	84.0	71.7	65.5	61.4	61.4
52.5°	8648.9	6689.2	598.0	215.0	143.3	90.1	69.6	61.4	55.3	52.2	52.2
55°	9168.0	6649.2	444.4	177.1	115.7	73.7	59.4	52.2	47.1	44.0	44.0
57.5°	9665.6	6520.2	331.7	144.4	93.2	59.4	50.2	44.0	38.9	36.9	36.9
60°	10072.1	6305.2	246.8	116.7	74.7	48.1	42.0	35.8	31.7	28.7	28.7
62.5°	10401.8	6067.6	181.2	96.2	59.4	37.9	32.8	29.7	23.5	20.5	20.5
65°	10403.9	5673.4	136.2	79.9	46.1	29.7	24.6	23.5	15.4	12.3	11.3
67.5°	9651.3	4891.2	104.4	68.6	35.8	22.5	18.4	19.5	8.2	5.1	4.1
68°	9377.9	4692.5	98.3	67.6	33.8	21.5	17.4	19.5	7.2	4.1	3.1
70°	7906.6	3733.1	78.8	65.5	29.7	16.4	14.3	19.5	6.1	3.1	2.0
72.5°	5057.1	2166.6	58.4	52.2	22.5	12.3	9.2	17.4	6.1	2.0	1.0
75°	2152.2	671.7	39.9	36.9	13.3	9.2	6.1	11.3	4.1	1.0	0.0
77.5°	453.6	151.5	23.5	22.5	9.2	6.1	4.1	3.1	1.0	0.0	0.0
80°	116.7	44.0	12.3	11.3	5.1	3.1	2.0	0.0	0.0	0.0	0.0
82.5°	36.9	17.4	7.2	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	10.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	3.1	1.0	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

(END OF REPORT)