

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: P324277

Luminaire Tested: **GLEON-SA3B-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324277  
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-SA3B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 9509 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

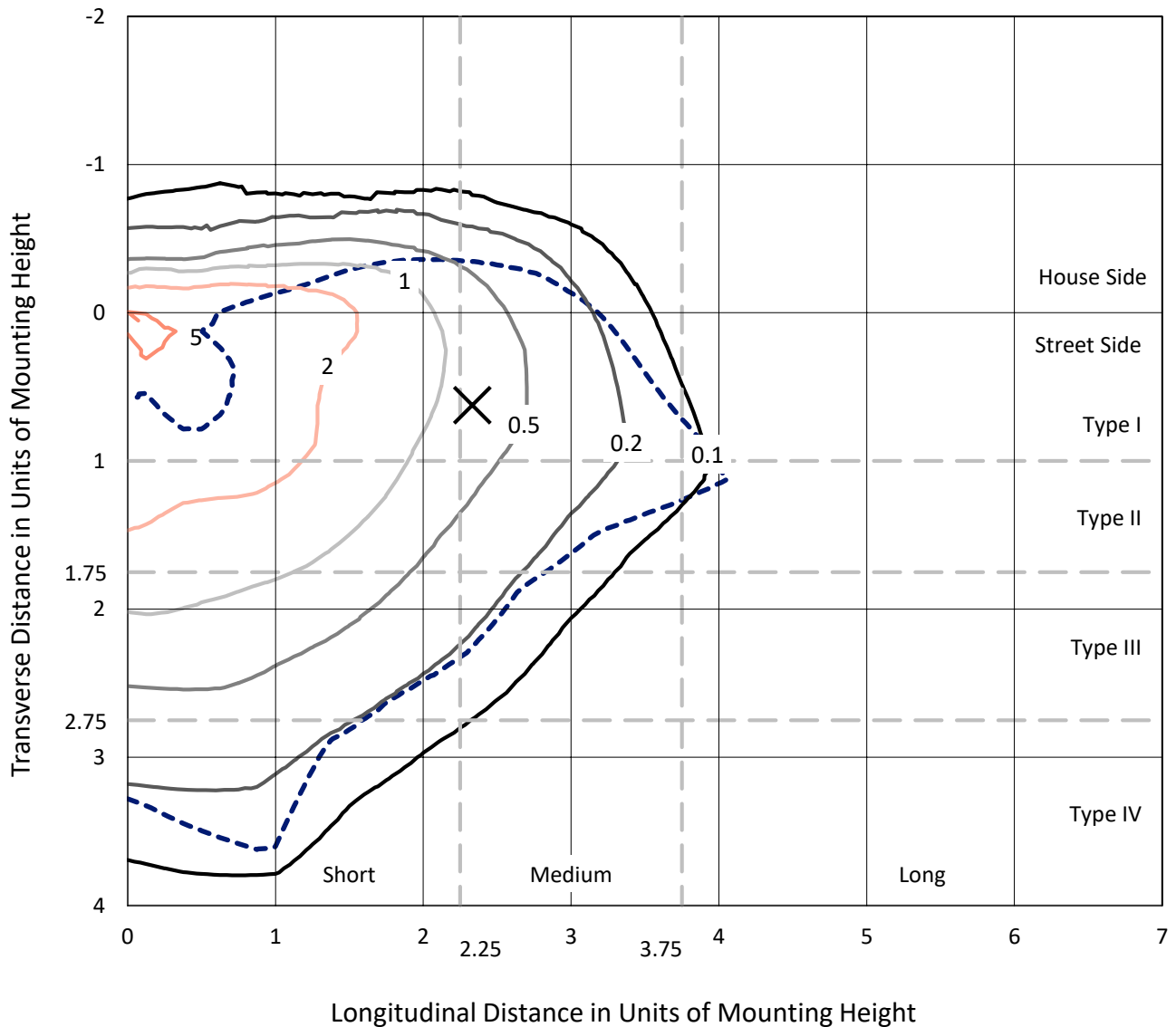
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

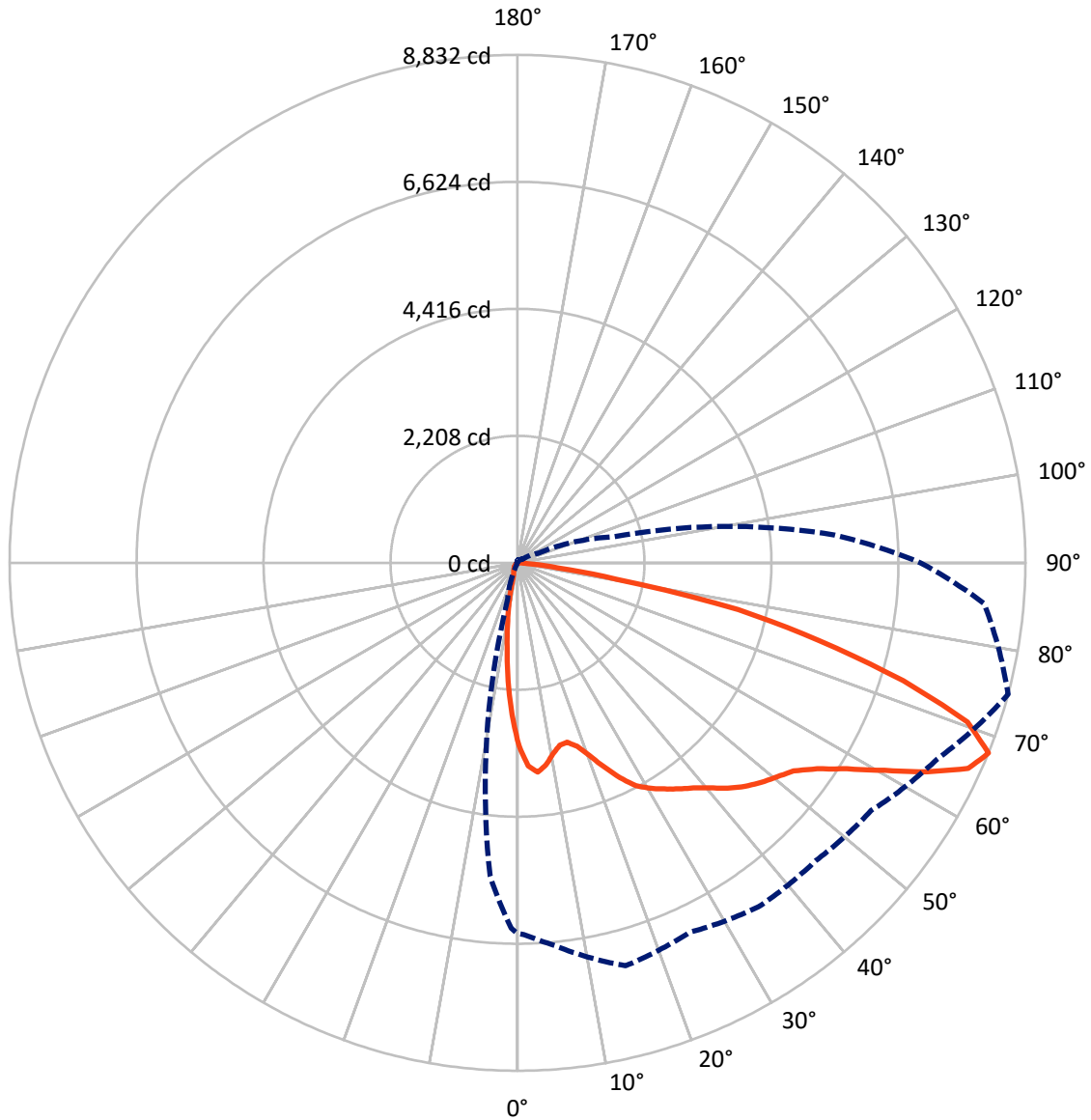
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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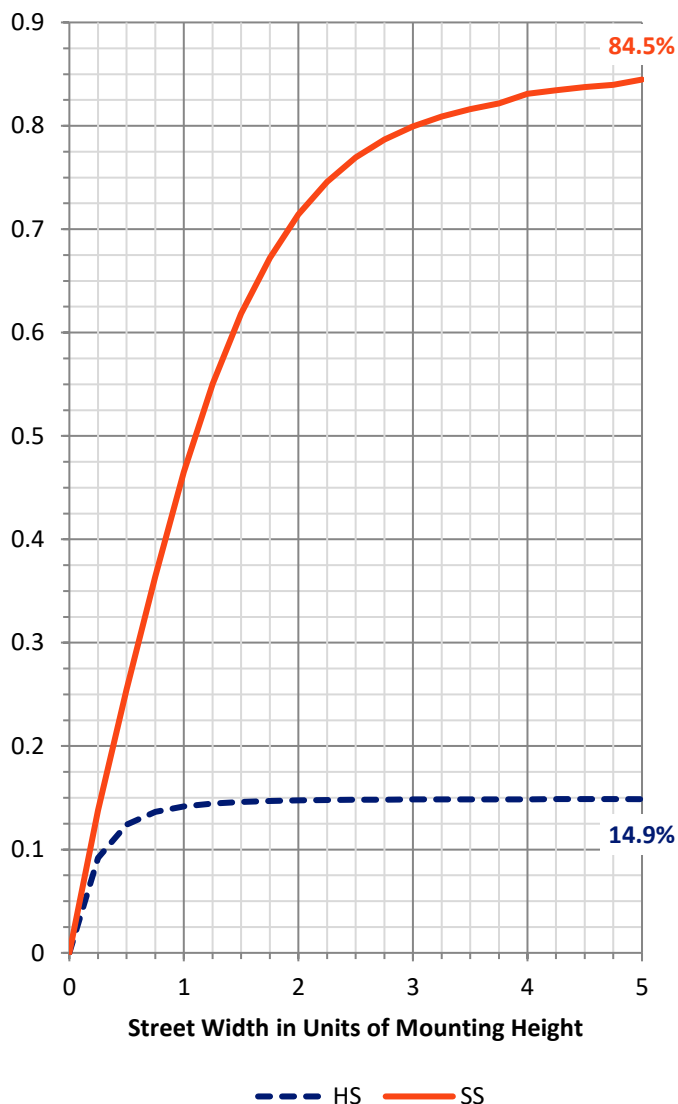
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1426.9	0.0	1426.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	8082.1	0.0	8082.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	9509.0	0.0	9509.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	2.5
10°-20°	476.5	5.0
20°-30°	674.1	7.1
30°-40°	991.1	10.4
40°-50°	1424.5	15.0
50°-60°	2005.3	21.1
60°-70°	2342.0	24.6
70°-80°	1194.8	12.6
80°-90°	158.7	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°	9509.0	100.0
0°-180°	9509.0	100.0

**Coefficient of Utilization**

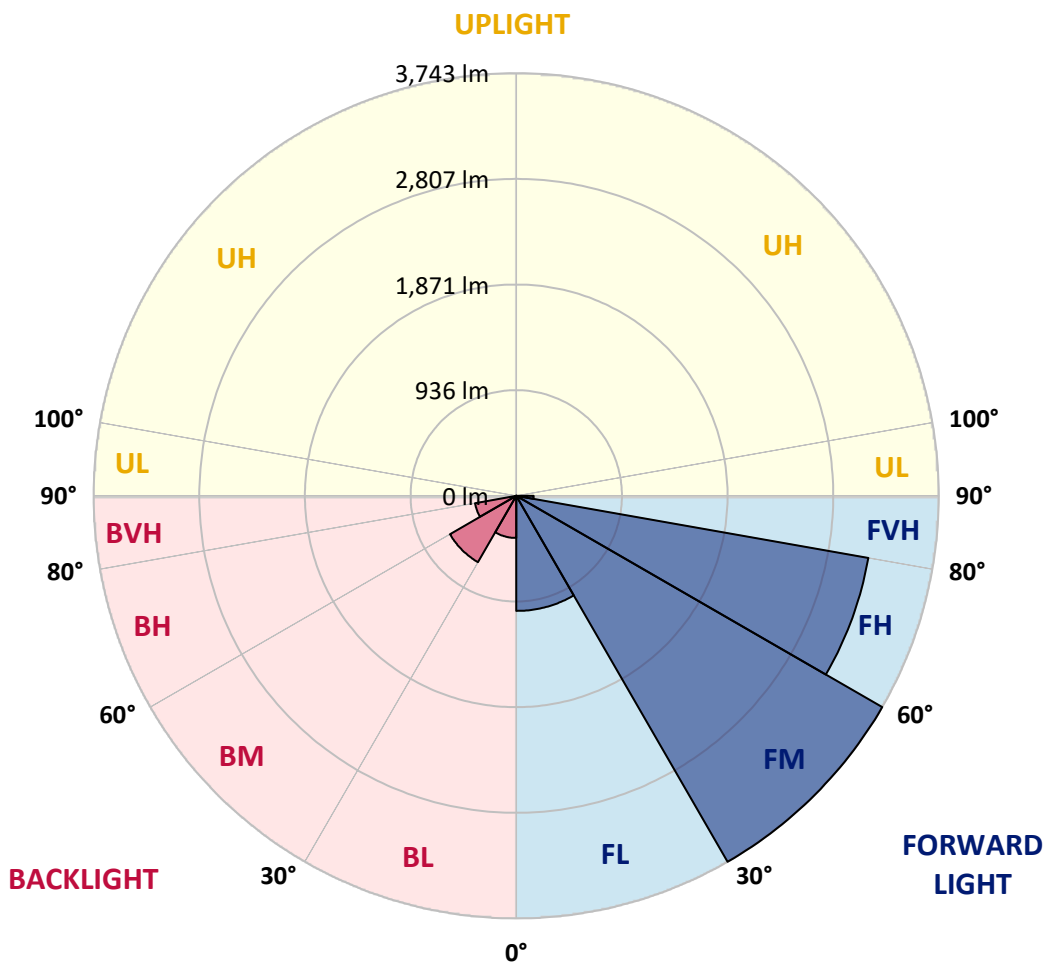


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.4	10.7			
FM (30°-60°)	3742.6	39.4			
FH (60°-80°)	3166.2	33.3			G2/5000
FVH (80°-90°)	153.9	1.6			G2/225
BL (0°-30°)	373.2	3.9	B1/500		
BM (30°-60°)	678.3	7.1	B1/1000		
BH (60°-80°)	370.6	3.9	B1/500		G1/500
BVH (80°-90°)	4.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1
2.5°	3458.1	3463.5	3491.5	3556.3	3627.0	3632.5	3680.2	3631.1	3614.4	3535.2	3453.2
5°	3484.3	3505.0	3600.9	3791.5	3956.8	4009.9	4047.8	3951.4	3850.0	3656.3	3449.6
7.5°	3273.9	3308.6	3459.5	3817.1	4112.6	4243.3	4268.0	4117.1	3868.9	3550.0	3239.2
10°	3004.5	3044.2	3226.1	3665.8	4071.6	4295.5	4329.8	4132.0	3775.2	3377.9	3011.7
12.5°	2786.5	2832.9	3018.9	3495.5	3930.7	4178.4	4246.0	4082.0	3694.2	3255.9	2856.3
15°	2686.1	2739.2	2934.7	3385.6	3774.3	3969.4	4025.2	3954.5	3649.1	3236.5	2820.3
17.5°	2743.7	2801.4	3003.2	3395.1	3627.5	3710.8	3755.9	3784.7	3649.1	3353.2	2925.7
20°	2980.2	3042.4	3255.9	3491.0	3505.9	3474.8	3523.0	3624.3	3691.5	3574.8	3178.8
22.5°	3307.2	3380.2	3621.2	3655.4	3446.4	3328.8	3335.2	3494.2	3768.5	3855.9	3530.2
25°	3705.9	3795.1	4040.1	3900.5	3471.2	3241.9	3239.7	3387.0	3843.7	4137.4	3921.6
27.5°	4101.8	4200.0	4415.3	4199.6	3573.4	3226.1	3221.6	3354.5	3917.1	4387.9	4349.1
30°	4433.8	4529.3	4714.9	4416.2	3683.8	3263.1	3241.5	3389.2	3960.8	4550.5	4660.8
32.5°	4704.1	4780.7	4930.7	4565.3	3801.8	3334.7	3287.9	3482.0	4035.2	4687.9	4947.3
35°	5001.4	5082.0	5141.9	4707.2	3934.3	3437.9	3370.7	3629.3	4149.6	4827.5	5261.3
37.5°	5340.6	5420.7	5413.5	4837.0	4102.3	3608.6	3565.8	3862.6	4327.5	4965.8	5611.7
40°	5672.6	5754.5	5696.0	4978.9	4299.6	3890.1	3858.6	4213.1	4565.8	5142.8	6022.6
42.5°	5983.4	6072.1	5946.9	5113.1	4534.7	4245.1	4299.1	4664.4	4864.0	5360.8	6376.6
45°	6233.8	6324.4	6157.2	5243.7	4782.5	4675.7	4838.3	5164.4	5222.5	5545.1	6615.8
47.5°	6415.8	6501.4	6303.2	5374.4	5099.6	5202.3	5485.6	5688.8	5546.4	5705.0	6785.6
50°	6532.0	6598.7	6346.0	5537.9	5515.8	5816.7	6159.9	6259.0	5851.4	5849.1	6991.9
52.5°	6605.9	6636.1	6377.5	5708.6	5950.0	6485.6	6820.3	6851.4	6165.3	6007.7	7269.9
55°	6860.4	6884.7	6600.9	5915.3	6309.0	7071.7	7417.6	7388.8	6520.8	6318.1	7597.8
57.5°	7294.6	7320.3	7062.6	6212.6	6599.6	7433.8	7850.5	7902.3	6937.4	6754.1	7949.1
60°	7512.7	7560.4	7468.5	6589.2	6881.1	7665.4	8145.5	8310.9	7458.1	7328.9	8289.7
62.5°	7314.9	7384.3	7517.6	7006.8	7160.8	7792.8	8237.4	8457.3	7991.5	7998.7	8499.6
65°	6920.3	6975.7	7201.8	7235.6	7323.0	7777.1	8010.4	8252.7	8318.1	8614.0	8488.3
67.5°	6443.7	6464.4	6656.3	7253.6	7087.9	7303.2	7328.4	7507.7	8060.0	8832.0	8147.3
70°	5757.7	5768.9	5936.5	6650.5	6091.0	6138.3	6100.9	6137.4	6929.3	8300.9	7286.5
72.5°	4633.8	4662.2	4900.5	5523.0	4437.4	4300.9	4594.6	4578.4	5336.5	7013.1	5411.7
75°	3411.7	3460.8	3820.7	4448.7	3114.4	2817.1	3031.5	3088.8	3793.7	5424.8	3384.3
77.5°	2388.8	2425.2	2773.9	3270.3	2254.1	2014.4	1936.9	2005.0	2504.1	3924.3	1705.0
80°	1376.1	1389.6	1612.2	1888.3	1518.9	1737.8	1574.3	1621.2	1500.5	1746.0	733.3
82.5°	900.5	902.7	989.6	1123.9	946.0	1099.1	813.5	1040.1	923.0	701.4	238.7
85°	486.5	489.2	573.9	797.8	535.6	302.7	177.9	365.3	570.7	160.8	65.3
87.5°	53.6	49.1	173.0	290.1	148.6	27.5	9.5	41.0	91.4	10.4	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1
2.5°	3411.3	3373.9	3280.6	3182.0	3102.7	3028.4	2953.6	2862.2	2791.5	2777.0	2753.6
5°	3338.3	3219.8	3024.3	2827.9	2669.8	2470.3	2343.7	2245.1	2148.7	2142.8	2123.4
7.5°	3083.3	2927.5	2652.3	2380.6	2158.1	1968.0	1776.1	1647.8	1546.9	1511.3	1490.1
10°	2838.3	2663.1	2319.4	2009.5	1810.8	1642.8	1507.7	1373.4	1251.8	1168.0	1130.2
12.5°	2667.1	2473.4	2094.6	1827.5	1685.1	1525.7	1360.8	1193.2	1053.2	952.3	890.5
15°	2600.9	2394.2	2019.4	1755.4	1579.7	1377.9	1167.1	975.7	820.3	728.8	673.4
17.5°	2679.7	2439.2	2013.5	1667.6	1422.1	1171.2	938.3	712.2	565.8	496.4	460.8
20°	2879.7	2582.4	2011.3	1559.9	1234.7	926.1	635.6	468.5	379.7	341.0	324.3
22.5°	3162.6	2765.3	2029.3	1453.6	1039.6	661.7	438.7	344.1	298.7	277.9	268.5
25°	3526.6	3022.1	2080.2	1357.2	856.3	493.7	341.9	288.3	256.3	240.1	233.3
27.5°	3914.4	3317.6	2159.5	1273.4	707.2	393.7	292.8	246.8	223.9	212.6	206.3
30°	4234.3	3659.9	2239.7	1180.2	599.1	343.2	268.0	225.2	198.6	191.4	185.6
32.5°	4514.0	3918.9	2296.4	1096.0	528.4	305.0	242.3	201.4	183.3	169.4	163.1
35°	4803.6	4134.7	2294.6	1036.9	479.7	276.1	220.7	180.2	158.6	142.3	137.4
37.5°	5117.1	4378.4	2255.4	986.5	458.6	253.2	208.6	168.9	147.3	131.1	124.8
40°	5484.3	4634.3	2215.3	939.2	452.7	234.7	200.0	159.9	136.9	121.2	114.9
42.5°	5841.9	4864.9	2180.2	904.1	427.5	234.2	192.3	153.2	128.8	113.5	106.3
45°	6128.0	5079.8	2173.4	882.9	400.9	242.3	188.3	148.6	122.5	107.2	100.5
47.5°	6365.8	5313.1	2216.7	868.0	375.7	221.2	198.2	145.5	116.7	101.8	94.1
50°	6648.7	5599.6	2318.5	843.7	349.1	199.1	227.0	146.4	111.7	96.4	88.3
52.5°	7043.3	5996.0	2468.0	802.7	312.6	178.8	223.4	147.3	106.3	90.5	82.4
55°	7485.6	6491.0	2628.8	734.7	261.7	152.3	191.4	141.0	95.9	84.2	76.6
57.5°	7950.5	6940.1	2724.3	653.6	208.1	131.5	153.2	128.4	84.7	75.7	70.7
60°	8023.5	7110.8	2680.6	554.1	165.3	114.4	113.5	130.6	75.7	66.7	63.1
62.5°	7841.9	6896.4	2469.4	465.3	138.3	100.5	93.2	114.0	68.5	59.5	55.9
65°	7492.8	6316.7	2127.0	419.4	128.4	86.0	77.5	80.2	59.9	51.8	48.6
67.5°	7007.2	5542.8	1746.4	393.2	127.0	73.9	66.2	60.8	51.8	45.0	42.3
70°	6014.4	4617.6	1393.3	378.8	123.4	62.2	55.9	49.5	43.2	38.3	36.0
72.5°	4426.6	3272.1	1083.8	363.1	124.3	49.5	48.6	41.0	34.7	29.7	28.8
75°	2557.7	1869.4	710.8	294.1	118.5	38.3	40.5	28.8	24.3	20.7	20.7
77.5°	1363.1	1140.1	270.7	122.5	43.2	24.3	23.0	17.1	15.3	12.6	12.2
80°	594.1	501.8	81.5	34.2	23.9	13.1	8.6	7.7	6.8	5.4	5.0
82.5°	210.4	181.5	26.6	16.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.7	34.2	0.0	4.1	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°	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1
2.5°	2705.9	2696.0	2637.4	2639.7	2650.0	2664.9	2629.7	2646.0	2689.7	2731.5	2747.3
5°	2092.4	2094.6	2059.0	2081.1	2100.9	2114.4	2057.7	2058.6	2093.3	2140.6	2165.3
7.5°	1474.3	1470.7	1472.5	1525.2	1562.6	1535.6	1556.8	1483.3	1487.8	1521.6	1496.4
10°	1096.0	1046.4	1018.5	1058.1	1099.1	1084.2	1047.8	1023.9	1040.5	1077.9	1075.2
12.5°	861.3	790.1	748.2	719.8	753.6	725.7	724.8	704.1	681.5	685.6	745.5
15°	647.8	595.9	546.4	500.9	500.0	490.5	442.3	388.3	383.8	386.5	417.6
17.5°	445.5	427.9	407.7	368.5	358.1	318.5	271.6	250.0	239.2	244.1	254.5
20°	313.1	306.3	308.6	287.4	272.5	234.7	207.2	198.6	196.8	201.8	206.8
22.5°	259.5	247.3	245.9	236.5	221.6	194.1	179.3	174.3	172.1	176.6	180.2
25°	227.0	214.9	209.9	204.1	188.3	169.4	160.4	155.9	153.6	156.3	158.6
27.5°	200.0	188.7	184.2	180.2	164.9	151.4	144.1	140.1	138.3	139.2	141.4
30°	179.7	169.8	164.0	159.0	145.9	136.5	130.2	126.1	124.3	124.3	126.6
32.5°	158.6	153.2	147.7	141.4	129.3	123.0	116.7	112.2	110.4	110.8	112.6
35°	132.0	130.2	131.5	125.7	115.3	109.9	103.6	98.6	97.3	97.7	99.6
37.5°	117.1	109.0	114.0	110.8	105.0	97.7	89.6	85.1	82.9	84.2	85.1
40°	107.7	97.7	94.1	97.3	96.4	84.7	77.5	73.0	71.2	71.6	72.5
42.5°	99.6	87.8	79.7	79.3	84.7	73.9	66.2	62.2	59.9	59.9	60.8
45°	91.9	79.3	69.4	61.7	71.2	62.6	55.4	51.8	49.1	49.1	49.5
47.5°	86.0	72.1	60.4	50.5	53.6	51.4	45.5	41.9	39.2	39.2	39.6
50°	80.6	64.9	52.3	42.3	40.1	42.3	36.9	32.9	31.1	30.6	31.5
52.5°	74.8	57.7	44.6	36.0	31.5	32.0	28.8	26.1	23.9	23.9	24.8
55°	68.9	51.8	38.7	30.6	26.1	23.9	23.0	21.2	19.4	19.4	20.3
57.5°	63.1	45.5	32.9	25.2	20.7	18.9	18.9	17.6	16.2	16.2	17.1
60°	57.7	39.2	27.0	20.7	16.2	15.8	16.2	14.9	14.0	14.0	14.9
62.5°	51.4	33.3	22.1	17.1	13.1	12.6	14.0	13.1	12.2	12.2	13.1
65°	43.7	28.4	17.6	13.1	9.9	9.9	11.7	10.8	9.9	9.9	10.8
67.5°	36.9	23.9	13.5	9.5	7.2	7.7	9.9	9.0	8.6	8.6	9.5
70°	30.6	18.5	9.5	5.9	4.1	5.9	7.7	7.7	7.7	7.7	8.6
72.5°	23.0	12.6	5.4	2.3	1.8	4.1	6.3	7.2	6.8	6.8	8.1
75°	14.9	7.2	1.8	0.0	0.0	2.3	5.0	5.9	5.9	5.4	6.8
77.5°	8.6	2.3	0.0	0.0	0.0	0.0	3.2	2.7	2.3	1.8	3.2
80°	2.3	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: P324277

CATALOG NUMBER: GLEON-SA3B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1	3190.1
2.5°	2810.8	2864.0	2938.8	3018.0	3140.1	3237.0	3332.0	3413.5	3445.1	3458.1
5°	2224.8	2302.7	2412.2	2552.7	2773.0	2971.2	3172.1	3374.3	3462.2	3484.3
7.5°	1596.4	1696.0	1835.1	2011.3	2269.4	2526.1	2806.8	3103.6	3239.7	3273.9
10°	1181.5	1303.2	1462.6	1648.2	1894.6	2158.6	2464.4	2803.6	2959.0	3004.5
12.5°	838.3	1002.7	1216.2	1441.9	1655.4	1891.0	2200.5	2574.3	2737.4	2786.5
15°	492.3	651.4	904.1	1206.3	1479.7	1718.5	2032.9	2456.8	2636.5	2686.1
17.5°	282.4	361.7	552.7	889.6	1260.8	1591.4	1980.2	2486.0	2697.8	2743.7
20°	215.8	241.0	318.5	573.0	1005.0	1466.7	1980.2	2651.8	2912.6	2980.2
22.5°	188.7	207.2	238.7	341.9	739.6	1332.9	2003.2	2891.5	3232.4	3307.2
25°	167.6	184.2	211.3	257.2	504.5	1173.9	2057.7	3185.6	3609.0	3705.9
27.5°	150.0	165.8	190.1	225.2	345.0	982.0	2131.1	3530.6	4024.3	4101.8
30°	134.2	149.1	171.2	195.9	266.2	764.4	2193.7	3855.9	4350.5	4433.8
32.5°	119.4	132.9	152.7	171.2	218.0	565.3	2200.5	4113.5	4621.2	4704.1
35°	105.4	117.6	135.6	150.0	180.6	446.4	2095.5	4337.0	4891.9	5001.4
37.5°	91.9	103.6	119.4	130.2	159.0	364.0	1935.1	4586.1	5239.2	5340.6
40°	79.3	89.6	105.9	113.1	150.5	279.7	1760.8	4847.3	5579.8	5672.6
42.5°	67.6	77.5	93.2	107.2	132.0	209.0	1572.5	5092.4	5886.1	5983.4
45°	56.3	66.7	82.4	113.5	109.5	156.3	1371.2	5255.0	6128.0	6233.8
47.5°	45.5	57.2	78.8	108.1	87.4	114.9	1211.7	5409.0	6311.3	6415.8
50°	36.5	48.2	88.7	96.4	71.6	87.8	1145.1	5546.9	6431.6	6532.0
52.5°	29.7	40.5	83.8	73.9	59.9	72.5	1181.1	5770.3	6542.8	6605.9
55°	24.8	32.0	50.5	51.4	50.9	61.7	1225.7	6091.0	6830.7	6860.4
57.5°	21.6	25.7	35.1	39.6	42.8	55.0	1226.6	6551.4	7276.2	7294.6
60°	18.5	22.5	29.3	32.0	36.9	49.1	1182.0	6712.2	7451.4	7512.7
62.5°	16.2	19.8	24.3	26.6	31.1	44.1	1077.5	6479.3	7210.8	7314.9
65°	14.4	18.0	20.3	22.5	27.5	39.6	905.4	6013.5	6811.7	6920.3
67.5°	12.6	15.8	18.0	20.3	24.8	35.1	666.7	5472.6	6353.6	6443.7
70°	11.3	14.0	16.2	18.0	21.6	29.7	404.5	4643.7	5720.3	5757.7
72.5°	10.8	12.6	14.9	16.2	18.9	26.1	205.0	3412.6	4573.0	4633.8
75°	9.5	11.3	13.5	14.4	16.7	22.5	83.3	2241.5	3314.0	3411.7
77.5°	7.7	10.4	12.2	13.1	14.4	18.5	42.3	1432.4	2325.7	2388.8
80°	2.7	7.7	10.4	10.8	12.2	13.5	27.9	784.2	1349.1	1376.1
82.5°	0.0	5.0	8.1	7.7	8.6	10.4	18.0	373.0	890.5	900.5
85°	0.0	2.3	6.3	5.0	3.6	7.2	6.3	81.5	467.1	486.5
87.5°	0.0	0.0	0.5	2.3	1.8	2.7	0.9	0.5	42.3	53.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)