

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: P324618

Luminaire Tested: **GLEON-SA4D-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4D-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17056 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 258  
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

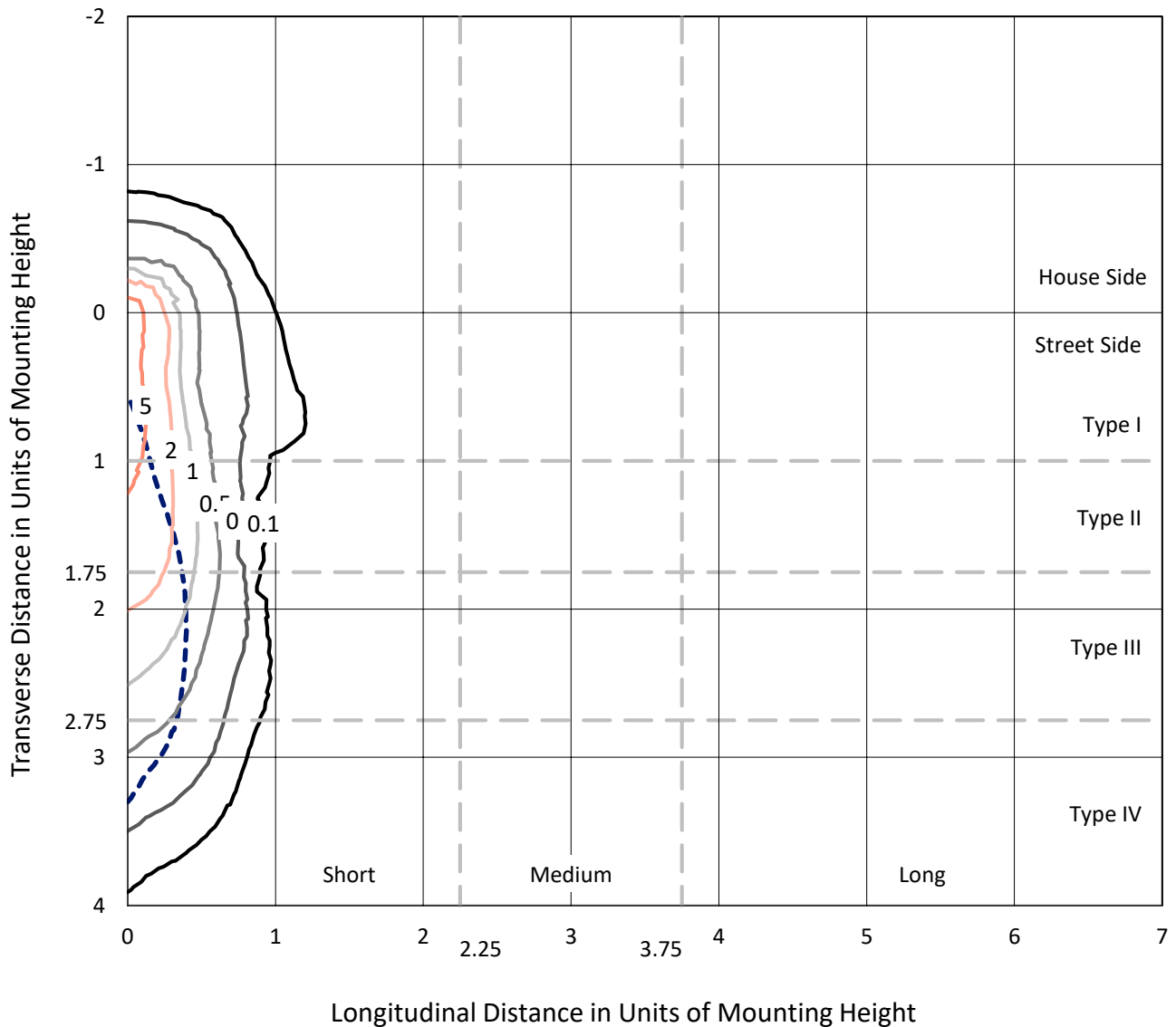




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### Iso-Footcandle Lines of Horizontal Illumination

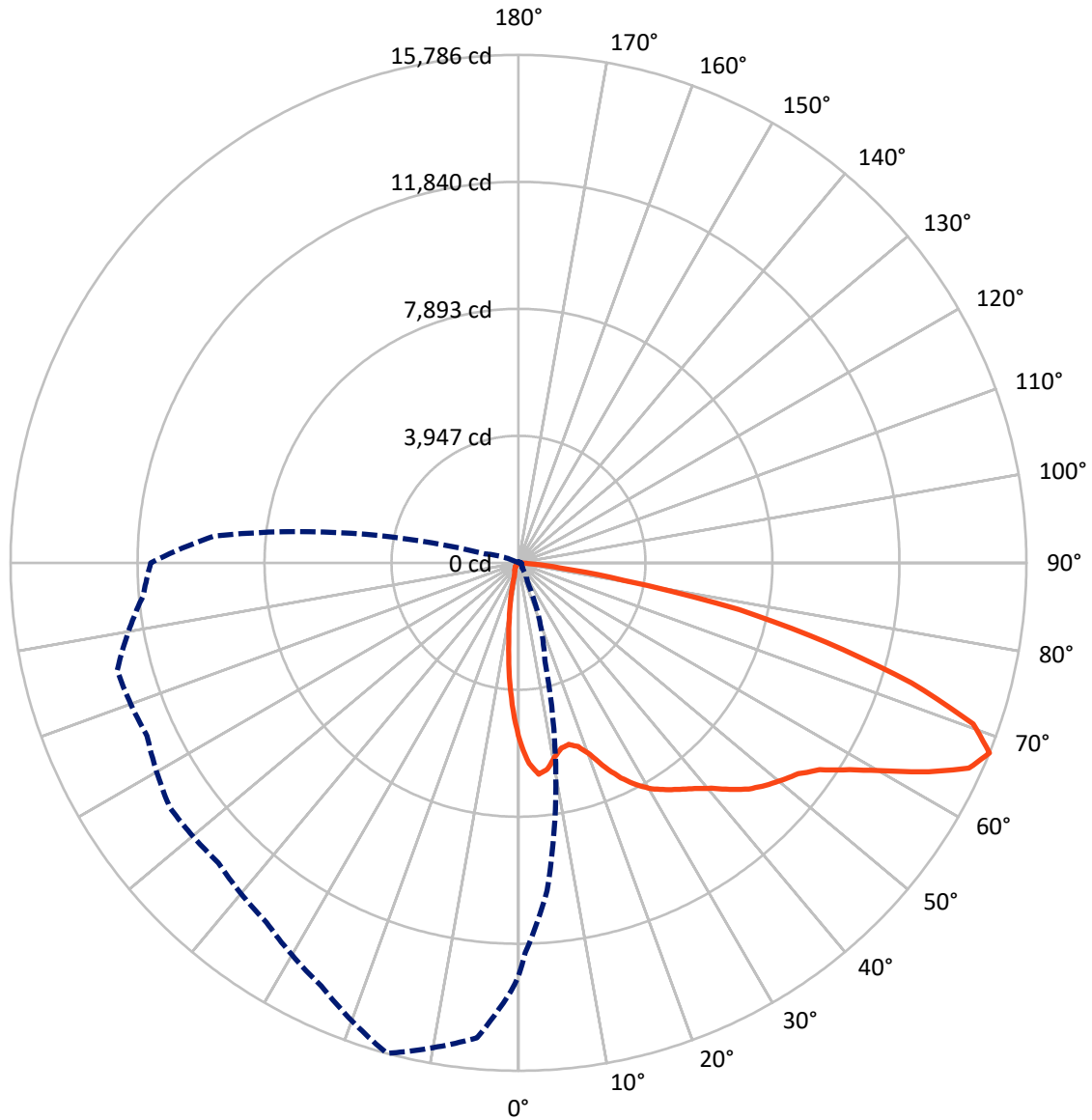
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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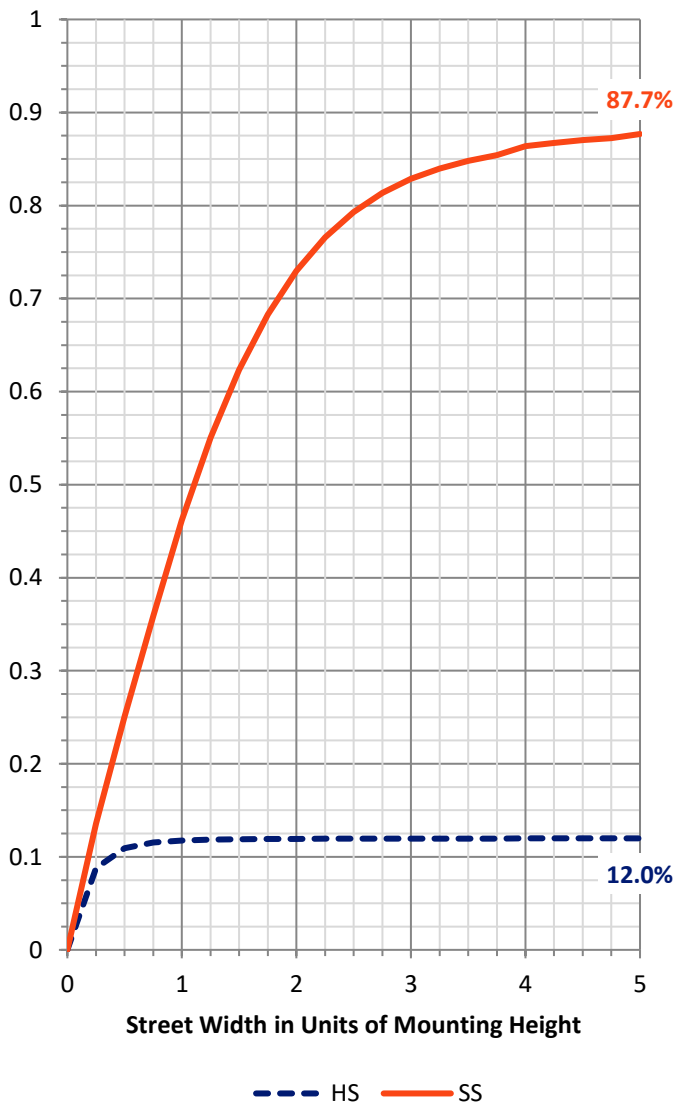
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2064.3	0.0	2064.3
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	14991.7	0.0	14991.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	17056.0	0.0	17056.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.4	2.5
10°-20°	848.8	5.0
20°-30°	1205.3	7.1
30°-40°	1780.2	10.4
40°-50°	2567.5	15.1
50°-60°	3604.2	21.1
60°-70°	4201.5	24.6
70°-80°	2147.9	12.6
80°-90°	274.3	1.6
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°	17056.0	100.0
0°-180°	17056.0	100.0

**Coefficient of Utilization**

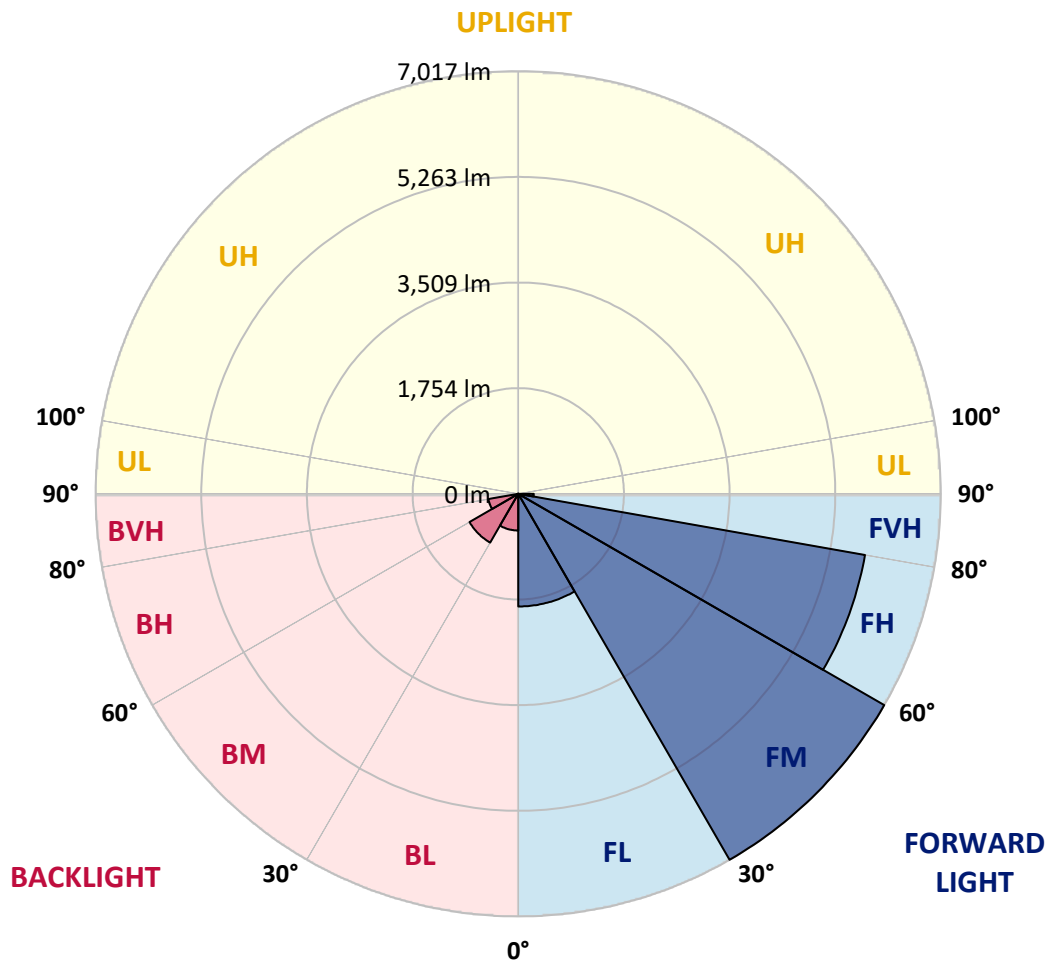


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1870.7	11.0			
FM (30°-60°)	7017.1	41.1			
FH (60°-80°)	5846.2	34.3			G3/7500
FVH (80°-90°)	257.6	1.5			G3/500
BL (0°-30°)	609.7	3.6	B2/1000		
BM (30°-60°)	934.8	5.5	B1/1000		
BH (60°-80°)	503.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	16.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0
2.5°	6083.6	6036.7	5985.0	5816.1	5659.4	5480.0	5333.8	5231.9	5104.3	4938.6	4896.6
5°	6040.0	5989.9	5827.5	5451.7	5122.9	4802.9	4494.2	4313.2	4088.6	3860.7	3804.2
7.5°	5601.2	5548.7	5314.4	4799.7	4356.9	3894.7	3493.9	3245.8	2992.1	2783.6	2672.9
10°	5144.7	5087.3	4823.9	4199.3	3653.9	3236.1	2942.0	2705.3	2465.3	2242.3	2064.5
12.5°	4830.4	4755.2	4469.2	3761.3	3286.2	3002.6	2727.9	2444.3	2119.4	1880.3	1684.7
15°	4698.6	4613.0	4310.8	3592.5	3156.1	2823.2	2465.3	2117.0	1736.4	1462.5	1283.1
17.5°	4800.5	4689.0	4364.9	3581.2	2992.9	2539.6	2087.1	1678.3	1265.4	988.2	860.5
20°	5146.3	5000.0	4588.8	3577.9	2794.9	2202.7	1629.0	1166.8	833.9	670.7	603.6
22.5°	5690.9	5497.8	4910.4	3603.8	2590.5	1848.8	1176.5	792.7	626.2	541.4	501.8
25°	6348.6	6124.8	5373.3	3695.1	2411.1	1504.5	854.9	626.2	528.4	466.2	433.1
27.5°	6974.0	6792.2	5958.4	3826.8	2272.2	1226.6	694.1	530.9	451.7	410.5	383.8
30°	7598.6	7370.0	6558.7	3983.5	2104.9	1038.3	610.1	484.0	404.8	361.2	344.2
32.5°	8052.7	7862.9	7029.0	4096.7	1926.3	915.5	545.4	442.8	378.2	333.7	308.7
35°	8586.9	8371.9	7432.2	4121.7	1811.6	837.9	490.5	398.4	328.1	288.5	261.8
37.5°	9163.8	8896.3	7897.6	4066.8	1721.9	799.9	449.3	378.2	306.2	265.8	237.6
40°	9802.1	9499.9	8344.4	3987.6	1633.8	787.0	417.7	362.8	289.3	248.1	219.0
42.5°	10474.4	10118.1	8731.5	3904.4	1578.1	742.6	414.5	347.4	276.3	231.9	202.8
45°	11039.2	10678.0	9129.0	3876.9	1538.5	694.1	428.3	336.9	267.5	219.0	190.7
47.5°	11489.3	11147.5	9536.3	3938.3	1515.8	649.6	390.3	350.7	262.6	207.7	180.2
50°	12026.6	11639.6	10110.0	4121.7	1482.7	605.2	353.1	401.6	262.6	200.4	171.3
52.5°	12700.5	12317.5	10749.9	4406.1	1416.5	543.8	317.6	402.4	265.0	190.7	160.0
55°	13548.1	13270.1	11663.8	4718.0	1310.6	453.3	274.7	345.8	255.3	172.9	149.5
57.5°	14361.0	14133.9	12496.9	4931.4	1169.2	353.9	239.2	278.8	233.5	151.9	133.3
59°	14583.2	14335.1	12802.3	4941.1	1063.4	308.7	221.4	230.3	228.7	142.2	123.6
60°	14583.2	14319.8	12890.4	4889.3	986.6	283.6	210.1	205.2	238.4	135.7	118.0
62.5°	14319.0	13948.9	12604.3	4539.5	804.8	241.6	183.4	169.7	214.1	122.0	104.2
65°	13769.5	13230.6	11629.9	3906.8	717.5	221.4	158.4	139.0	148.7	107.5	91.3
67.5°	12853.2	12122.8	10224.7	3156.1	682.8	215.7	136.6	118.0	112.3	92.1	80.0
70°	11239.6	10429.1	8519.0	2481.4	652.9	213.3	114.7	99.4	90.5	77.6	67.9
72.5°	8180.4	7335.2	6048.0	1940.1	635.1	218.2	92.1	83.2	74.3	60.6	52.5
75°	4679.3	4125.8	3399.3	1281.5	541.4	208.5	71.1	69.5	53.3	43.6	36.4
77.5°	2417.6	2344.1	2037.0	492.1	259.4	91.3	46.9	40.4	31.5	26.7	21.8
80°	1043.2	1031.8	892.9	142.2	68.7	50.9	26.7	17.0	14.5	11.3	8.9
82.5°	360.4	360.4	317.6	47.7	30.7	25.0	3.2	0.0	0.0	0.0	0.0
85°	72.7	81.6	57.4	0.0	10.5	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0
2.5°	4845.7	4747.9	4741.5	4680.1	4603.3	4568.6	4548.4	4583.9	4627.5	4632.4	4697.8
5°	3761.3	3658.7	3701.5	3592.5	3614.3	3592.5	3556.9	3563.4	3582.8	3522.2	3597.3
7.5°	2641.4	2563.9	2613.1	2584.1	2622.8	2638.2	2616.4	2584.1	2488.7	2477.4	2542.8
10°	1991.0	1902.9	1850.4	1795.4	1807.5	1832.6	1824.5	1801.1	1740.5	1743.7	1806.7
12.5°	1599.9	1501.3	1397.1	1262.1	1229.0	1247.6	1229.0	1215.3	1157.1	1161.9	1217.7
15°	1213.6	1132.8	1023.8	915.5	856.5	862.2	810.4	774.1	737.7	694.1	728.0
17.5°	819.3	770.0	737.7	705.4	635.1	618.9	553.5	483.2	455.7	435.5	450.1
20°	580.2	553.5	540.6	539.0	498.5	478.3	414.5	370.9	357.1	353.1	362.0
22.5°	484.8	465.4	446.8	436.3	416.1	392.7	344.2	322.4	312.7	307.9	314.3
25°	421.8	407.2	387.9	370.1	362.0	336.9	302.2	286.0	279.6	274.7	278.0
27.5°	374.9	362.0	339.4	328.1	321.6	299.8	269.9	257.0	251.3	249.7	248.9
30°	337.8	325.6	304.6	291.7	280.4	261.0	243.2	230.3	224.6	223.0	221.4
32.5°	300.6	290.9	277.2	264.2	252.1	234.3	219.0	208.5	199.6	198.0	197.2
35°	253.7	244.0	236.8	235.9	224.6	207.7	196.3	182.6	175.3	172.9	173.7
37.5°	225.4	212.5	196.3	202.0	198.8	186.7	171.3	157.6	150.3	148.7	148.7
40°	207.7	193.9	175.3	165.6	175.3	172.9	148.7	134.9	127.7	126.9	125.2
42.5°	190.7	177.0	155.9	139.8	144.6	151.9	128.5	115.5	108.3	106.7	104.2
45°	178.6	164.0	140.6	122.0	112.3	127.7	109.9	93.7	89.7	86.5	84.8
47.5°	167.3	153.5	126.9	105.9	89.7	92.1	88.1	76.8	71.9	68.7	67.9
50°	157.6	143.0	114.7	90.5	74.3	67.9	71.1	60.6	56.6	53.3	51.7
52.5°	146.3	132.5	101.8	78.4	62.2	53.3	54.1	47.7	43.6	41.2	40.4
55°	137.4	123.6	91.3	68.7	54.9	43.6	38.8	37.2	34.7	33.1	32.3
57.5°	125.2	112.3	80.8	58.2	46.9	35.6	29.9	29.9	29.1	27.5	26.7
59°	118.0	106.7	74.3	52.5	42.8	30.7	26.7	27.5	26.7	25.0	24.2
60°	112.3	101.8	69.5	48.5	40.4	28.3	24.2	25.9	25.0	23.4	22.6
62.5°	99.4	92.1	59.8	40.4	35.6	22.6	20.2	21.8	21.8	21.0	20.2
65°	87.3	79.2	50.9	33.9	33.1	19.4	16.2	19.4	20.2	18.6	17.0
67.5°	76.0	67.9	44.4	27.5	30.7	15.4	12.1	16.2	21.8	17.0	15.4
70°	64.6	56.6	34.7	21.8	32.3	10.5	9.7	14.5	25.9	18.6	14.5
72.5°	50.1	43.6	24.2	16.2	34.7	7.3	7.3	12.1	29.1	20.2	13.7
75°	34.7	28.3	14.5	9.7	28.3	4.8	4.8	11.3	27.5	18.6	12.9
77.5°	20.2	15.4	4.8	0.8	14.5	0.0	0.8	8.1	19.4	11.3	5.7
80°	7.3	3.2	0.0	0.0	8.9	0.0	0.0	0.0	1.6	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0
2.5°	4714.8	4823.9	4921.7	5069.5	5244.9	5446.9	5620.6	5807.3	5982.6	6055.3	6105.4
5°	3612.7	3747.6	3905.2	4122.5	4411.8	4768.1	5101.9	5479.2	5884.8	6087.6	6278.3
7.5°	2554.2	2691.5	2887.1	3118.2	3468.0	3892.2	4328.6	4849.7	5399.2	5720.0	6035.9
10°	1836.6	2005.5	2188.1	2504.1	2859.6	3262.0	3711.2	4293.0	4905.5	5261.0	5641.6
12.5°	1250.0	1442.3	1718.7	2072.6	2490.3	2884.6	3274.9	3830.0	4541.1	4893.4	5301.4
15°	749.8	856.5	1149.0	1558.7	2071.0	2562.2	2989.7	3546.4	4304.3	4735.8	5160.0
17.5°	462.2	511.5	670.7	1006.8	1544.9	2166.3	2752.1	3450.3	4338.3	4863.5	5317.6
20°	368.5	387.9	438.8	594.7	1023.8	1730.0	2484.7	3430.9	4615.4	5261.8	5749.1
22.5°	320.0	338.6	372.5	432.3	644.0	1295.3	2230.9	3448.6	5013.0	5859.0	6427.8
25°	282.0	298.2	330.5	379.8	471.9	912.3	1959.5	3527.8	5530.9	6599.9	7204.3
27.5°	252.1	265.8	295.7	341.0	404.8	636.7	1651.6	3624.0	6145.0	7357.8	7954.2
30°	224.6	236.8	263.4	305.4	351.5	489.7	1313.8	3689.4	6759.9	7954.2	8489.9
32.5°	201.2	210.1	234.3	269.9	305.4	390.3	998.7	3678.9	7216.4	8450.3	8875.3
35°	177.0	185.8	206.9	237.6	265.8	322.4	785.4	3482.6	7614.0	8965.0	9316.5
37.5°	150.3	161.6	181.8	209.3	228.7	283.6	635.1	3245.8	8017.2	9553.2	9808.6
40°	127.7	139.0	156.8	186.7	198.8	269.1	488.0	2957.4	8470.5	10211.0	10348.3
42.5°	105.9	116.4	134.9	160.8	187.5	231.9	361.2	2627.7	8906.0	10773.4	10840.4
45°	85.7	96.2	115.5	141.4	200.4	192.3	279.6	2274.6	9257.5	11241.2	11263.0
47.5°	67.9	77.6	97.8	133.3	186.7	153.5	199.6	1997.4	9552.4	11606.4	11549.1
50°	52.5	60.6	81.6	152.7	163.2	126.9	151.1	1905.3	9816.7	11832.7	11684.0
52.5°	41.2	48.5	67.1	143.0	126.9	105.0	126.9	1991.8	10178.7	12020.1	11760.0
55°	33.1	40.4	52.5	81.6	86.5	88.9	108.3	2072.6	10803.3	12459.7	12208.4
57.5°	27.5	34.7	42.8	57.4	65.4	75.1	96.2	2081.5	11539.4	13190.2	12952.6
59°	25.0	31.5	38.8	50.9	57.4	68.7	90.5	2033.0	11798.7	13456.0	13337.2
60°	23.4	29.9	36.4	46.9	53.3	64.6	87.3	1986.9	11810.1	13446.3	13501.2
62.5°	20.2	26.7	32.3	39.6	45.2	54.9	78.4	1816.4	11331.7	13005.9	13402.7
65°	17.8	23.4	29.1	33.9	38.8	49.3	71.1	1505.3	10514.8	12295.7	12728.0
67.5°	16.2	20.2	26.7	29.9	34.7	43.6	63.0	1073.1	9494.3	11427.0	11707.4
70°	14.5	19.4	24.2	27.5	31.5	38.0	54.1	616.5	8017.2	10155.2	10354.8
72.5°	13.7	18.6	21.8	25.9	28.3	33.9	49.3	290.1	5870.3	8135.2	8656.3
75°	12.1	17.0	20.2	24.2	26.7	30.7	42.0	139.0	3904.4	5887.2	6479.5
77.5°	7.3	13.7	18.6	21.8	23.4	26.7	34.7	80.0	2491.9	4074.9	4799.7
80°	0.0	4.8	13.7	18.6	20.2	22.6	26.7	63.0	1333.2	2327.9	2794.1
82.5°	0.0	0.0	9.7	14.5	13.7	15.4	20.2	39.6	601.2	1521.5	1714.6
85°	0.0	0.0	3.2	11.3	9.7	7.3	13.7	13.7	131.7	770.0	960.7
87.5°	0.0	0.0	0.0	0.8	4.8	3.2	5.7	1.6	0.8	57.4	232.7
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: P324618

CATALOG NUMBER: GLEON-SA4D-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0	5556.0
2.5°	6280.8	6340.5	6441.6	6489.2	6465.8	6366.4	6247.6	6126.4	6055.3	6083.6
5°	6667.0	6974.8	7152.6	7211.6	7113.0	6890.0	6598.3	6213.7	6077.1	6040.0
7.5°	6667.0	7246.3	7613.2	7677.8	7458.0	7020.9	6473.9	5873.5	5673.9	5601.2
10°	6432.7	7221.3	7732.8	7835.4	7528.3	6874.7	6141.8	5456.6	5219.8	5144.7
12.5°	6168.4	7017.7	7556.6	7698.0	7445.9	6729.2	5911.5	5174.6	4895.8	4830.4
15°	6006.0	6767.2	7213.2	7315.8	7209.2	6644.4	5856.5	5089.7	4761.7	4698.6
17.5°	6064.2	6573.3	6734.1	6793.9	6865.8	6614.5	6006.0	5275.6	4860.3	4800.5
20°	6283.2	6368.8	6285.6	6360.8	6554.7	6643.6	6362.4	5724.8	5226.3	5146.3
22.5°	6654.9	6263.0	6029.5	6059.4	6295.3	6739.7	6907.0	6366.4	5791.1	5690.9
25°	7088.0	6348.6	5887.2	5860.6	6103.0	6866.6	7404.7	7064.5	6459.3	6348.6
27.5°	7632.6	6540.9	5858.2	5831.5	6035.9	6985.4	7818.4	7754.6	7163.1	6974.0
30°	8052.7	6730.0	5944.6	5883.2	6103.0	7067.8	8150.5	8340.4	7723.9	7598.6
32.5°	8354.1	6953.0	6085.2	5996.3	6292.1	7210.0	8406.7	8876.9	8242.6	8052.7
35°	8583.6	7195.4	6312.3	6166.0	6552.3	7425.7	8646.6	9448.2	8794.5	8586.9
37.5°	8798.6	7535.6	6667.0	6492.5	6960.3	7773.2	8900.4	10096.2	9411.8	9163.8
40°	9098.3	7921.0	7214.0	7058.9	7646.3	8246.7	9217.1	10771.7	10114.0	9802.1
42.5°	9398.1	8334.7	7774.0	7816.0	8502.0	8822.0	9626.0	11486.0	10807.3	10474.4
45°	9672.0	8761.4	8571.5	8765.4	9296.3	9453.1	10032.4	11898.9	11360.8	11039.2
47.5°	9916.0	9294.7	9364.2	9880.5	10199.7	10024.3	10336.2	12255.3	11772.9	11489.3
50°	10199.7	9984.7	10408.9	11139.4	11239.6	10541.5	10612.6	12677.1	12254.5	12026.6
52.5°	10509.9	10711.9	11566.0	12210.0	12177.7	11103.0	10890.5	13149.8	12914.6	12700.5
55°	10862.2	11299.4	12584.9	13212.0	13184.5	11730.1	11351.1	13734.0	13742.0	13548.1
57.5°	11385.0	11805.2	13276.6	14022.4	14068.5	12454.0	12131.6	14388.5	14490.3	14361.0
59°	11760.0	12133.3	13550.5	14361.0	14548.4	13014.0	12702.1	14768.2	14701.2	14583.2
60°	12037.9	12341.7	13686.3	14537.9	14827.2	13393.8	13123.1	14991.2	14726.2	14583.2
62.5°	12725.5	12795.8	13931.1	14738.3	15148.0	14237.4	14307.6	15371.0	14552.5	14319.0
65°	13046.3	13082.7	13927.9	14379.6	14837.7	14894.3	15382.3	15382.3	14128.3	13769.5
67.5°	12912.2	12736.9	13237.0	13190.2	13647.5	14504.0	15786.3	14818.3	13317.0	12853.2
70°	11821.4	11146.7	10924.5	10944.7	11294.5	12615.6	14986.4	13158.6	11781.8	11239.6
72.5°	9836.1	8217.6	7668.9	8295.2	8386.5	9695.5	12771.6	9909.6	8688.7	8180.4
75°	7911.3	5792.7	4900.7	5561.6	5716.8	7095.2	9879.7	6171.7	5075.2	4679.3
77.5°	5683.6	4158.1	3516.5	3470.5	3670.8	4499.9	7010.4	3106.0	2590.5	2417.6
80°	3228.9	2736.8	2946.9	2780.4	2881.4	2813.5	3330.7	1362.3	1115.9	1043.2
82.5°	1948.9	1617.7	1751.8	1458.5	1845.5	1607.2	1283.1	436.3	379.0	360.4
85°	1267.8	884.0	460.6	308.7	635.9	1027.0	286.8	118.8	91.3	72.7
87.5°	437.1	225.4	22.6	9.7	67.9	191.5	10.5	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

(END OF REPORT)