

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: P324604

Luminaire Tested: **GLEON-SA0B-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324604  
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-SA0B-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 800mA 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: 30824 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

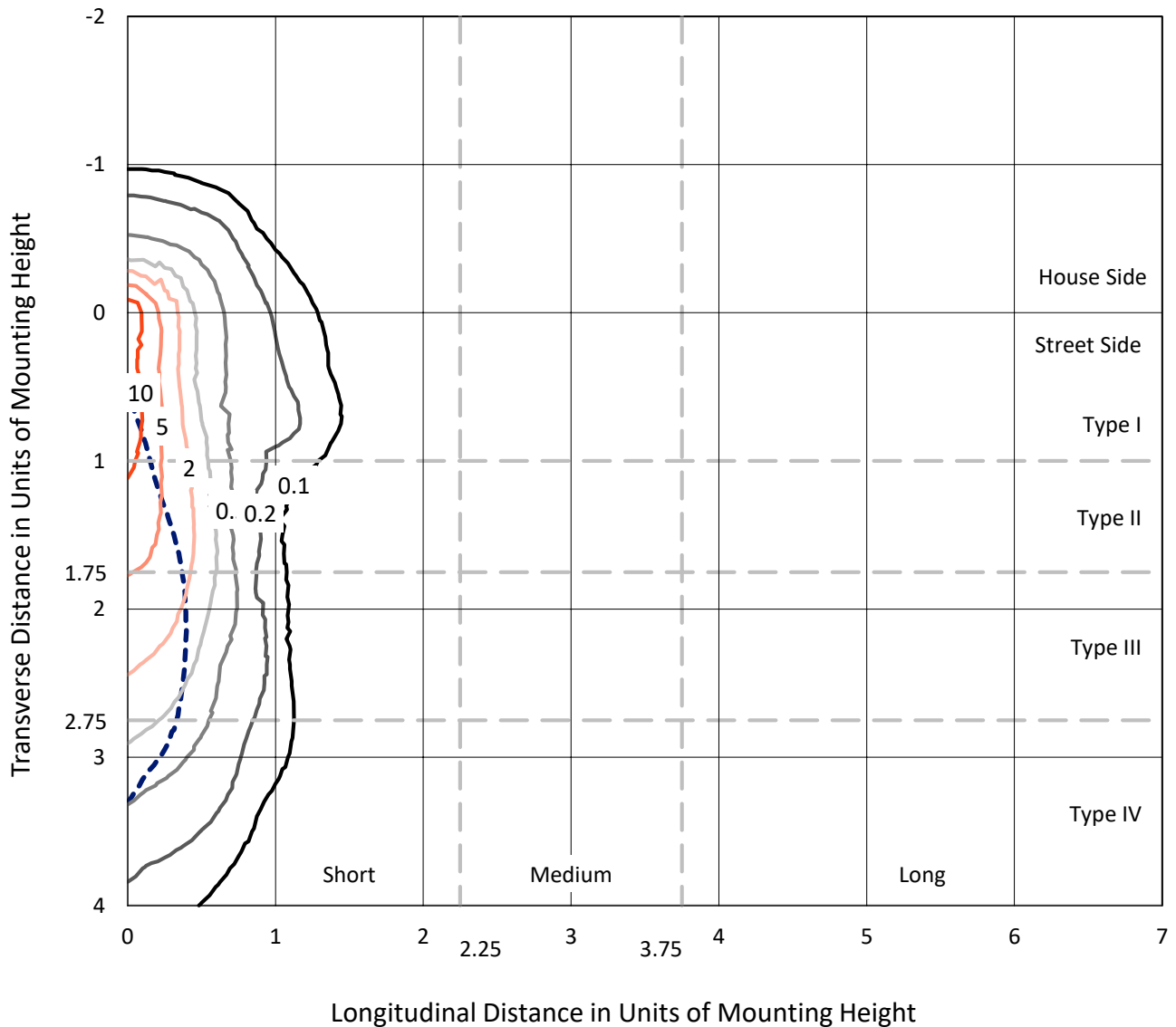
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

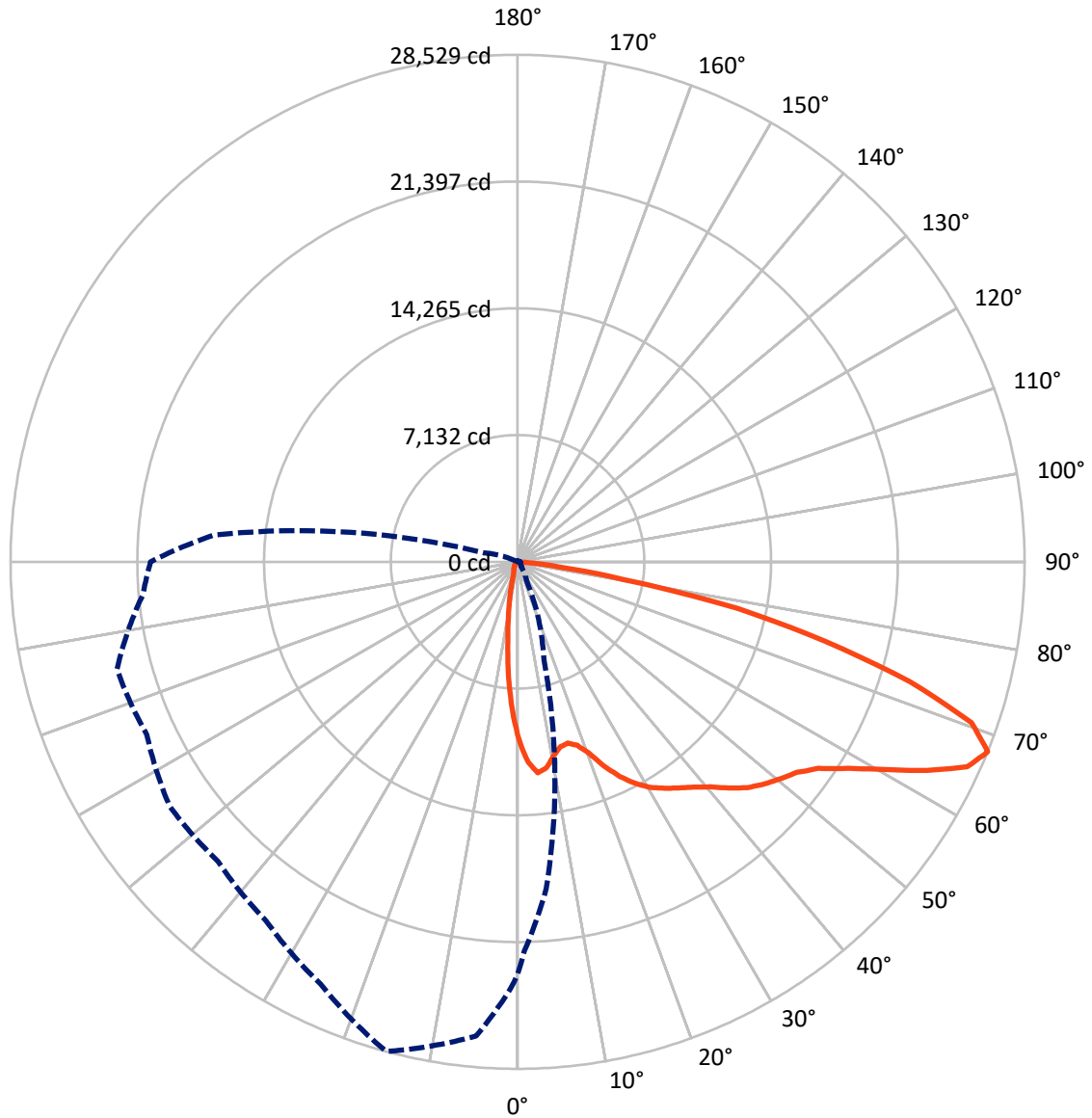
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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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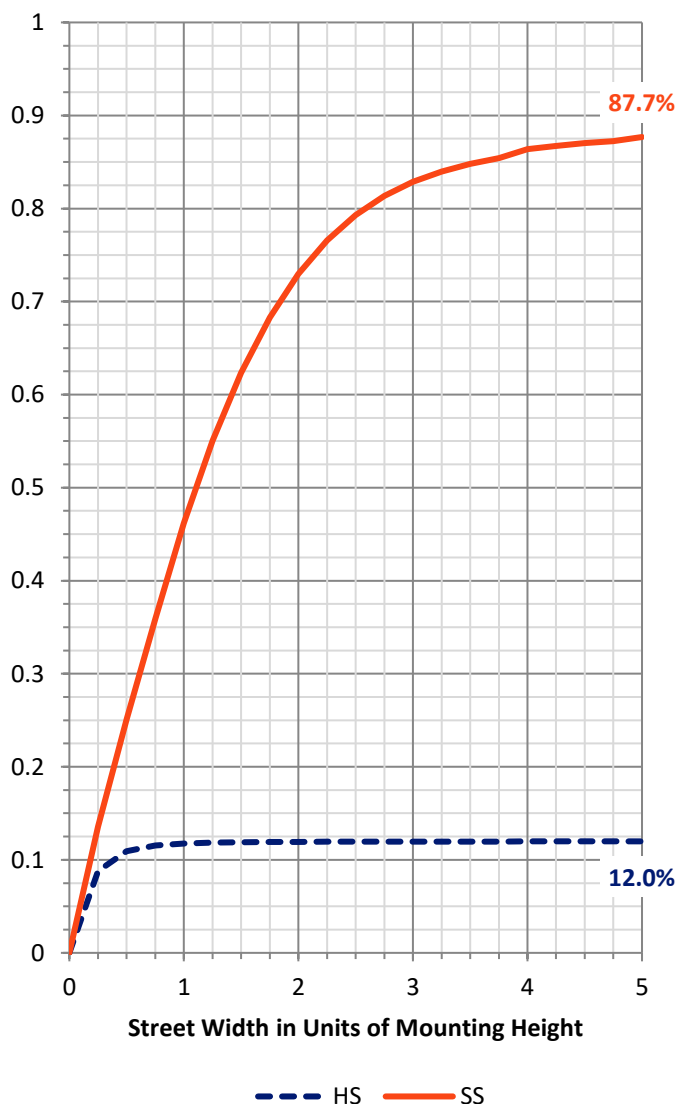
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3730.7	0.0	3730.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	27093.3	0.0	27093.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	30824.0	0.0	30824.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.6	2.5
10°-20°	1533.9	5.0
20°-30°	2178.2	7.1
30°-40°	3217.3	10.4
40°-50°	4640.0	15.1
50°-60°	6513.6	21.1
60°-70°	7593.0	24.6
70°-80°	3881.7	12.6
80°-90°	495.7	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°	30824.0	100.0
0°-180°	30824.0	100.0

**Coefficient of Utilization**

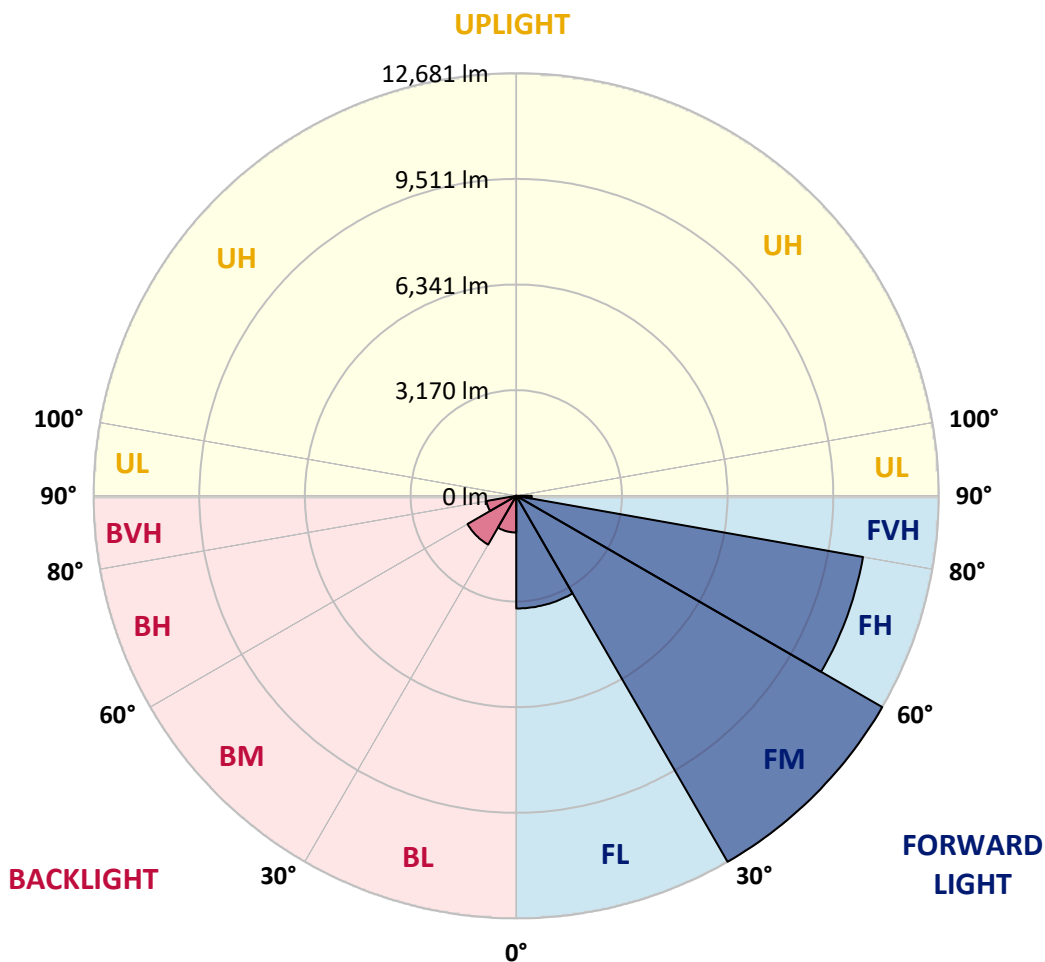


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.8	11.0			
FM (30°-60°)	12681.5	41.1			
FH (60°-80°)	10565.4	34.3			G4/12000
FVH (80°-90°)	465.6	1.5			G3/500
BL (0°-30°)	1101.9	3.6	B3/2500		
BM (30°-60°)	1689.4	5.5	B2/2500		
BH (60°-80°)	909.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	30.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9
2.5°	10994.4	10909.7	10816.3	10511.1	10227.8	9903.6	9639.3	9455.3	9224.6	8925.2	8849.3
5°	10915.6	10825.0	10531.5	9852.5	9258.2	8679.9	8122.1	7795.0	7389.0	6977.2	6875.0
7.5°	10122.6	10027.7	9604.2	8674.0	7873.8	7038.5	6314.2	5865.9	5407.4	5030.7	4830.6
10°	9297.6	9193.9	8717.9	7589.1	6603.4	5848.4	5316.9	4889.0	4455.3	4052.3	3731.0
12.5°	8729.5	8593.7	8076.8	6797.6	5938.9	5426.4	4929.9	4417.3	3830.3	3398.1	3044.7
15°	8491.5	8336.7	7790.6	6492.4	5703.8	5102.2	4455.3	3825.9	3138.1	2643.1	2318.9
17.5°	8675.5	8474.0	7888.4	6471.9	5408.9	4589.6	3771.9	3033.0	2286.8	1785.9	1555.2
20°	9300.5	9036.2	8292.9	6466.1	5051.1	3980.7	2943.9	2108.6	1507.0	1212.0	1090.8
22.5°	10284.7	9935.7	8874.1	6512.8	4681.6	3341.1	2126.2	1432.5	1131.7	978.4	906.8
25°	11473.4	11068.9	9710.8	6677.8	4357.5	2719.0	1545.0	1131.7	955.0	842.6	782.7
27.5°	12603.6	12275.1	10768.1	6915.9	4106.3	2216.7	1254.4	959.4	816.3	741.8	693.6
30°	13732.4	13319.2	11853.1	7199.2	3804.0	1876.5	1102.5	874.7	731.6	652.7	622.1
32.5°	14553.1	14210.0	12702.9	7403.6	3481.3	1654.5	985.7	800.2	683.4	603.1	557.8
35°	15518.4	15129.9	13431.6	7448.9	3273.9	1514.3	886.4	719.9	592.9	521.3	473.1
37.5°	16561.0	16077.6	14272.7	7349.6	3111.8	1445.7	811.9	683.4	553.4	480.4	429.3
40°	17714.6	17168.5	15080.3	7206.5	2952.7	1422.3	755.0	655.7	522.8	448.3	395.7
42.5°	18929.6	18285.6	15779.7	7056.1	2851.9	1342.0	749.1	627.9	499.4	419.1	366.5
45°	19950.3	19297.6	16498.2	7006.4	2780.4	1254.4	773.9	608.9	483.4	395.7	344.6
47.5°	20763.7	20146.0	17234.2	7117.4	2739.5	1174.1	705.3	633.8	474.6	375.3	325.6
50°	21734.8	21035.3	18271.0	7448.9	2679.6	1093.7	638.1	725.8	474.6	362.1	309.6
52.5°	22952.6	22260.5	19427.5	7962.9	2559.9	982.8	573.9	727.2	479.0	344.6	289.1
55°	24484.5	23982.1	21079.1	8526.6	2368.6	819.2	496.5	625.0	461.4	312.5	270.2
57.5°	25953.5	25543.2	22584.6	8912.1	2113.0	639.6	432.2	503.8	422.0	274.5	240.9
59°	26355.1	25906.8	23136.6	8929.6	1921.7	557.8	400.1	416.2	413.3	257.0	223.4
60°	26355.1	25879.0	23295.8	8836.1	1783.0	512.6	379.7	370.9	430.8	245.3	213.2
62.5°	25877.6	25208.8	22778.9	8203.8	1454.4	436.6	331.5	306.7	387.0	220.5	188.4
65°	24884.6	23910.6	21017.8	7060.4	1296.7	400.1	286.2	251.2	268.7	194.2	165.0
67.5°	23228.6	21908.5	18478.3	5703.8	1233.9	389.9	246.8	213.2	203.0	166.5	144.6
70°	20312.4	18847.8	15395.7	4484.5	1179.9	385.5	207.4	179.6	163.6	140.2	122.7
72.5°	14783.8	13256.4	10930.2	3506.1	1147.8	394.3	166.5	150.4	134.3	109.5	94.9
75°	8456.5	7456.2	6143.4	2316.0	978.4	376.8	128.5	125.6	96.4	78.9	65.7
77.5°	4369.1	4236.3	3681.4	889.3	468.7	165.0	84.7	73.0	57.0	48.2	39.4
80°	1885.2	1864.8	1613.6	257.0	124.1	92.0	48.2	30.7	26.3	20.4	16.1
82.5°	651.3	651.3	573.9	86.2	55.5	45.3	5.8	0.0	0.0	0.0	0.0
85°	131.4	147.5	103.7	0.0	19.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9
2.5°	8757.3	8580.6	8568.9	8457.9	8319.2	8256.4	8219.9	8284.1	8363.0	8371.8	8490.0
5°	6797.6	6612.1	6689.5	6492.4	6531.8	6492.4	6428.1	6439.8	6474.9	6365.3	6501.2
7.5°	4773.6	4633.5	4722.5	4670.0	4740.1	4767.8	4728.4	4670.0	4497.7	4477.2	4595.5
10°	3598.1	3439.0	3344.0	3244.7	3266.6	3311.9	3297.3	3255.0	3145.4	3151.3	3265.2
12.5°	2891.3	2713.2	2524.8	2281.0	2221.1	2254.7	2221.1	2196.3	2091.1	2099.9	2200.6
15°	2193.3	2047.3	1850.2	1654.5	1547.9	1558.1	1464.7	1398.9	1333.2	1254.4	1315.7
17.5°	1480.7	1391.6	1333.2	1274.8	1147.8	1118.6	1000.3	873.2	823.6	787.1	813.4
20°	1048.5	1000.3	976.9	974.0	901.0	864.5	749.1	670.3	645.4	638.1	654.2
22.5°	876.2	841.1	807.5	788.5	752.0	709.7	622.1	582.7	565.1	556.4	568.0
25°	762.3	736.0	700.9	668.8	654.2	608.9	546.1	516.9	505.3	496.5	502.3
27.5°	677.6	654.2	613.3	592.9	581.2	541.8	487.7	464.4	454.1	451.2	449.8
30°	610.4	588.5	550.5	527.2	506.7	471.7	439.5	416.2	406.0	403.0	400.1
32.5°	543.2	525.7	500.9	477.5	455.6	423.5	395.7	376.8	360.7	357.8	356.3
35°	458.5	441.0	427.9	426.4	406.0	375.3	354.8	330.0	316.9	312.5	314.0
37.5°	407.4	384.1	354.8	365.1	359.2	337.3	309.6	284.8	271.6	268.7	268.7
40°	375.3	350.5	316.9	299.4	316.9	312.5	268.7	243.9	230.7	229.3	226.3
42.5°	344.6	319.8	281.8	252.6	261.4	274.5	232.2	208.8	195.7	192.8	188.4
45°	322.7	296.4	254.1	220.5	203.0	230.7	198.6	169.4	162.1	156.2	153.3
47.5°	302.3	277.5	229.3	191.3	162.1	166.5	159.2	138.7	130.0	124.1	122.7
50°	284.8	258.5	207.4	163.6	134.3	122.7	128.5	109.5	102.2	96.4	93.5
52.5°	264.3	239.5	184.0	141.6	112.4	96.4	97.8	86.2	78.9	74.5	73.0
55°	248.2	223.4	165.0	124.1	99.3	78.9	70.1	67.2	62.8	59.9	58.4
57.5°	226.3	203.0	146.0	105.1	84.7	64.3	54.0	54.0	52.6	49.6	48.2
59°	213.2	192.8	134.3	94.9	77.4	55.5	48.2	49.6	48.2	45.3	43.8
60°	203.0	184.0	125.6	87.6	73.0	51.1	43.8	46.7	45.3	42.3	40.9
62.5°	179.6	166.5	108.1	73.0	64.3	40.9	36.5	39.4	39.4	38.0	36.5
65°	157.7	143.1	92.0	61.3	59.9	35.0	29.2	35.0	36.5	33.6	30.7
67.5°	137.3	122.7	80.3	49.6	55.5	27.7	21.9	29.2	39.4	30.7	27.7
70°	116.8	102.2	62.8	39.4	58.4	19.0	17.5	26.3	46.7	33.6	26.3
72.5°	90.5	78.9	43.8	29.2	62.8	13.1	13.1	21.9	52.6	36.5	24.8
75°	62.8	51.1	26.3	17.5	51.1	8.8	8.8	20.4	49.6	33.6	23.4
77.5°	36.5	27.7	8.8	1.5	26.3	0.0	1.5	14.6	35.0	20.4	10.2
80°	13.1	5.8	0.0	0.0	16.1	0.0	0.0	0.0	2.9	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°	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9
2.5°	8520.7	8717.9	8894.5	9161.8	9478.7	9843.7	10157.7	10495.0	10811.9	10943.3	11033.8
5°	6528.9	6772.8	7057.5	7450.3	7973.1	8617.1	9220.2	9902.1	10635.2	11001.7	11346.3
7.5°	4615.9	4864.2	5217.6	5635.2	6267.5	7034.2	7822.7	8764.6	9757.6	10337.3	10908.3
10°	3319.2	3624.4	3954.4	4525.4	5167.9	5895.1	6707.0	7758.4	8865.3	9507.9	10195.7
12.5°	2259.0	2606.6	3106.0	3745.6	4500.6	5213.2	5918.5	6921.7	8206.8	8843.4	9580.9
15°	1355.1	1547.9	2076.5	2816.9	3742.7	4630.5	5403.0	6409.2	7778.9	8558.7	9325.3
17.5°	835.3	924.4	1212.0	1819.5	2792.0	3915.0	4973.7	6235.4	7840.2	8789.4	9610.1
20°	665.9	700.9	792.9	1074.8	1850.2	3126.5	4490.4	6200.3	8341.1	9509.3	10389.9
22.5°	578.3	611.9	673.2	781.2	1163.8	2340.8	4031.8	6232.5	9059.6	10588.5	11616.5
25°	509.6	538.8	597.3	686.3	852.8	1648.7	3541.2	6375.6	9995.6	11927.5	13019.8
27.5°	455.6	480.4	534.5	616.2	731.6	1150.7	2984.8	6549.3	11105.4	13297.3	14375.0
30°	406.0	427.9	476.1	552.0	635.2	884.9	2374.4	6667.6	12216.7	14375.0	15343.1
32.5°	363.6	379.7	423.5	487.7	552.0	705.3	1804.9	6648.6	13041.7	15271.6	16039.7
35°	319.8	335.9	373.8	429.3	480.4	582.7	1419.4	6293.8	13760.2	16201.8	16837.0
37.5°	271.6	292.1	328.6	378.2	413.3	512.6	1147.8	5865.9	14488.9	17264.8	17726.3
40°	230.7	251.2	283.3	337.3	359.2	486.3	882.0	5344.6	15308.1	18453.5	18701.8
42.5°	191.3	210.3	243.9	290.6	338.8	419.1	652.7	4748.8	16095.2	19469.9	19591.1
45°	154.8	173.8	208.8	255.5	362.1	347.5	505.3	4110.7	16730.4	20315.4	20354.8
47.5°	122.7	140.2	176.7	240.9	337.3	277.5	360.7	3609.8	17263.4	20975.4	20871.7
50°	94.9	109.5	147.5	276.0	295.0	229.3	273.1	3443.3	17740.9	21384.3	21115.6
52.5°	74.5	87.6	121.2	258.5	229.3	189.8	229.3	3599.6	18395.1	21723.1	21252.9
55°	59.9	73.0	94.9	147.5	156.2	160.6	195.7	3745.6	19523.9	22517.5	22063.3
57.5°	49.6	62.8	77.4	103.7	118.3	135.8	173.8	3761.7	20854.2	23837.6	23408.2
59°	45.3	57.0	70.1	92.0	103.7	124.1	163.6	3674.1	21323.0	24318.0	24103.3
60°	42.3	54.0	65.7	84.7	96.4	116.8	157.7	3590.8	21343.4	24300.5	24399.8
62.5°	36.5	48.2	58.4	71.6	81.8	99.3	141.6	3282.7	20478.9	23504.6	24221.6
65°	32.1	42.3	52.6	61.3	70.1	89.1	128.5	2720.5	19002.6	22221.0	23002.3
67.5°	29.2	36.5	48.2	54.0	62.8	78.9	113.9	1939.2	17158.2	20651.2	21157.9
70°	26.3	35.0	43.8	49.6	57.0	68.6	97.8	1114.2	14488.9	18352.8	18713.4
72.5°	24.8	33.6	39.4	46.7	51.1	61.3	89.1	524.2	10608.9	14702.1	15643.9
75°	21.9	30.7	36.5	43.8	48.2	55.5	75.9	251.2	7056.1	10639.6	11710.0
77.5°	13.1	24.8	33.6	39.4	42.3	48.2	62.8	144.6	4503.5	7364.2	8674.0
80°	0.0	8.8	24.8	33.6	36.5	40.9	48.2	113.9	2409.5	4207.1	5049.6
82.5°	0.0	0.0	17.5	26.3	24.8	27.7	36.5	71.6	1086.4	2749.7	3098.7
85°	0.0	0.0	5.8	20.4	17.5	13.1	24.8	24.8	238.0	1391.6	1736.3
87.5°	0.0	0.0	0.0	1.5	8.8	5.8	10.2	2.9	1.5	103.7	420.6
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: P324604

CATALOG NUMBER: GLEON-SA0B-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9	10040.9
2.5°	11350.7	11458.8	11641.3	11727.5	11685.1	11505.5	11290.9	11071.8	10943.3	10994.4
5°	12048.7	12605.1	12926.4	13033.0	12854.8	12451.8	11924.6	11229.5	10982.7	10915.6
7.5°	12048.7	13095.8	13758.7	13875.5	13478.4	12688.3	11699.7	10614.7	10254.1	10122.6
10°	11625.3	13050.5	13974.8	14160.3	13605.4	12424.0	11099.6	9861.2	9433.4	9297.6
12.5°	11147.8	12682.5	13656.5	13912.1	13456.4	12161.2	10683.4	9351.6	8847.8	8729.5
15°	10854.2	12229.8	13035.9	13221.3	13028.6	12007.9	10584.1	9198.3	8605.4	8491.5
17.5°	10959.4	11879.3	12169.9	12278.0	12408.0	11953.8	10854.2	9534.1	8783.6	8675.5
20°	11355.1	11509.9	11359.5	11495.3	11845.8	12006.4	11498.2	10346.1	9445.1	9300.5
22.5°	12026.8	11318.6	10896.6	10950.6	11377.0	12180.2	12482.4	11505.5	10465.8	10284.7
25°	12809.5	11473.4	10639.6	10591.4	11029.5	12409.4	13382.0	12767.2	11673.4	11473.4
27.5°	13793.8	11820.9	10587.0	10538.8	10908.3	12624.1	14129.6	14014.3	12945.4	12603.6
30°	14553.1	12162.6	10743.3	10632.3	11029.5	12773.0	14729.8	15073.0	13958.8	13732.4
32.5°	15097.8	12565.7	10997.3	10836.7	11371.2	13030.0	15192.7	16042.6	14896.3	14553.1
35°	15512.5	13003.8	11407.7	11143.4	11841.4	13419.9	15626.4	17075.0	15893.6	15518.4
37.5°	15901.0	13618.5	12048.7	11733.3	12578.8	14047.9	16084.9	18246.2	17009.3	16561.0
40°	16442.7	14315.1	13037.3	12757.0	13818.6	14903.6	16657.4	19466.9	18278.3	17714.6
42.5°	16984.5	15062.8	14049.3	14125.3	15365.0	15943.3	17396.3	20757.8	19531.2	18929.6
45°	17479.5	15833.8	15490.6	15841.1	16800.5	17083.8	18130.8	21504.0	20531.5	19950.3
47.5°	17920.5	16797.6	16923.1	17856.3	18433.1	18116.2	18679.9	22148.0	21276.2	20763.7
50°	18433.1	18044.6	18811.3	20131.4	20312.4	19050.8	19179.3	22910.3	22146.6	21734.8
52.5°	18993.8	19358.9	20902.4	22066.2	22007.8	20065.7	19681.6	23764.5	23339.6	22952.6
55°	19630.5	20420.5	22743.8	23877.0	23827.3	21198.8	20514.0	24820.3	24834.9	24484.5
57.5°	20575.3	21334.6	23993.8	25341.6	25424.9	22507.2	21924.6	26003.1	26187.1	25953.5
59°	21252.9	21927.5	24488.8	25953.5	26292.3	23519.2	22955.5	26689.5	26568.3	26355.1
60°	21755.2	22304.3	24734.2	26273.3	26796.1	24205.5	23716.3	27092.5	26613.5	26355.1
62.5°	22997.9	23124.9	25176.6	26635.4	27375.8	25730.1	25857.1	27778.8	26299.6	25877.6
65°	23577.6	23643.3	25170.8	25987.1	26815.1	26917.3	27799.3	27799.3	25532.9	24884.6
67.5°	23335.2	23018.3	23922.2	23837.6	24664.1	26212.0	28529.4	26780.0	24066.8	23228.6
70°	21363.8	20144.5	19742.9	19779.4	20411.7	22799.3	27083.7	23780.6	21292.3	20312.4
72.5°	17775.9	14851.0	13859.5	14991.2	15156.2	17521.9	23081.1	17908.8	15702.4	14783.8
75°	14297.6	10468.7	8856.6	10051.1	10331.5	12822.7	17854.8	11153.6	9172.0	8456.5
77.5°	10271.6	7514.6	6355.1	6271.9	6634.0	8132.3	12669.4	5613.3	4681.6	4369.1
80°	5835.3	4946.0	5325.6	5024.8	5207.3	5084.7	6019.3	2462.0	2016.6	1885.2
82.5°	3522.2	2923.5	3165.9	2635.8	3335.3	2904.5	2318.9	788.5	684.9	651.3
85°	2291.2	1597.5	832.4	557.8	1149.2	1856.0	518.4	214.7	165.0	131.4
87.5°	790.0	407.4	40.9	17.5	122.7	346.1	19.0	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

(END OF REPORT)