

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: P324624

Luminaire Tested: **GLEON-SA0D-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324624  
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-SA0D-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 41851 lumens  
Efficiency: N/A  
Efficacy: 65.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

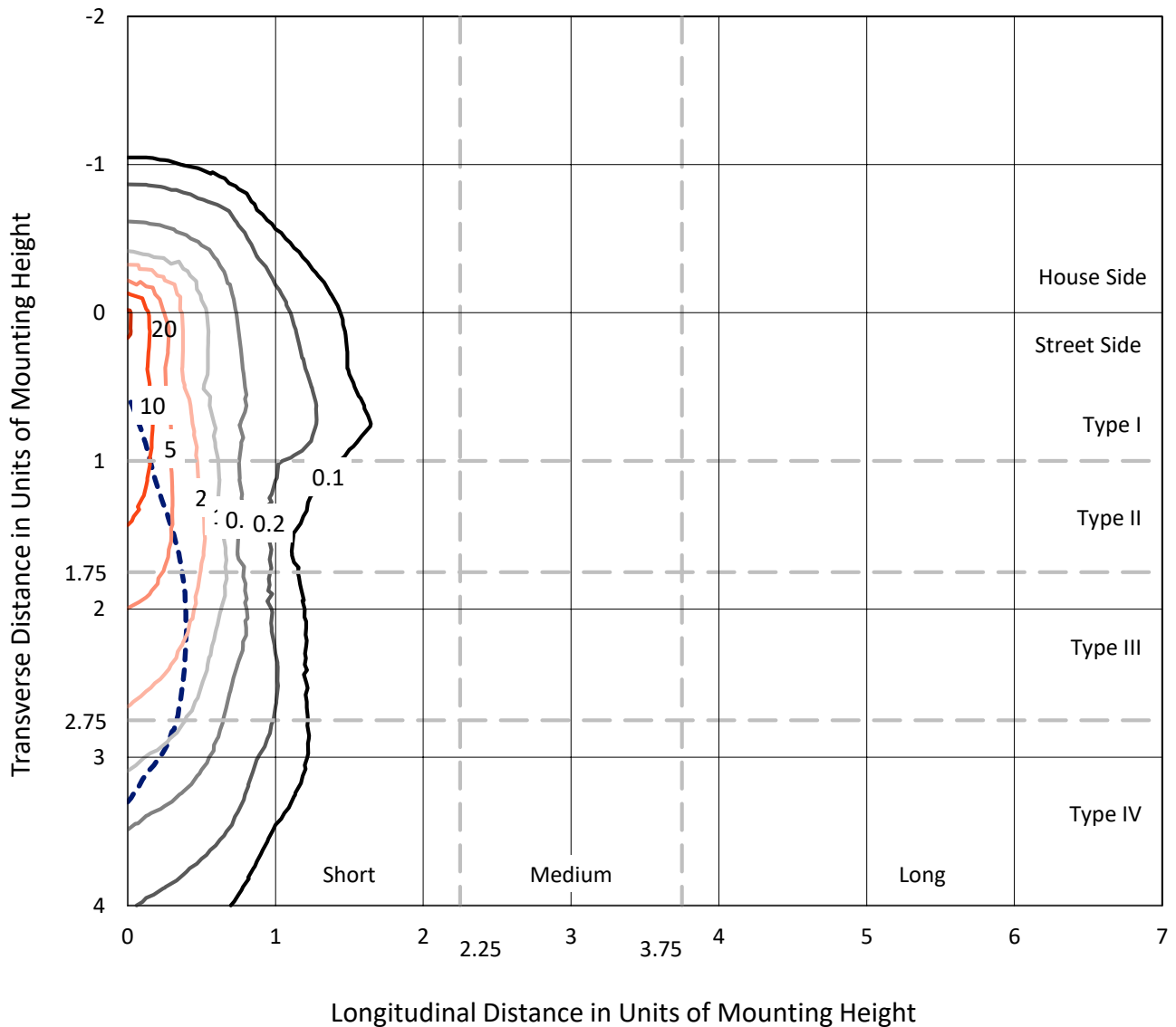
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

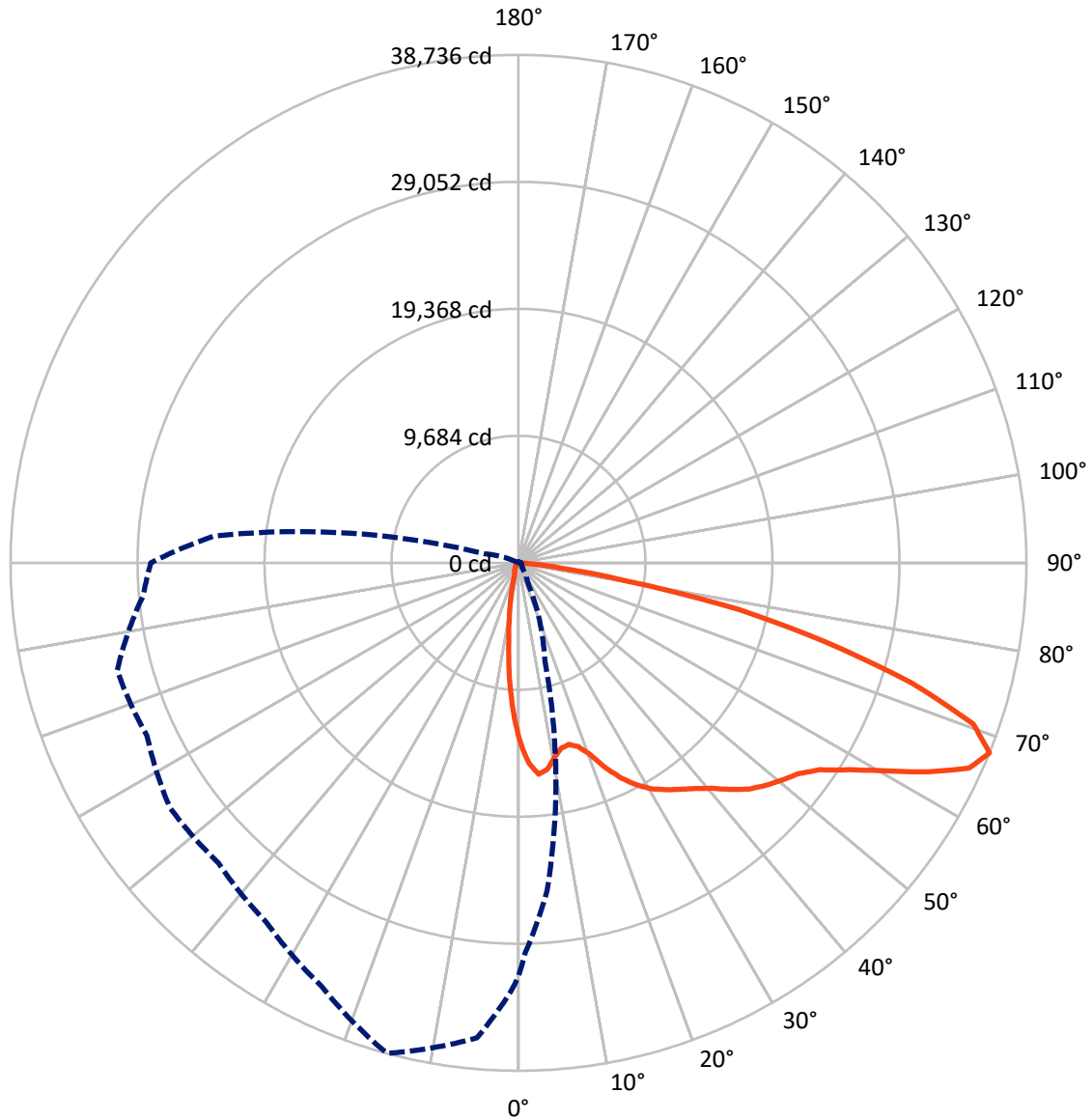
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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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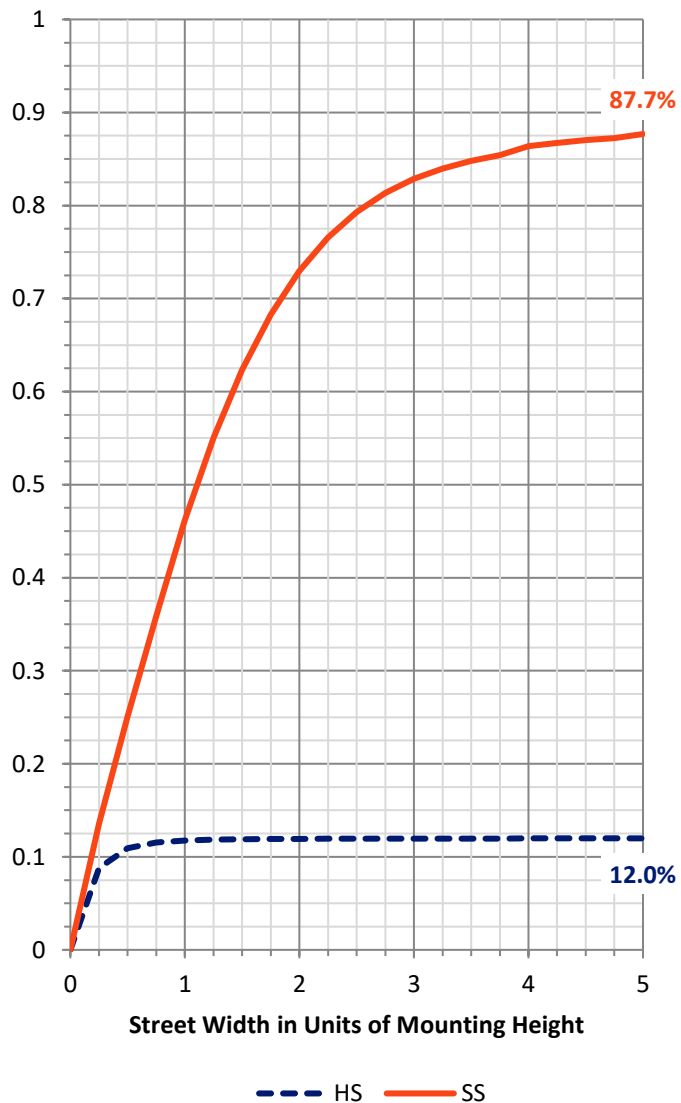
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5065.3	0.0	5065.3
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	36785.7	0.0	36785.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	41851.0	0.0	41851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.3	2.5
10°-20°	2082.7	5.0
20°-30°	2957.4	7.1
30°-40°	4368.2	10.4
40°-50°	6299.9	15.1
50°-60°	8843.8	21.1
60°-70°	10309.3	24.6
70°-80°	5270.3	12.6
80°-90°	673.1	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°	41851.0	100.0
0°-180°	41851.0	100.0

**Coefficient of Utilization**

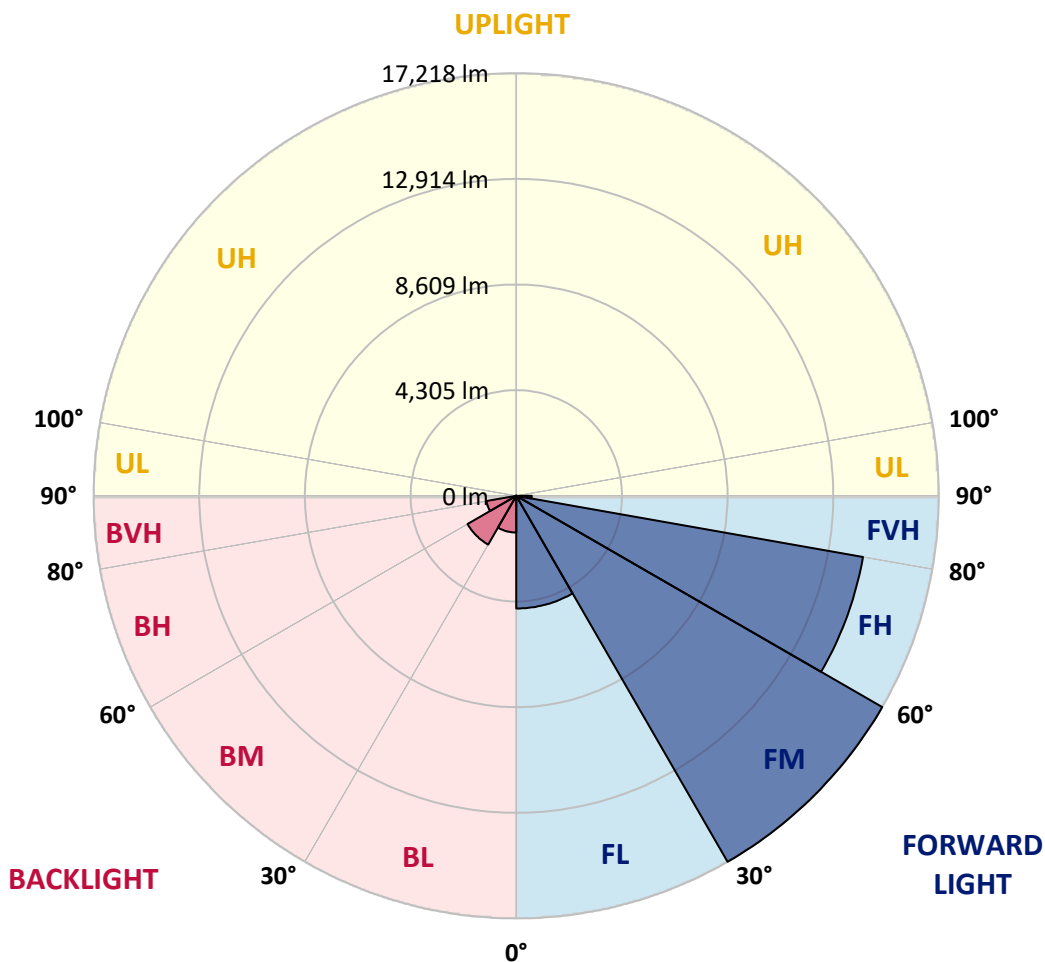


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4590.2	11.0			
FM (30°-60°)	17218.2	41.1			
FH (60°-80°)	14345.0	34.3			G5
FVH (80°-90°)	632.2	1.5			G4/750
BL (0°-30°)	1496.1	3.6	B3/2500		
BM (30°-60°)	2293.8	5.5	B2/2500		
BH (60°-80°)	1234.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	40.9	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9
2.5°	14927.6	14812.6	14685.7	14271.3	13886.7	13446.5	13087.6	12837.8	12524.6	12118.1	12015.0
5°	14820.5	14697.6	14299.1	13377.1	12570.2	11785.0	11027.6	10583.5	10032.3	9473.2	9334.4
7.5°	13743.9	13615.0	13040.1	11777.1	10690.6	9556.5	8573.1	7964.4	7341.9	6830.3	6558.7
10°	12623.7	12482.9	11836.6	10304.0	8965.7	7940.6	7218.9	6638.0	6049.1	5501.9	5065.7
12.5°	11852.4	11668.1	10966.2	9229.4	8063.5	7367.6	6693.5	5997.6	5200.6	4613.7	4133.9
15°	11529.3	11319.1	10577.6	8815.0	7744.3	6927.5	6049.1	5194.6	4260.8	3588.6	3148.5
17.5°	11779.1	11505.5	10710.4	8787.2	7343.8	6231.6	5121.3	4118.0	3104.9	2424.8	2111.6
20°	12627.7	12268.8	11259.6	8779.3	6858.1	5404.8	3997.1	2863.0	2046.1	1645.6	1481.1
22.5°	13964.0	13490.1	12048.7	8842.7	6356.5	4536.4	2886.8	1945.0	1536.6	1328.4	1231.2
25°	15577.9	15028.7	13184.8	9066.8	5916.3	3691.7	2097.7	1536.6	1296.7	1144.0	1062.7
27.5°	17112.5	16666.4	14620.3	9390.0	5575.3	3009.7	1703.1	1302.6	1108.3	1007.2	941.8
30°	18645.1	18084.0	16093.4	9774.6	5164.9	2547.7	1496.9	1187.6	993.3	886.3	844.6
32.5°	19759.4	19293.4	17247.3	10052.2	4726.7	2246.4	1338.3	1086.5	927.9	818.8	757.4
35°	21069.9	20542.5	18236.7	10113.6	4445.2	2056.0	1203.5	977.5	805.0	707.8	642.4
37.5°	22485.5	21829.3	19378.7	9978.8	4225.1	1962.9	1102.4	927.9	751.4	652.3	582.9
40°	24051.9	23310.3	20475.1	9784.5	4009.0	1931.1	1025.0	890.2	709.8	608.7	537.3
42.5°	25701.4	24827.1	21424.8	9580.3	3872.2	1822.1	1017.1	852.6	678.1	569.0	497.7
45°	27087.3	26201.1	22400.3	9512.9	3775.0	1703.1	1050.8	826.8	656.3	537.3	467.9
47.5°	28191.7	27353.0	23399.6	9663.6	3719.5	1594.1	957.6	860.5	644.4	509.5	442.1
50°	29510.2	28560.5	24807.3	10113.6	3638.2	1485.0	866.4	985.4	644.4	491.7	420.3
52.5°	31163.7	30223.9	26377.5	10811.5	3475.6	1334.3	779.2	987.4	650.3	467.9	392.6
55°	33243.5	32561.5	28619.9	11576.8	3215.9	1112.3	674.1	848.6	626.5	424.3	366.8
57.5°	35238.1	34681.0	30664.1	12100.3	2868.9	868.4	586.9	684.0	573.0	372.7	327.1
59°	35783.4	35174.7	31413.5	12124.1	2609.2	757.4	543.3	565.1	561.1	349.0	303.3
60°	35783.4	35137.0	31629.6	11997.2	2420.8	695.9	515.5	503.6	584.9	333.1	289.5
62.5°	35135.0	34226.9	30927.8	11138.7	1974.7	592.8	450.1	416.4	525.4	299.4	255.8
65°	33786.8	32464.3	28536.7	9586.2	1760.6	543.3	388.6	341.0	364.8	263.7	224.0
67.5°	31538.4	29746.1	25088.8	7744.3	1675.4	529.4	335.1	289.5	275.6	226.0	196.3
70°	27579.0	25590.4	20903.4	6088.8	1602.0	523.4	281.5	243.9	222.1	190.3	166.5
72.5°	20072.6	17998.7	14840.3	4760.4	1558.4	535.3	226.0	204.2	182.4	148.7	128.9
75°	11481.7	10123.5	8341.1	3144.5	1328.4	511.5	174.5	170.5	130.9	107.1	89.2
77.5°	5932.2	5751.7	4998.3	1207.5	636.4	224.0	115.0	99.1	77.3	65.4	53.5
80°	2559.6	2531.9	2190.9	349.0	168.5	124.9	65.4	41.6	35.7	27.8	21.8
82.5°	884.3	884.3	779.2	117.0	75.3	61.5	7.9	0.0	0.0	0.0	0.0
85°	178.4	200.3	140.8	0.0	25.8	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°	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9
2.5°	11890.1	11650.2	11634.3	11483.7	11295.3	11210.1	11160.5	11247.7	11354.8	11366.7	11527.3
5°	9229.4	8977.6	9082.6	8815.0	8868.5	8815.0	8727.7	8743.6	8791.2	8642.5	8826.9
7.5°	6481.4	6291.0	6412.0	6340.6	6435.8	6473.4	6419.9	6340.6	6106.6	6078.9	6239.5
10°	4885.3	4669.2	4540.3	4405.5	4435.2	4496.7	4476.9	4419.4	4270.7	4278.6	4433.3
12.5°	3925.7	3683.8	3428.0	3096.9	3015.7	3061.3	3015.7	2981.9	2839.2	2851.1	2987.9
15°	2978.0	2779.7	2512.1	2246.4	2101.6	2115.5	1988.6	1899.4	1810.2	1703.1	1786.4
17.5°	2010.4	1889.5	1810.2	1730.9	1558.4	1518.7	1358.1	1185.6	1118.2	1068.7	1104.4
20°	1423.6	1358.1	1326.4	1322.4	1223.3	1173.7	1017.1	910.0	876.3	866.4	888.2
22.5°	1189.6	1142.0	1096.4	1070.6	1021.1	963.6	844.6	791.1	767.3	755.4	771.3
25°	1035.0	999.3	951.7	908.1	888.2	826.8	741.5	701.9	686.0	674.1	682.0
27.5°	920.0	888.2	832.7	805.0	789.1	735.6	662.2	630.5	616.6	612.6	610.7
30°	828.8	799.0	747.5	715.7	688.0	640.4	596.8	565.1	551.2	547.2	543.3
32.5°	737.6	713.8	680.1	648.3	618.6	575.0	537.3	511.5	489.7	485.8	483.8
35°	622.6	598.8	580.9	578.9	551.2	509.5	481.8	448.1	430.2	424.3	426.3
37.5°	553.2	521.4	481.8	495.7	487.7	458.0	420.3	386.6	368.8	364.8	364.8
40°	509.5	475.8	430.2	406.4	430.2	424.3	364.8	331.1	313.3	311.3	307.3
42.5°	467.9	434.2	382.7	343.0	354.9	372.7	315.2	283.5	265.7	261.7	255.8
45°	438.2	402.5	345.0	299.4	275.6	313.3	269.6	230.0	220.1	212.1	208.2
47.5°	410.4	376.7	311.3	259.7	220.1	226.0	216.1	188.4	176.5	168.5	166.5
50°	386.6	350.9	281.5	222.1	182.4	166.5	174.5	148.7	138.8	130.9	126.9
52.5°	358.9	325.2	249.8	192.3	152.7	130.9	132.8	117.0	107.1	101.1	99.1
55°	337.1	303.3	224.0	168.5	134.8	107.1	95.2	91.2	85.3	81.3	79.3
57.5°	307.3	275.6	198.3	142.8	115.0	87.2	73.4	73.4	71.4	67.4	65.4
59°	289.5	261.7	182.4	128.9	105.1	75.3	65.4	67.4	65.4	61.5	59.5
60°	275.6	249.8	170.5	119.0	99.1	69.4	59.5	63.4	61.5	57.5	55.5
62.5°	243.9	226.0	146.7	99.1	87.2	55.5	49.6	53.5	53.5	51.5	49.6
65°	214.1	194.3	124.9	83.3	81.3	47.6	39.7	47.6	49.6	45.6	41.6
67.5°	186.4	166.5	109.0	67.4	75.3	37.7	29.7	39.7	53.5	41.6	37.7
70°	158.6	138.8	85.3	53.5	79.3	25.8	23.8	35.7	63.4	45.6	35.7
72.5°	122.9	107.1	59.5	39.7	85.3	17.8	17.8	29.7	71.4	49.6	33.7
75°	85.3	69.4	35.7	23.8	69.4	11.9	11.9	27.8	67.4	45.6	31.7
77.5°	49.6	37.7	11.9	2.0	35.7	0.0	2.0	19.8	47.6	27.8	13.9
80°	17.8	7.9	0.0	0.0	21.8	0.0	0.0	0.0	4.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9
2.5°	11568.9	11836.6	12076.5	12439.3	12869.6	13365.2	13791.5	14249.5	14679.7	14858.2	14981.1
5°	8864.5	9195.7	9582.3	10115.6	10825.4	11699.8	12518.6	13444.5	14439.8	14937.5	15405.4
7.5°	6267.2	6604.3	7084.1	7651.1	8509.6	9550.6	10621.2	11900.0	13248.2	14035.4	14810.6
10°	4506.6	4921.0	5369.1	6144.3	7016.7	8004.1	9106.4	10534.0	12036.8	12909.2	13843.0
12.5°	3067.2	3539.1	4217.2	5085.6	6110.6	7078.2	8035.8	9397.9	11142.6	12007.1	13008.3
15°	1839.9	2101.6	2819.4	3824.6	5081.6	6287.1	7335.9	8702.0	10561.7	11620.5	12661.4
17.5°	1134.1	1255.0	1645.6	2470.4	3790.9	5315.6	6753.0	8466.0	10645.0	11933.7	13048.0
20°	904.1	951.7	1076.6	1459.3	2512.1	4244.9	6096.7	8418.4	11325.0	12911.2	14106.7
22.5°	785.1	830.7	914.0	1060.7	1580.2	3178.2	5474.2	8462.1	12300.5	14376.4	15772.2
25°	692.0	731.6	810.9	931.9	1157.9	2238.4	4808.0	8656.4	13571.4	16194.5	17677.5
27.5°	618.6	652.3	725.7	836.7	993.3	1562.3	4052.6	8892.3	15078.3	18054.3	19517.5
30°	551.2	580.9	646.4	749.5	862.5	1201.5	3223.8	9052.9	16587.1	19517.5	20832.0
32.5°	493.7	515.5	575.0	662.2	749.5	957.6	2450.6	9027.1	17707.3	20734.8	21777.7
35°	434.2	456.0	507.6	582.9	652.3	791.1	1927.2	8545.3	18682.8	21997.8	22860.3
37.5°	368.8	396.5	446.1	513.5	561.1	695.9	1558.4	7964.4	19672.1	23441.2	24067.7
40°	313.3	341.0	384.6	458.0	487.7	660.2	1197.5	7256.6	20784.4	25055.1	25392.1
42.5°	259.7	285.5	331.1	394.6	460.0	569.0	886.3	6447.7	21853.1	26435.0	26599.6
45°	210.2	235.9	283.5	347.0	491.7	471.9	686.0	5581.2	22715.5	27583.0	27636.5
47.5°	166.5	190.3	239.9	327.1	458.0	376.7	489.7	4901.2	23439.2	28479.2	28338.4
50°	128.9	148.7	200.3	374.7	400.5	311.3	370.8	4675.2	24087.5	29034.3	28669.5
52.5°	101.1	119.0	164.6	350.9	311.3	257.7	311.3	4887.3	24975.8	29494.3	28855.9
55°	81.3	99.1	128.9	200.3	212.1	218.1	265.7	5085.6	26508.4	30572.9	29956.3
57.5°	67.4	85.3	105.1	140.8	160.6	184.4	235.9	5107.4	28314.6	32365.2	31782.3
59°	61.5	77.3	95.2	124.9	140.8	168.5	222.1	4988.4	28951.0	33017.5	32726.1
60°	57.5	73.4	89.2	115.0	130.9	158.6	214.1	4875.4	28978.8	32993.7	33128.5
62.5°	49.6	65.4	79.3	97.2	111.0	134.8	192.3	4457.1	27805.1	31913.2	32886.7
65°	43.6	57.5	71.4	83.3	95.2	120.9	174.5	3693.7	25800.6	30170.4	31231.1
67.5°	39.7	49.6	65.4	73.4	85.3	107.1	154.6	2633.0	23296.5	28039.0	28727.0
70°	35.7	47.6	59.5	67.4	77.3	93.2	132.8	1512.8	19672.1	24918.3	25408.0
72.5°	33.7	45.6	53.5	63.4	69.4	83.3	120.9	711.8	14404.1	19961.6	21240.4
75°	29.7	41.6	49.6	59.5	65.4	75.3	103.1	341.0	9580.3	14445.8	15899.1
77.5°	17.8	33.7	45.6	53.5	57.5	65.4	85.3	196.3	6114.6	9998.6	11777.1
80°	0.0	11.9	33.7	45.6	49.6	55.5	65.4	154.6	3271.4	5712.1	6856.1
82.5°	0.0	0.0	23.8	35.7	33.7	37.7	49.6	97.2	1475.1	3733.4	4207.2
85°	0.0	0.0	7.9	27.8	23.8	17.8	33.7	33.7	323.2	1889.5	2357.4
87.5°	0.0	0.0	0.0	2.0	11.9	7.9	13.9	4.0	2.0	140.8	571.0
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: P324624

CATALOG NUMBER: GLEON-SA0D-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9	13632.9
2.5°	15411.3	15558.1	15805.9	15922.9	15865.4	15621.5	15330.1	15032.7	14858.2	14927.6
5°	16359.1	17114.5	17550.7	17695.4	17453.5	16906.3	16190.5	15246.8	14911.7	14820.5
7.5°	16359.1	17780.6	18680.8	18839.4	18300.1	17227.5	15885.2	14412.1	13922.4	13743.9
10°	15784.1	17719.2	18974.2	19226.0	18472.6	16868.6	15070.3	13389.0	12808.1	12623.7
12.5°	15135.8	17219.5	18542.0	18889.0	18270.4	16511.7	14505.3	12697.1	12013.0	11852.4
15°	14737.2	16604.9	17699.4	17951.2	17689.4	16303.6	14370.4	12488.9	11683.9	11529.3
17.5°	14880.0	16129.1	16523.6	16670.3	16846.8	16230.2	14737.2	12944.9	11925.8	11779.1
20°	15417.3	15627.5	15423.2	15607.6	16083.5	16301.6	15611.6	14047.3	12824.0	12627.7
22.5°	16329.3	15367.7	14794.7	14868.1	15447.0	16537.5	16947.9	15621.5	14209.8	13964.0
25°	17392.0	15577.9	14445.8	14380.4	14975.2	16848.8	18169.3	17334.5	15849.5	15577.9
27.5°	18728.4	16049.8	14374.4	14309.0	14810.6	17140.2	19184.4	19027.7	17576.4	17112.5
30°	19759.4	16513.7	14586.6	14435.9	14975.2	17342.5	19999.3	20465.2	18952.4	18645.1
32.5°	20498.9	17060.9	14931.5	14713.4	15439.1	17691.4	20627.8	21781.7	20225.3	19759.4
35°	21062.0	17655.7	15488.7	15129.8	16077.5	18220.8	21216.6	23183.4	21579.5	21069.9
37.5°	21589.4	18490.4	16359.1	15930.8	17078.8	19073.4	21839.2	24773.5	23094.2	22485.5
40°	22324.9	19436.2	17701.3	17320.7	18762.1	20235.2	22616.4	26431.1	24817.2	24051.9
42.5°	23060.5	20451.3	19075.3	19178.4	20861.7	21646.9	23619.6	28183.8	26518.3	25701.4
45°	23732.6	21498.2	21032.2	21508.1	22810.7	23195.3	24616.9	29196.9	27876.4	27087.3
47.5°	24331.4	22806.7	22977.2	24244.2	25027.3	24597.1	25362.4	30071.3	28887.6	28191.7
50°	25027.3	24499.9	25540.8	27333.2	27579.0	25866.0	26040.5	31106.2	30069.3	29510.2
52.5°	25788.7	26284.3	28380.0	29960.2	29880.9	27244.0	26722.5	32266.1	31689.1	31163.7
55°	26653.1	27725.8	30880.2	32418.7	32351.3	28782.5	27852.6	33699.6	33719.4	33243.5
57.5°	27935.9	28966.9	32577.4	34407.4	34520.4	30559.0	29767.9	35305.5	35555.3	35238.1
59°	28855.9	29771.9	33249.5	35238.1	35698.1	31933.0	31167.7	36237.4	36072.8	35783.4
60°	29537.9	30283.4	33582.6	35672.3	36382.1	32864.9	32200.7	36784.6	36134.3	35783.4
62.5°	31225.2	31397.7	34183.3	36164.0	37169.2	34934.8	35107.3	37716.5	35708.0	35135.0
65°	32012.3	32101.5	34175.4	35283.7	36407.9	36546.7	37744.2	37744.2	34667.1	33786.8
67.5°	31683.2	31252.9	32480.2	32365.2	33487.4	35589.0	38735.6	36360.3	32676.5	31538.4
70°	29006.6	27351.0	26805.8	26855.4	27713.9	30955.5	36772.7	32287.9	28909.4	27579.0
72.5°	24135.1	20163.8	18817.6	20354.2	20578.2	23790.1	31338.2	24315.5	21319.7	20072.6
75°	19412.4	14213.8	12024.9	13646.8	14027.4	17409.9	24242.2	15143.7	12453.2	11481.7
77.5°	13946.1	10202.9	8628.6	8515.6	9007.3	11041.5	17201.7	7621.4	6356.5	5932.2
80°	7922.8	6715.3	7230.8	6822.4	7070.2	6903.7	8172.6	3342.8	2738.1	2559.6
82.5°	4782.2	3969.3	4298.4	3578.7	4528.4	3943.5	3148.5	1070.6	929.9	884.3
85°	3110.8	2169.0	1130.1	757.4	1560.4	2520.0	703.9	291.5	224.0	178.4
87.5°	1072.6	553.2	55.5	23.8	166.5	469.9	25.8	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)