

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: P324301

Luminaire Tested: **GLEON-SA7D-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324301  
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-SA7D-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA 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: 29910 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

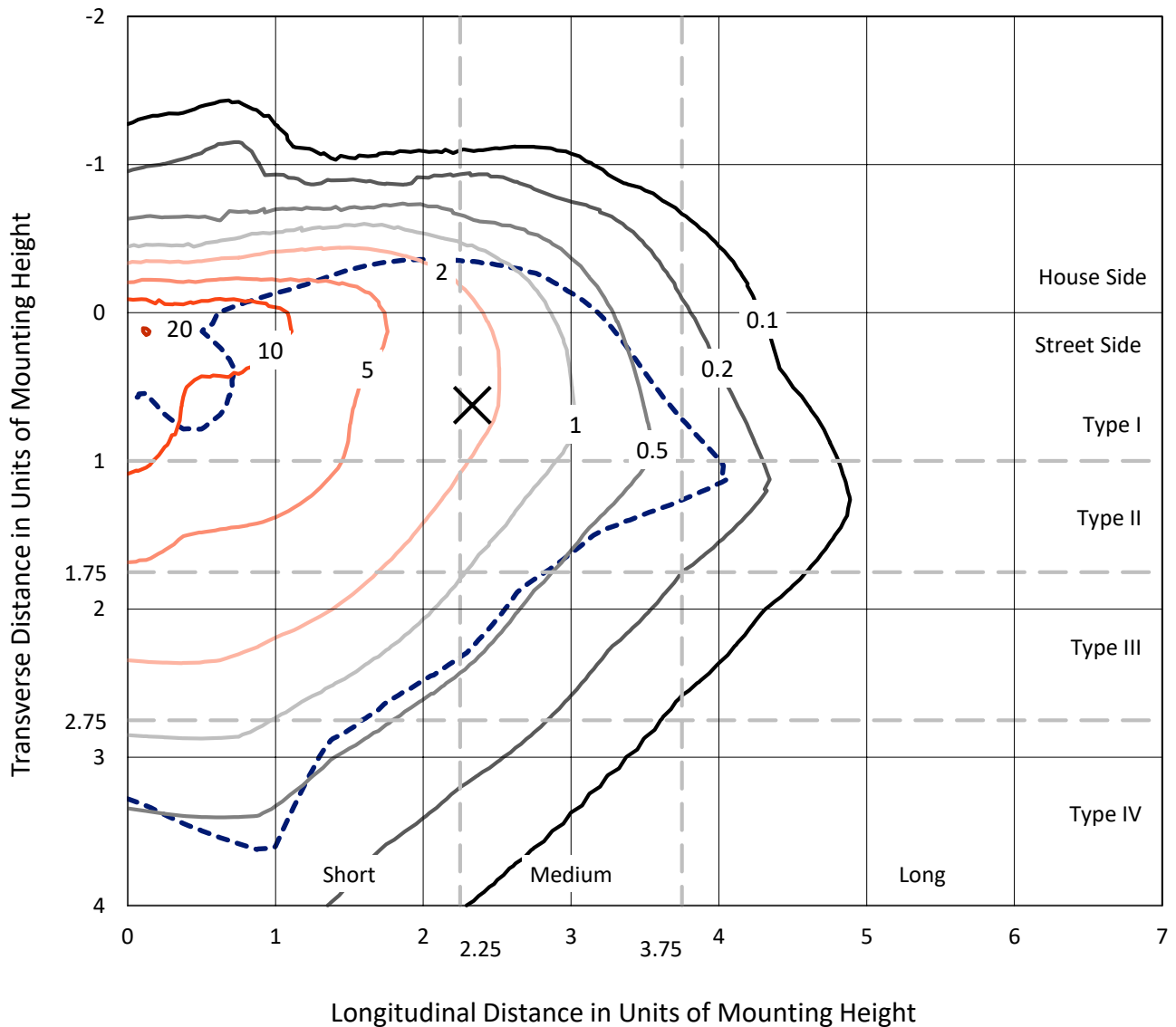
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

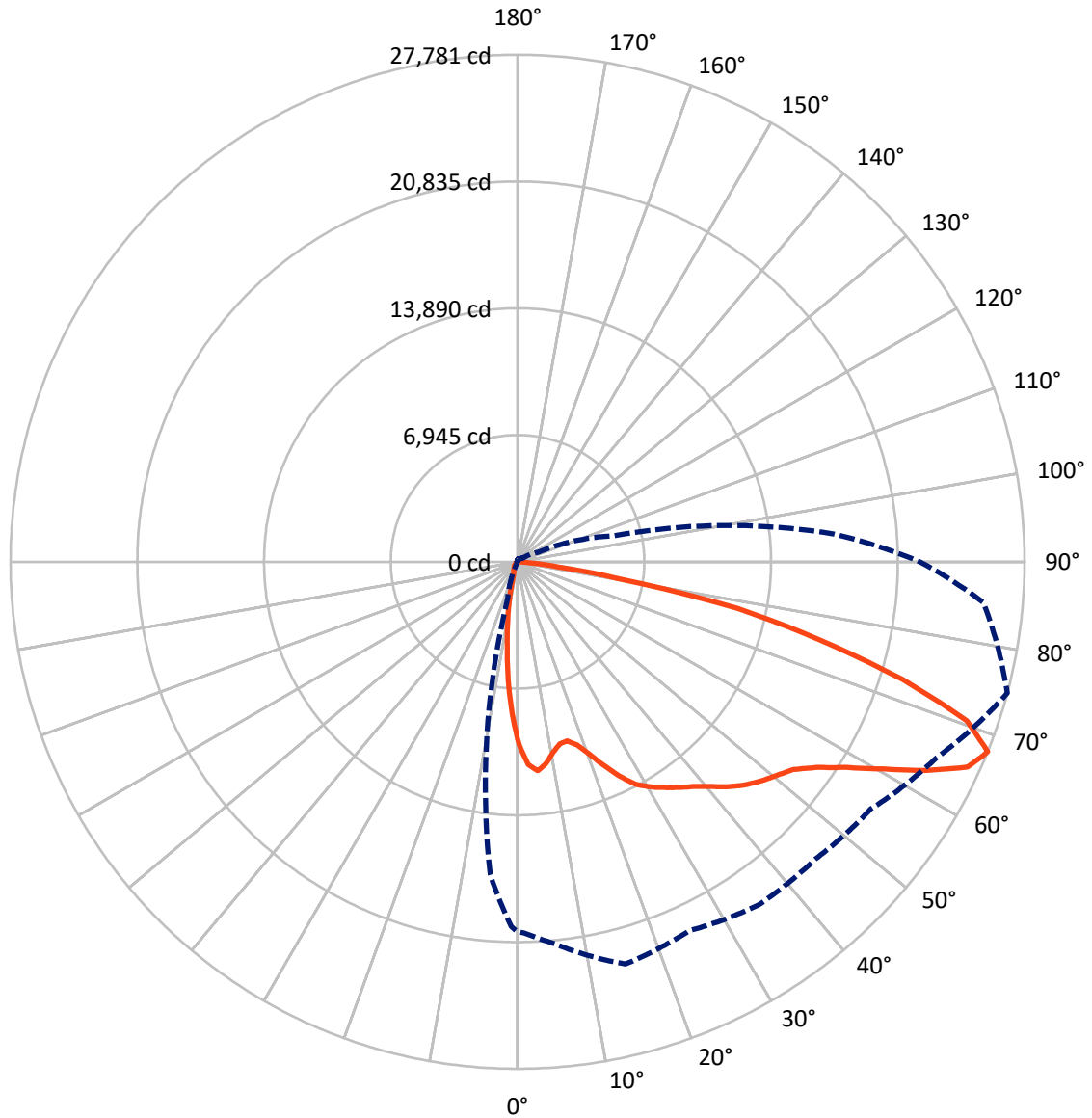
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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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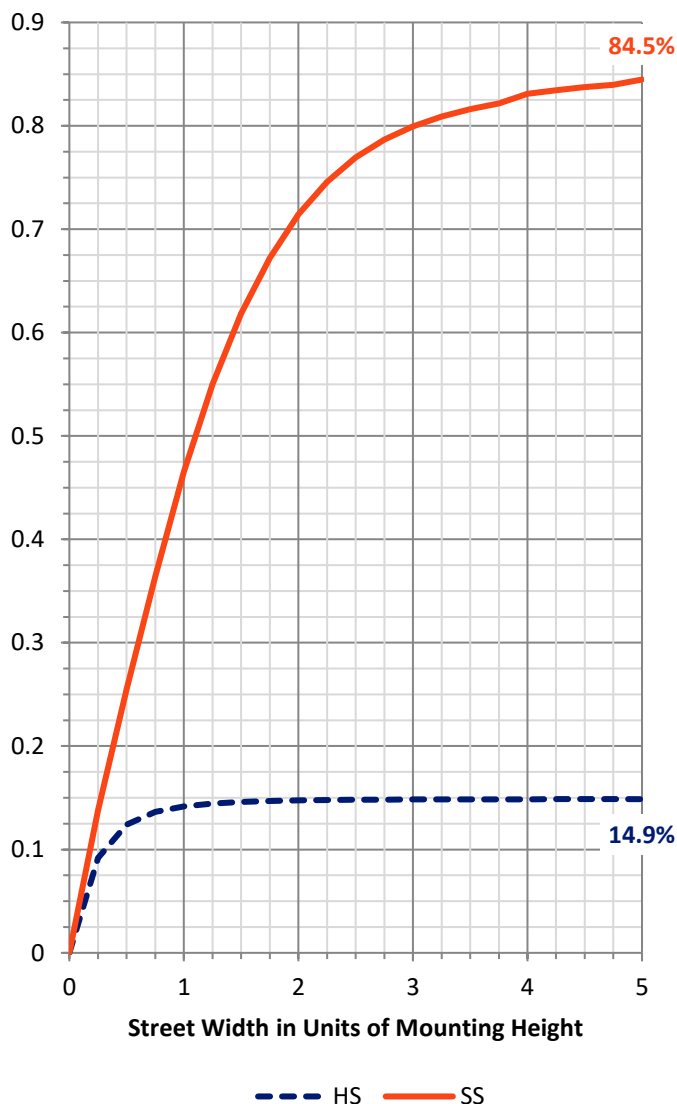
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4488.3	0.0	4488.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	25421.7	0.0	25421.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	29910.0	0.0	29910.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	761.1	2.5
10°-20°	1498.7	5.0
20°-30°	2120.2	7.1
30°-40°	3117.4	10.4
40°-50°	4480.7	15.0
50°-60°	6307.6	21.1
60°-70°	7366.7	24.6
70°-80°	3758.3	12.6
80°-90°	499.3	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°	29910.0	100.0
0°-180°	29910.0	100.0

**Coefficient of Utilization**

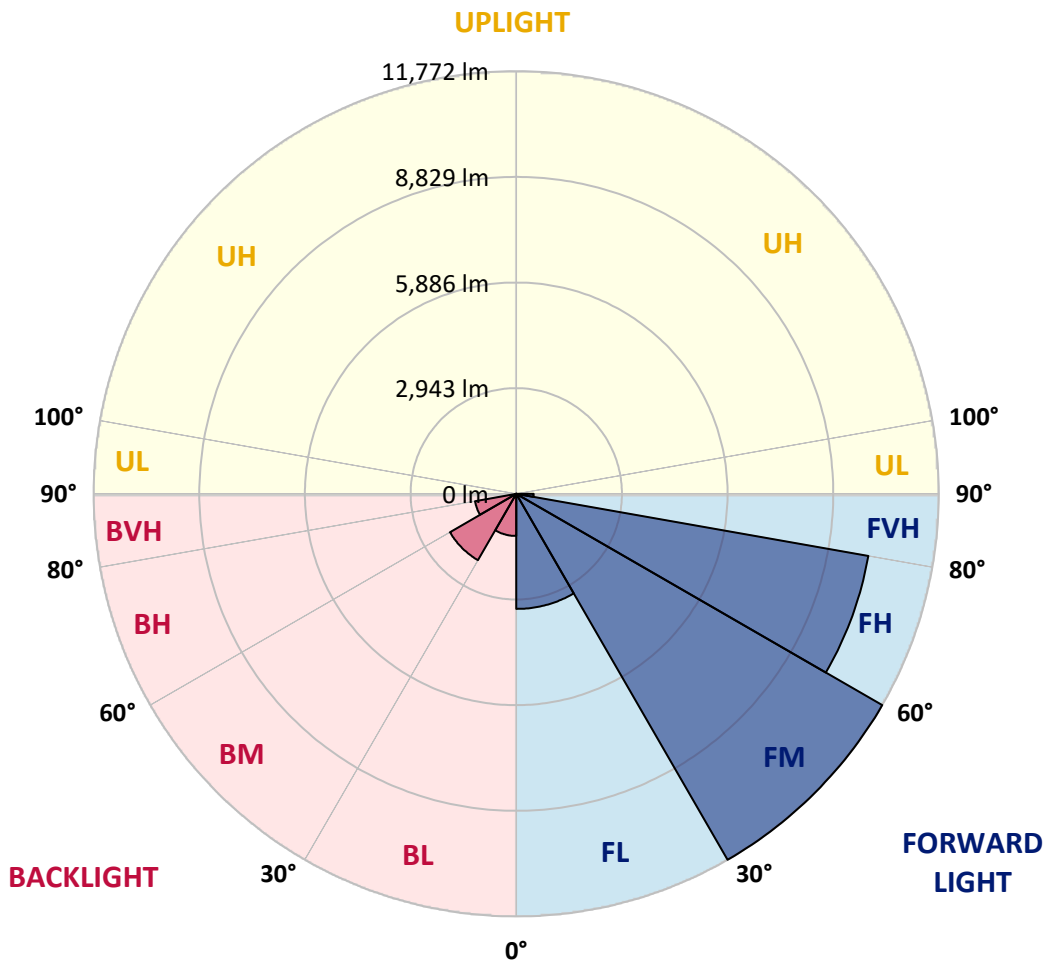


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3206.4	10.7			
FM (30°-60°)	11772.0	39.4			
FH (60°-80°)	9959.2	33.3			G4/12000
FVH (80°-90°)	484.1	1.6			G3/500
BL (0°-30°)	1173.7	3.9	B3/2500		
BM (30°-60°)	2133.6	7.1	B2/2500		
BH (60°-80°)	1165.8	3.9	B3/2500		G3/2500
BVH (80°-90°)	15.1	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3
2.5°	10877.3	10894.3	10982.2	11186.2	11408.7	11425.7	11575.9	11421.4	11369.0	11119.6	10861.7
5°	10959.5	11024.7	11326.5	11925.8	12445.8	12613.0	12732.0	12428.8	12110.0	11500.8	10850.4
7.5°	10297.8	10406.9	10881.6	12006.6	12936.0	13346.9	13424.9	12950.2	12169.5	11166.4	10188.7
10°	9450.5	9575.2	10147.6	11530.5	12807.1	13511.3	13619.0	12997.0	11874.8	10625.1	9473.2
12.5°	8764.8	8910.7	9495.9	10994.9	12363.6	13142.9	13355.4	12839.7	11619.8	10241.2	8984.4
15°	8448.8	8616.0	9230.9	10649.2	11872.0	12485.5	12661.2	12438.7	11478.1	10180.2	8871.0
17.5°	8630.2	8811.5	9446.3	10679.0	11410.1	11672.2	11813.9	11904.6	11478.1	10547.2	9202.6
20°	9374.0	9569.6	10241.2	10980.8	11027.5	10929.8	11081.4	11400.2	11611.3	11244.3	9998.9
22.5°	10402.7	10632.2	11390.2	11497.9	10840.5	10470.7	10490.5	10990.7	11853.6	12128.4	11104.0
25°	11656.6	11937.2	12707.9	12268.7	10918.4	10197.2	10190.1	10653.5	12090.2	13014.0	12335.3
27.5°	12902.0	13210.9	13888.2	13209.5	11240.1	10147.6	10133.5	10551.5	12321.1	13801.8	13679.9
30°	13946.3	14246.7	14830.4	13891.0	11587.2	10263.8	10195.8	10660.6	12458.6	14313.2	14660.4
32.5°	14796.4	15037.3	15509.1	14360.0	11958.4	10489.1	10341.8	10952.4	12692.3	14745.4	15561.5
35°	15731.5	15985.2	16173.6	14806.3	12375.0	10813.6	10602.5	11415.7	13052.2	15184.6	16549.1
37.5°	16798.4	17050.6	17028.0	15214.4	12903.5	11350.6	11216.0	12149.7	13611.9	15619.6	17651.4
40°	17842.7	18100.6	17916.4	15660.7	13524.1	12236.1	12136.9	13252.0	14361.4	16176.4	18943.6
42.5°	18820.3	19099.4	18705.6	16082.9	14263.7	13352.6	13522.6	14671.7	15299.4	16862.2	20057.3
45°	19608.1	19892.9	19367.2	16493.8	15042.9	14707.1	15218.6	16244.4	16427.2	17441.7	20809.6
47.5°	20180.5	20449.7	19826.3	16904.7	16040.4	16363.5	17254.7	17893.7	17446.0	17944.7	21343.8
50°	20546.1	20755.8	19960.9	17419.0	17349.6	18296.1	19375.7	19687.4	18405.2	18398.1	21992.7
52.5°	20778.4	20873.4	20060.1	17956.0	18715.5	20400.1	21452.9	21550.6	19392.7	18896.8	22866.9
55°	21579.0	21655.5	20762.9	18606.4	19844.7	22243.5	23331.6	23241.0	20510.7	19873.1	23898.4
57.5°	22944.8	23025.6	22215.1	19541.5	20758.6	23382.7	24693.3	24856.2	21821.3	21244.6	25003.6
60°	23630.6	23780.8	23491.8	20726.0	21644.1	24110.9	25621.3	26141.3	23459.2	23052.5	26074.7
62.5°	23008.6	23226.8	23646.2	22039.5	22524.0	24511.9	25910.4	26601.8	25136.7	25159.4	26735.0
65°	21767.4	21941.7	22653.0	22759.2	23034.1	24462.3	25196.2	25958.5	26164.0	27094.9	26699.6
67.5°	20268.4	20333.5	20937.1	22815.9	22294.5	22971.8	23051.1	23615.0	25352.1	27780.6	25627.0
70°	18110.5	18145.9	18673.0	20918.7	19159.0	19307.7	19190.1	19304.9	21795.8	26110.1	22919.3
72.5°	14575.4	14664.6	15414.2	17372.3	13957.6	13528.3	14452.1	14401.1	16785.7	22059.3	17022.3
75°	10731.4	10885.8	12017.9	13993.0	9796.3	8861.1	9535.6	9715.5	11932.9	17063.4	10645.0
77.5°	7513.7	7628.4	8725.1	10286.5	7090.0	6336.3	6092.6	6306.5	7876.4	12343.8	5362.9
80°	4328.5	4371.1	5071.0	5939.5	4777.7	5466.3	4952.0	5099.3	4719.6	5491.8	2306.7
82.5°	2832.3	2839.4	3112.9	3535.1	2975.4	3457.2	2558.9	3271.6	2903.2	2206.1	750.9
85°	1530.2	1538.7	1805.1	2509.3	1684.7	952.1	559.7	1149.1	1795.2	505.8	205.4
87.5°	168.6	154.4	544.1	912.5	467.6	86.4	29.8	128.9	287.6	32.6	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°	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3
2.5°	10730.0	10612.4	10319.1	10008.8	9759.4	9525.6	9290.4	9002.8	8780.4	8735.0	8661.3
5°	10500.4	10127.8	9512.9	8895.1	8397.8	7770.1	7372.0	7061.7	6758.5	6740.1	6679.1
7.5°	9698.5	9208.3	8342.5	7488.2	6788.2	6190.3	5586.7	5182.9	4865.5	4753.6	4687.0
10°	8927.7	8376.6	7295.5	6320.7	5695.8	5167.3	4742.3	4320.0	3937.5	3674.0	3554.9
12.5°	8389.3	7780.0	6588.5	5748.3	5300.5	4798.9	4280.4	3753.3	3312.6	2995.3	2801.2
15°	8181.0	7530.7	6351.8	5521.6	4969.0	4334.2	3671.1	3068.9	2580.1	2292.5	2118.2
17.5°	8429.0	7672.4	6333.4	5245.3	4473.1	3683.9	2951.3	2240.1	1779.6	1561.4	1449.5
20°	9058.1	8122.9	6326.3	4906.6	3883.6	2913.1	1999.2	1473.5	1194.4	1072.6	1020.1
22.5°	9947.9	8698.2	6383.0	4572.2	3270.1	2081.4	1380.0	1082.5	939.4	874.2	844.5
25°	11092.7	9505.8	6543.1	4269.0	2693.5	1552.9	1075.4	906.8	806.2	755.2	733.9
27.5°	12312.6	10435.3	6792.5	4005.5	2224.5	1238.3	921.0	776.4	704.2	668.8	648.9
30°	13318.6	11512.1	7044.7	3712.2	1884.4	1079.7	843.0	708.4	624.8	602.2	583.8
32.5°	14198.5	12326.8	7223.2	3447.3	1662.0	959.2	762.3	633.3	576.7	532.7	512.9
35°	15109.5	13005.5	7217.6	3261.6	1509.0	868.5	694.3	566.7	498.7	447.7	432.1
37.5°	16095.7	13772.0	7094.3	3103.0	1442.4	796.3	656.0	531.3	463.3	412.3	392.5
40°	17250.4	14576.8	6968.2	2954.2	1424.0	738.2	629.1	503.0	430.7	381.1	361.3
42.5°	18375.4	15302.2	6857.7	2843.7	1344.6	736.8	605.0	481.7	405.2	357.1	334.4
45°	19275.1	15978.1	6836.4	2777.1	1261.0	762.3	592.3	467.6	385.4	337.2	316.0
47.5°	20023.2	16712.0	6972.4	2730.3	1181.7	695.7	623.4	457.6	367.0	320.2	296.1
50°	20913.0	17613.1	7292.6	2653.8	1098.1	626.3	714.1	460.5	351.4	303.2	277.7
52.5°	22154.2	18860.0	7763.0	2524.9	983.3	562.5	702.8	463.3	334.4	284.8	259.3
55°	23545.6	20417.1	8268.9	2310.9	823.2	478.9	602.2	443.5	301.8	265.0	240.9
57.5°	25007.8	21829.8	8569.2	2055.9	654.6	413.7	481.7	403.8	266.4	238.0	222.4
60°	25237.3	22366.8	8431.8	1742.8	520.0	359.9	357.1	410.9	238.0	209.7	198.4
62.5°	24666.3	21692.3	7767.3	1463.6	435.0	316.0	293.3	358.5	215.4	187.0	175.7
65°	23568.3	19868.8	6690.5	1319.1	403.8	270.6	243.7	252.2	188.4	162.9	153.0
67.5°	22040.9	17434.6	5493.2	1236.9	399.6	232.4	208.3	191.3	162.9	141.7	133.2
70°	18918.1	14524.4	4382.4	1191.6	388.2	195.5	175.7	155.9	136.0	120.4	113.3
72.5°	13923.6	10292.2	3409.0	1142.0	391.1	155.9	153.0	128.9	109.1	93.5	90.7
75°	8045.0	5880.0	2235.8	925.2	372.6	120.4	127.5	90.7	76.5	65.2	65.2
77.5°	4287.5	3586.1	851.5	385.4	136.0	76.5	72.3	53.8	48.2	39.7	38.3
80°	1868.9	1578.4	256.5	107.7	75.1	41.1	26.9	24.1	21.3	17.0	15.6
82.5°	661.7	571.0	83.6	52.4	32.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	150.2	107.7	0.0	12.8	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°	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3
2.5°	8511.2	8480.0	8295.8	8302.9	8335.5	8382.2	8271.7	8322.7	8460.1	8591.9	8641.5
5°	6581.4	6588.5	6476.5	6546.0	6608.3	6650.8	6472.3	6475.1	6584.2	6733.0	6810.9
7.5°	4637.4	4626.1	4631.8	4797.5	4915.1	4830.1	4896.7	4665.8	4679.9	4786.2	4706.9
10°	3447.3	3291.4	3203.5	3328.2	3457.2	3410.4	3295.6	3220.6	3273.0	3390.6	3382.1
12.5°	2709.1	2485.2	2353.4	2264.2	2370.4	2282.6	2279.7	2214.6	2143.7	2156.5	2344.9
15°	2037.5	1874.5	1718.7	1575.6	1572.7	1543.0	1391.4	1221.3	1207.2	1215.7	1313.4
17.5°	1401.3	1346.0	1282.3	1159.0	1126.4	1001.7	854.4	786.4	752.4	767.9	800.5
20°	984.7	963.5	970.6	904.0	857.2	738.2	651.8	624.8	619.2	634.8	650.3
22.5°	816.1	777.9	773.6	743.9	697.1	610.7	563.9	548.3	541.2	555.4	566.7
25°	714.1	675.8	660.3	641.8	592.3	532.7	504.4	490.2	483.2	491.7	498.7
27.5°	629.1	593.7	579.5	566.7	518.6	476.1	453.4	440.6	435.0	437.8	444.9
30°	565.3	534.2	515.7	500.2	459.1	429.3	409.5	396.7	391.1	391.1	398.1
32.5°	498.7	481.7	464.7	444.9	406.6	386.8	367.0	352.8	347.1	348.6	354.2
35°	415.1	409.5	413.7	395.3	362.7	345.7	325.9	310.3	306.0	307.5	313.1
37.5°	368.4	342.9	358.5	348.6	330.1	307.5	282.0	267.8	260.7	265.0	267.8
40°	338.6	307.5	296.1	306.0	303.2	266.4	243.7	229.5	223.9	225.3	228.1
42.5°	313.1	276.3	250.8	249.4	266.4	232.4	208.3	195.5	188.4	188.4	191.3
45°	289.0	249.4	218.2	194.1	223.9	196.9	174.3	162.9	154.4	154.4	155.9
47.5°	270.6	226.7	189.9	158.7	168.6	161.5	143.1	131.8	123.3	123.3	124.7
50°	253.6	204.0	164.4	133.2	126.1	133.2	116.2	103.4	97.8	96.3	99.2
52.5°	235.2	181.4	140.3	113.3	99.2	100.6	90.7	82.2	75.1	75.1	77.9
55°	216.8	162.9	121.9	96.3	82.2	75.1	72.3	66.6	60.9	60.9	63.8
57.5°	198.4	143.1	103.4	79.3	65.2	59.5	59.5	55.3	51.0	51.0	53.8
60°	181.4	123.3	85.0	65.2	51.0	49.6	51.0	46.8	43.9	43.9	46.8
62.5°	161.5	104.8	69.4	53.8	41.1	39.7	43.9	41.1	38.3	38.3	41.1
65°	137.4	89.3	55.3	41.1	31.2	31.2	36.8	34.0	31.2	31.2	34.0
67.5°	116.2	75.1	42.5	29.8	22.7	24.1	31.2	28.3	26.9	26.9	29.8
70°	96.3	58.1	29.8	18.4	12.8	18.4	24.1	24.1	24.1	24.1	26.9
72.5°	72.3	39.7	17.0	7.1	5.7	12.8	19.8	22.7	21.3	21.3	25.5
75°	46.8	22.7	5.7	0.0	0.0	7.1	15.6	18.4	18.4	17.0	21.3
77.5°	26.9	7.1	0.0	0.0	0.0	0.0	9.9	8.5	7.1	5.7	9.9
80°	7.1	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: P324301  
 CATALOG NUMBER: GLEON-SA7D-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3	10034.3
2.5°	8841.3	9008.5	9243.7	9493.0	9877.0	10181.6	10480.6	10737.1	10836.2	10877.3
5°	6997.9	7243.1	7587.4	8029.4	8722.3	9345.7	9977.6	10613.8	10890.1	10959.5
7.5°	5021.4	5334.5	5772.3	6326.3	7138.2	7945.8	8828.5	9762.3	10190.1	10297.8
10°	3716.5	4099.0	4600.6	5184.3	5959.4	6789.7	7751.7	8818.6	9307.4	9450.5
12.5°	2636.8	3154.0	3825.6	4535.4	5207.0	5948.0	6921.4	8097.4	8610.3	8764.8
15°	1548.6	2048.8	2843.7	3794.4	4654.4	5405.4	6394.3	7727.6	8293.0	8448.8
17.5°	888.4	1137.7	1738.5	2798.3	3965.8	5005.8	6228.6	7819.7	8485.7	8630.2
20°	678.7	758.0	1001.7	1802.3	3161.0	4613.3	6228.6	8341.1	9161.5	9374.0
22.5°	593.7	651.8	750.9	1075.4	2326.5	4192.5	6300.8	9094.9	10167.5	10402.7
25°	527.1	579.5	664.5	809.0	1586.9	3692.4	6472.3	10020.1	11352.0	11656.6
27.5°	471.8	521.4	597.9	708.4	1085.3	3088.8	6703.2	11105.4	12658.3	12902.0
30°	422.2	469.0	538.4	616.3	837.4	2404.4	6900.2	12128.4	13684.2	13946.3
32.5°	375.5	418.0	480.3	538.4	685.8	1778.2	6921.4	12938.9	14535.7	14796.4
35°	331.5	369.8	426.5	471.8	568.2	1404.1	6591.3	13641.7	15387.2	15731.5
37.5°	289.0	325.9	375.5	409.5	500.2	1144.8	6086.9	14425.2	16479.6	16798.4
40°	249.4	282.0	333.0	355.6	473.2	879.9	5538.6	15247.0	17550.8	17842.7
42.5°	212.5	243.7	293.3	337.2	415.1	657.4	4946.3	16017.7	18514.3	18820.3
45°	177.1	209.7	259.3	357.1	344.3	491.7	4313.0	16529.2	19275.1	19608.1
47.5°	143.1	179.9	248.0	340.0	274.9	361.3	3811.4	17013.8	19851.8	20180.5
50°	114.8	151.6	279.1	303.2	225.3	276.3	3601.7	17447.4	20230.1	20546.1
52.5°	93.5	127.5	263.5	232.4	188.4	228.1	3715.0	18150.1	20580.1	20778.4
55°	77.9	100.6	158.7	161.5	160.1	194.1	3855.3	19159.0	21485.5	21579.0
57.5°	68.0	80.8	110.5	124.7	134.6	172.9	3858.1	20607.0	22886.7	22944.8
60°	58.1	70.8	92.1	100.6	116.2	154.4	3717.9	21112.8	23437.9	23630.6
62.5°	51.0	62.3	76.5	83.6	97.8	138.9	3389.2	20380.3	22681.3	23008.6
65°	45.3	56.7	63.8	70.8	86.4	124.7	2847.9	18915.3	21426.0	21767.4
67.5°	39.7	49.6	56.7	63.8	77.9	110.5	2097.0	17213.6	19985.0	20268.4
70°	35.4	43.9	51.0	56.7	68.0	93.5	1272.4	14606.5	17992.9	18110.5
72.5°	34.0	39.7	46.8	51.0	59.5	82.2	644.7	10734.2	14384.1	14575.4
75°	29.8	35.4	42.5	45.3	52.4	70.8	262.1	7050.4	10423.9	10731.4
77.5°	24.1	32.6	38.3	41.1	45.3	58.1	133.2	4505.7	7315.3	7513.7
80°	8.5	24.1	32.6	34.0	38.3	42.5	87.8	2466.8	4243.5	4328.5
82.5°	0.0	15.6	25.5	24.1	26.9	32.6	56.7	1173.2	2801.2	2832.3
85°	0.0	7.1	19.8	15.6	11.3	22.7	19.8	256.5	1469.3	1530.2
87.5°	0.0	0.0	1.4	7.1	5.7	8.5	2.8	1.4	133.2	168.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)