

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: P324302

Luminaire Tested: **GLEON-SA8D-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324302
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-SA8D-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 33890 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

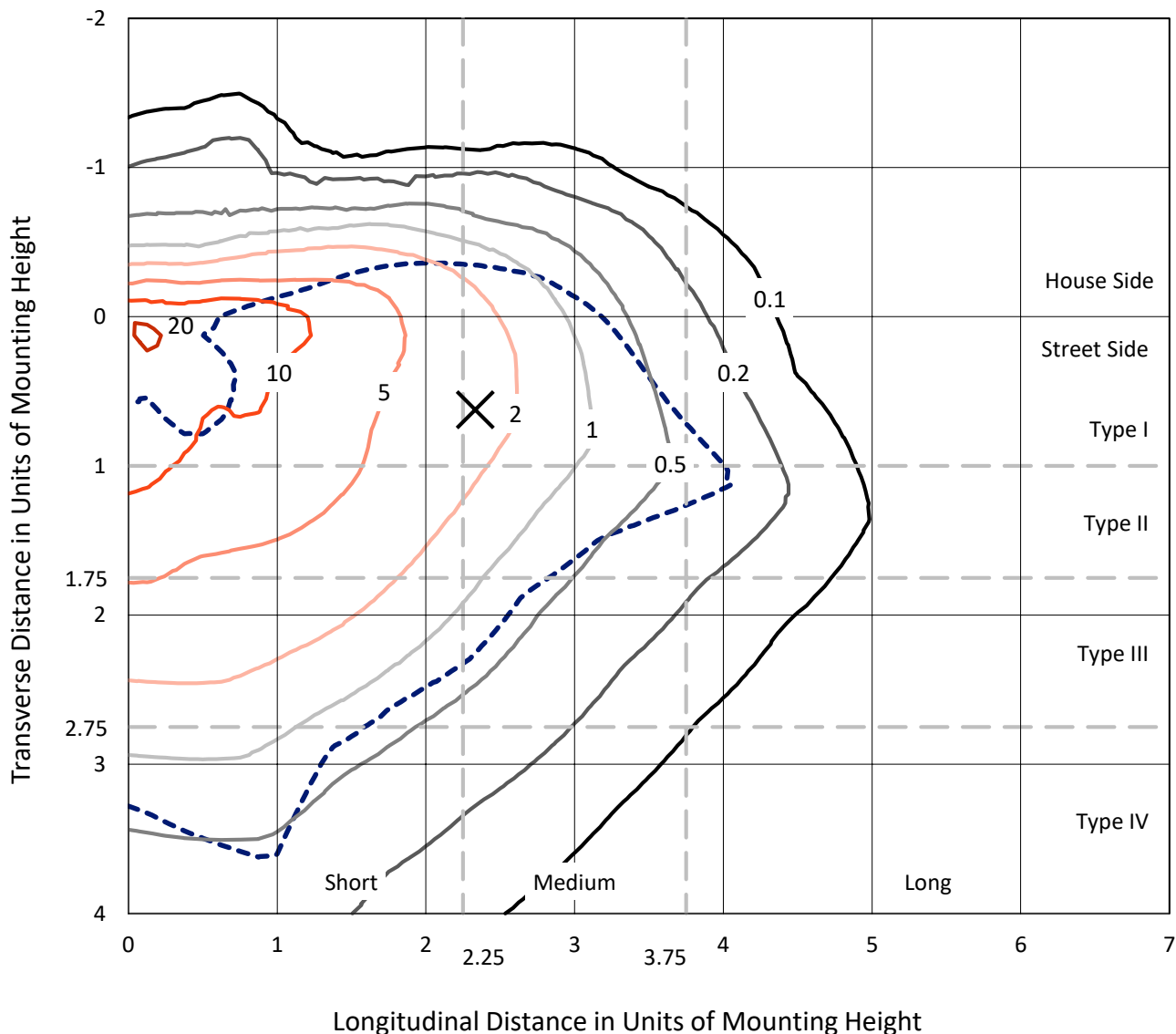
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

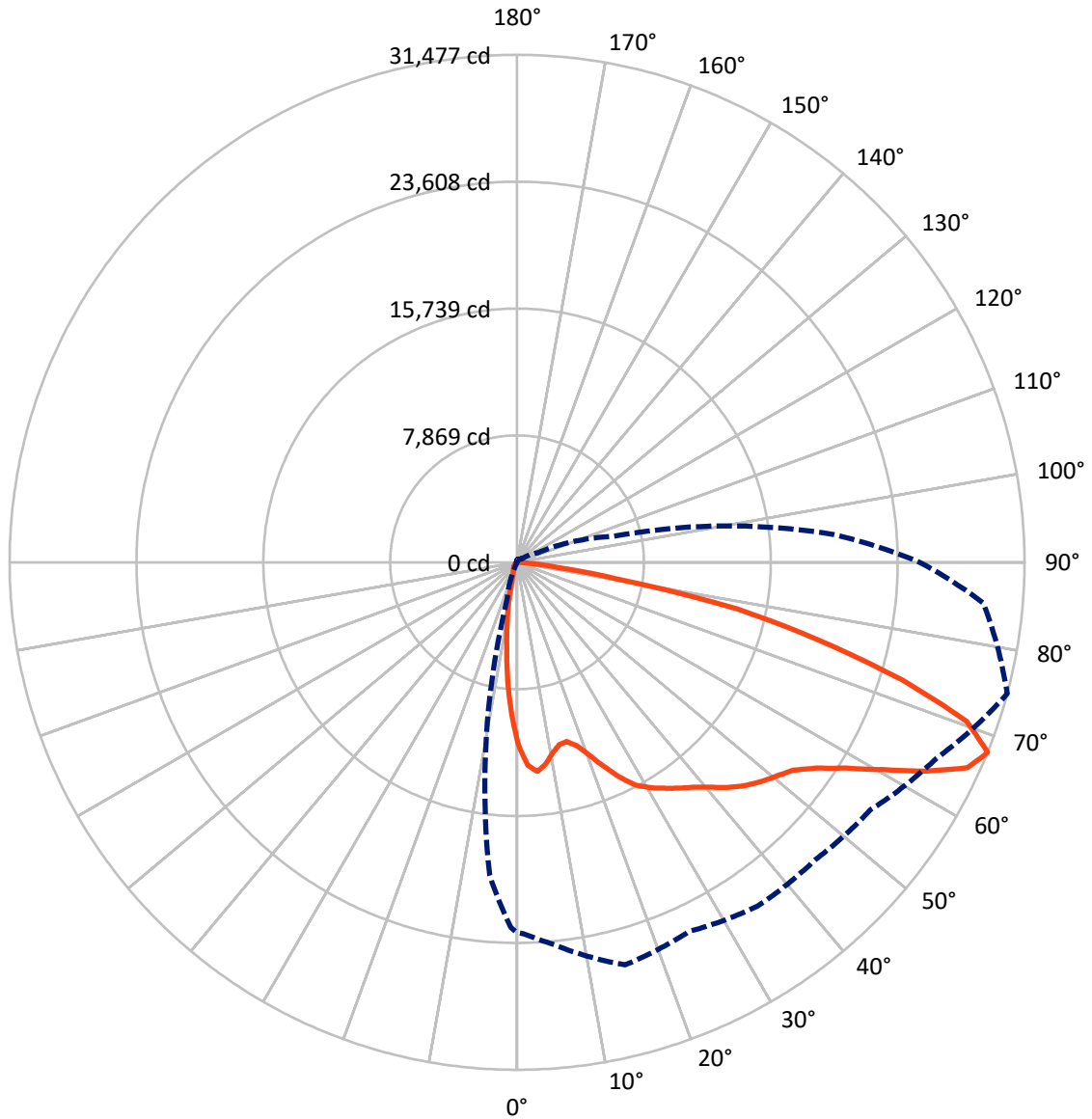
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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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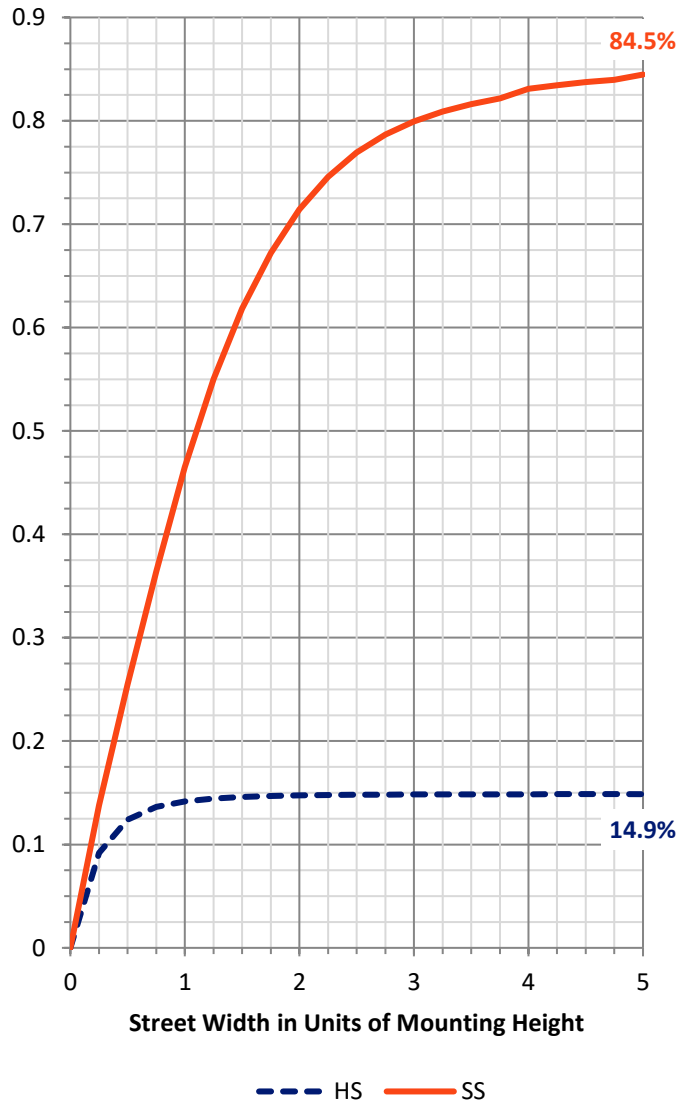
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5085.6	0.0	5085.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28804.5	0.0	28804.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	33890.0	0.0	33890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.4	2.5
10°-20°	1698.1	5.0
20°-30°	2402.4	7.1
30°-40°	3532.2	10.4
40°-50°	5076.9	15.0
50°-60°	7146.9	21.1
60°-70°	8347.0	24.6
70°-80°	4258.4	12.6
80°-90°	565.7	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°	33890.0	100.0
0°-180°	33890.0	100.0

Coefficient of Utilization

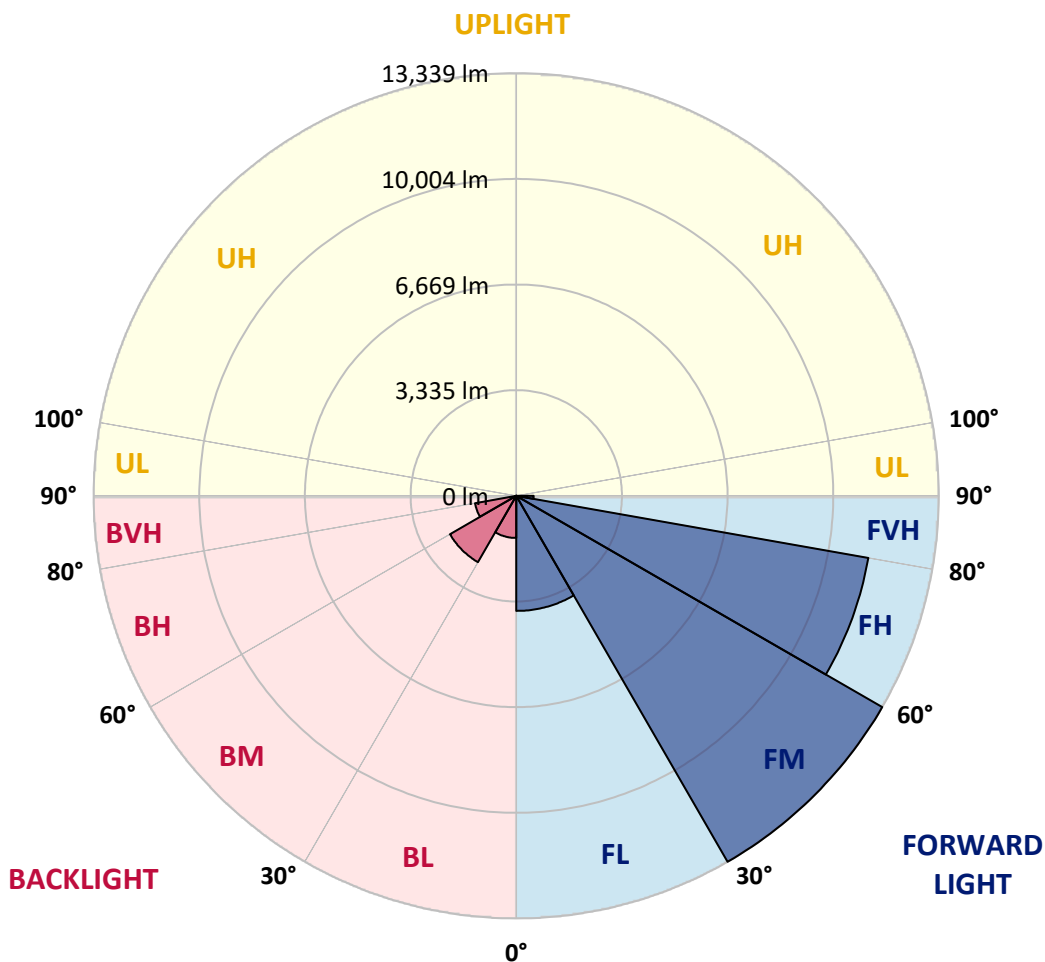


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3633.0	10.7			
FM (30°-60°)	13338.5	39.4			
FH (60°-80°)	11284.4	33.3			G4/12000
FVH (80°-90°)	548.5	1.6			G4/750
BL (0°-30°)	1329.9	3.9	B3/2500		
BM (30°-60°)	2417.5	7.1	B2/2500		
BH (60°-80°)	1321.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	17.2	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°	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5
2.5°	12324.7	12344.0	12443.5	12674.7	12926.8	12946.0	13116.2	12941.2	12881.8	12599.3	12307.1
5°	12417.8	12491.7	12833.6	13512.7	14101.9	14291.4	14426.2	14082.7	13721.4	13031.1	12294.2
7.5°	11668.1	11791.7	12329.6	13604.2	14657.4	15123.0	15211.3	14673.4	13788.9	12652.2	11544.5
10°	10708.1	10849.4	11497.9	13064.8	14511.3	15309.2	15431.2	14726.4	13454.9	12039.0	10733.8
12.5°	9931.1	10096.4	10759.5	12458.0	14008.8	14891.8	15132.6	14548.2	13166.0	11603.9	10179.9
15°	9573.1	9762.5	10459.2	12066.3	13451.7	14146.9	14345.9	14093.9	13005.4	11534.9	10051.5
17.5°	9778.6	9984.0	10703.3	12100.0	12928.4	13225.4	13385.9	13488.7	13005.4	11950.7	10427.1
20°	10621.4	10842.9	11603.9	12441.9	12494.9	12384.1	12555.9	12917.1	13156.3	12740.5	11329.4
22.5°	11786.9	12047.0	12905.9	13027.9	12283.0	11864.0	11886.5	12453.2	13430.9	13742.3	12581.6
25°	13207.7	13525.6	14398.9	13901.2	12371.3	11554.1	11546.1	12071.1	13699.0	14745.7	13976.7
27.5°	14618.9	14968.8	15736.2	14967.2	12735.7	11497.9	11481.9	11955.5	13960.6	15638.3	15500.2
30°	15802.1	16142.4	16803.8	15739.4	13129.0	11629.6	11552.5	12079.1	14116.4	16217.9	16611.2
32.5°	16765.3	17038.2	17572.8	16270.8	13549.7	11884.9	11717.9	12409.8	14381.3	16707.5	17632.2
35°	17824.9	18112.2	18325.8	16776.5	14021.7	12252.5	12013.3	12934.8	14789.0	17205.2	18751.2
37.5°	19033.7	19319.5	19293.8	17238.9	14620.5	12860.9	12708.4	13766.4	15423.2	17698.0	20000.2
40°	20216.9	20509.1	20300.4	17744.6	15323.6	13864.3	13751.9	15015.4	16272.4	18329.0	21464.3
42.5°	21324.7	21640.9	21194.6	18223.0	16161.7	15129.4	15322.0	16624.0	17335.2	19106.0	22726.2
45°	22217.3	22540.0	21944.4	18688.6	17044.6	16664.2	17243.7	18406.0	18613.1	19762.6	23578.7
47.5°	22865.9	23170.9	22464.5	19154.1	18174.8	18540.9	19550.7	20274.7	19767.4	20332.5	24183.9
50°	23280.1	23517.7	22617.0	19736.9	19658.2	20730.7	21954.0	22307.2	20854.3	20846.3	24919.2
52.5°	23543.3	23650.9	22729.4	20345.4	21205.9	23114.7	24307.5	24418.3	21973.3	21411.4	25909.7
55°	24450.4	24537.1	23525.7	21082.2	22485.4	25203.3	26436.3	26333.5	23239.9	22517.5	27078.5
57.5°	25998.0	26089.5	25171.2	22141.8	23520.9	26494.1	27979.1	28163.7	24724.9	24071.5	28330.7
60°	26775.0	26945.2	26617.7	23483.9	24524.2	27319.3	29030.6	29619.8	26580.8	26120.0	29544.4
62.5°	26070.3	26317.5	26792.7	24972.2	25521.2	27773.6	29358.1	30141.6	28481.6	28507.3	30292.5
65°	24663.9	24861.4	25667.3	25787.7	26099.2	27717.4	28549.0	29412.7	29645.5	30700.3	30252.4
67.5°	22965.4	23039.2	23723.1	25851.9	25261.1	26028.5	26118.4	26757.4	28725.6	31477.3	29037.1
70°	20520.4	20560.5	21157.7	23702.3	21708.4	21876.9	21743.7	21873.7	24696.0	29584.5	25969.1
72.5°	16514.9	16616.0	17465.3	19683.9	15814.9	15328.5	16375.2	16317.4	19019.3	24994.6	19287.4
75°	12159.4	12334.4	13617.1	15855.0	11099.8	10040.2	10804.4	11008.3	13520.8	19334.0	12061.4
77.5°	8513.5	8643.5	9886.1	11655.3	8033.5	7179.4	6903.3	7145.7	8924.5	13986.3	6076.5
80°	4904.5	4952.7	5745.8	6729.9	5413.4	6193.7	5610.9	5777.9	5347.6	6222.6	2613.6
82.5°	3209.2	3217.2	3527.1	4005.5	3371.4	3917.2	2899.4	3706.9	3289.5	2499.6	850.9
85°	1733.8	1743.5	2045.3	2843.2	1908.8	1078.8	634.1	1302.0	2034.1	573.1	232.8
87.5°	191.0	175.0	616.5	1033.9	529.8	97.9	33.7	146.1	325.9	36.9	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°	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5
2.5°	12157.8	12024.5	11692.2	11340.6	11058.1	10793.2	10526.7	10200.8	9948.7	9897.4	9813.9
5°	11897.7	11475.5	10778.7	10078.8	9515.3	8804.1	8352.9	8001.4	7657.8	7636.9	7567.9
7.5°	10989.0	10433.6	9452.7	8484.6	7691.5	7014.0	6330.1	5872.6	5513.0	5386.2	5310.7
10°	10115.7	9491.2	8266.3	7161.7	6453.7	5854.9	5373.3	4894.9	4461.4	4162.8	4028.0
12.5°	9505.6	8815.3	7465.2	6513.1	6005.8	5437.5	4849.9	4252.7	3753.4	3393.8	3173.9
15°	9269.6	8532.8	7197.1	6256.3	5630.2	4910.9	4159.6	3477.3	2923.5	2597.6	2400.1
17.5°	9550.6	8693.3	7176.2	5943.2	5068.3	4174.1	3344.1	2538.2	2016.4	1769.2	1642.3
20°	10263.4	9203.8	7168.2	5559.5	4400.4	3300.7	2265.2	1669.6	1353.4	1215.3	1155.9
22.5°	11271.6	9855.6	7232.4	5180.7	3705.3	2358.3	1563.7	1226.5	1064.4	990.5	956.8
25°	12568.8	10770.7	7413.8	4837.1	3051.9	1759.5	1218.5	1027.5	913.5	855.7	831.6
27.5°	13951.0	11823.8	7696.3	4538.5	2520.5	1403.1	1043.5	879.8	797.9	757.8	735.3
30°	15090.9	13044.0	7982.1	4206.2	2135.2	1223.3	955.2	802.7	708.0	682.3	661.4
32.5°	16087.8	13967.1	8184.4	3906.0	1883.1	1086.9	863.7	717.6	653.4	603.6	581.2
35°	17120.1	14736.1	8178.0	3695.7	1709.8	984.1	786.7	642.2	565.1	507.3	489.7
37.5°	18237.5	15604.6	8038.3	3515.8	1634.3	902.2	743.3	602.0	525.0	467.2	444.7
40°	19545.9	16516.5	7895.4	3347.3	1613.4	836.4	712.8	569.9	488.0	431.9	409.4
42.5°	20820.6	17338.4	7770.2	3222.1	1523.5	834.8	685.5	545.8	459.1	404.6	378.9
45°	21840.0	18104.2	7746.1	3146.6	1428.8	863.7	671.1	529.8	436.7	382.1	358.0
47.5°	22687.7	18935.8	7900.2	3093.6	1338.9	788.3	706.4	518.5	415.8	362.8	335.5
50°	23695.9	19956.9	8263.0	3006.9	1244.2	709.6	809.1	521.8	398.1	343.6	314.7
52.5°	25102.2	21369.6	8796.0	2860.8	1114.2	637.3	796.3	525.0	378.9	322.7	293.8
55°	26678.7	23134.0	9369.2	2618.4	932.7	542.6	682.3	502.5	342.0	300.2	272.9
57.5°	28335.5	24734.6	9709.5	2329.5	741.7	468.8	545.8	457.5	301.8	269.7	252.0
60°	28595.6	25343.0	9553.8	1974.7	589.2	407.8	404.6	465.6	269.7	237.6	224.8
62.5°	27948.6	24578.8	8800.9	1658.4	492.9	358.0	332.3	406.2	244.0	211.9	199.1
65°	26704.4	22512.7	7580.7	1494.6	457.5	306.6	276.1	285.8	213.5	184.6	173.4
67.5°	24973.8	19754.6	6224.2	1401.5	452.7	263.3	236.0	216.7	184.6	160.5	150.9
70°	21435.4	16457.1	4965.5	1350.2	439.9	221.5	199.1	176.6	154.1	136.5	128.4
72.5°	15776.4	11661.7	3862.6	1294.0	443.1	176.6	173.4	146.1	123.6	106.0	102.7
75°	9115.5	6662.5	2533.3	1048.3	422.2	136.5	144.5	102.7	86.7	73.8	73.8
77.5°	4858.0	4063.3	964.9	436.7	154.1	86.7	81.9	61.0	54.6	45.0	43.3
80°	2117.5	1788.4	290.6	122.0	85.1	46.6	30.5	27.3	24.1	19.3	17.7
82.5°	749.7	647.0	94.7	59.4	36.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	170.2	122.0	0.0	14.4	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°	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5
2.5°	9643.7	9608.4	9399.7	9407.7	9444.6	9497.6	9372.4	9430.2	9585.9	9735.2	9791.4
5°	7457.1	7465.2	7338.3	7417.0	7487.6	7535.8	7333.5	7336.7	7460.3	7628.9	7717.2
7.5°	5254.5	5241.7	5248.1	5435.9	5569.2	5472.8	5548.3	5286.6	5302.7	5423.1	5333.2
10°	3906.0	3729.4	3629.8	3771.1	3917.2	3864.2	3734.2	3649.1	3708.5	3841.7	3832.1
12.5°	3069.5	2815.9	2666.6	2565.4	2685.9	2586.3	2583.1	2509.3	2429.0	2443.4	2657.0
15°	2308.6	2124.0	1947.4	1785.2	1782.0	1748.3	1576.5	1383.9	1367.8	1377.4	1488.2
17.5°	1587.8	1525.1	1452.9	1313.2	1276.3	1135.0	968.1	891.0	852.5	870.1	907.1
20°	1115.8	1091.7	1099.7	1024.3	971.3	836.4	738.5	708.0	701.6	719.2	736.9
22.5°	924.7	881.4	876.6	842.8	789.9	691.9	639.0	621.3	613.3	629.3	642.2
25°	809.1	765.8	748.1	727.3	671.1	603.6	571.5	555.5	547.4	557.1	565.1
27.5°	712.8	672.7	656.6	642.2	587.6	539.4	513.7	499.3	492.9	496.1	504.1
30°	640.6	605.2	584.4	566.7	520.2	486.4	464.0	449.5	443.1	443.1	451.1
32.5°	565.1	545.8	526.6	504.1	460.8	438.3	415.8	399.7	393.3	394.9	401.4
35°	470.4	464.0	468.8	447.9	411.0	391.7	369.2	351.6	346.8	348.4	354.8
37.5°	417.4	388.5	406.2	394.9	374.1	348.4	319.5	303.4	295.4	300.2	303.4
40°	383.7	348.4	335.5	346.8	343.6	301.8	276.1	260.1	253.7	255.3	258.5
42.5°	354.8	313.1	284.2	282.6	301.8	263.3	236.0	221.5	213.5	213.5	216.7
45°	327.5	282.6	247.2	219.9	253.7	223.2	197.5	184.6	175.0	175.0	176.6
47.5°	306.6	256.9	215.1	179.8	191.0	183.0	162.1	149.3	139.7	139.7	141.3
50°	287.4	231.2	186.2	150.9	142.9	150.9	131.6	117.2	110.8	109.2	112.4
52.5°	266.5	205.5	158.9	128.4	112.4	114.0	102.7	93.1	85.1	85.1	88.3
55°	245.6	184.6	138.1	109.2	93.1	85.1	81.9	75.5	69.0	69.0	72.2
57.5°	224.8	162.1	117.2	89.9	73.8	67.4	67.4	62.6	57.8	57.8	61.0
60°	205.5	139.7	96.3	73.8	57.8	56.2	57.8	53.0	49.8	49.8	53.0
62.5°	183.0	118.8	78.7	61.0	46.6	45.0	49.8	46.6	43.3	43.3	46.6
65°	155.7	101.1	62.6	46.6	35.3	35.3	41.7	38.5	35.3	35.3	38.5
67.5°	131.6	85.1	48.2	33.7	25.7	27.3	35.3	32.1	30.5	30.5	33.7
70°	109.2	65.8	33.7	20.9	14.4	20.9	27.3	27.3	27.3	27.3	30.5
72.5°	81.9	45.0	19.3	8.0	6.4	14.4	22.5	25.7	24.1	24.1	28.9
75°	53.0	25.7	6.4	0.0	0.0	8.0	17.7	20.9	20.9	19.3	24.1
77.5°	30.5	8.0	0.0	0.0	0.0	0.0	11.2	9.6	8.0	6.4	11.2
80°	8.0	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: P324302

CATALOG NUMBER: GLEON-SA8D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5	11369.5
2.5°	10017.8	10207.2	10473.7	10756.2	11191.3	11536.5	11875.2	12165.8	12278.2	12324.7
5°	7929.1	8206.9	8597.0	9097.9	9882.9	10589.3	11305.3	12026.1	12339.2	12417.8
7.5°	5689.6	6044.4	6540.4	7168.2	8088.1	9003.1	10003.3	11061.3	11546.1	11668.1
10°	4211.0	4644.5	5212.8	5874.2	6752.4	7693.1	8783.2	9992.1	10545.9	10708.1
12.5°	2987.7	3573.6	4334.6	5138.9	5899.9	6739.5	7842.4	9174.9	9756.1	9931.1
15°	1754.7	2321.4	3222.1	4299.3	5273.8	6124.6	7245.2	8755.9	9396.5	9573.1
17.5°	1006.6	1289.1	1969.8	3170.7	4493.5	5671.9	7057.4	8860.3	9614.8	9778.6
20°	769.0	858.9	1135.0	2042.1	3581.7	5227.2	7057.4	9451.1	10380.6	10621.4
22.5°	672.7	738.5	850.9	1218.5	2636.1	4750.4	7139.3	10305.1	11520.4	11786.9
25°	597.2	656.6	752.9	916.7	1798.1	4183.7	7333.5	11353.5	12862.5	13207.7
27.5°	534.6	590.8	677.5	802.7	1229.7	3499.8	7595.2	12583.2	14342.7	14618.9
30°	478.4	531.4	610.1	698.4	948.8	2724.4	7818.3	13742.3	15505.1	15802.1
32.5°	425.4	473.6	544.2	610.1	777.0	2014.8	7842.4	14660.6	16469.9	16765.3
35°	375.7	419.0	483.2	534.6	643.8	1591.0	7468.4	15456.9	17434.8	17824.9
37.5°	327.5	369.2	425.4	464.0	566.7	1297.2	6896.8	16344.7	18672.5	19033.7
40°	282.6	319.5	377.3	403.0	536.2	997.0	6275.5	17275.8	19886.2	20216.9
42.5°	240.8	276.1	332.3	382.1	470.4	744.9	5604.5	18149.2	20977.9	21324.7
45°	200.7	237.6	293.8	404.6	390.1	557.1	4886.9	18728.7	21840.0	22217.3
47.5°	162.1	203.9	280.9	385.3	311.4	409.4	4318.6	19277.8	22493.4	22865.9
50°	130.0	171.8	316.3	343.6	255.3	313.1	4081.0	19769.0	22922.0	23280.1
52.5°	106.0	144.5	298.6	263.3	213.5	258.5	4209.4	20565.3	23318.6	23543.3
55°	88.3	114.0	179.8	183.0	181.4	219.9	4368.3	21708.4	24344.4	24450.4
57.5°	77.1	91.5	125.2	141.3	152.5	195.9	4371.5	23349.1	25932.2	25998.0
60°	65.8	80.3	104.4	114.0	131.6	175.0	4212.6	23922.2	26556.7	26775.0
62.5°	57.8	70.6	86.7	94.7	110.8	157.3	3840.1	23092.2	25699.4	26070.3
65°	51.4	64.2	72.2	80.3	97.9	141.3	3226.9	21432.2	24277.0	24663.9
67.5°	45.0	56.2	64.2	72.2	88.3	125.2	2376.0	19504.1	22644.3	22965.4
70°	40.1	49.8	57.8	64.2	77.1	106.0	1441.7	16550.2	20387.1	20520.4
72.5°	38.5	45.0	53.0	57.8	67.4	93.1	730.5	12162.6	16298.1	16514.9
75°	33.7	40.1	48.2	51.4	59.4	80.3	297.0	7988.5	11811.0	12159.4
77.5°	27.3	36.9	43.3	46.6	51.4	65.8	150.9	5105.2	8288.7	8513.5
80°	9.6	27.3	36.9	38.5	43.3	48.2	99.5	2795.0	4808.2	4904.5
82.5°	0.0	17.7	28.9	27.3	30.5	36.9	64.2	1329.3	3173.9	3209.2
85°	0.0	8.0	22.5	17.7	12.8	25.7	22.5	290.6	1664.8	1733.8
87.5°	0.0	0.0	1.6	8.0	6.4	9.6	3.2	1.6	150.9	191.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)