

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: P324619

Luminaire Tested: **GLEON-SA5D-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324619
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-SA5D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 21133 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

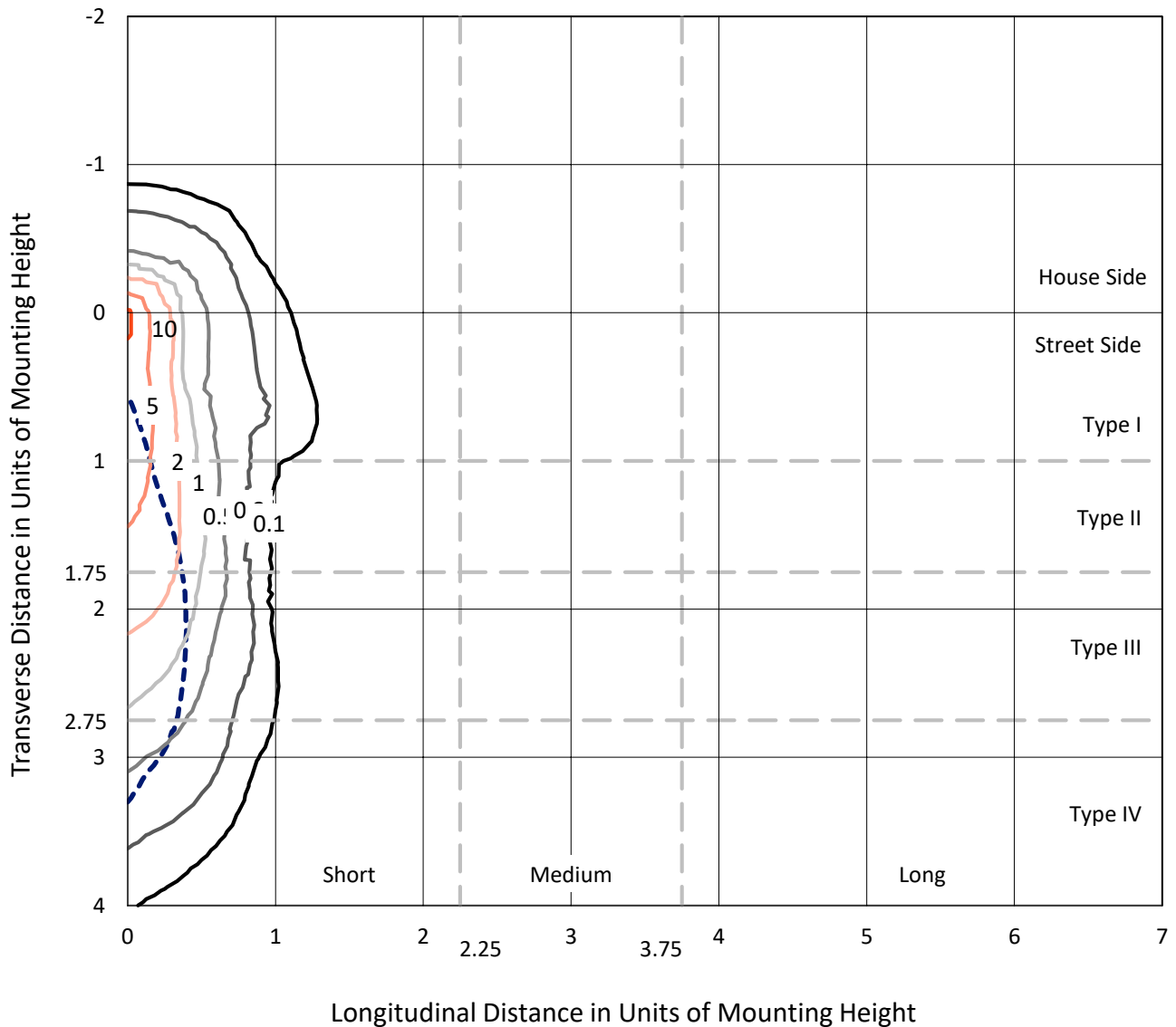
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

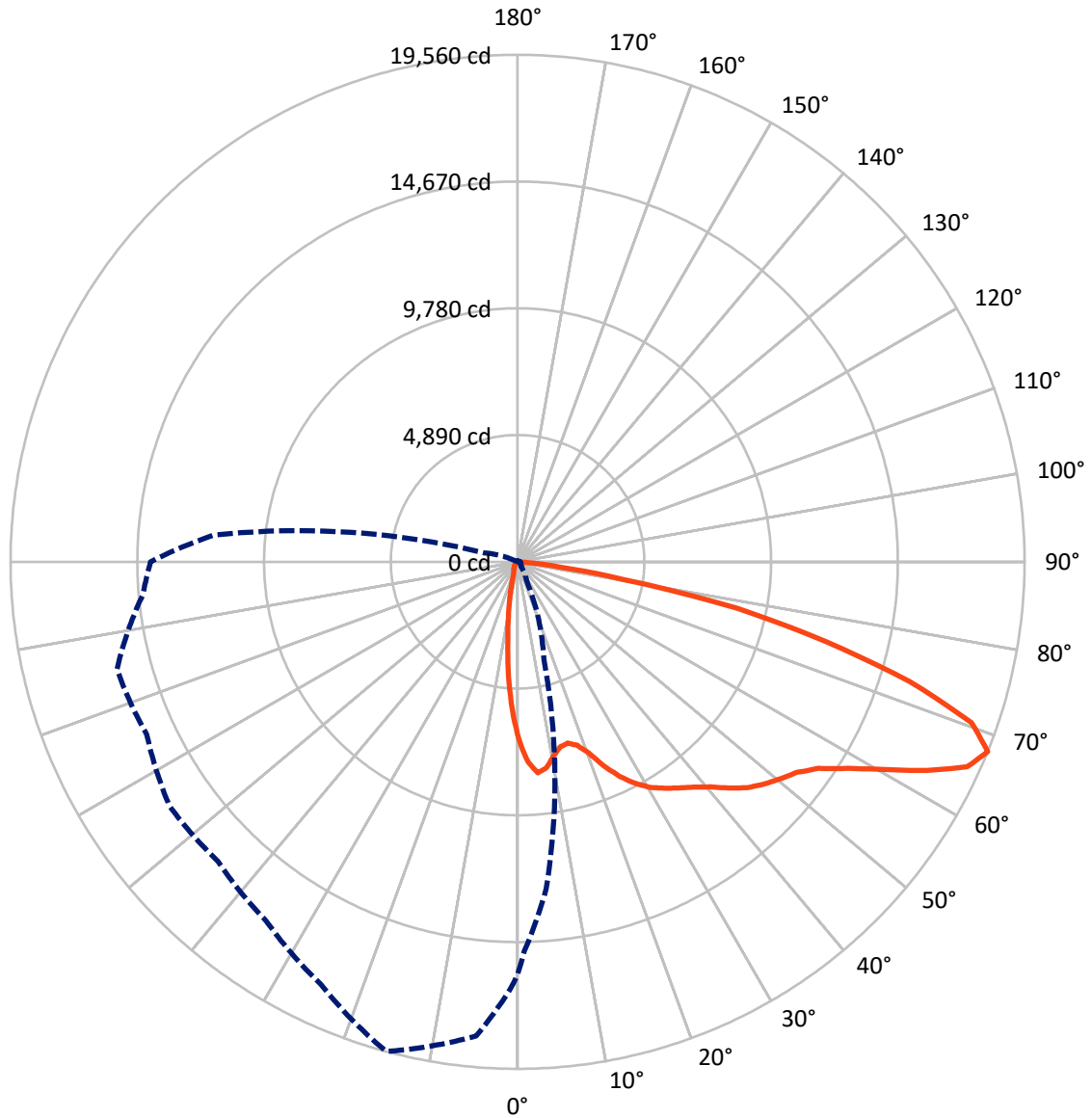
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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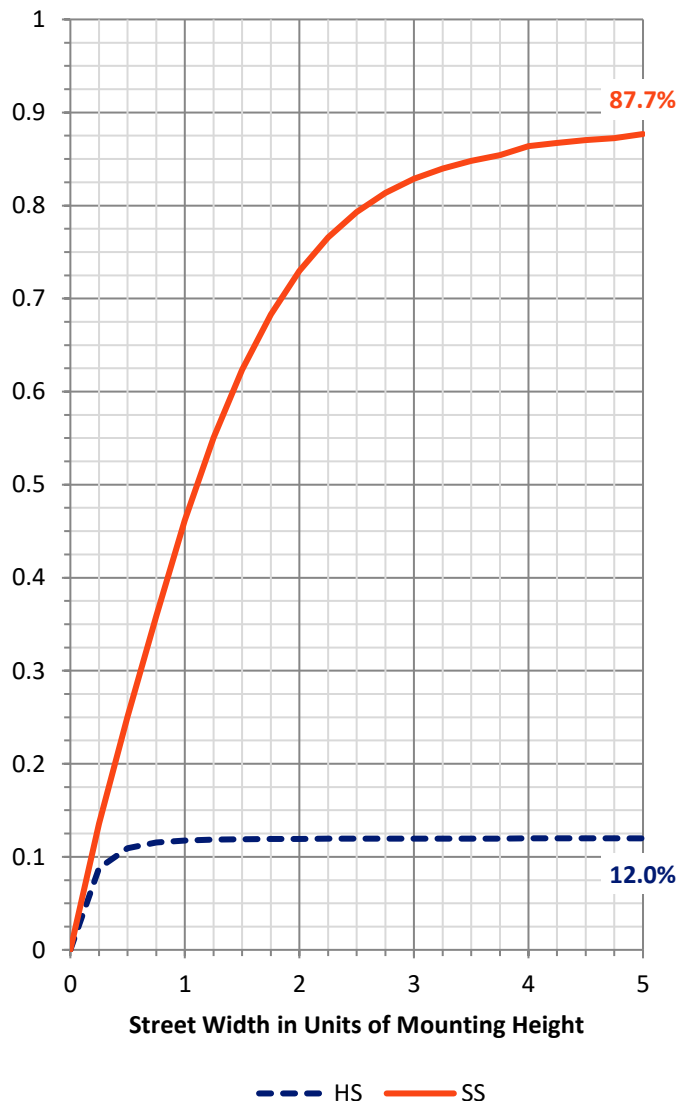
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.8	0.0	2557.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18575.2	0.0	18575.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	21133.0	0.0	21133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.3	2.5
10°-20°	1051.7	5.0
20°-30°	1493.4	7.1
30°-40°	2205.8	10.4
40°-50°	3181.2	15.1
50°-60°	4465.7	21.1
60°-70°	5205.8	24.6
70°-80°	2661.3	12.6
80°-90°	339.9	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°	21133.0	100.0
0°-180°	21133.0	100.0

Coefficient of Utilization



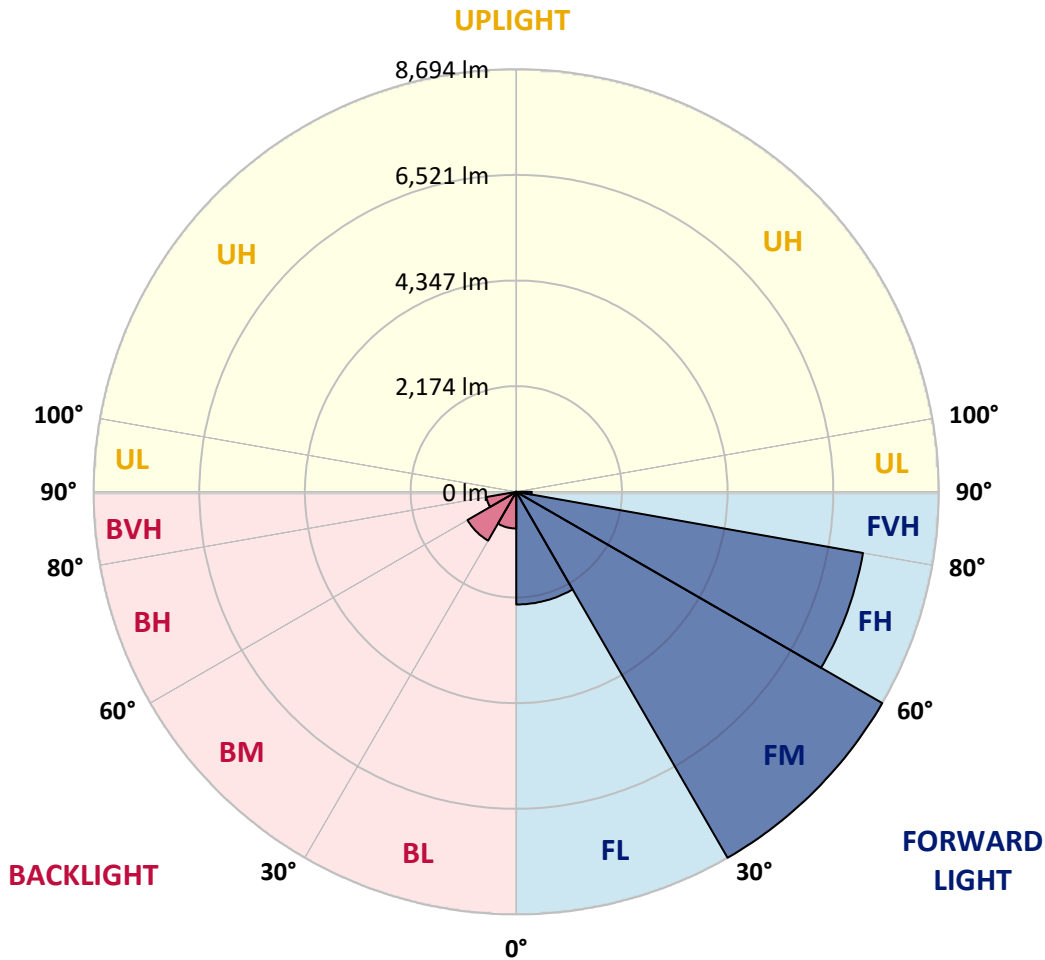
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.9	11.0			
FM (30°-60°)	8694.5	41.1			
FH (60°-80°)	7243.6	34.3			G3/7500
FVH (80°-90°)	319.2	1.5			G3/500
BL (0°-30°)	755.5	3.6	B2/1000		
BM (30°-60°)	1158.3	5.5	B2/2500		
BH (60°-80°)	623.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	20.7	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°	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0
2.5°	7537.8	7479.7	7415.7	7206.4	7012.2	6789.9	6608.7	6482.6	6324.4	6119.1	6067.1
5°	7483.7	7421.7	7220.4	6754.9	6347.4	5950.9	5568.5	5344.2	5065.9	4783.6	4713.5
7.5°	6940.1	6875.0	6584.7	5946.9	5398.3	4825.6	4329.1	4021.7	3707.3	3449.0	3311.9
10°	6374.4	6303.4	5977.0	5203.1	4527.3	4009.7	3645.3	3351.9	3054.6	2778.2	2558.0
12.5°	5985.0	5891.9	5537.5	4660.4	4071.8	3720.3	3379.9	3028.5	2626.1	2329.7	2087.4
15°	5821.8	5715.7	5341.2	4451.2	3910.6	3498.1	3054.6	2623.1	2151.5	1812.1	1589.9
17.5°	5947.9	5809.8	5408.3	4437.2	3708.3	3146.7	2586.0	2079.4	1567.8	1224.4	1066.2
20°	6376.4	6195.2	5685.6	4433.2	3463.0	2729.2	2018.4	1445.7	1033.2	831.0	747.9
22.5°	7051.2	6812.0	6084.1	4465.2	3209.7	2290.7	1457.7	982.1	775.9	670.8	621.7
25°	7866.2	7588.9	6657.8	4578.3	2987.5	1864.2	1059.2	775.9	654.8	577.7	536.6
27.5°	8641.1	8415.8	7382.6	4741.5	2815.3	1519.8	860.0	657.8	559.7	508.6	475.6
30°	9415.0	9131.7	8126.5	4935.8	2608.0	1286.5	755.9	599.7	501.6	447.5	426.5
32.5°	9977.6	9742.4	8709.2	5075.9	2386.8	1134.3	675.8	548.6	468.5	413.5	382.4
35°	10639.4	10373.1	9208.7	5107.0	2244.6	1038.2	607.7	493.6	406.5	357.4	324.4
37.5°	11354.3	11022.9	9785.4	5038.9	2133.5	991.2	556.6	468.5	379.4	329.4	294.3
40°	12145.2	11770.7	10339.1	4940.8	2024.4	975.1	517.6	449.5	358.4	307.4	271.3
42.5°	12978.1	12536.6	10818.6	4837.6	1955.3	920.1	513.6	430.5	342.4	287.3	251.3
45°	13678.0	13230.4	11311.2	4803.6	1906.2	860.0	530.6	417.5	331.4	271.3	236.3
47.5°	14235.6	13812.1	11815.8	4879.7	1878.2	804.9	483.6	434.5	325.4	257.3	223.3
50°	14901.4	14421.8	12526.6	5107.0	1837.1	749.9	437.5	497.6	325.4	248.3	212.2
52.5°	15736.4	15261.8	13319.5	5459.4	1755.0	673.8	393.5	498.6	328.4	236.3	198.2
55°	16786.6	16442.2	14451.9	5845.8	1623.9	561.7	340.4	428.5	316.4	214.3	185.2
57.5°	17793.8	17512.4	15484.1	6110.1	1448.7	438.5	296.3	345.4	289.3	188.2	165.2
59°	18069.1	17761.7	15862.5	6122.1	1317.5	382.4	274.3	285.3	283.3	176.2	153.2
60°	18069.1	17742.7	15971.6	6058.1	1222.4	351.4	260.3	254.3	295.3	168.2	146.2
62.5°	17741.7	17283.2	15617.2	5624.6	997.2	299.3	227.3	210.2	265.3	151.2	129.2
65°	17060.9	16393.1	14409.8	4840.7	889.0	274.3	196.2	172.2	184.2	133.2	113.1
67.5°	15925.6	15020.5	12668.8	3910.6	846.0	267.3	169.2	146.2	139.2	114.1	99.1
70°	13926.3	12922.1	10555.3	3074.6	808.9	264.3	142.2	123.1	112.1	96.1	84.1
72.5°	10135.8	9088.6	7493.7	2403.8	786.9	270.3	114.1	103.1	92.1	75.1	65.1
75°	5797.8	5112.0	4211.9	1587.9	670.8	258.3	88.1	86.1	66.1	54.1	45.1
77.5°	2995.5	2904.4	2523.9	609.7	321.4	113.1	58.1	50.1	39.0	33.0	27.0
80°	1292.5	1278.5	1106.3	176.2	85.1	63.1	33.0	21.0	18.0	14.0	11.0
82.5°	446.5	446.5	393.5	59.1	38.0	31.0	4.0	0.0	0.0	0.0	0.0
85°	90.1	101.1	71.1	0.0	13.0	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°	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0
2.5°	6004.0	5882.9	5874.9	5798.8	5703.7	5660.6	5635.6	5679.6	5733.7	5739.7	5820.8
5°	4660.4	4533.3	4586.4	4451.2	4478.2	4451.2	4407.1	4415.2	4439.2	4364.1	4457.2
7.5°	3272.8	3176.7	3237.8	3201.7	3249.8	3268.8	3241.8	3201.7	3083.6	3069.6	3150.7
10°	2466.9	2357.8	2292.7	2224.6	2239.6	2270.7	2260.6	2231.6	2156.5	2160.5	2238.6
12.5°	1982.3	1860.2	1731.0	1563.8	1522.8	1545.8	1522.8	1505.8	1433.7	1439.7	1508.8
15°	1503.8	1403.6	1268.5	1134.3	1061.2	1068.2	1004.2	959.1	914.1	860.0	902.1
17.5°	1015.2	954.1	914.1	874.0	786.9	766.9	685.8	598.7	564.7	539.6	557.7
20°	718.8	685.8	669.8	667.8	617.7	592.7	513.6	459.5	442.5	437.5	448.5
22.5°	600.7	576.7	553.6	540.6	515.6	486.6	426.5	399.5	387.5	381.4	389.5
25°	522.6	504.6	480.6	458.5	448.5	417.5	374.4	354.4	346.4	340.4	344.4
27.5°	464.5	448.5	420.5	406.5	398.5	371.4	334.4	318.4	311.4	309.4	308.4
30°	418.5	403.5	377.4	361.4	347.4	323.4	301.4	285.3	278.3	276.3	274.3
32.5°	372.4	360.4	343.4	327.4	312.4	290.3	271.3	258.3	247.3	245.3	244.3
35°	314.4	302.4	293.3	292.3	278.3	257.3	243.3	226.3	217.3	214.3	215.3
37.5°	279.3	263.3	243.3	250.3	246.3	231.3	212.2	195.2	186.2	184.2	184.2
40°	257.3	240.3	217.3	205.2	217.3	214.3	184.2	167.2	158.2	157.2	155.2
42.5°	236.3	219.3	193.2	173.2	179.2	188.2	159.2	143.2	134.2	132.2	129.2
45°	221.3	203.2	174.2	151.2	139.2	158.2	136.2	116.1	111.1	107.1	105.1
47.5°	207.2	190.2	157.2	131.2	111.1	114.1	109.1	95.1	89.1	85.1	84.1
50°	195.2	177.2	142.2	112.1	92.1	84.1	88.1	75.1	70.1	66.1	64.1
52.5°	181.2	164.2	126.1	97.1	77.1	66.1	67.1	59.1	54.1	51.1	50.1
55°	170.2	153.2	113.1	85.1	68.1	54.1	48.1	46.1	43.1	41.0	40.0
57.5°	155.2	139.2	100.1	72.1	58.1	44.1	37.0	37.0	36.0	34.0	33.0
59°	146.2	132.2	92.1	65.1	53.1	38.0	33.0	34.0	33.0	31.0	30.0
60°	139.2	126.1	86.1	60.1	50.1	35.0	30.0	32.0	31.0	29.0	28.0
62.5°	123.1	114.1	74.1	50.1	44.1	28.0	25.0	27.0	27.0	26.0	25.0
65°	108.1	98.1	63.1	42.0	41.0	24.0	20.0	24.0	25.0	23.0	21.0
67.5°	94.1	84.1	55.1	34.0	38.0	19.0	15.0	20.0	27.0	21.0	19.0
70°	80.1	70.1	43.1	27.0	40.0	13.0	12.0	18.0	32.0	23.0	18.0
72.5°	62.1	54.1	30.0	20.0	43.1	9.0	9.0	15.0	36.0	25.0	17.0
75°	43.1	35.0	18.0	12.0	35.0	6.0	6.0	14.0	34.0	23.0	16.0
77.5°	25.0	19.0	6.0	1.0	18.0	0.0	1.0	10.0	24.0	14.0	7.0
80°	9.0	4.0	0.0	0.0	11.0	0.0	0.0	0.0	2.0	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°	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0
2.5°	5841.8	5977.0	6098.1	6281.3	6498.6	6748.9	6964.1	7195.4	7412.7	7502.8	7564.8
5°	4476.2	4643.4	4838.6	5108.0	5466.4	5907.9	6321.4	6788.9	7291.5	7542.8	7779.1
7.5°	3164.7	3334.9	3577.2	3863.5	4297.0	4822.6	5363.3	6009.0	6689.8	7087.3	7478.7
10°	2275.7	2484.9	2711.2	3102.6	3543.1	4041.7	4598.4	5319.2	6078.1	6518.6	6990.2
12.5°	1548.8	1787.1	2129.5	2568.0	3085.6	3574.2	4057.7	4745.5	5626.6	6063.1	6568.7
15°	929.1	1061.2	1423.7	1931.3	2566.0	3174.7	3704.3	4394.1	5333.2	5867.8	6393.5
17.5°	572.7	633.7	831.0	1247.5	1914.2	2684.1	3410.0	4275.0	5375.3	6026.0	6588.7
20°	456.5	480.6	543.6	736.9	1268.5	2143.5	3078.6	4251.0	5718.7	6519.6	7123.3
22.5°	396.5	419.5	461.5	535.6	797.9	1604.9	2764.2	4273.0	6211.3	7259.5	7964.3
25°	349.4	369.4	409.5	470.5	584.7	1130.3	2427.8	4371.1	6853.0	8177.5	8926.4
27.5°	312.4	329.4	366.4	422.5	501.6	788.9	2046.4	4490.2	7613.9	9116.6	9855.5
30°	278.3	293.3	326.4	378.4	435.5	606.7	1627.9	4571.3	8375.8	9855.5	10519.3
32.5°	249.3	260.3	290.3	334.4	378.4	483.6	1237.4	4558.3	8941.4	10470.2	10996.8
35°	219.3	230.3	256.3	294.3	329.4	399.5	973.1	4315.0	9434.0	11108.0	11543.5
37.5°	186.2	200.2	225.3	259.3	283.3	351.4	786.9	4021.7	9933.6	11836.8	12153.2
40°	158.2	172.2	194.2	231.3	246.3	333.4	604.7	3664.3	10495.3	12651.8	12822.0
42.5°	131.2	144.2	167.2	199.2	232.3	287.3	447.5	3255.8	11034.9	13348.6	13431.7
45°	106.1	119.1	143.2	175.2	248.3	238.3	346.4	2818.3	11470.4	13928.3	13955.3
47.5°	84.1	96.1	121.1	165.2	231.3	190.2	247.3	2474.9	11835.8	14380.8	14309.7
50°	65.1	75.1	101.1	189.2	202.2	157.2	187.2	2360.8	12163.2	14661.1	14476.9
52.5°	51.1	60.1	83.1	177.2	157.2	130.2	157.2	2467.9	12611.7	14893.4	14571.0
55°	41.0	50.1	65.1	101.1	107.1	110.1	134.2	2568.0	13385.6	15438.0	15126.7
57.5°	34.0	43.1	53.1	71.1	81.1	93.1	119.1	2579.0	14297.7	16343.1	16048.7
59°	31.0	39.0	48.1	63.1	71.1	85.1	112.1	2518.9	14619.1	16672.5	16525.3
60°	29.0	37.0	45.1	58.1	66.1	80.1	108.1	2461.9	14633.1	16660.4	16728.5
62.5°	25.0	33.0	40.0	49.1	56.1	68.1	97.1	2250.6	14040.4	16114.8	16606.4
65°	22.0	29.0	36.0	42.0	48.1	61.1	88.1	1865.2	13028.2	15234.8	15770.4
67.5°	20.0	25.0	33.0	37.0	43.1	54.1	78.1	1329.6	11763.7	14158.5	14505.9
70°	18.0	24.0	30.0	34.0	39.0	47.1	67.1	763.9	9933.6	12582.7	12830.0
72.5°	17.0	23.0	27.0	32.0	35.0	42.0	61.1	359.4	7273.5	10079.8	10725.5
75°	15.0	21.0	25.0	30.0	33.0	38.0	52.1	172.2	4837.6	7294.5	8028.4
77.5°	9.0	17.0	23.0	27.0	29.0	33.0	43.1	99.1	3087.6	5048.9	5946.9
80°	0.0	6.0	17.0	23.0	25.0	28.0	33.0	78.1	1651.9	2884.4	3462.0
82.5°	0.0	0.0	12.0	18.0	17.0	19.0	25.0	49.1	744.9	1885.2	2124.5
85°	0.0	0.0	4.0	14.0	12.0	9.0	17.0	17.0	163.2	954.1	1190.4
87.5°	0.0	0.0	0.0	1.0	6.0	4.0	7.0	2.0	1.0	71.1	288.3
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: P324619

CATALOG NUMBER: GLEON-SA5D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0	6884.0
2.5°	7782.1	7856.2	7981.3	8040.4	8011.4	7888.2	7741.0	7590.9	7502.8	7537.8
5°	8260.6	8642.1	8862.3	8935.4	8813.3	8537.0	8175.5	7699.0	7529.8	7483.7
7.5°	8260.6	8978.5	9433.0	9513.1	9240.8	8699.2	8021.4	7277.5	7030.2	6940.1
10°	7970.3	8947.4	9581.2	9708.3	9327.9	8517.9	7609.9	6760.9	6467.5	6374.4
12.5°	7642.9	8695.1	9362.9	9538.1	9225.8	8337.7	7324.5	6411.5	6066.1	5985.0
15°	7441.7	8384.8	8937.4	9064.6	8932.4	8232.6	7256.5	6306.4	5899.9	5821.8
17.5°	7513.8	8144.5	8343.7	8417.8	8506.9	8195.6	7441.7	6536.6	6022.0	5947.9
20°	7785.1	7891.2	7788.1	7881.2	8121.5	8231.6	7883.2	7093.3	6475.6	6376.4
22.5°	8245.6	7760.1	7470.7	7507.8	7800.1	8350.7	8558.0	7888.2	7175.4	7051.2
25°	8782.3	7866.2	7294.5	7261.5	7561.8	8507.9	9174.7	8753.2	8003.3	7866.2
27.5°	9457.0	8104.5	7258.5	7225.4	7478.7	8655.1	9687.3	9608.2	8875.4	8641.1
30°	9977.6	8338.7	7365.6	7289.5	7561.8	8757.2	10098.8	10334.1	9570.2	9415.0
32.5°	10351.1	8615.1	7539.8	7429.7	7796.1	8933.4	10416.2	10998.8	10212.9	9977.6
35°	10635.4	8915.4	7821.1	7639.9	8118.5	9200.7	10713.5	11706.7	10896.7	10639.4
37.5°	10901.7	9336.9	8260.6	8044.4	8624.1	9631.2	11027.9	12509.6	11661.6	11354.3
40°	11273.2	9814.5	8938.4	8746.2	9474.1	10217.9	11420.3	13346.6	12531.6	12145.2
42.5°	11644.6	10327.1	9632.2	9684.3	10534.3	10930.8	11926.9	14231.6	13390.6	12978.1
45°	11984.0	10855.7	10620.4	10860.7	11518.4	11712.7	12430.5	14743.2	14076.4	13678.0
47.5°	12286.3	11516.4	11602.5	12242.3	12637.8	12420.5	12806.9	15184.7	14587.0	14235.6
50°	12637.8	12371.4	12897.1	13802.1	13926.3	13061.2	13149.3	15707.3	15183.7	14901.4
52.5°	13022.2	13272.5	14330.7	15128.7	15088.6	13757.1	13493.8	16293.0	16001.7	15736.4
55°	13458.7	14000.3	15593.2	16370.1	16336.1	14534.0	14064.4	17016.9	17026.9	16786.6
57.5°	14106.5	14627.1	16450.2	17374.3	17431.3	15431.0	15031.5	17827.8	17954.0	17793.8
59°	14571.0	15033.5	16789.6	17793.8	18026.0	16124.8	15738.4	18298.4	18215.3	18069.1
60°	14915.4	15291.8	16957.8	18013.0	18371.4	16595.4	16260.0	18574.7	18246.3	18069.1
62.5°	15767.4	15854.5	17261.1	18261.3	18768.9	17640.6	17727.7	19045.2	18031.0	17741.7
65°	16164.9	16209.9	17257.1	17816.8	18384.5	18454.5	19059.2	19059.2	17505.4	17060.9
67.5°	15998.7	15781.4	16401.1	16343.1	16909.7	17971.0	19559.8	18360.4	16500.3	15925.6
70°	14647.1	13811.1	13535.8	13560.8	13994.3	15631.2	18568.7	16304.0	14598.0	13926.3
72.5°	12187.2	10181.9	9502.1	10278.0	10391.1	12013.0	15824.5	12278.3	10765.6	10135.8
75°	9802.4	7177.4	6072.1	6891.0	7083.3	8791.3	12241.3	7646.9	6288.3	5797.8
77.5°	7042.2	5152.0	4357.1	4300.0	4548.3	5575.5	8686.1	3848.5	3209.7	2995.5
80°	4000.7	3391.0	3651.3	3445.0	3570.2	3486.1	4126.8	1688.0	1382.6	1292.5
82.5°	2414.8	2004.3	2170.5	1807.1	2286.7	1991.3	1589.9	540.6	469.5	446.5
85°	1570.8	1095.3	570.7	382.4	787.9	1272.5	355.4	147.2	113.1	90.1
87.5°	541.6	279.3	28.0	12.0	84.1	237.3	13.0	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)