

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: P324608

Luminaire Tested: **GLEON-SA4C-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324608
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-SA4C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 15549 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 225
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

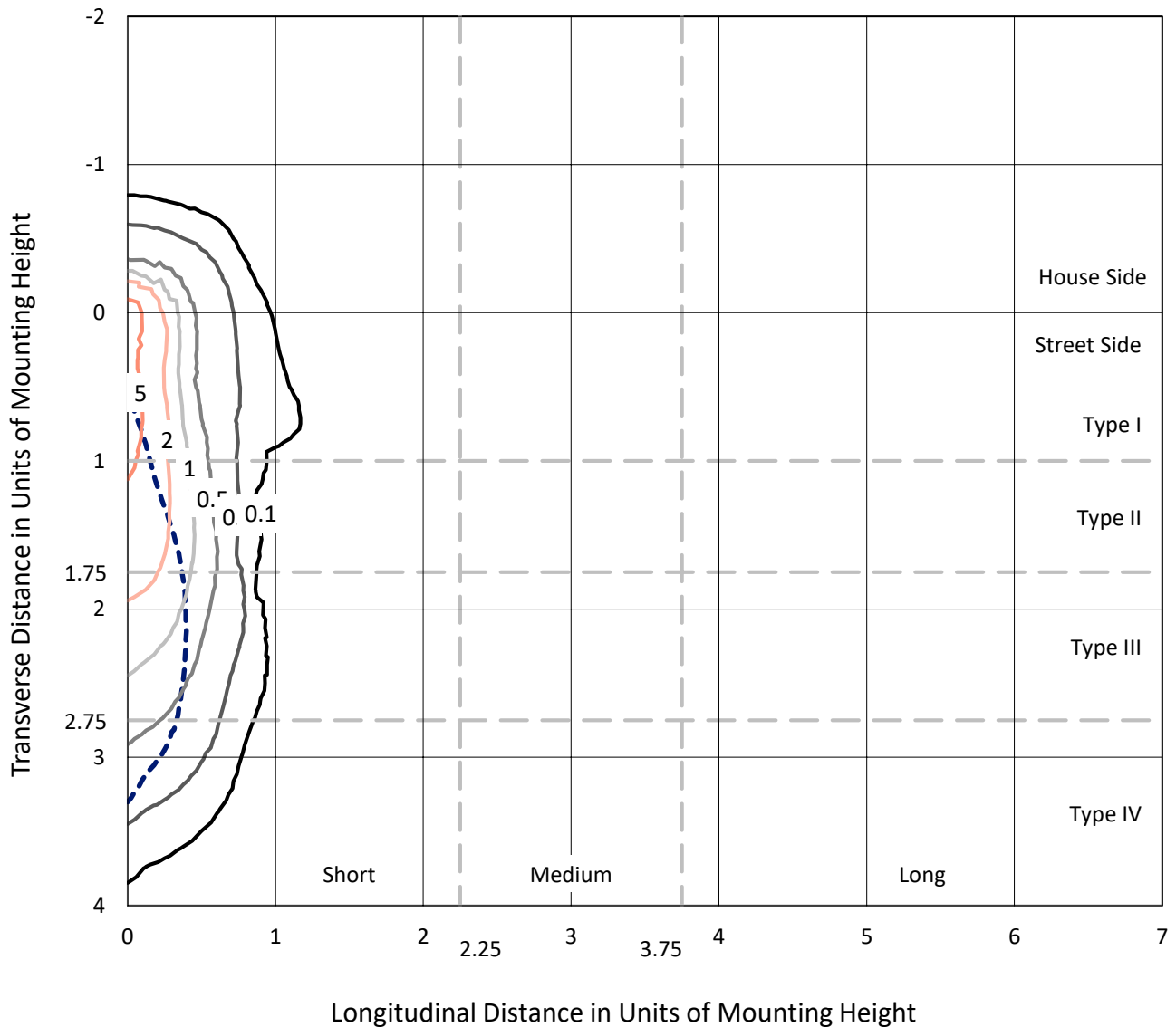




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Iso-Footcandle Lines of Horizontal Illumination

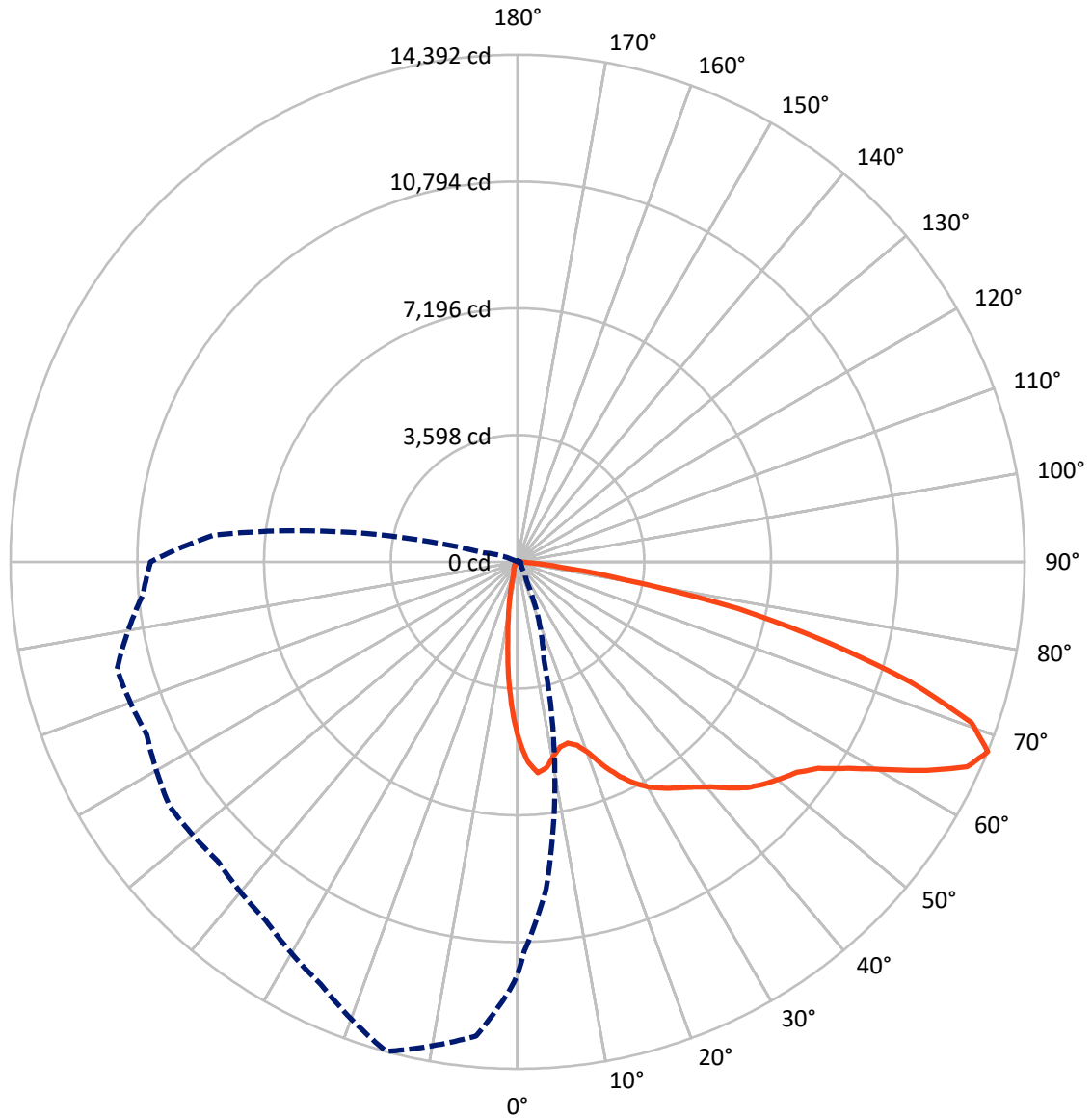
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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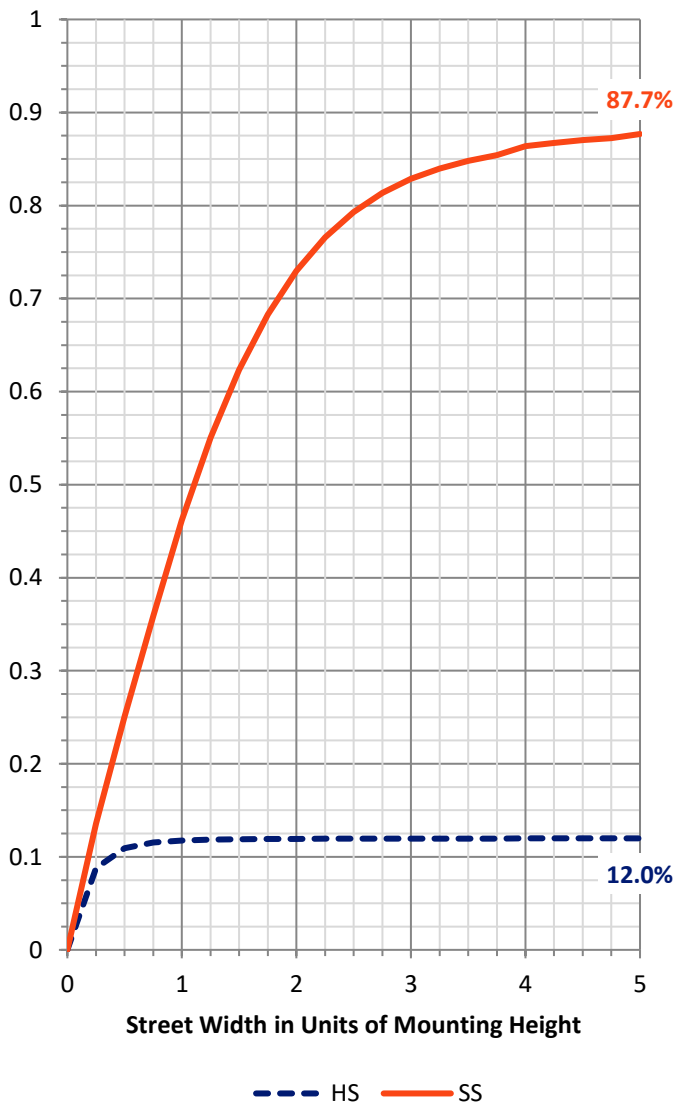
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1881.9	0.0	1881.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13667.1	0.0	13667.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	15549.0	0.0	15549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.7	2.5
10°-20°	773.8	5.0
20°-30°	1098.8	7.1
30°-40°	1622.9	10.4
40°-50°	2340.6	15.1
50°-60°	3285.8	21.1
60°-70°	3830.2	24.6
70°-80°	1958.1	12.6
80°-90°	250.1	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°	15549.0	100.0
0°-180°	15549.0	100.0



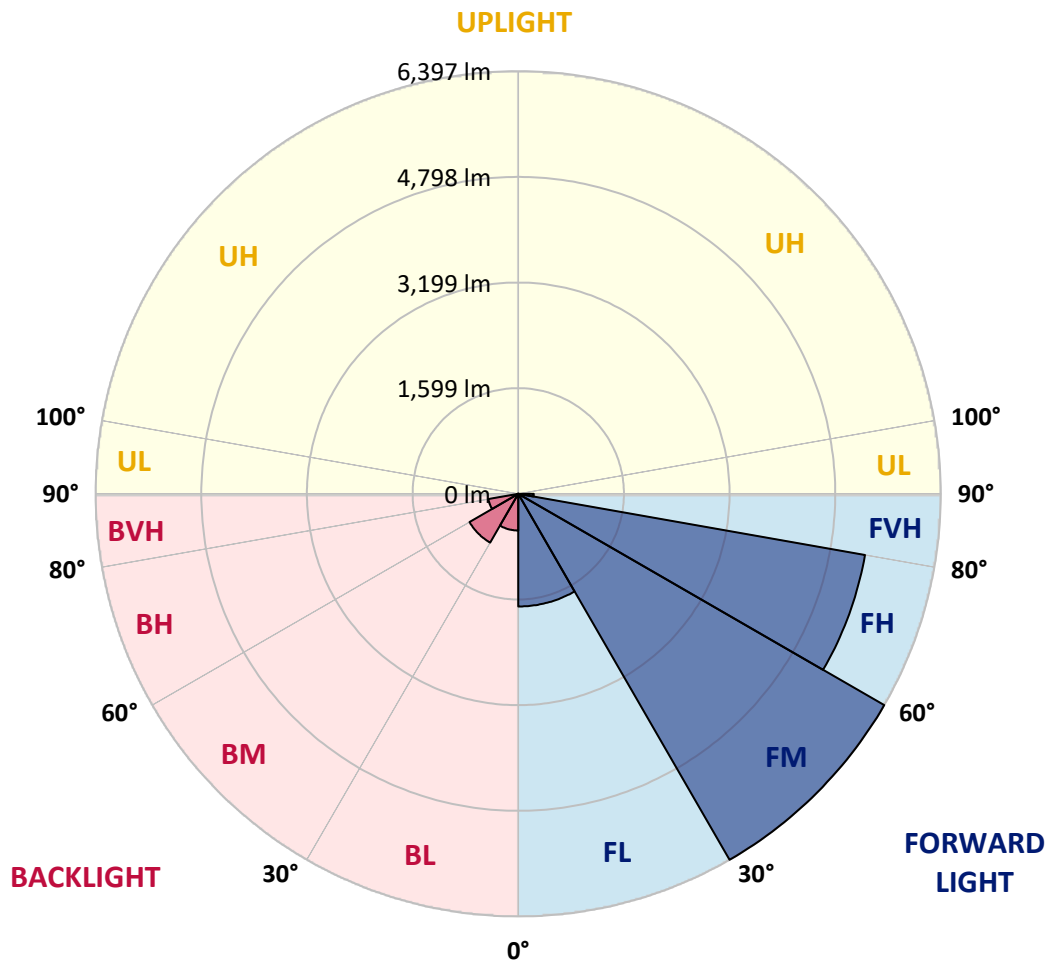
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1705.4	11.0			
FM	(30°-60°)	6397.1	41.1			
FH	(60°-80°)	5329.7	34.3			G3/7500
FVH	(80°-90°)	234.9	1.5			G3/500
BL	(0°-30°)	555.9	3.6	B2/1000		
BM	(30°-60°)	852.2	5.5	B1/1000		
BH	(60°-80°)	458.7	2.9	B1/500		G1/500
BVH	(80°-90°)	15.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	5546.1	5503.4	5456.2	5302.3	5159.3	4995.8	4862.5	4769.7	4653.3	4502.3	4464.0
5°	5506.3	5460.6	5312.6	4970.0	4670.2	4378.5	4097.1	3932.1	3727.3	3519.6	3468.0
7.5°	5106.3	5058.4	4844.8	4375.6	3971.9	3550.5	3185.2	2959.0	2727.7	2537.7	2436.8
10°	4690.1	4637.8	4397.7	3828.3	3331.0	2950.2	2682.1	2466.2	2247.5	2044.1	1882.1
12.5°	4403.6	4335.1	4074.3	3429.0	2995.9	2737.3	2486.9	2228.3	1932.2	1714.1	1535.9
15°	4283.5	4205.4	3929.9	3275.1	2877.3	2573.8	2247.5	1930.0	1583.0	1333.3	1169.8
17.5°	4376.3	4274.7	3979.3	3264.7	2728.5	2315.2	1902.7	1530.0	1153.6	900.9	784.5
20°	4691.6	4558.3	4183.3	3261.8	2548.0	2008.0	1485.0	1063.7	760.2	611.4	550.3
22.5°	5188.1	5012.0	4476.5	3285.4	2361.6	1685.4	1072.5	722.6	570.9	493.5	457.4
25°	5787.7	5583.6	4898.6	3368.6	2198.1	1371.6	779.4	570.9	481.8	425.0	394.8
27.5°	6357.8	6192.1	5431.9	3488.7	2071.4	1118.2	632.8	484.0	411.8	374.2	349.9
30°	6927.3	6718.8	5979.2	3631.6	1918.9	946.6	556.2	441.2	369.1	329.3	313.8
32.5°	7341.2	7168.1	6407.9	3734.7	1756.1	834.6	497.2	403.7	344.7	304.2	281.4
35°	7828.2	7632.2	6775.5	3757.5	1651.5	763.9	447.1	363.2	299.1	263.0	238.7
37.5°	8354.1	8110.3	7199.8	3707.5	1569.8	729.3	409.6	344.7	279.2	242.4	216.6
40°	8936.0	8660.5	7607.2	3635.3	1489.5	717.5	380.8	330.7	263.7	226.1	199.6
42.5°	9548.9	9224.1	7960.0	3559.4	1438.6	677.0	377.9	316.8	251.9	211.4	184.9
45°	10063.8	9734.5	8322.4	3534.3	1402.5	632.8	390.4	307.2	243.8	199.6	173.8
47.5°	10474.1	10162.5	8693.7	3590.3	1381.9	592.2	355.8	319.7	239.4	189.3	164.3
50°	10964.0	10611.1	9216.7	3757.5	1351.7	551.7	321.9	366.1	239.4	182.7	156.2
52.5°	11578.3	11229.2	9800.1	4016.8	1291.3	495.8	289.5	366.8	241.6	173.8	145.9
55°	12351.1	12097.7	10633.2	4301.2	1194.8	413.2	250.5	315.3	232.8	157.6	136.3
57.5°	13092.1	12885.1	11392.7	4495.6	1065.9	322.6	218.0	254.1	212.9	138.5	121.5
59°	13294.7	13068.5	11671.1	4504.5	969.4	281.4	201.8	209.9	208.5	129.6	112.7
60°	13294.7	13054.5	11751.4	4457.3	899.4	258.6	191.5	187.1	217.3	123.8	107.5
62.5°	13053.8	12716.4	11490.7	4138.4	733.7	220.3	167.2	154.7	195.2	111.2	95.0
65°	12552.9	12061.6	10602.3	3561.6	654.1	201.8	144.4	126.7	135.5	98.0	83.2
67.5°	11717.6	11051.6	9321.3	2877.3	622.5	196.7	124.5	107.5	102.4	84.0	72.9
70°	10246.5	9507.7	7766.3	2262.2	595.2	194.5	104.6	90.6	82.5	70.7	61.9
72.5°	7457.6	6687.1	5513.7	1768.6	579.0	198.9	84.0	75.9	67.8	55.2	47.9
75°	4265.8	3761.2	3099.0	1168.3	493.5	190.1	64.8	63.4	48.6	39.8	33.1
77.5°	2204.0	2137.0	1857.0	448.6	236.5	83.2	42.7	36.8	28.7	24.3	19.9
80°	951.0	940.7	814.0	129.6	62.6	46.4	24.3	15.5	13.3	10.3	8.1
82.5°	328.5	328.5	289.5	43.5	28.0	22.8	2.9	0.0	0.0	0.0	0.0
85°	66.3	74.4	52.3	0.0	9.6	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°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	4417.6	4328.4	4322.5	4266.6	4196.6	4164.9	4146.5	4178.9	4218.7	4223.1	4282.8
5°	3429.0	3335.5	3374.5	3275.1	3294.9	3275.1	3242.6	3248.5	3266.2	3211.0	3279.5
7.5°	2408.0	2337.3	2382.3	2355.7	2391.1	2405.1	2385.2	2355.7	2268.8	2258.5	2318.2
10°	1815.1	1734.8	1686.9	1636.8	1647.8	1670.7	1663.3	1641.9	1586.7	1589.6	1647.1
12.5°	1458.5	1368.7	1273.6	1150.6	1120.4	1137.4	1120.4	1107.9	1054.9	1059.3	1110.1
15°	1106.4	1032.8	933.3	834.6	780.8	786.0	738.8	705.7	672.5	632.8	663.7
17.5°	746.9	702.0	672.5	643.1	579.0	564.3	504.6	440.5	415.5	397.0	410.3
20°	528.9	504.6	492.8	491.3	454.5	436.1	377.9	338.1	325.6	321.9	330.0
22.5°	442.0	424.3	407.4	397.8	379.4	358.0	313.8	293.9	285.1	280.7	286.5
25°	384.5	371.3	353.6	337.4	330.0	307.2	275.5	260.8	254.9	250.5	253.4
27.5°	341.8	330.0	309.4	299.1	293.2	273.3	246.0	234.2	229.1	227.6	226.9
30°	307.9	296.9	277.7	265.9	255.6	237.9	221.7	209.9	204.8	203.3	201.8
32.5°	274.0	265.2	252.7	240.9	229.8	213.6	199.6	190.1	181.9	180.5	179.7
35°	231.3	222.5	215.8	215.1	204.8	189.3	179.0	166.5	159.8	157.6	158.4
37.5°	205.5	193.7	179.0	184.2	181.2	170.2	156.2	143.6	137.0	135.5	135.5
40°	189.3	176.8	159.8	151.0	159.8	157.6	135.5	123.0	116.4	115.7	114.2
42.5°	173.8	161.3	142.2	127.4	131.9	138.5	117.1	105.3	98.7	97.2	95.0
45°	162.8	149.5	128.2	111.2	102.4	116.4	100.2	85.4	81.8	78.8	77.3
47.5°	152.5	140.0	115.7	96.5	81.8	84.0	80.3	70.0	65.6	62.6	61.9
50°	143.6	130.4	104.6	82.5	67.8	61.9	64.8	55.2	51.6	48.6	47.1
52.5°	133.3	120.8	92.8	71.5	56.7	48.6	49.4	43.5	39.8	37.6	36.8
55°	125.2	112.7	83.2	62.6	50.1	39.8	35.4	33.9	31.7	30.2	29.5
57.5°	114.2	102.4	73.7	53.0	42.7	32.4	27.3	27.3	26.5	25.0	24.3
59°	107.5	97.2	67.8	47.9	39.0	28.0	24.3	25.0	24.3	22.8	22.1
60°	102.4	92.8	63.4	44.2	36.8	25.8	22.1	23.6	22.8	21.4	20.6
62.5°	90.6	84.0	54.5	36.8	32.4	20.6	18.4	19.9	19.9	19.2	18.4
65°	79.6	72.2	46.4	30.9	30.2	17.7	14.7	17.7	18.4	16.9	15.5
67.5°	69.2	61.9	40.5	25.0	28.0	14.0	11.0	14.7	19.9	15.5	14.0
70°	58.9	51.6	31.7	19.9	29.5	9.6	8.8	13.3	23.6	16.9	13.3
72.5°	45.7	39.8	22.1	14.7	31.7	6.6	6.6	11.0	26.5	18.4	12.5
75°	31.7	25.8	13.3	8.8	25.8	4.4	4.4	10.3	25.0	16.9	11.8
77.5°	18.4	14.0	4.4	0.7	13.3	0.0	0.7	7.4	17.7	10.3	5.2
80°	6.6	2.9	0.0	0.0	8.1	0.0	0.0	0.0	1.5	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°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	4298.2	4397.7	4486.8	4621.6	4781.5	4965.6	5124.0	5294.1	5454.0	5520.3	5566.0
5°	3293.5	3416.5	3560.1	3758.3	4022.0	4346.8	4651.1	4995.1	5364.9	5549.8	5723.6
7.5°	2328.5	2453.7	2632.0	2842.6	3161.6	3548.3	3946.1	4421.2	4922.2	5214.6	5502.6
10°	1674.4	1828.3	1994.8	2282.8	2606.9	2973.8	3383.3	3913.7	4472.1	4796.2	5143.1
12.5°	1139.6	1314.9	1566.8	1889.5	2270.3	2629.8	2985.6	3491.6	4139.9	4461.0	4833.0
15°	683.6	780.8	1047.5	1421.0	1888.0	2335.8	2725.5	3233.1	3924.0	4317.4	4704.1
17.5°	421.4	466.3	611.4	917.8	1408.4	1974.9	2509.0	3145.4	3955.0	4433.8	4847.8
20°	335.9	353.6	400.0	542.2	933.3	1577.1	2265.1	3127.7	4207.6	4796.9	5241.1
22.5°	291.7	308.6	339.6	394.1	587.1	1180.8	2033.8	3143.9	4570.0	5341.3	5859.9
25°	257.1	271.8	301.3	346.2	430.2	831.7	1786.3	3216.1	5042.2	6016.8	6567.8
27.5°	229.8	242.4	269.6	310.9	369.1	580.5	1505.7	3303.8	5602.1	6707.7	7251.4
30°	204.8	215.8	240.1	278.4	320.4	446.4	1197.8	3363.4	6162.6	7251.4	7739.8
32.5°	183.4	191.5	213.6	246.0	278.4	355.8	910.5	3353.9	6578.8	7703.7	8091.1
35°	161.3	169.4	188.6	216.6	242.4	293.9	716.0	3174.9	6941.3	8172.9	8493.3
37.5°	137.0	147.3	165.7	190.8	208.5	258.6	579.0	2959.0	7308.8	8709.2	8941.9
40°	116.4	126.7	142.9	170.2	181.2	245.3	444.9	2696.1	7722.1	9308.8	9434.0
42.5°	96.5	106.1	123.0	146.6	170.9	211.4	329.3	2395.5	8119.1	9821.5	9882.6
45°	78.1	87.7	105.3	128.9	182.7	175.3	254.9	2073.6	8439.6	10248.0	10267.9
47.5°	61.9	70.7	89.1	121.5	170.2	140.0	181.9	1820.9	8708.4	10580.9	10528.6
50°	47.9	55.2	74.4	139.2	148.8	115.7	137.7	1737.0	8949.3	10787.2	10651.6
52.5°	37.6	44.2	61.1	130.4	115.7	95.8	115.7	1815.8	9279.3	10958.1	10720.9
55°	30.2	36.8	47.9	74.4	78.8	81.0	98.7	1889.5	9848.7	11358.8	11129.7
57.5°	25.0	31.7	39.0	52.3	59.7	68.5	87.7	1897.6	10519.8	12024.7	11808.2
59°	22.8	28.7	35.4	46.4	52.3	62.6	82.5	1853.4	10756.3	12267.1	12158.8
60°	21.4	27.3	33.1	42.7	48.6	58.9	79.6	1811.4	10766.6	12258.2	12308.3
62.5°	18.4	24.3	29.5	36.1	41.3	50.1	71.5	1655.9	10330.5	11856.8	12218.5
65°	16.2	21.4	26.5	30.9	35.4	44.9	64.8	1372.3	9585.7	11209.3	11603.4
67.5°	14.7	18.4	24.3	27.3	31.7	39.8	57.5	978.2	8655.4	10417.4	10673.0
70°	13.3	17.7	22.1	25.0	28.7	34.6	49.4	562.0	7308.8	9257.9	9439.9
72.5°	12.5	16.9	19.9	23.6	25.8	30.9	44.9	264.4	5351.6	7416.4	7891.5
75°	11.0	15.5	18.4	22.1	24.3	28.0	38.3	126.7	3559.4	5367.1	5907.0
77.5°	6.6	12.5	16.9	19.9	21.4	24.3	31.7	72.9	2271.8	3714.8	4375.6
80°	0.0	4.4	12.5	16.9	18.4	20.6	24.3	57.5	1215.4	2122.2	2547.3
82.5°	0.0	0.0	8.8	13.3	12.5	14.0	18.4	36.1	548.1	1387.1	1563.1
85°	0.0	0.0	2.9	10.3	8.8	6.6	12.5	12.5	120.1	702.0	875.9
87.5°	0.0	0.0	0.0	0.7	4.4	2.9	5.2	1.5	0.7	52.3	212.1
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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CATALOG NUMBER: GLEON-SA4C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	5725.8	5780.3	5872.4	5915.9	5894.5	5803.9	5695.6	5585.1	5520.3	5546.1
5°	6077.9	6358.6	6520.6	6574.4	6484.5	6281.2	6015.3	5664.7	5540.2	5506.3
7.5°	6077.9	6606.1	6940.5	6999.4	6799.1	6400.6	5901.9	5354.6	5172.6	5106.3
10°	5864.3	6583.2	7049.5	7143.1	6863.2	6267.2	5599.1	4974.5	4758.6	4690.1
12.5°	5623.4	6397.6	6889.0	7017.9	6788.0	6134.6	5389.2	4717.4	4463.2	4403.6
15°	5475.4	6169.3	6575.9	6669.4	6572.2	6057.3	5339.1	4640.0	4341.0	4283.5
17.5°	5528.4	5992.5	6139.1	6193.6	6259.1	6030.0	5475.4	4809.4	4430.8	4376.3
20°	5728.0	5806.1	5730.2	5798.7	5975.5	6056.6	5800.2	5219.0	4764.5	4691.6
22.5°	6066.9	5709.6	5496.7	5524.0	5739.1	6144.2	6296.7	5803.9	5279.4	5188.1
25°	6461.7	5787.7	5367.1	5342.8	5563.8	6259.9	6750.5	6440.3	5888.6	5787.7
27.5°	6958.2	5963.0	5340.6	5316.2	5502.6	6368.2	7127.6	7069.4	6530.2	6357.8
30°	7341.2	6135.4	5419.4	5363.4	5563.8	6443.3	7430.4	7603.5	7041.4	6927.3
32.5°	7616.0	6338.7	5547.5	5466.5	5736.1	6572.9	7663.9	8092.6	7514.3	7341.2
35°	7825.2	6559.7	5754.5	5621.2	5973.3	6769.6	7882.7	8613.4	8017.5	7828.2
37.5°	8021.1	6869.8	6077.9	5918.8	6345.3	7086.4	8114.0	9204.2	8580.2	8354.1
40°	8294.4	7221.2	6576.6	6435.2	6970.7	7518.0	8402.7	9820.0	9220.4	8936.0
42.5°	8567.7	7598.3	7087.1	7125.4	7750.8	8042.5	8775.5	10471.2	9852.4	9548.9
45°	8817.4	7987.3	7814.2	7990.9	8474.9	8617.8	9146.0	10847.6	10357.0	10063.8
47.5°	9039.9	8473.4	8536.8	9007.5	9298.5	9138.6	9423.0	11172.4	10732.7	10474.1
50°	9298.5	9102.5	9489.2	10155.2	10246.5	9610.1	9674.9	11557.0	11171.7	10964.0
52.5°	9581.3	9765.5	10544.1	11131.2	11101.7	10122.0	9928.3	11987.9	11773.5	11578.3
55°	9902.5	10301.0	11473.0	12044.6	12019.6	10693.6	10348.2	12520.5	12527.8	12351.1
57.5°	10379.1	10762.1	12103.5	12783.5	12825.4	11353.7	11059.7	13117.1	13210.0	13092.1
59°	10720.9	11061.2	12353.3	13092.1	13263.0	11864.1	11579.8	13463.4	13402.2	13294.7
60°	10974.3	11251.3	12477.0	13253.4	13517.1	12210.4	11963.6	13666.7	13425.1	13294.7
62.5°	11601.2	11665.2	12700.2	13436.1	13809.6	12979.4	13043.5	14012.9	13266.7	13053.8
65°	11893.6	11926.8	12697.3	13109.0	13526.7	13578.3	14023.2	14023.2	12880.0	12552.9
67.5°	11771.3	11611.5	12067.4	12024.7	12441.7	13222.5	14391.5	13509.0	12140.4	11717.6
70°	10776.9	10161.8	9959.2	9977.6	10296.6	11501.0	13662.2	11996.0	10740.8	10246.5
72.5°	8967.0	7491.5	6991.3	7562.2	7645.5	8838.8	11643.2	9034.0	7921.0	7457.6
75°	7212.3	5280.9	4467.7	5070.2	5211.6	6468.3	9006.8	5626.4	4626.8	4265.8
77.5°	5181.4	3790.7	3205.8	3163.8	3346.5	4102.3	6391.0	2831.6	2361.6	2204.0
80°	2943.6	2495.0	2686.5	2534.7	2626.8	2564.9	3036.4	1242.0	1017.3	951.0
82.5°	1776.7	1474.7	1597.0	1329.6	1682.5	1465.2	1169.8	397.8	345.5	328.5
85°	1155.8	805.9	419.9	281.4	579.7	936.3	261.5	108.3	83.2	66.3
87.5°	398.5	205.5	20.6	8.8	61.9	174.6	9.6	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)