

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: P383396

Luminaire Tested: **GLEON-SA7A-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383396
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-SA7A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 22762.4 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

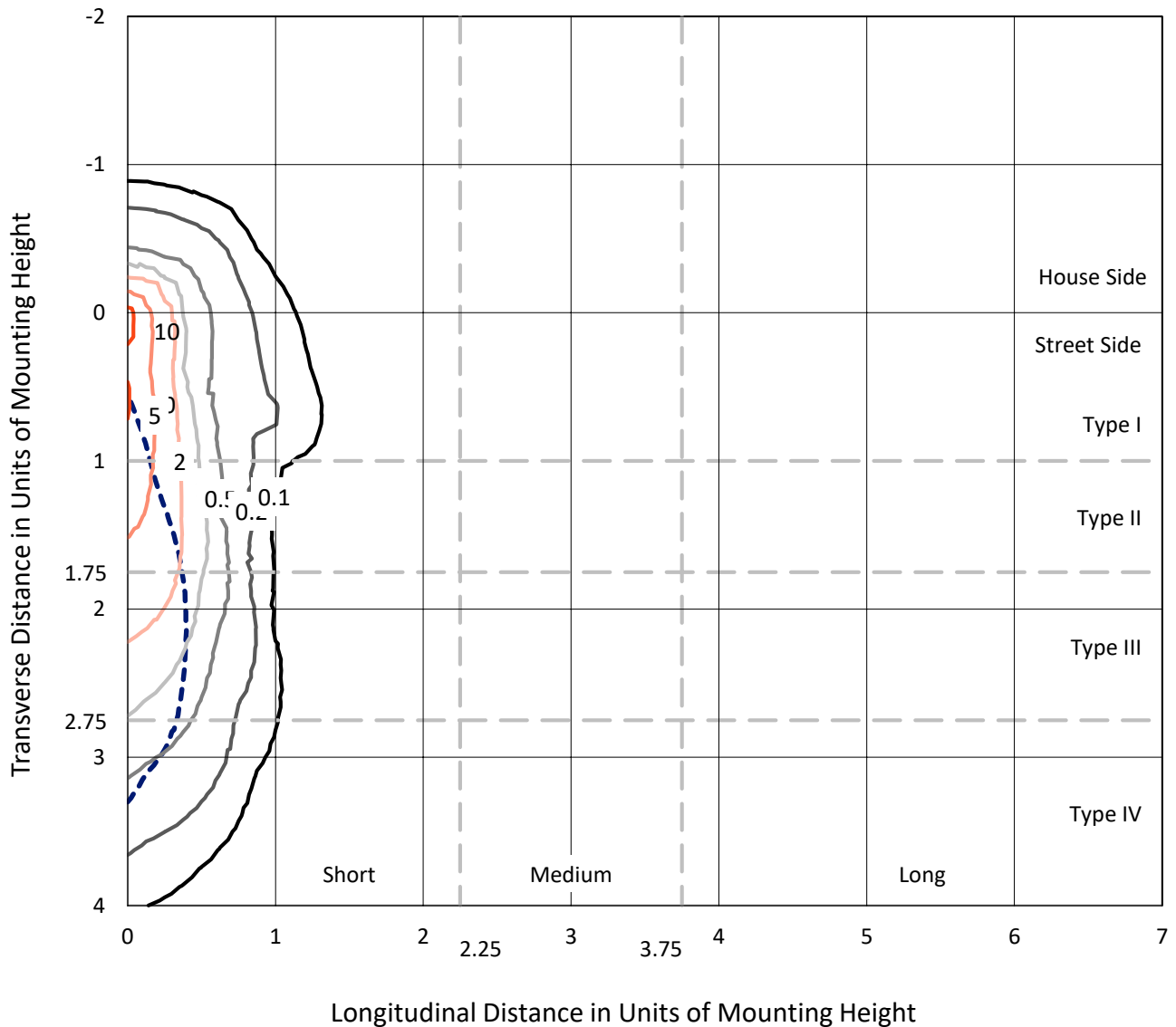
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

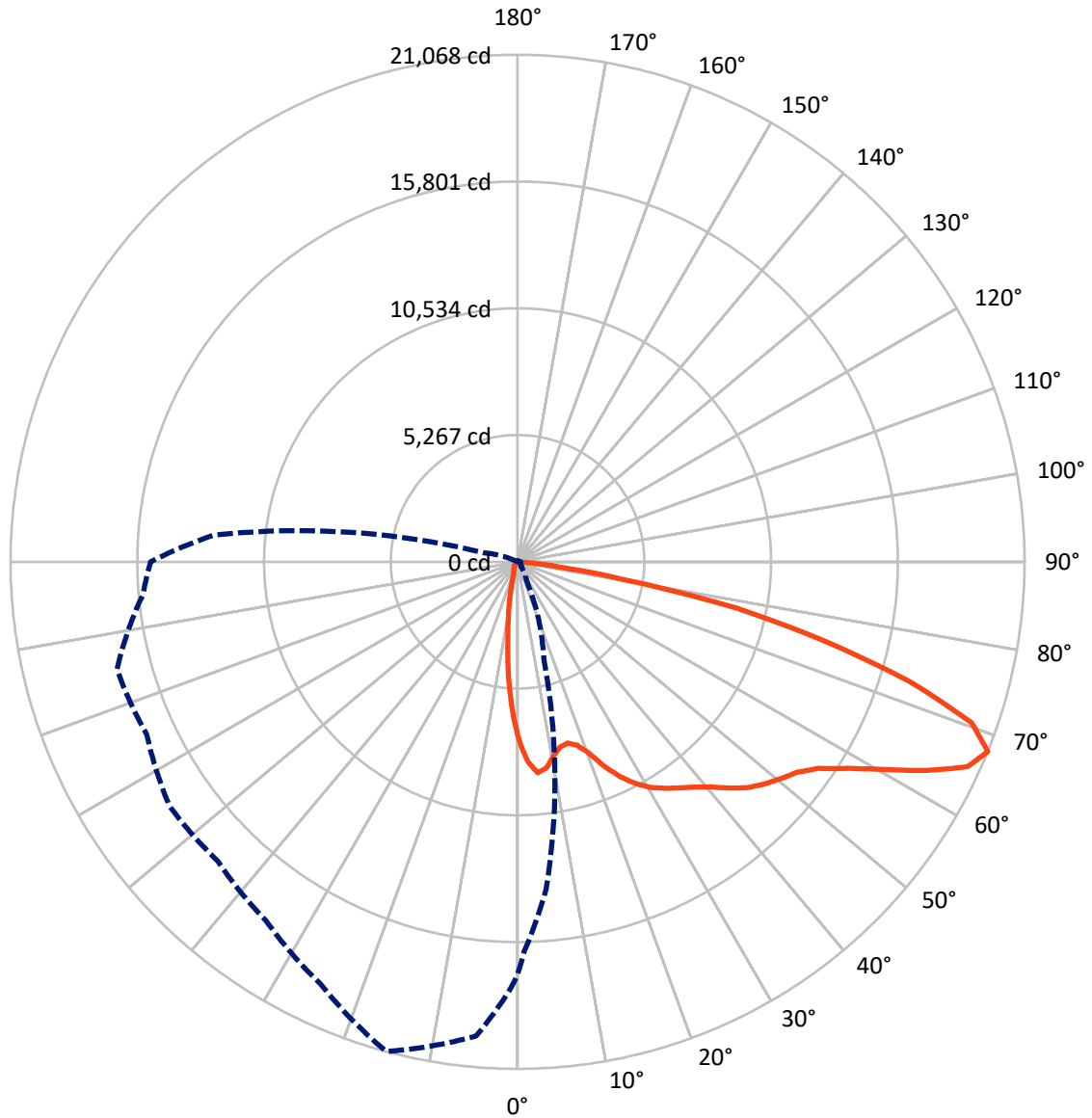
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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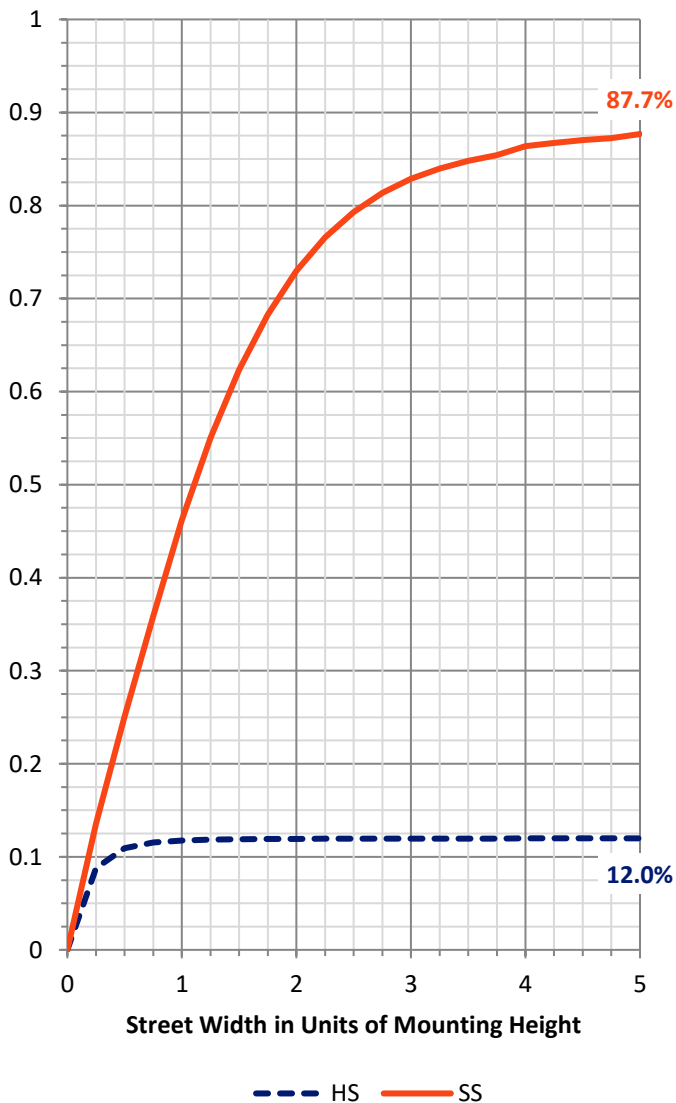
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.0	0.0	2755.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20007.4	0.0	20007.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	22762.4	0.0	22762.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.1	2.5
10°-20°	1132.7	5.0
20°-30°	1608.5	7.1
30°-40°	2375.8	10.4
40°-50°	3426.5	15.1
50°-60°	4810.1	21.1
60°-70°	5607.1	24.6
70°-80°	2866.5	12.6
80°-90°	366.1	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°	22762.4	100.0
0°-180°	22762.4	100.0

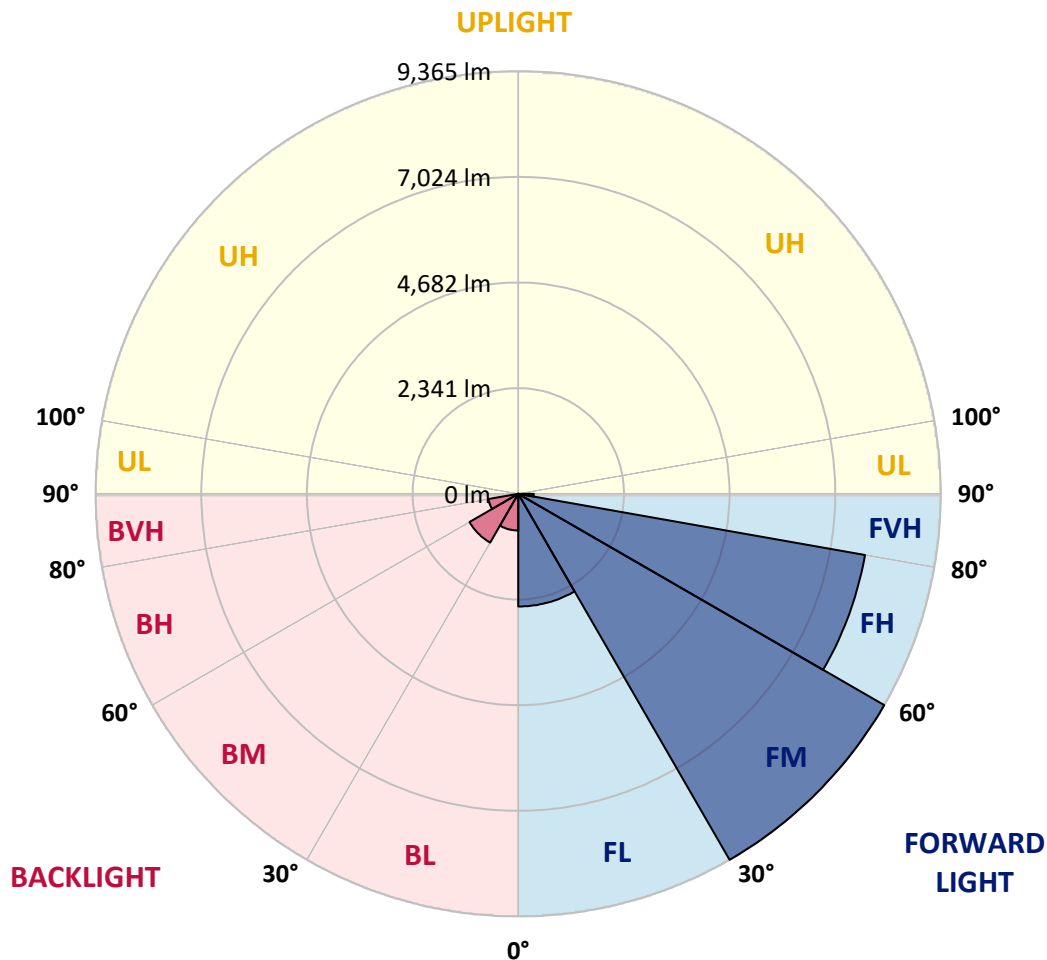


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.6	11.0			
FM (30°-60°)	9364.8	41.1			
FH (60°-80°)	7802.1	34.3			G4/12000
FVH (80°-90°)	343.8	1.5			G3/500
BL (0°-30°)	813.7	3.6	B2/1000		
BM (30°-60°)	1247.6	5.5	B2/2500		
BH (60°-80°)	671.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	22.2	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8
2.5°	8119.0	8056.4	7987.4	7762.0	7552.8	7313.4	7118.2	6982.4	6812.0	6590.9	6534.9
5°	8060.8	7993.9	7777.1	7275.7	6836.8	6409.8	5997.9	5756.3	5456.5	5152.4	5076.9
7.5°	7475.2	7405.1	7092.3	6405.4	5814.5	5197.7	4662.9	4331.8	3993.2	3714.9	3567.2
10°	6865.9	6789.3	6437.8	5604.2	4876.4	4318.8	3926.3	3610.3	3290.0	2992.4	2755.2
12.5°	6446.4	6346.2	5964.4	5019.7	4385.7	4007.1	3640.6	3262.0	2828.6	2509.3	2248.4
15°	6270.6	6156.3	5753.1	4794.4	4212.1	3767.8	3290.0	2825.3	2317.4	1951.9	1712.5
17.5°	6406.5	6257.8	5825.3	4779.3	3994.2	3389.2	2785.4	2239.7	1688.7	1318.8	1148.4
20°	6868.1	6672.9	6124.0	4775.0	3730.0	2939.6	2174.0	1557.2	1112.8	895.0	805.5
22.5°	7594.9	7337.1	6553.2	4809.5	3457.3	2467.3	1570.1	1057.9	835.7	722.5	669.7
25°	8472.7	8174.0	7171.1	4931.3	3217.8	2008.0	1140.9	835.7	705.3	622.2	578.0
27.5°	9307.3	9064.7	7951.8	5107.1	3032.4	1636.9	926.3	708.4	602.8	547.8	512.3
30°	10140.9	9835.7	8753.0	5316.3	2809.1	1385.7	814.2	645.9	540.3	482.0	459.3
32.5°	10746.9	10493.5	9380.7	5467.3	2570.8	1221.8	727.9	591.0	504.7	445.4	411.9
35°	11459.7	11172.9	9918.7	5500.7	2417.6	1118.2	654.6	531.6	437.8	385.0	349.4
37.5°	12229.6	11872.8	10539.9	5427.4	2297.9	1067.6	599.5	504.7	408.7	354.8	317.0
40°	13081.5	12678.3	11136.2	5321.7	2180.5	1050.3	557.5	484.2	386.0	331.1	292.2
42.5°	13978.8	13503.2	11652.7	5210.6	2106.0	991.0	553.2	463.7	368.8	309.5	270.7
45°	14732.5	14250.5	12183.3	5174.0	2053.2	926.3	571.5	449.7	357.0	292.2	254.5
47.5°	15333.2	14877.0	12726.8	5255.9	2023.0	867.0	520.8	468.0	350.4	277.1	240.4
50°	16050.3	15533.7	13492.4	5500.7	1978.8	807.7	471.3	535.9	350.4	267.4	228.6
52.5°	16949.7	16438.6	14346.5	5880.3	1890.4	725.8	423.8	537.0	353.7	254.5	213.5
55°	18080.9	17709.9	15566.2	6296.5	1749.1	604.9	366.7	461.6	340.8	230.7	199.5
57.5°	19165.7	18862.6	16677.9	6581.2	1560.3	472.3	319.1	372.1	311.6	202.7	177.9
59°	19462.3	19131.2	17085.5	6594.1	1419.1	411.9	295.5	307.3	305.2	189.8	165.0
60°	19462.3	19110.7	17203.1	6525.1	1316.6	378.5	280.4	273.9	318.1	181.2	157.4
62.5°	19109.6	18615.7	16821.3	6058.2	1074.1	322.4	244.8	226.5	285.8	162.8	139.1
65°	18376.4	17657.0	15520.8	5213.9	957.5	295.5	211.4	185.5	198.4	143.5	121.8
67.5°	17153.4	16178.7	13645.6	4212.1	911.2	287.9	182.2	157.4	149.9	123.0	106.8
70°	15000.0	13918.3	11369.2	3311.7	871.3	284.7	153.1	132.7	120.8	103.5	90.5
72.5°	10917.3	9789.4	8071.5	2589.1	847.6	291.2	123.0	111.0	99.2	80.9	70.1
75°	6244.8	5506.1	4536.6	1710.3	722.5	278.3	94.9	92.8	71.2	58.2	48.5
77.5°	3226.4	3128.3	2718.5	656.7	346.2	121.8	62.5	53.9	42.0	35.6	29.2
80°	1392.2	1377.1	1191.5	189.8	91.7	67.9	35.6	22.6	19.4	15.1	11.8
82.5°	481.0	481.0	423.8	63.6	41.0	33.4	4.3	0.0	0.0	0.0	0.0
85°	97.1	108.9	76.6	0.0	14.0	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°	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8
2.5°	6466.9	6336.5	6327.8	6245.8	6143.4	6097.1	6070.1	6117.6	6175.8	6182.2	6269.6
5°	5019.7	4882.8	4940.0	4794.4	4823.5	4794.4	4747.0	4755.6	4781.4	4700.6	4800.8
7.5°	3525.2	3421.7	3487.4	3448.6	3500.4	3520.9	3491.7	3448.6	3321.3	3306.2	3393.6
10°	2657.1	2539.5	2469.4	2396.1	2412.3	2445.7	2435.0	2403.7	2322.8	2327.1	2411.2
12.5°	2135.1	2003.6	1864.5	1684.4	1640.2	1665.0	1640.2	1621.8	1544.2	1550.7	1625.1
15°	1619.7	1511.9	1366.3	1221.8	1143.1	1150.6	1081.6	1033.1	984.6	926.3	971.6
17.5°	1093.5	1027.7	984.6	941.4	847.6	826.0	738.7	644.8	608.2	581.2	600.7
20°	774.3	738.7	721.4	719.2	665.3	638.4	553.2	494.9	476.7	471.3	483.1
22.5°	647.1	621.2	596.4	582.3	555.4	524.1	459.3	430.3	417.3	410.8	419.5
25°	562.9	543.5	517.6	493.9	483.1	449.7	403.3	381.7	373.1	366.7	370.9
27.5°	500.3	483.1	452.9	437.8	429.2	400.1	360.1	342.9	335.4	333.2	332.1
30°	450.8	434.6	406.5	389.3	374.2	348.3	324.6	307.3	299.8	297.6	295.5
32.5°	401.1	388.2	369.9	352.6	336.5	312.7	292.2	278.3	266.3	264.2	263.2
35°	338.6	325.7	316.0	314.9	299.8	277.1	262.0	243.7	234.0	230.7	231.9
37.5°	300.9	283.6	262.0	269.6	265.3	249.1	228.6	210.3	200.6	198.4	198.4
40°	277.1	258.8	234.0	221.1	234.0	230.7	198.4	180.1	170.4	169.3	167.1
42.5°	254.5	236.1	208.1	186.6	193.0	202.7	171.5	154.2	144.5	142.3	139.1
45°	238.3	218.9	187.6	162.8	149.9	170.4	146.6	125.1	119.7	115.4	113.2
47.5°	223.2	204.8	169.3	141.2	119.7	123.0	117.6	102.5	95.9	91.7	90.5
50°	210.3	190.9	153.1	120.8	99.2	90.5	94.9	80.9	75.5	71.2	69.0
52.5°	195.2	176.8	135.9	104.6	83.0	71.2	72.3	63.6	58.2	55.0	53.9
55°	183.3	165.0	121.8	91.7	73.3	58.2	51.8	49.6	46.4	44.2	43.1
57.5°	167.1	149.9	107.9	77.6	62.5	47.4	39.9	39.9	38.8	36.7	35.6
59°	157.4	142.3	99.2	70.1	57.2	41.0	35.6	36.7	35.6	33.4	32.3
60°	149.9	135.9	92.8	64.7	53.9	37.7	32.3	34.5	33.4	31.3	30.2
62.5°	132.7	123.0	79.8	53.9	47.4	30.2	26.9	29.2	29.2	28.0	26.9
65°	116.4	105.6	67.9	45.3	44.2	25.9	21.6	25.9	26.9	24.8	22.6
67.5°	101.4	90.5	59.3	36.7	41.0	20.5	16.2	21.6	29.2	22.6	20.5
70°	86.3	75.5	46.4	29.2	43.1	14.0	12.9	19.4	34.5	24.8	19.4
72.5°	66.9	58.2	32.3	21.6	46.4	9.7	9.7	16.2	38.8	26.9	18.4
75°	46.4	37.7	19.4	12.9	37.7	6.4	6.4	15.1	36.7	24.8	17.2
77.5°	26.9	20.5	6.4	1.1	19.4	0.0	1.1	10.8	25.9	15.1	7.5
80°	9.7	4.3	0.0	0.0	11.8	0.0	0.0	0.0	2.1	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°	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8
2.5°	6292.2	6437.8	6568.2	6765.6	6999.6	7269.2	7501.1	7750.2	7984.2	8081.3	8148.1
5°	4821.3	5001.4	5211.7	5501.8	5887.8	6363.4	6808.8	7312.4	7853.7	8124.4	8378.9
7.5°	3408.7	3592.0	3853.0	4161.4	4628.3	5194.5	5776.8	6472.3	7205.6	7633.7	8055.4
10°	2451.1	2676.5	2920.2	3341.8	3816.3	4353.3	4952.9	5729.3	6546.7	7021.2	7529.1
12.5°	1668.2	1924.9	2293.7	2766.0	3323.5	3849.7	4370.6	5111.4	6060.4	6530.5	7075.1
15°	1000.8	1143.1	1533.4	2080.1	2763.8	3419.4	3989.9	4732.9	5744.4	6320.3	6886.4
17.5°	616.8	682.6	895.0	1343.7	2061.8	2891.1	3672.9	4604.6	5789.8	6490.7	7096.7
20°	491.8	517.6	585.6	793.7	1366.3	2308.7	3315.9	4578.7	6159.6	7022.3	7672.5
22.5°	427.0	451.8	497.2	576.9	859.4	1728.6	2977.3	4602.4	6690.1	7819.2	8578.3
25°	376.3	398.0	441.1	506.9	629.7	1217.4	2615.0	4708.1	7381.4	8808.1	9614.7
27.5°	336.5	354.8	394.7	455.1	540.3	849.8	2204.1	4836.4	8200.9	9819.5	10615.4
30°	299.8	316.0	351.6	407.6	469.1	653.5	1753.5	4923.8	9021.6	10615.4	11330.3
32.5°	268.5	280.4	312.7	360.1	407.6	520.8	1332.9	4909.8	9630.8	11277.5	11844.7
35°	236.1	248.0	276.0	317.0	354.8	430.3	1048.2	4647.8	10161.4	11964.4	12433.5
37.5°	200.6	215.7	242.7	279.3	305.2	378.5	847.6	4331.8	10699.5	12749.4	13090.2
40°	170.4	185.5	209.2	249.1	265.3	359.1	651.3	3946.8	11304.4	13627.2	13810.6
42.5°	141.2	155.3	180.1	214.6	250.2	309.5	482.0	3506.8	11885.7	14377.8	14467.3
45°	114.3	128.4	154.2	188.7	267.4	256.6	373.1	3035.5	12354.7	15002.1	15031.3
47.5°	90.5	103.5	130.5	177.9	249.1	204.8	266.3	2665.7	12748.3	15489.6	15413.0
50°	70.1	80.9	108.9	203.8	217.8	169.3	201.7	2542.8	13101.0	15791.5	15593.1
52.5°	55.0	64.7	89.5	190.9	169.3	140.2	169.3	2658.2	13584.1	16041.7	15694.4
55°	44.2	53.9	70.1	108.9	115.4	118.6	144.5	2766.0	14417.7	16628.3	16293.0
57.5°	36.7	46.4	57.2	76.6	87.4	100.3	128.4	2777.9	15400.1	17603.2	17286.1
59°	33.4	42.0	51.8	67.9	76.6	91.7	120.8	2713.1	15746.2	17957.9	17799.4
60°	31.3	39.9	48.5	62.5	71.2	86.3	116.4	2651.7	15761.3	17945.0	18018.3
62.5°	26.9	35.6	43.1	52.8	60.4	73.3	104.6	2424.2	15122.9	17357.2	17886.7
65°	23.8	31.3	38.8	45.3	51.8	65.8	94.9	2009.0	14032.6	16409.4	16986.3
67.5°	21.6	26.9	35.6	39.9	46.4	58.2	84.1	1432.1	12670.7	15250.2	15624.4
70°	19.4	25.9	32.3	36.7	42.0	50.7	72.3	822.7	10699.5	13552.8	13819.1
72.5°	18.4	24.8	29.2	34.5	37.7	45.3	65.8	387.2	7834.3	10856.9	11552.5
75°	16.2	22.6	26.9	32.3	35.6	41.0	56.1	185.5	5210.6	7857.0	8647.4
77.5°	9.7	18.4	24.8	29.2	31.3	35.6	46.4	106.8	3325.6	5438.2	6405.4
80°	0.0	6.4	18.4	24.8	26.9	30.2	35.6	84.1	1779.3	3106.7	3729.0
82.5°	0.0	0.0	12.9	19.4	18.4	20.5	26.9	52.8	802.3	2030.6	2288.3
85°	0.0	0.0	4.3	15.1	12.9	9.7	18.4	18.4	175.8	1027.7	1282.2
87.5°	0.0	0.0	0.0	1.1	6.4	4.3	7.5	2.1	1.1	76.6	310.6
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: P383396

CATALOG NUMBER: GLEON-SA7A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8
2.5°	8382.1	8461.9	8596.7	8660.3	8629.0	8496.4	8337.9	8176.1	8081.3	8119.0
5°	8897.6	9308.4	9545.7	9624.4	9492.8	9195.2	8805.9	8292.5	8110.3	8060.8
7.5°	8897.6	9670.8	10160.3	10246.6	9953.2	9369.9	8639.8	7838.6	7572.3	7475.2
10°	8584.9	9637.3	10319.9	10456.8	10047.1	9174.7	8196.6	7282.2	6966.2	6865.9
12.5°	8232.2	9365.6	10084.8	10273.6	9937.1	8980.6	7889.3	6905.8	6533.8	6446.4
15°	8015.4	9031.3	9626.5	9763.5	9621.1	8867.3	7816.0	6792.6	6354.7	6270.6
17.5°	8093.1	8772.5	8987.0	9066.8	9162.8	8827.4	8015.4	7040.6	6486.4	6406.5
20°	8385.3	8499.6	8388.6	8488.8	8747.6	8866.3	8491.0	7640.2	6974.9	6868.1
22.5°	8881.4	8358.4	8046.7	8086.6	8401.5	8994.6	9217.8	8496.4	7728.6	7594.9
25°	9459.4	8472.7	7857.0	7821.4	8144.9	9163.9	9882.0	9428.1	8620.4	8472.7
27.5°	10186.2	8729.3	7818.1	7782.5	8055.4	9322.4	10434.2	10349.0	9559.6	9307.3
30°	10746.9	8981.6	7933.5	7851.5	8144.9	9432.4	10877.4	11130.8	10308.0	10140.9
32.5°	11149.1	9279.2	8121.1	8002.5	8397.2	9622.2	11219.3	11846.9	11000.4	10746.9
35°	11455.4	9602.8	8424.2	8228.9	8744.4	9910.1	11539.5	12609.2	11736.8	11459.7
37.5°	11742.3	10056.8	8897.6	8664.6	9289.0	10373.8	11878.2	13474.1	12560.7	12229.6
40°	12142.4	10571.2	9627.6	9420.6	10204.5	11005.8	12300.8	14375.6	13497.8	13081.5
42.5°	12542.4	11123.2	10374.9	10431.0	11346.5	11773.6	12846.5	15328.9	14423.1	13978.8
45°	12908.0	11692.7	11439.2	11698.0	12406.5	12615.8	13388.9	15879.9	15161.8	14732.5
47.5°	13233.7	12404.4	12497.1	13186.1	13612.1	13378.1	13794.4	16355.5	15711.7	15333.2
50°	13612.1	13325.3	13891.4	14866.3	15000.0	14068.2	14163.2	16918.4	16354.4	16050.3
52.5°	14026.2	14295.8	15435.7	16295.1	16252.0	14817.8	14534.1	17549.2	17235.4	16949.7
55°	14496.4	15079.8	16795.4	17632.2	17595.6	15654.6	15148.8	18328.9	18339.7	18080.9
57.5°	15194.1	15754.8	17718.5	18713.9	18775.3	16620.8	16190.5	19202.4	19338.2	19165.7
59°	15694.4	16192.6	18084.0	19165.7	19415.9	17368.1	16951.8	19709.2	19619.7	19462.3
60°	16065.4	16470.9	18265.2	19401.8	19787.9	17874.9	17513.7	20006.8	19653.1	19462.3
62.5°	16983.0	17076.9	18592.0	19669.3	20216.0	19000.7	19094.5	20513.6	19421.3	19109.6
65°	17411.2	17459.7	18587.6	19190.4	19801.9	19877.4	20528.7	20528.7	18855.1	18376.4
67.5°	17232.1	16998.1	17665.7	17603.2	18213.5	19356.5	21067.9	19776.0	17772.4	17153.4
70°	15776.4	14876.0	14579.4	14606.4	15073.3	16836.4	20000.3	17561.1	15723.6	15000.0
72.5°	13126.9	10966.9	10234.7	11070.4	11192.3	12939.2	17044.5	13225.0	11595.6	10917.3
75°	10558.3	7730.7	6540.2	7422.4	7629.4	9469.1	13185.1	8236.5	6773.2	6244.8
77.5°	7585.2	5549.2	4693.0	4631.6	4899.0	6005.4	9355.8	4145.2	3457.3	3226.4
80°	4309.2	3652.4	3932.8	3710.6	3845.4	3754.9	4445.0	1818.1	1489.2	1392.2
82.5°	2601.0	2158.9	2337.9	1946.5	2463.0	2144.9	1712.5	582.3	505.7	481.0
85°	1692.0	1179.7	614.6	411.9	848.6	1370.6	382.8	158.5	121.8	97.1
87.5°	583.4	300.9	30.2	12.9	90.5	255.6	14.0	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)