

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: P383424

Luminaire Tested: **GLEON-SA7B-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383424
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-SA7B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 27912.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

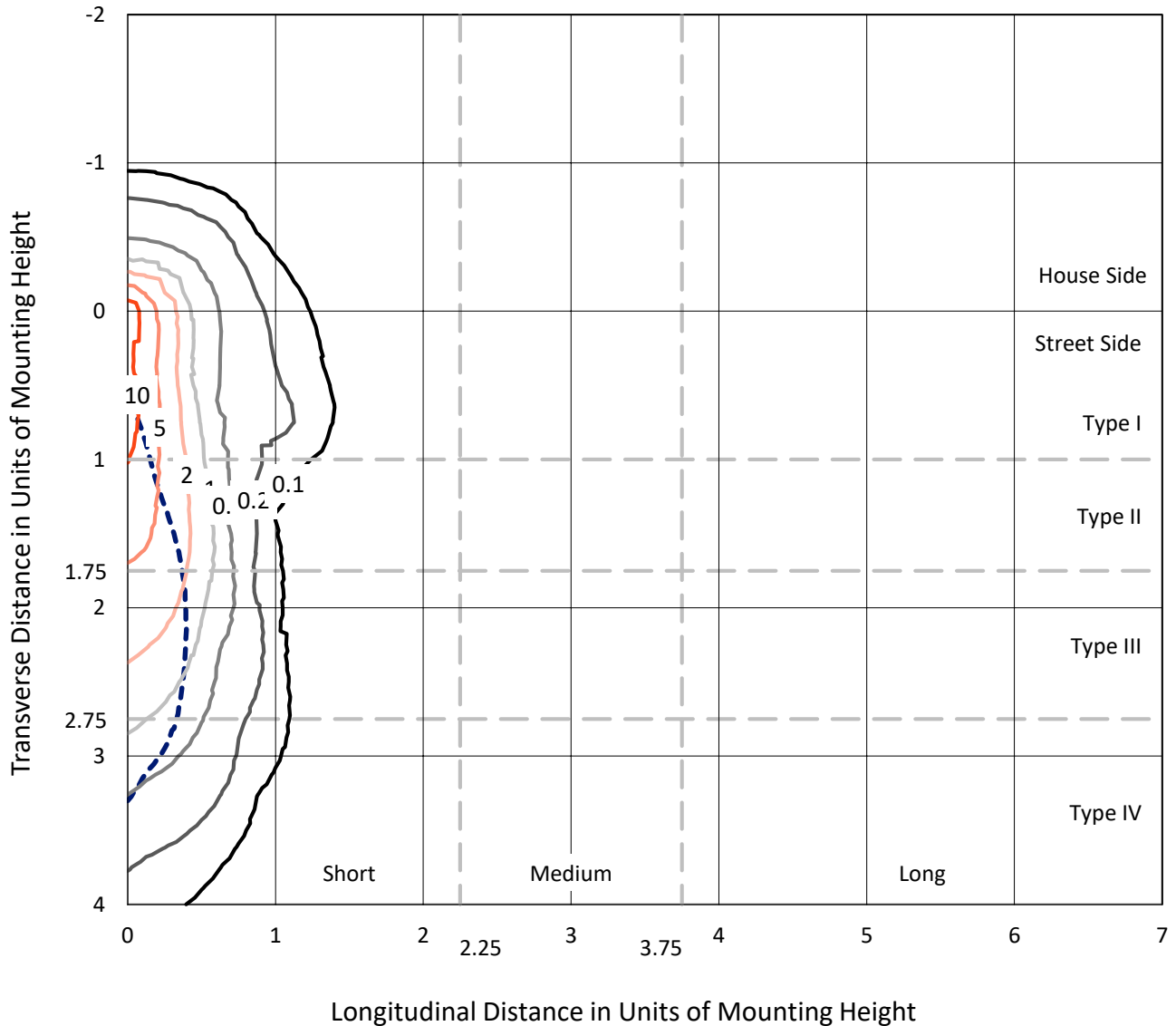
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

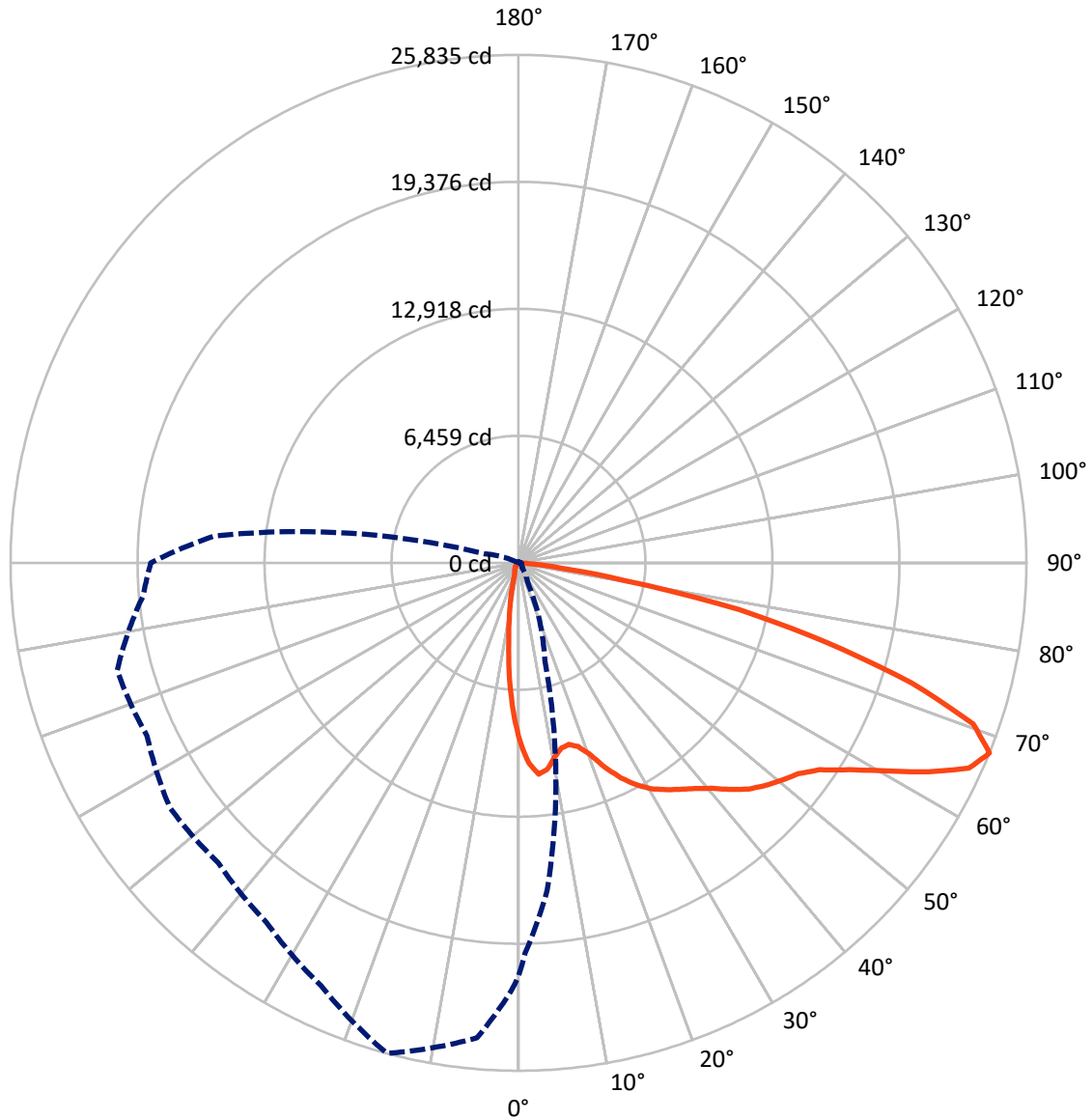
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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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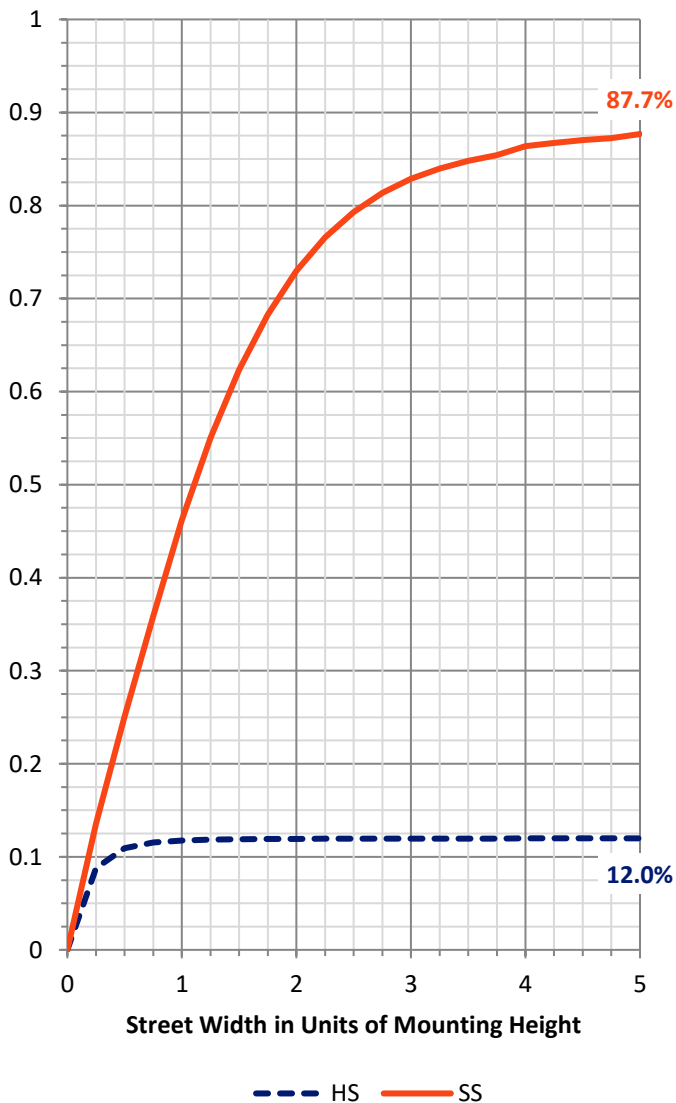
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3378.4	0.0	3378.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24534.5	0.0	24534.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	27912.9	0.0	27912.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.8	2.5
10°-20°	1389.0	5.0
20°-30°	1972.5	7.1
30°-40°	2913.4	10.4
40°-50°	4201.8	15.1
50°-60°	5898.4	21.1
60°-70°	6875.9	24.6
70°-80°	3515.1	12.6
80°-90°	448.9	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°	27912.9	100.0
0°-180°	27912.9	100.0

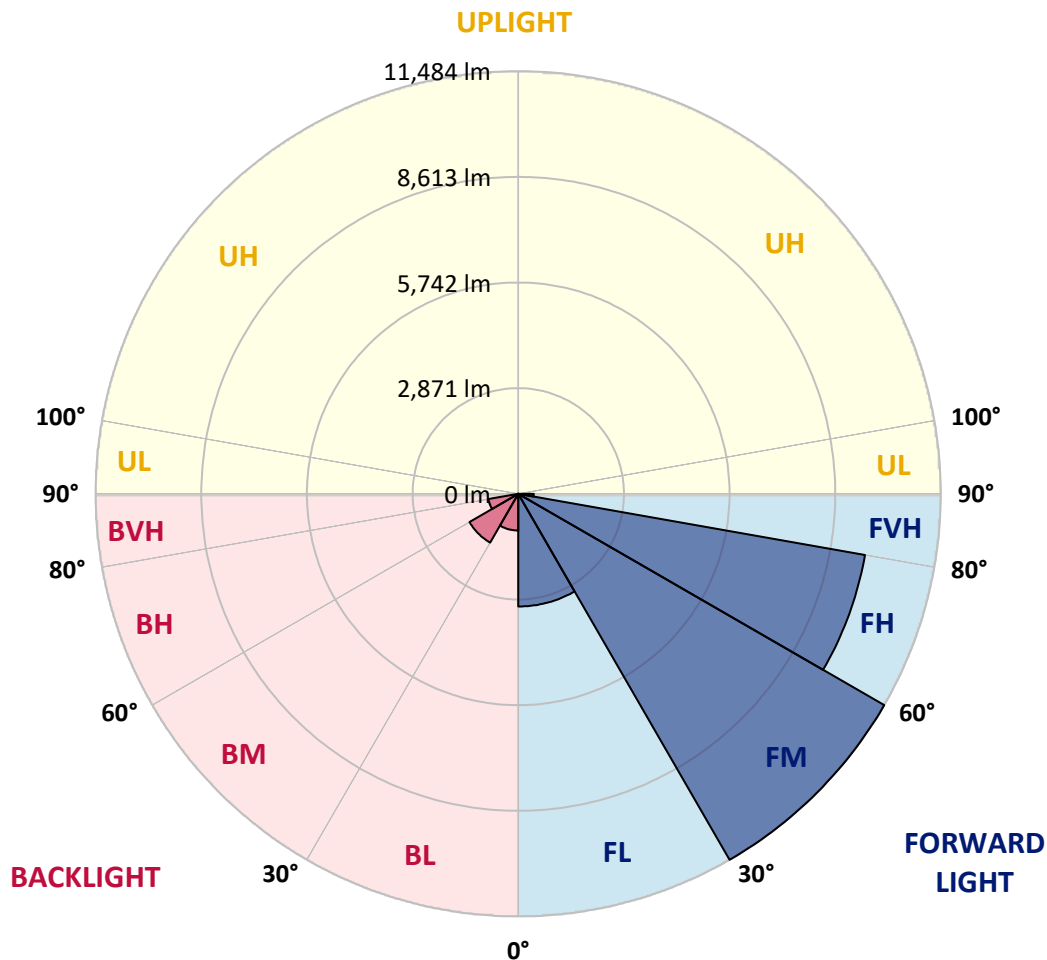


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3061.5	11.0			
FM (30°-60°)	11483.8	41.1			
FH (60°-80°)	9567.6	34.3			G4/12000
FVH (80°-90°)	421.6	1.5			G3/500
BL (0°-30°)	997.8	3.6	B2/1000		
BM (30°-60°)	1529.8	5.5	B2/2500		
BH (60°-80°)	823.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	27.3	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°	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6
2.5°	9956.1	9879.3	9794.8	9518.4	9261.8	8968.3	8728.9	8562.3	8353.4	8082.3	8013.5
5°	9884.7	9802.7	9536.9	8922.0	8383.7	7860.1	7354.9	7058.8	6691.1	6318.2	6225.7
7.5°	9166.6	9080.6	8697.2	7854.8	7130.2	6373.8	5717.9	5312.0	4896.7	4555.5	4374.4
10°	8419.5	8325.6	7894.5	6872.3	5979.7	5296.0	4814.7	4427.3	4034.5	3669.6	3378.6
12.5°	7905.1	7782.1	7314.0	6155.6	5378.0	4913.9	4464.3	4000.2	3468.5	3077.2	2757.1
15°	7689.6	7549.4	7054.8	5879.2	5165.2	4620.4	4034.5	3464.6	2841.8	2393.5	2099.9
17.5°	7856.2	7673.7	7143.4	5860.7	4898.1	4156.2	3415.7	2746.6	2070.8	1617.3	1408.3
20°	8422.1	8182.8	7509.7	5855.4	4574.1	3604.8	2665.9	1909.5	1364.7	1097.5	987.8
22.5°	9313.4	8997.4	8036.0	5897.7	4239.5	3025.6	1925.3	1297.3	1024.8	886.0	821.2
25°	10389.8	10023.5	8793.7	6047.1	3945.9	2462.3	1399.1	1024.8	864.8	763.0	708.8
27.5°	11413.3	11115.8	9751.1	6262.7	3718.5	2007.4	1135.9	868.8	739.2	671.7	628.1
30°	12435.5	12061.3	10733.7	6519.2	3444.8	1699.2	998.3	792.1	662.5	591.1	563.3
32.5°	13178.7	12867.9	11503.2	6704.3	3152.5	1498.2	892.6	724.7	618.8	546.2	505.2
35°	14052.8	13701.0	12163.1	6745.3	2964.7	1371.3	802.7	651.9	536.9	472.1	428.4
37.5°	14996.9	14559.3	12924.8	6655.4	2817.9	1309.1	735.3	618.8	501.2	435.0	388.7
40°	16041.6	15547.1	13656.0	6525.9	2673.8	1288.0	683.7	593.8	473.4	406.0	358.4
42.5°	17141.8	16558.6	14289.5	6389.7	2582.6	1215.3	678.4	568.6	452.3	379.5	331.9
45°	18066.2	17475.0	14940.1	6344.7	2517.8	1135.9	700.9	551.4	437.7	358.4	312.1
47.5°	18802.7	18243.3	15606.5	6445.2	2480.7	1063.2	638.7	573.9	429.7	339.8	294.9
50°	19682.0	19048.7	16545.4	6745.3	2426.5	990.4	577.8	657.2	429.7	327.9	280.3
52.5°	20784.9	20158.1	17592.7	7210.8	2318.1	889.9	519.7	658.5	433.7	312.1	261.9
55°	22172.0	21717.2	19088.3	7721.3	2144.9	741.9	449.6	566.0	417.9	283.0	244.6
57.5°	23502.4	23130.8	20451.7	8070.4	1913.5	579.2	391.4	456.2	382.1	248.6	218.2
59°	23866.1	23460.1	20951.5	8086.3	1740.2	505.2	362.4	376.9	374.2	232.7	202.3
60°	23866.1	23434.9	21095.6	8001.6	1614.7	464.2	343.8	335.9	390.1	222.2	193.1
62.5°	23433.6	22827.9	20627.5	7429.0	1317.1	395.3	300.1	277.7	350.4	199.6	170.6
65°	22534.4	21652.4	19032.8	6393.6	1174.2	362.4	259.2	227.5	243.3	175.9	149.4
67.5°	21034.8	19839.4	16733.2	5165.2	1117.4	353.1	223.5	193.1	183.8	150.7	130.9
70°	18394.1	17067.7	13941.6	4061.0	1068.5	349.1	187.8	162.6	148.1	127.0	111.0
72.5°	13387.6	12004.4	9897.9	3175.0	1039.4	357.1	150.7	136.2	121.7	99.2	86.0
75°	7657.8	6752.0	5563.2	2097.3	886.0	341.1	116.4	113.7	87.3	71.4	59.5
77.5°	3956.5	3836.2	3333.6	805.3	424.5	149.4	76.7	66.1	51.6	43.6	35.7
80°	1707.2	1688.6	1461.2	232.7	112.4	83.3	43.6	27.8	23.8	18.5	14.5
82.5°	589.8	589.8	519.7	78.1	50.2	41.0	5.3	0.0	0.0	0.0	0.0
85°	119.1	133.6	93.9	0.0	17.2	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°	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6
2.5°	7930.2	7770.2	7759.6	7659.1	7533.5	7476.6	7443.6	7501.8	7573.2	7581.1	7688.2
5°	6155.6	5987.7	6057.8	5879.2	5915.0	5879.2	5821.1	5831.6	5863.3	5764.1	5887.2
7.5°	4322.8	4195.9	4276.5	4228.9	4292.4	4317.5	4281.9	4228.9	4072.9	4054.4	4161.5
10°	3258.3	3114.2	3028.2	2938.3	2958.1	2999.1	2985.9	2947.5	2848.4	2853.7	2956.8
12.5°	2618.3	2457.0	2286.4	2065.5	2011.3	2041.8	2011.3	1988.9	1893.6	1901.6	1992.8
15°	1986.2	1854.0	1675.4	1498.2	1401.7	1410.9	1326.3	1266.8	1207.3	1135.9	1191.4
17.5°	1340.9	1260.2	1207.3	1154.5	1039.4	1013.0	905.8	790.8	745.8	712.7	736.6
20°	949.4	905.8	884.7	882.0	815.9	782.9	678.4	607.0	584.5	577.8	592.5
22.5°	793.4	761.7	731.3	714.0	681.1	642.7	563.3	527.6	511.8	503.8	514.4
25°	690.3	666.4	634.8	605.6	592.5	551.4	494.6	468.1	457.6	449.6	454.9
27.5°	613.6	592.5	555.4	536.9	526.3	490.6	441.6	420.5	411.3	408.6	407.3
30°	552.8	532.9	498.6	477.4	458.9	427.1	398.1	376.9	367.6	365.0	362.4
32.5°	492.0	476.0	453.6	432.4	412.6	383.5	358.4	341.1	326.6	324.0	322.7
35°	415.2	399.4	387.4	386.1	367.6	339.8	321.3	298.8	286.9	283.0	284.3
37.5°	369.0	347.7	321.3	330.6	325.3	305.5	280.3	257.9	245.9	243.3	243.3
40°	339.8	317.4	286.9	271.1	286.9	283.0	243.3	220.9	208.9	207.6	204.9
42.5°	312.1	289.6	255.2	228.8	236.7	248.6	210.3	189.1	177.2	174.6	170.6
45°	292.2	268.5	230.1	199.6	183.8	208.9	179.9	153.4	146.8	141.5	138.9
47.5°	273.7	251.2	207.6	173.3	146.8	150.7	144.1	125.7	117.7	112.4	111.0
50°	257.9	234.1	187.8	148.1	121.7	111.0	116.4	99.2	92.6	87.3	84.7
52.5°	239.3	216.9	166.7	128.3	101.8	87.3	88.6	78.1	71.4	67.4	66.1
55°	224.8	202.3	149.4	112.4	89.9	71.4	63.4	60.8	56.8	54.2	52.9
57.5°	204.9	183.8	132.3	95.2	76.7	58.2	48.9	48.9	47.6	45.0	43.6
59°	193.1	174.6	121.7	86.0	70.1	50.2	43.6	45.0	43.6	41.0	39.7
60°	183.8	166.7	113.7	79.4	66.1	46.3	39.7	42.3	41.0	38.4	37.0
62.5°	162.6	150.7	97.8	66.1	58.2	37.0	33.1	35.7	35.7	34.4	33.1
65°	142.8	129.6	83.3	55.5	54.2	31.8	26.5	31.8	33.1	30.4	27.8
67.5°	124.3	111.0	72.8	45.0	50.2	25.2	19.8	26.5	35.7	27.8	25.2
70°	105.8	92.6	56.8	35.7	52.9	17.2	15.8	23.8	42.3	30.4	23.8
72.5°	82.0	71.4	39.7	26.5	56.8	11.9	11.9	19.8	47.6	33.1	22.5
75°	56.8	46.3	23.8	15.8	46.3	7.9	7.9	18.5	45.0	30.4	21.1
77.5°	33.1	25.2	7.9	1.3	23.8	0.0	1.3	13.2	31.8	18.5	9.2
80°	11.9	5.3	0.0	0.0	14.5	0.0	0.0	0.0	2.6	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°	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6
2.5°	7716.0	7894.5	8054.5	8296.5	8583.5	8914.1	9198.4	9503.8	9790.8	9909.8	9991.8
5°	5912.3	6133.1	6391.0	6746.7	7220.1	7803.3	8349.4	8967.0	9630.8	9962.7	10274.8
7.5°	4179.9	4404.8	4724.8	5103.0	5675.5	6369.8	7083.9	7936.8	8836.0	9361.0	9878.0
10°	3005.7	3282.1	3581.0	4098.0	4679.8	5338.4	6073.6	7025.7	8028.1	8609.9	9232.8
12.5°	2045.7	2360.4	2812.6	3391.9	4075.5	4720.8	5359.6	6268.0	7431.7	8008.2	8676.1
15°	1227.1	1401.7	1880.4	2550.9	3389.2	4193.2	4892.8	5803.8	7044.3	7750.4	8444.6
17.5°	756.4	837.1	1097.5	1647.6	2528.3	3545.3	4503.9	5646.5	7099.8	7959.3	8702.5
20°	603.0	634.8	718.0	973.3	1675.4	2831.2	4066.3	5614.7	7553.4	8611.2	9408.6
22.5°	523.6	554.1	609.6	707.5	1054.0	2119.7	3651.0	5643.9	8204.0	9588.4	10519.4
25°	461.5	487.9	540.9	621.5	772.3	1493.0	3206.8	5773.5	9051.6	10801.1	11790.2
27.5°	412.6	435.0	483.9	558.0	662.5	1042.0	2702.9	5930.8	10056.6	12041.5	13017.4
30°	367.6	387.4	431.1	499.9	575.2	801.3	2150.2	6037.9	11062.9	13017.4	13894.0
32.5°	329.3	343.8	383.5	441.6	499.9	638.7	1634.4	6020.7	11810.1	13829.3	14524.9
35°	289.6	304.2	338.5	388.7	435.0	527.6	1285.3	5699.4	12460.7	14671.6	15246.8
37.5°	245.9	264.5	297.5	342.5	374.2	464.2	1039.4	5312.0	13120.5	15634.3	16052.1
40°	208.9	227.5	256.5	305.5	325.3	440.3	798.7	4839.9	13862.4	16710.8	16935.5
42.5°	173.3	190.4	220.9	263.2	306.8	379.5	591.1	4300.3	14575.1	17631.1	17740.9
45°	140.2	157.3	189.1	231.4	327.9	314.7	457.6	3722.5	15150.3	18396.8	18432.4
47.5°	111.0	127.0	160.0	218.2	305.5	251.2	326.6	3268.9	15633.0	18994.4	18900.5
50°	86.0	99.2	133.6	249.9	267.1	207.6	247.3	3118.2	16065.4	19364.7	19121.4
52.5°	67.4	79.4	109.7	234.1	207.6	171.9	207.6	3259.7	16657.8	19671.5	19245.7
55°	54.2	66.1	86.0	133.6	141.5	145.4	177.2	3391.9	17680.0	20390.8	19979.6
57.5°	45.0	56.8	70.1	93.9	107.1	123.0	157.3	3406.4	18884.7	21586.3	21197.5
59°	41.0	51.6	63.4	83.3	93.9	112.4	148.1	3327.0	19309.1	22021.3	21826.9
60°	38.4	48.9	59.5	76.7	87.3	105.8	142.8	3251.7	19327.7	22005.5	22095.4
62.5°	33.1	43.6	52.9	64.8	74.1	89.9	128.3	2972.7	18544.8	21284.7	21934.0
65°	29.1	38.4	47.6	55.5	63.4	80.7	116.4	2463.6	17207.9	20122.5	20829.9
67.5°	26.5	33.1	43.6	48.9	56.8	71.4	103.1	1756.1	15537.7	18700.9	19159.7
70°	23.8	31.8	39.7	45.0	51.6	62.1	88.6	1009.0	13120.5	16619.5	16946.1
72.5°	22.5	30.4	35.7	42.3	46.3	55.5	80.7	474.7	9607.0	13313.6	14166.5
75°	19.8	27.8	33.1	39.7	43.6	50.2	68.7	227.5	6389.7	9634.7	10604.0
77.5°	11.9	22.5	30.4	35.7	38.4	43.6	56.8	130.9	4078.1	6668.7	7854.8
80°	0.0	7.9	22.5	30.4	33.1	37.0	43.6	103.1	2181.9	3809.8	4572.7
82.5°	0.0	0.0	15.8	23.8	22.5	25.2	33.1	64.8	983.8	2490.0	2806.1
85°	0.0	0.0	5.3	18.5	15.8	11.9	22.5	22.5	215.6	1260.2	1572.3
87.5°	0.0	0.0	0.0	1.3	7.9	5.3	9.2	2.6	1.3	93.9	380.8
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: P383424

CATALOG NUMBER: GLEON-SA7B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6	9092.6
2.5°	10278.7	10376.6	10541.9	10619.9	10581.5	10418.9	10224.5	10026.2	9909.8	9956.1
5°	10910.8	11414.6	11705.5	11802.1	11640.8	11275.8	10798.4	10169.0	9945.5	9884.7
7.5°	10910.8	11859.0	12459.4	12565.1	12205.4	11490.0	10594.8	9612.3	9285.7	9166.6
10°	10527.3	11818.0	12655.0	12822.9	12320.5	11250.7	10051.3	8929.9	8542.5	8419.5
12.5°	10094.9	11484.8	12366.8	12598.2	12185.6	11012.7	9674.4	8468.4	8012.2	7905.1
15°	9829.1	11074.8	11804.8	11972.7	11798.1	10873.8	9584.5	8329.5	7792.7	7689.6
17.5°	9924.3	10757.4	11020.6	11118.4	11236.1	10824.9	9829.1	8633.7	7954.0	7856.2
20°	10282.7	10422.9	10286.7	10409.7	10727.1	10872.5	10412.3	9368.9	8553.0	8422.1
22.5°	10891.0	10249.6	9867.5	9916.4	10302.5	11029.8	11303.6	10418.9	9477.4	9313.4
25°	11599.8	10389.8	9634.7	9591.1	9987.8	11237.4	12118.1	11561.4	10571.0	10389.8
27.5°	12491.0	10704.5	9587.1	9543.5	9878.0	11431.9	12795.2	12690.8	11722.8	11413.3
30°	13178.7	11014.0	9728.6	9628.1	9987.8	11566.7	13338.6	13649.4	12640.4	12435.5
32.5°	13672.0	11378.9	9958.7	9813.3	10297.2	11799.4	13757.8	14527.5	13489.5	13178.7
35°	14047.5	11775.7	10330.3	10091.0	10723.0	12152.5	14150.6	15462.4	14392.6	14052.8
37.5°	14399.2	12332.4	10910.8	10625.2	11390.9	12721.1	14565.9	16523.0	15402.9	14996.9
40°	14889.9	12963.1	11806.1	11552.2	12513.6	13496.1	15084.2	17628.4	16552.0	16041.6
42.5°	15380.4	13640.2	12722.4	12791.3	13913.9	14437.6	15753.3	18797.4	17686.6	17141.8
45°	15828.7	14338.4	14027.6	14345.0	15213.8	15470.3	16418.4	19473.2	18592.5	18066.2
47.5°	16228.0	15211.1	15324.9	16169.9	16692.2	16405.2	16915.7	20056.3	19266.8	18802.7
50°	16692.2	16340.5	17034.7	18230.1	18394.1	17251.5	17368.0	20746.6	20055.0	19682.0
52.5°	17200.0	17530.6	18928.3	19982.3	19929.3	18170.6	17822.8	21520.1	21135.3	20784.9
55°	17776.5	18492.0	20595.8	21622.0	21577.0	19196.8	18576.5	22476.2	22489.4	22172.0
57.5°	18632.1	19319.7	21727.8	22948.3	23023.7	20381.6	19854.0	23547.3	23713.9	23502.4
59°	19245.7	19856.6	22176.0	23502.4	23809.1	21298.0	20787.6	24168.8	24059.1	23866.1
60°	19700.6	20197.8	22398.2	23792.0	24265.4	21919.5	21476.6	24533.8	24100.1	23866.1
62.5°	20825.9	20940.9	22798.9	24119.9	24790.3	23300.1	23415.1	25155.3	23815.8	23433.6
65°	21350.9	21410.4	22793.6	23532.8	24282.6	24375.2	25173.9	25173.9	23121.6	22534.4
67.5°	21131.4	20844.4	21663.0	21586.3	22334.7	23736.4	25835.0	24250.8	21793.8	21034.8
70°	19346.2	18242.0	17878.4	17911.4	18484.0	20646.1	24525.9	21534.7	19281.4	18394.1
72.5°	16097.1	13448.5	12550.6	13575.4	13724.8	15867.1	20901.3	16217.5	14219.4	13387.6
75°	12947.3	9480.0	8020.2	9101.9	9355.7	11611.6	16168.5	10100.2	8305.8	7657.8
77.5°	9301.5	6804.9	5754.9	5679.6	6007.5	7364.3	11472.8	5083.2	4239.5	3956.5
80°	5284.2	4478.9	4822.6	4550.2	4715.6	4604.5	5450.8	2229.5	1826.2	1707.2
82.5°	3189.5	2647.4	2866.9	2386.9	3020.3	2630.2	2099.9	714.0	620.2	589.8
85°	2074.7	1446.7	753.7	505.2	1040.7	1680.7	469.4	194.4	149.4	119.1
87.5°	715.4	369.0	37.0	15.8	111.0	313.4	17.2	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)