

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: P383394

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383394
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-SA7A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 22764.2 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

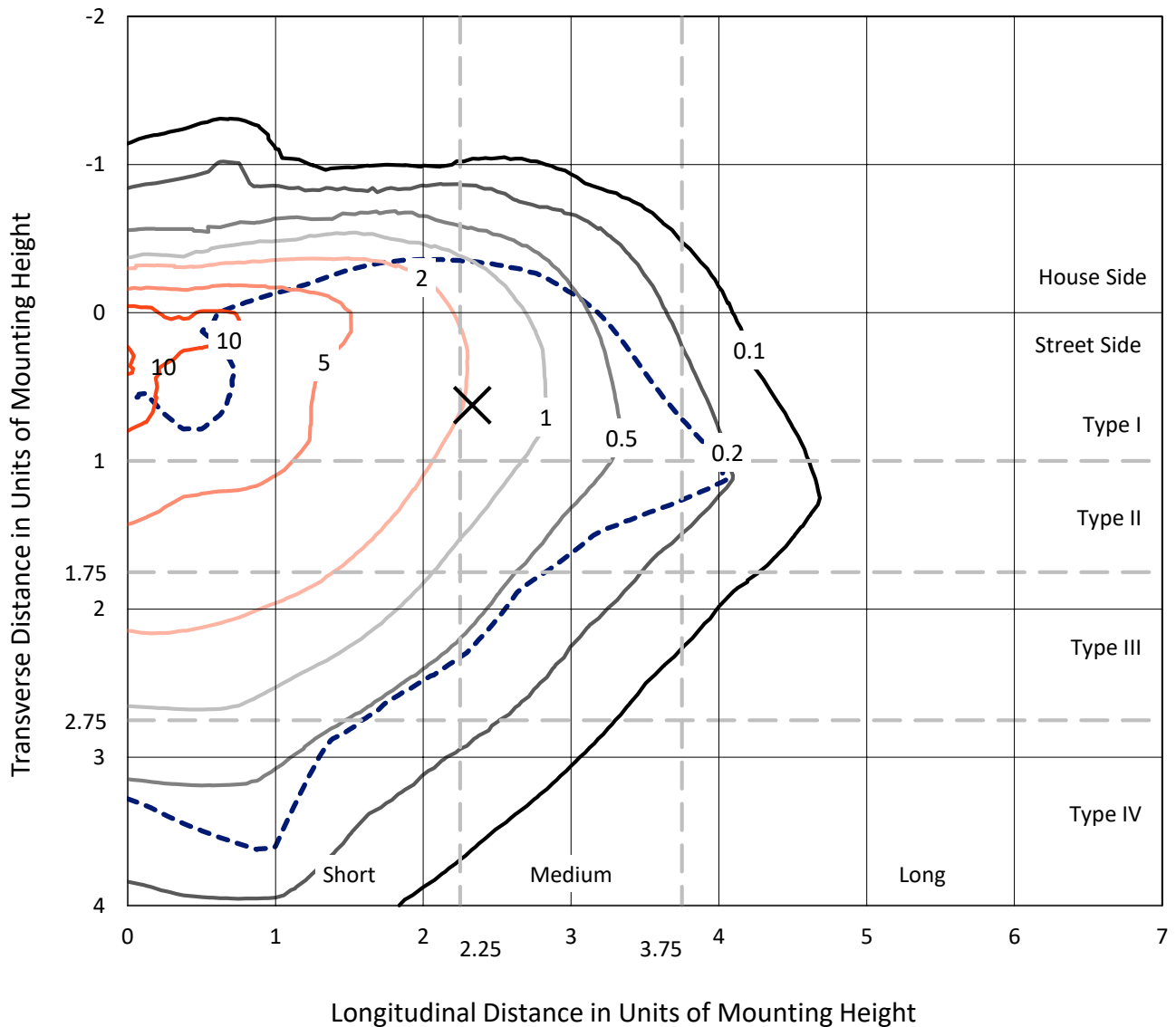
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

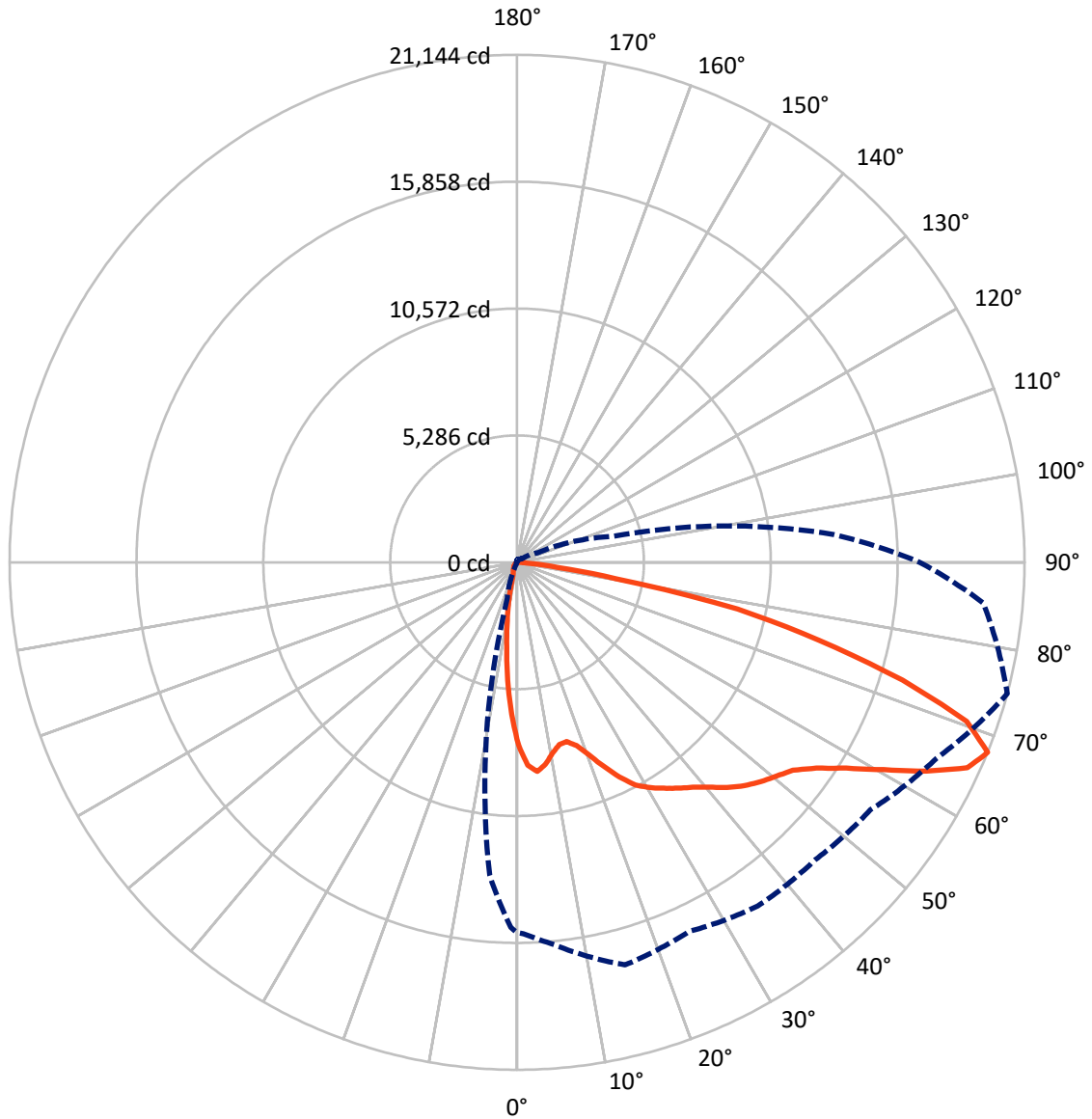
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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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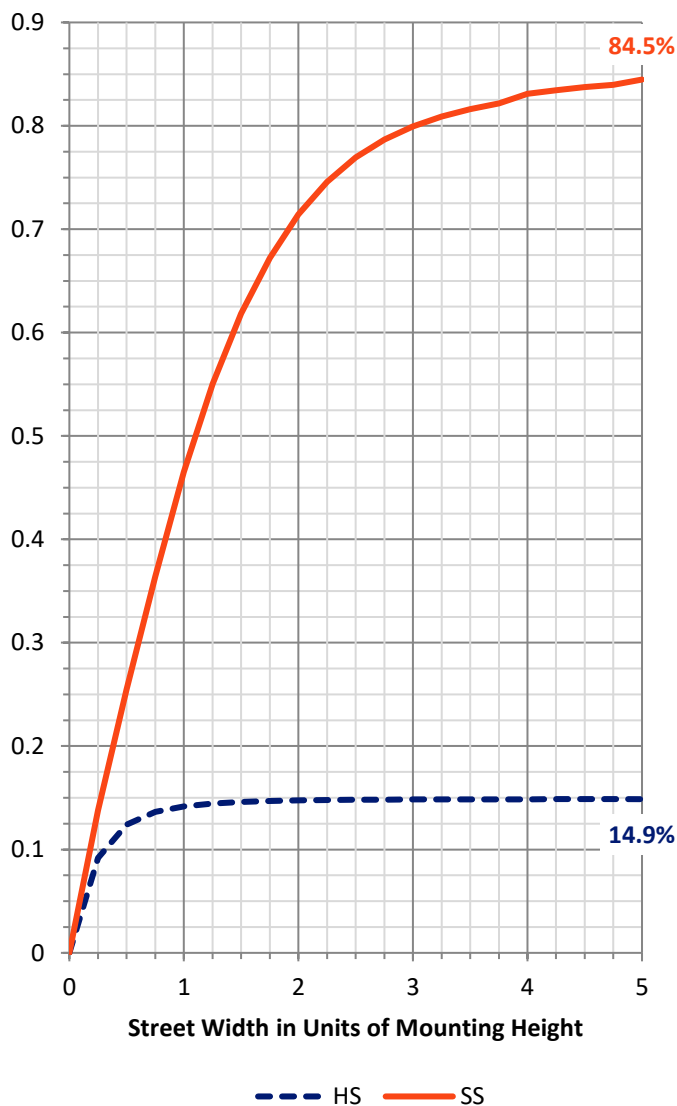
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3416.0	0.0	3416.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	19348.2	0.0	19348.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	22764.2	0.0	22764.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.3	2.5
10°-20°	1140.7	5.0
20°-30°	1613.7	7.1
30°-40°	2372.6	10.4
40°-50°	3410.2	15.0
50°-60°	4800.7	21.1
60°-70°	5606.8	24.6
70°-80°	2860.4	12.6
80°-90°	380.0	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°	22764.2	100.0
0°-180°	22764.2	100.0

Coefficient of Utilization

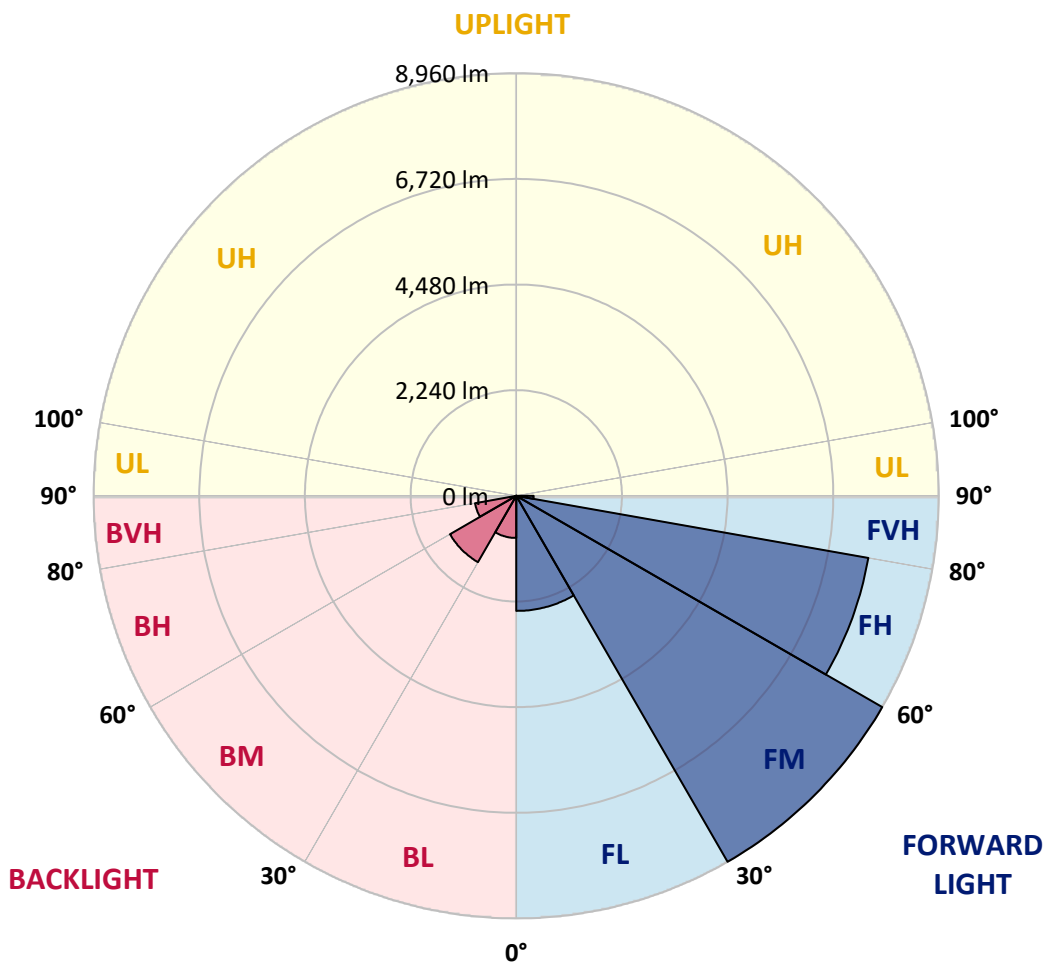


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2440.3	10.7			
FM (30°-60°)	8959.6	39.4			
FH (60°-80°)	7579.8	33.3			G4/12000
FVH (80°-90°)	368.5	1.6			G3/500
BL (0°-30°)	893.3	3.9	B2/1000		
BM (30°-60°)	1623.9	7.1	B2/2500		
BH (60°-80°)	887.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	11.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0
2.5°	8278.7	8291.6	8358.4	8513.7	8683.0	8696.0	8810.3	8692.7	8652.9	8463.0	8266.7
5°	8341.2	8390.8	8620.4	9076.6	9472.3	9599.6	9690.2	9459.5	9216.8	8753.1	8258.2
7.5°	7837.6	7920.6	8281.8	9138.1	9845.5	10158.2	10217.6	9856.3	9262.1	8498.6	7754.6
10°	7192.8	7287.6	7723.3	8775.7	9747.3	10283.4	10365.2	9891.9	9037.8	8086.7	7210.0
12.5°	6670.8	6781.9	7227.2	8368.2	9409.8	10003.0	10164.7	9772.2	8843.7	7794.4	6837.9
15°	6430.3	6557.5	7025.5	8105.0	9035.6	9502.6	9636.3	9467.0	8735.9	7748.1	6751.7
17.5°	6568.3	6706.4	7189.5	8127.7	8684.1	8883.6	8991.5	9060.4	8735.9	8027.4	7004.0
20°	7134.4	7283.3	7794.4	8357.4	8393.0	8318.5	8434.0	8676.5	8837.2	8557.9	7610.1
22.5°	7917.4	8092.1	8669.0	8751.0	8250.6	7969.1	7984.2	8364.9	9021.7	9230.8	8451.2
25°	8871.8	9085.3	9671.9	9337.6	8309.9	7761.0	7755.6	8108.3	9201.7	9904.8	9388.3
27.5°	9819.6	10054.8	10570.2	10053.6	8554.7	7723.3	7712.5	8030.6	9377.5	10504.4	10411.6
30°	10614.4	10843.0	11287.3	10572.3	8818.9	7811.7	7760.0	8113.7	9482.1	10893.7	11157.9
32.5°	11261.4	11444.7	11803.8	10929.3	9101.4	7983.2	7871.0	8335.8	9660.1	11222.5	11843.7
35°	11973.1	12166.2	12309.6	11268.9	9418.5	8230.1	8069.4	8688.5	9933.9	11556.9	12595.4
37.5°	12785.1	12977.1	12959.9	11579.5	9820.7	8638.8	8536.3	9247.0	10359.9	11887.9	13434.3
40°	13579.9	13776.2	13636.0	11919.2	10293.0	9312.8	9237.3	10086.0	10930.3	12311.7	14417.7
42.5°	14323.9	14536.4	14236.7	12240.5	10856.0	10162.5	10291.9	11166.6	11644.3	12833.7	15265.4
45°	14923.6	15140.3	14740.3	12553.3	11449.0	11193.5	11582.8	12363.5	12502.6	13274.7	15838.0
47.5°	15359.2	15564.1	15089.6	12866.0	12208.2	12454.0	13132.4	13618.8	13278.0	13657.5	16244.5
50°	15637.4	15797.0	15192.1	13257.5	13204.6	13925.0	14746.7	14983.9	14008.1	14002.7	16738.4
52.5°	15814.3	15886.5	15267.5	13666.2	14244.2	15526.4	16327.6	16402.0	14759.6	14382.2	17403.8
55°	16423.6	16481.8	15802.4	14161.1	15103.6	16929.3	17757.5	17688.5	15610.5	15125.2	18188.8
57.5°	17463.1	17524.6	16907.8	14872.9	15799.1	17796.3	18793.8	18917.9	16608.0	16169.1	19029.9
60°	17985.0	18099.3	17879.4	15774.4	16473.2	18350.6	19500.2	19895.9	17854.6	17545.0	19845.2
62.5°	17511.6	17677.7	17996.9	16774.0	17142.8	18655.8	19720.1	20246.3	19131.4	19148.6	20347.7
65°	16567.0	16699.7	17241.0	17321.8	17531.1	18618.0	19176.7	19756.8	19913.1	20621.7	20320.8
67.5°	15426.1	15475.7	15935.1	17365.0	16968.1	17483.6	17544.0	17973.2	19295.2	21143.6	19504.5
70°	13783.7	13810.7	14211.8	15921.1	14581.7	14695.0	14605.5	14692.7	16588.5	19872.1	17443.7
72.5°	11093.1	11161.2	11731.5	13221.9	10623.0	10296.3	10999.3	10960.6	12775.4	16789.1	12955.5
75°	8167.5	8285.1	9146.7	10650.0	7455.8	6744.1	7257.4	7394.3	9082.0	12986.8	8101.8
77.5°	5718.6	5806.0	6640.6	7829.0	5396.2	4822.4	4637.0	4799.8	5994.7	9394.8	4081.7
80°	3294.4	3326.7	3859.5	4520.5	3636.3	4160.4	3768.9	3881.0	3592.0	4179.8	1755.6
82.5°	2155.7	2161.1	2369.2	2690.5	2264.6	2631.2	1947.5	2489.9	2209.5	1679.0	571.5
85°	1164.6	1171.1	1373.8	1909.8	1282.2	724.7	426.0	874.5	1366.3	385.0	156.4
87.5°	128.4	117.6	414.1	694.5	355.9	65.8	22.6	98.1	218.9	24.8	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°	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0
2.5°	8166.5	8077.0	7853.8	7617.6	7427.8	7249.9	7070.9	6852.0	6682.6	6648.2	6592.1
5°	7991.7	7708.2	7240.2	6770.0	6391.5	5913.7	5610.7	5374.6	5143.8	5129.8	5083.5
7.5°	7381.4	7008.3	6349.4	5699.2	5166.5	4711.4	4252.0	3944.6	3703.1	3617.9	3567.3
10°	6794.8	6375.3	5552.5	4810.6	4335.0	3932.8	3609.3	3288.0	2996.8	2796.2	2705.6
12.5°	6385.0	5921.3	5014.4	4374.9	4034.2	3652.4	3257.7	2856.6	2521.2	2279.7	2131.9
15°	6226.5	5731.5	4834.4	4202.4	3781.8	3298.7	2794.1	2335.8	1963.7	1744.8	1612.1
17.5°	6415.2	5839.4	4820.3	3992.1	3404.4	2803.8	2246.2	1704.9	1354.5	1188.4	1103.1
20°	6894.0	6182.3	4814.9	3734.4	2955.8	2217.1	1521.6	1121.5	909.1	816.3	776.4
22.5°	7571.2	6620.1	4858.0	3479.9	2488.9	1584.1	1050.3	823.9	715.0	665.3	642.7
25°	8442.5	7234.8	4979.9	3249.1	2050.0	1181.9	818.5	690.2	613.6	574.8	558.6
27.5°	9371.0	7942.2	5169.7	3048.6	1693.0	942.5	700.9	591.0	535.9	509.0	493.9
30°	10136.6	8761.8	5361.6	2825.3	1434.2	821.7	641.6	539.2	475.6	458.3	444.3
32.5°	10806.3	9381.8	5497.5	2623.7	1264.9	730.1	580.2	482.1	438.9	405.5	390.4
35°	11499.8	9898.3	5493.2	2482.4	1148.5	661.0	528.4	431.3	379.6	340.8	328.9
37.5°	12250.3	10481.8	5399.4	2361.7	1097.7	606.1	499.3	404.4	352.6	313.8	298.7
40°	13129.1	11094.3	5303.4	2248.4	1083.8	561.8	478.8	382.9	327.8	290.1	275.0
42.5°	13985.3	11646.4	5219.3	2164.3	1023.4	560.8	460.5	366.7	308.4	271.7	254.5
45°	14670.1	12160.8	5203.2	2113.6	959.8	580.2	450.8	355.9	293.3	256.6	240.4
47.5°	15239.5	12719.4	5306.7	2078.0	899.3	529.5	474.4	348.3	279.3	243.7	225.3
50°	15916.7	13405.2	5550.3	2019.8	835.7	476.7	543.5	350.4	267.4	230.7	211.4
52.5°	16861.4	14354.1	5908.3	1921.7	748.4	428.1	534.9	352.6	254.5	216.8	197.3
55°	17920.4	15539.3	6293.3	1758.9	626.6	364.5	458.3	337.5	229.7	201.7	183.3
57.5°	19033.2	16614.4	6522.0	1564.7	498.2	314.9	366.7	307.3	202.7	181.2	169.3
60°	19208.0	17023.1	6417.3	1326.4	395.7	273.9	271.7	312.7	181.2	159.6	151.0
62.5°	18773.3	16509.8	5911.6	1113.9	331.1	240.4	223.2	272.9	164.0	142.3	133.7
65°	17937.6	15122.0	5092.0	1003.9	307.3	206.0	185.5	192.0	143.5	124.0	116.4
67.5°	16775.1	13269.3	4180.9	941.4	304.1	176.8	158.5	145.6	124.0	107.9	101.4
70°	14398.4	11054.4	3335.4	907.0	295.5	148.9	133.7	118.6	103.5	91.7	86.3
72.5°	10597.1	7833.3	2594.5	869.1	297.6	118.6	116.4	98.1	83.0	71.2	69.0
75°	6123.0	4475.2	1701.7	704.2	283.7	91.7	97.1	69.0	58.2	49.7	49.7
77.5°	3263.1	2729.3	648.1	293.3	103.5	58.2	55.0	41.0	36.7	30.2	29.2
80°	1422.4	1201.3	195.2	82.0	57.2	31.3	20.5	18.4	16.2	12.9	11.8
82.5°	503.6	434.6	63.6	39.9	24.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	114.3	82.0	0.0	9.7	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°	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0
2.5°	6477.8	6454.0	6313.8	6319.2	6344.0	6379.6	6295.5	6334.3	6439.0	6539.2	6577.0
5°	5009.0	5014.4	4929.2	4982.1	5029.5	5061.8	4926.0	4928.2	5011.2	5124.4	5183.7
7.5°	3529.5	3520.9	3525.2	3651.4	3740.8	3676.2	3726.8	3551.1	3561.9	3642.7	3582.4
10°	2623.7	2505.0	2438.2	2533.1	2631.2	2595.7	2508.3	2451.1	2491.1	2580.6	2574.1
12.5°	2061.9	1891.4	1791.2	1723.3	1804.1	1737.2	1735.1	1685.4	1631.6	1641.3	1784.7
15°	1550.7	1426.7	1308.1	1199.2	1196.9	1174.3	1059.0	929.6	918.8	925.2	999.6
17.5°	1066.5	1024.4	975.9	882.1	857.3	762.4	650.2	598.5	572.6	584.5	609.2
20°	749.4	733.3	738.7	688.0	652.5	561.8	496.0	475.6	471.3	483.1	494.9
22.5°	621.2	592.0	588.8	566.1	530.5	464.7	429.2	417.3	411.9	422.7	431.3
25°	543.5	514.4	502.5	488.5	450.8	405.5	383.9	373.1	367.7	374.2	379.6
27.5°	478.8	451.8	441.1	431.3	394.7	362.4	345.0	335.4	331.1	333.2	338.6
30°	430.3	406.5	392.6	380.6	349.4	326.8	311.6	301.9	297.6	297.6	303.0
32.5°	379.6	366.7	353.7	338.6	309.5	294.4	279.3	268.5	264.2	265.3	269.6
35°	316.0	311.6	314.9	300.9	276.0	263.2	248.1	236.1	232.9	234.0	238.3
37.5°	280.4	260.9	272.9	265.3	251.2	234.0	214.6	203.8	198.4	201.7	203.8
40°	257.8	234.0	225.3	232.9	230.7	202.7	185.5	174.7	170.4	171.5	173.6
42.5°	238.3	210.3	190.9	189.8	202.7	176.8	158.5	148.9	143.5	143.5	145.6
45°	220.0	189.8	166.1	147.7	170.4	149.9	132.7	124.0	117.6	117.6	118.6
47.5°	206.0	172.5	144.5	120.8	128.4	123.0	108.9	100.3	93.8	93.8	94.9
50°	193.0	155.3	125.1	101.4	95.9	101.4	88.4	78.7	74.4	73.3	75.5
52.5°	179.0	138.1	106.8	86.3	75.5	76.6	69.0	62.5	57.2	57.2	59.3
55°	165.0	124.0	92.8	73.3	62.5	57.2	55.0	50.7	46.4	46.4	48.5
57.5°	151.0	108.9	78.7	60.4	49.7	45.3	45.3	42.0	38.8	38.8	41.0
60°	138.1	93.8	64.7	49.7	38.8	37.7	38.8	35.6	33.4	33.4	35.6
62.5°	123.0	79.8	52.8	41.0	31.3	30.2	33.4	31.3	29.2	29.2	31.3
65°	104.6	67.9	42.0	31.3	23.8	23.8	28.0	25.9	23.8	23.8	25.9
67.5°	88.4	57.2	32.3	22.6	17.2	18.4	23.8	21.6	20.5	20.5	22.6
70°	73.3	44.2	22.6	14.0	9.7	14.0	18.4	18.4	18.4	18.4	20.5
72.5°	55.0	30.2	12.9	5.4	4.3	9.7	15.1	17.2	16.2	16.2	19.4
75°	35.6	17.2	4.3	0.0	0.0	5.4	11.8	14.0	14.0	12.9	16.2
77.5°	20.5	5.4	0.0	0.0	0.0	0.0	7.5	6.4	5.4	4.3	7.5
80°	5.4	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: P383394

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0	7637.0
2.5°	6729.0	6856.3	7035.2	7225.1	7517.3	7749.2	7976.7	8171.9	8247.4	8278.7
5°	5326.0	5512.6	5774.7	6111.1	6638.4	7112.9	7593.9	8078.1	8288.4	8341.2
7.5°	3821.8	4060.1	4393.3	4814.9	5432.8	6047.5	6719.3	7429.9	7755.6	7837.6
10°	2828.6	3119.8	3501.5	3945.8	4535.6	5167.6	5899.8	6711.8	7083.8	7192.8
12.5°	2006.8	2400.4	2911.6	3451.8	3963.0	4526.9	5267.8	6162.8	6553.3	6670.8
15°	1178.7	1559.3	2164.3	2887.9	3542.4	4114.0	4866.7	5881.4	6311.7	6430.3
17.5°	676.1	866.0	1323.2	2129.8	3018.4	3809.8	4740.6	5951.6	6458.3	6568.3
20°	516.5	576.9	762.4	1371.7	2405.8	3511.2	4740.6	6348.4	6972.7	7134.4
22.5°	451.8	496.0	571.5	818.5	1770.7	3190.9	4795.5	6922.1	7738.4	7917.4
25°	401.1	441.1	505.7	615.8	1207.8	2810.2	4926.0	7626.2	8639.9	8871.8
27.5°	359.1	396.8	455.1	539.2	826.0	2350.9	5101.8	8452.2	9634.2	9819.6
30°	321.4	357.0	409.8	469.1	637.3	1830.0	5251.7	9230.8	10414.9	10614.4
32.5°	285.8	318.1	365.5	409.8	521.9	1353.4	5267.8	9847.7	11063.0	11261.4
35°	252.4	281.4	324.6	359.1	432.4	1068.7	5016.6	10382.6	11711.0	11973.1
37.5°	220.0	248.1	285.8	311.6	380.6	871.3	4632.7	10978.8	12542.5	12785.1
40°	189.8	214.6	253.4	270.7	360.1	669.7	4215.3	11604.3	13357.7	13579.9
42.5°	161.7	185.5	223.2	256.6	316.0	500.3	3764.6	12191.0	14091.1	14323.9
45°	134.8	159.6	197.3	271.7	262.0	374.2	3282.6	12580.3	14670.1	14923.6
47.5°	108.9	136.9	188.7	258.8	209.2	275.0	2900.8	12949.1	15109.0	15359.2
50°	87.4	115.4	212.4	230.7	171.5	210.3	2741.2	13279.0	15397.0	15637.4
52.5°	71.2	97.1	200.6	176.8	143.5	173.6	2827.5	13813.9	15663.3	15814.3
55°	59.3	76.6	120.8	123.0	121.8	147.7	2934.3	14581.7	16352.4	16423.6
57.5°	51.8	61.5	84.1	94.9	102.5	131.5	2936.4	15683.8	17418.9	17463.1
60°	44.2	53.9	70.1	76.6	88.4	117.6	2829.7	16068.7	17838.4	17985.0
62.5°	38.8	47.4	58.2	63.6	74.4	105.6	2579.5	15511.3	17262.5	17511.6
65°	34.5	43.1	48.5	53.9	65.8	94.9	2167.5	14396.2	16307.1	16567.0
67.5°	30.2	37.7	43.1	48.5	59.3	84.1	1596.0	13101.1	15210.4	15426.1
70°	26.9	33.4	38.8	43.1	51.8	71.2	968.3	11116.9	13694.2	13783.7
72.5°	25.9	30.2	35.6	38.8	45.3	62.5	490.6	8169.8	10947.6	11093.1
75°	22.6	26.9	32.3	34.5	39.9	53.9	199.5	5366.0	7933.5	8167.5
77.5°	18.4	24.8	29.2	31.3	34.5	44.2	101.4	3429.2	5567.6	5718.6
80°	6.4	18.4	24.8	25.9	29.2	32.3	66.9	1877.4	3229.7	3294.4
82.5°	0.0	11.8	19.4	18.4	20.5	24.8	43.1	892.9	2131.9	2155.7
85°	0.0	5.4	15.1	11.8	8.7	17.2	15.1	195.2	1118.2	1164.6
87.5°	0.0	0.0	1.1	5.4	4.3	6.4	2.1	1.1	101.4	128.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)