

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: P383226

Luminaire Tested: **GLEON-SA5C-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383226
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-SA5C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 24414 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

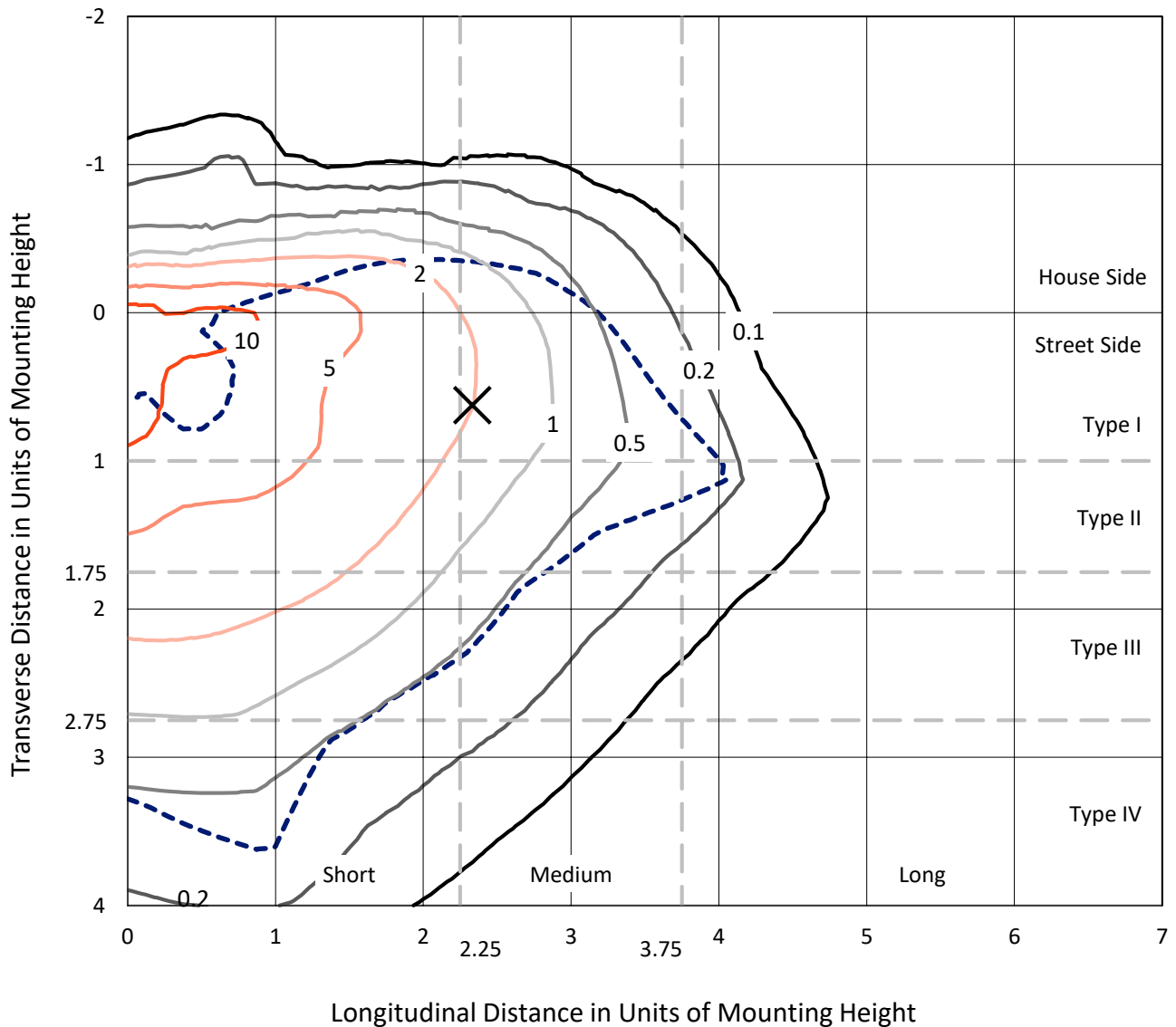
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

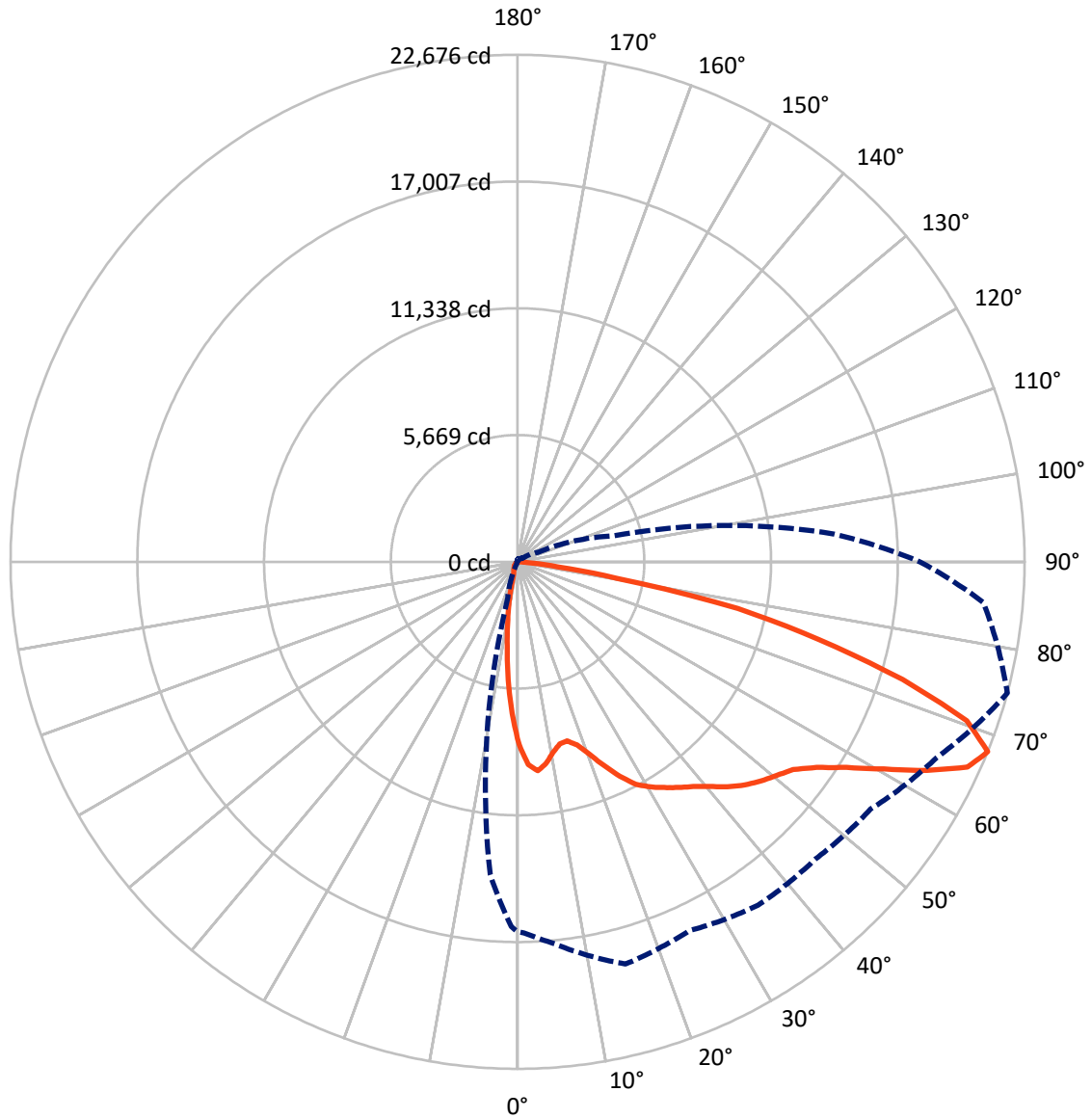
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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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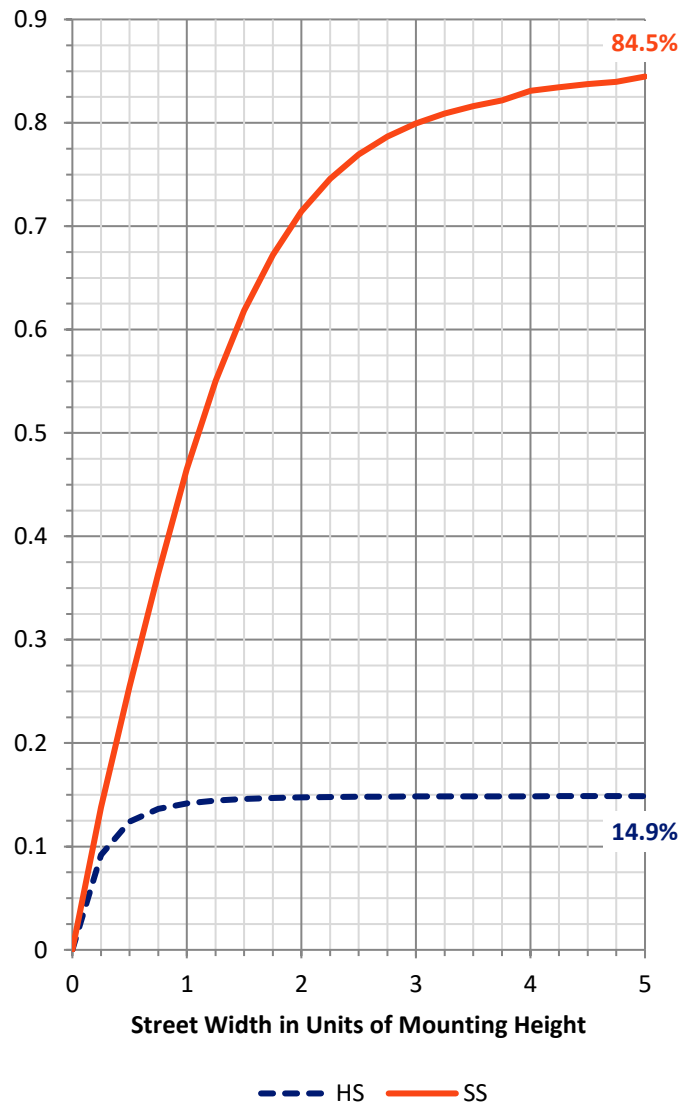
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3663.6	0.0	3663.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20750.4	0.0	20750.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	24414.0	0.0	24414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.3	2.5
10°-20°	1223.3	5.0
20°-30°	1730.6	7.1
30°-40°	2544.5	10.4
40°-50°	3657.3	15.0
50°-60°	5148.6	21.1
60°-70°	6013.1	24.6
70°-80°	3067.7	12.6
80°-90°	407.5	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°	24414.0	100.0
0°-180°	24414.0	100.0

Coefficient of Utilization

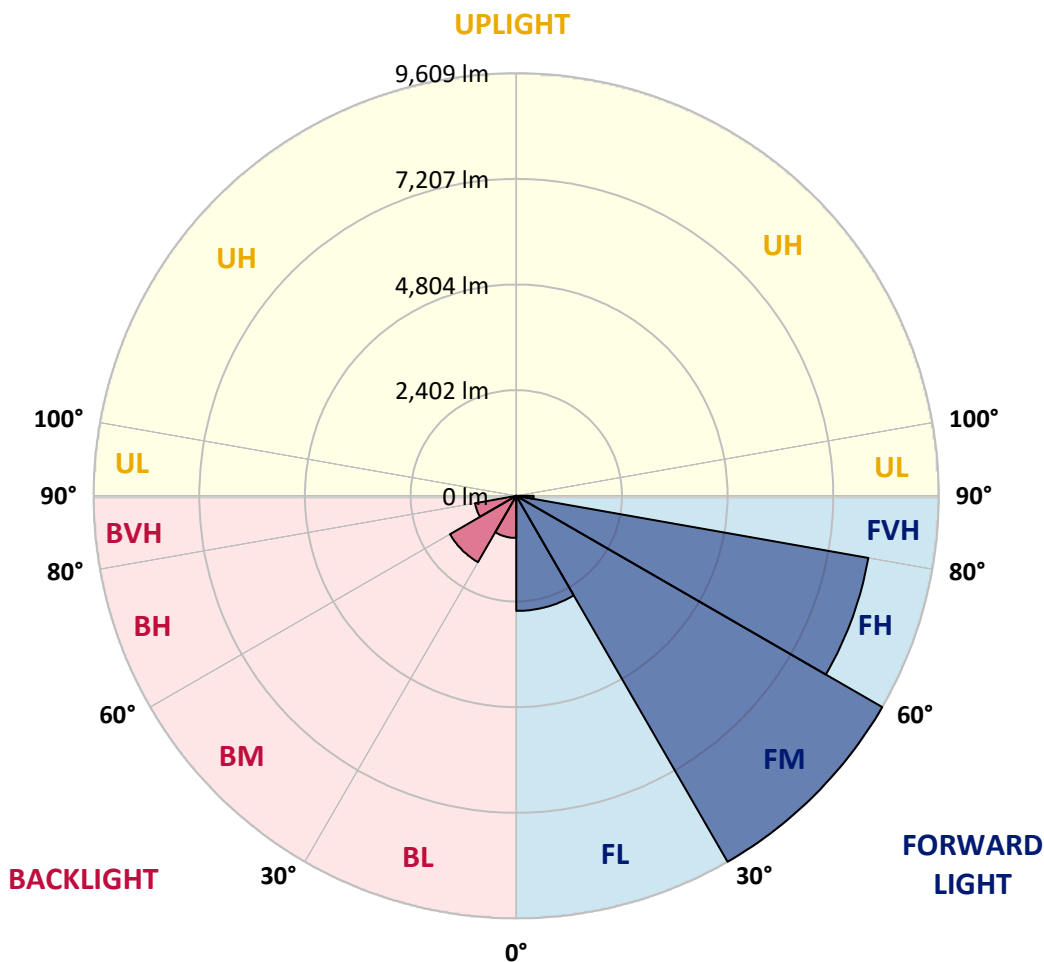


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2617.2	10.7			
FM (30°-60°)	9608.9	39.4			
FH (60°-80°)	8129.2	33.3			G4/12000
FVH (80°-90°)	395.2	1.6			G3/500
BL (0°-30°)	958.1	3.9	B2/1000		
BM (30°-60°)	1741.5	7.1	B2/2500		
BH (60°-80°)	951.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	12.4	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°	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4
2.5°	8878.6	8892.5	8964.2	9130.8	9312.3	9326.2	9448.8	9322.7	9279.9	9076.3	8865.9
5°	8945.7	8998.8	9245.2	9734.4	10158.9	10295.4	10392.5	10145.0	9884.7	9387.5	8856.6
7.5°	8405.6	8494.7	8882.1	9800.3	10559.0	10894.4	10958.1	10570.6	9933.4	9114.5	8316.6
10°	7714.0	7815.8	8283.0	9411.8	10453.8	11028.6	11116.4	10608.7	9692.8	8672.7	7732.5
12.5°	7154.2	7273.3	7751.0	8974.6	10091.8	10727.9	10901.3	10480.4	9484.6	8359.3	7333.5
15°	6896.3	7032.8	7534.7	8692.4	9690.5	10191.2	10334.7	10153.1	9368.9	8309.6	7241.0
17.5°	7044.4	7192.4	7710.5	8716.7	9313.4	9527.4	9643.1	9717.1	9368.9	8609.2	7511.6
20°	7651.5	7811.1	8359.3	8963.1	9001.2	8921.4	9045.1	9305.3	9477.7	9178.2	8161.6
22.5°	8491.1	8678.6	9297.3	9385.2	8848.6	8546.7	8562.9	8971.2	9675.4	9899.8	9063.7
25°	9514.7	9743.7	10372.9	10014.3	8912.1	8323.5	8317.7	8695.9	9868.6	10622.6	10068.6
27.5°	10531.2	10783.4	11336.2	10782.2	9174.7	8283.0	8271.4	8612.6	10057.1	11265.7	11166.2
30°	11383.6	11628.8	12105.3	11338.5	9458.0	8377.9	8322.4	8701.7	10169.3	11683.2	11966.5
32.5°	12077.5	12274.2	12659.3	11721.3	9761.0	8561.8	8441.4	8939.9	10360.1	12035.9	12702.0
35°	12840.8	13047.9	13201.7	12085.6	10101.1	8826.6	8654.3	9318.1	10653.8	12394.4	13508.2
37.5°	13711.7	13917.6	13899.1	12418.7	10532.4	9264.9	9155.1	9917.2	11110.7	12749.4	14408.0
40°	14564.1	14774.5	14624.2	12783.1	11039.0	9987.7	9906.7	10816.9	11722.5	13204.0	15462.7
42.5°	15362.1	15589.9	15268.3	13127.6	11642.7	10899.0	11037.8	11975.8	12488.1	13763.7	16371.7
45°	16005.1	16237.5	15808.5	13463.1	12278.8	12004.7	12422.2	13259.6	13408.7	14236.7	16985.8
47.5°	16472.4	16692.0	16183.2	13798.5	13093.0	13356.6	14084.1	14605.7	14240.2	14647.4	17421.8
50°	16770.7	16941.9	16293.0	14218.3	14161.6	14934.1	15815.4	16069.8	15023.2	15017.4	17951.5
52.5°	16960.4	17037.8	16374.0	14656.6	15276.4	16651.6	17510.9	17590.7	15829.3	15424.5	18665.0
55°	17613.8	17676.3	16947.6	15187.4	16198.2	18156.2	19044.5	18970.4	16741.8	16221.3	19507.1
57.5°	18728.7	18794.6	18133.1	15950.7	16944.2	19086.1	20155.8	20288.8	17811.6	17340.9	20409.1
60°	19288.4	19411.0	19175.1	16917.6	17667.0	19680.5	20913.3	21337.8	19148.5	18816.6	21283.4
62.5°	18780.7	18958.9	19301.2	17989.7	18385.2	20007.8	21149.3	21713.6	20517.8	20536.3	21822.4
65°	17767.6	17909.8	18490.5	18577.2	18801.5	19967.4	20566.4	21188.6	21356.3	22116.2	21793.5
67.5°	16544.0	16597.2	17089.9	18623.4	18197.9	18750.7	18815.4	19275.8	20693.6	22675.9	20918.0
70°	14782.6	14811.5	15241.8	17074.9	15638.4	15759.9	15663.9	15757.6	17790.8	21312.3	18707.9
72.5°	11897.2	11970.0	12581.8	14180.1	11392.9	11042.5	11796.5	11754.9	13701.3	18005.9	13894.4
75°	8759.5	8885.6	9809.6	11421.8	7996.2	7232.9	7783.4	7930.3	9740.3	13927.9	8688.9
77.5°	6133.0	6226.7	7121.9	8396.3	5787.2	5172.0	4973.1	5147.6	6429.1	10075.6	4377.4
80°	3533.2	3567.8	4139.1	4848.1	3899.8	4461.8	4042.1	4162.3	3852.4	4482.7	1882.8
82.5°	2311.9	2317.7	2540.9	2885.6	2428.7	2821.9	2088.7	2670.4	2369.7	1800.7	613.0
85°	1249.0	1256.0	1473.4	2048.2	1375.1	777.2	456.8	938.0	1465.3	412.9	167.7
87.5°	137.6	126.0	444.1	744.8	381.7	70.5	24.3	105.3	234.7	26.6	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°	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4
2.5°	8758.3	8662.4	8423.0	8169.7	7966.1	7775.3	7583.3	7348.5	7167.0	7130.0	7069.8
5°	8571.0	8266.8	7764.9	7260.7	6854.7	6342.3	6017.3	5764.1	5516.6	5501.5	5451.9
7.5°	7916.4	7516.2	6809.6	6112.3	5540.8	5052.8	4560.2	4230.5	3971.5	3880.1	3825.8
10°	7287.2	6837.4	5954.9	5159.3	4649.2	4217.9	3870.9	3526.2	3213.9	2998.8	2901.7
12.5°	6847.7	6350.5	5377.8	4692.0	4326.6	3917.2	3493.9	3063.6	2703.9	2444.8	2286.5
15°	6677.7	6146.9	5184.7	4506.9	4056.0	3537.8	2996.5	2505.0	2106.0	1871.3	1729.0
17.5°	6880.1	6262.5	5169.6	4281.5	3651.1	3006.9	2409.1	1828.4	1452.6	1274.5	1183.2
20°	7393.6	6630.3	5163.8	4005.0	3170.1	2377.8	1631.9	1202.8	975.0	875.5	832.7
22.5°	8119.9	7099.9	5210.1	3732.1	2669.3	1699.0	1126.4	883.6	766.8	713.6	689.3
25°	9054.4	7759.1	5340.8	3484.6	2198.5	1267.6	877.8	740.2	658.0	616.4	599.1
27.5°	10050.2	8517.8	5544.4	3269.5	1815.8	1010.8	751.8	633.7	574.8	545.9	529.7
30°	10871.3	9396.7	5750.3	3030.0	1538.2	881.2	688.1	578.3	510.0	491.5	476.5
32.5°	11589.5	10061.7	5896.0	2813.8	1356.6	783.0	622.2	517.0	470.7	434.8	418.6
35°	12333.1	10615.7	5891.3	2662.3	1231.7	708.9	566.7	462.6	407.1	365.4	352.8
37.5°	13138.1	11241.4	5790.7	2532.8	1177.4	649.9	535.5	433.7	378.2	336.6	320.4
40°	14080.6	11898.3	5687.8	2411.3	1162.3	602.5	513.5	410.5	351.6	311.1	294.9
42.5°	14998.9	12490.4	5597.6	2321.1	1097.5	601.4	493.8	393.2	330.8	291.5	272.9
45°	15733.3	13042.0	5580.2	2266.7	1029.3	622.2	483.4	381.7	314.6	275.3	257.9
47.5°	16343.9	13641.1	5691.2	2228.6	964.5	567.9	508.9	373.6	299.5	261.4	241.7
50°	17070.2	14376.7	5952.6	2166.1	896.3	511.1	582.9	375.9	286.8	247.5	226.6
52.5°	18083.4	15394.5	6336.6	2061.0	802.6	459.2	573.6	378.2	272.9	232.4	211.6
55°	19219.0	16665.5	6749.4	1886.3	671.9	390.9	491.5	362.0	246.3	216.3	196.6
57.5°	20412.6	17818.5	6994.6	1678.1	534.3	337.7	393.2	329.6	217.4	194.3	181.6
60°	20600.0	18256.8	6882.5	1422.6	424.4	293.7	291.5	335.4	194.3	171.1	161.9
62.5°	20133.9	17706.3	6340.0	1194.7	355.0	257.9	239.4	292.6	175.8	152.7	143.4
65°	19237.6	16217.9	5461.1	1076.7	329.6	220.9	198.9	205.9	153.8	133.0	124.9
67.5°	17990.8	14231.0	4483.8	1009.6	326.1	189.7	170.0	156.1	133.0	115.7	108.7
70°	15441.9	11855.5	3577.1	972.6	316.9	159.6	143.4	127.2	111.0	98.3	92.5
72.5°	11365.2	8401.0	2782.6	932.2	319.2	127.2	124.9	105.3	89.1	76.3	74.1
75°	6566.8	4799.5	1825.0	755.2	304.2	98.3	104.1	74.1	62.4	53.2	53.2
77.5°	3499.6	2927.1	695.0	314.6	111.0	62.4	59.0	44.0	39.3	32.4	31.2
80°	1525.4	1288.3	209.3	87.9	61.3	33.5	22.0	19.7	17.3	13.9	12.8
82.5°	540.1	466.1	68.2	42.8	26.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	122.6	87.9	0.0	10.4	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°	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4
2.5°	6947.2	6921.8	6771.4	6777.2	6803.8	6841.9	6751.8	6793.4	6905.6	7013.2	7053.6
5°	5372.0	5377.8	5286.4	5343.2	5394.0	5428.7	5283.0	5285.3	5374.4	5495.8	5559.4
7.5°	3785.3	3776.0	3780.7	3915.9	4012.0	3942.6	3996.9	3808.4	3820.0	3906.7	3842.0
10°	2813.8	2686.6	2614.9	2716.7	2821.9	2783.7	2690.0	2628.7	2671.6	2767.5	2760.6
12.5°	2211.3	2028.5	1920.9	1848.1	1934.8	1863.2	1860.9	1807.7	1749.8	1760.3	1914.1
15°	1663.1	1530.1	1402.8	1286.1	1283.8	1259.5	1135.7	996.9	985.4	992.3	1072.1
17.5°	1143.8	1098.7	1046.7	946.1	919.4	817.6	697.4	641.8	614.1	626.8	653.5
20°	803.7	786.4	792.2	737.9	699.7	602.5	532.0	510.0	505.4	518.1	530.9
22.5°	666.1	634.9	631.5	607.2	569.0	498.5	460.3	447.6	441.8	453.4	462.6
25°	582.9	551.7	538.9	523.9	483.4	434.8	411.7	400.2	394.4	401.3	407.1
27.5°	513.5	484.6	473.0	462.6	423.3	388.5	370.1	359.7	355.0	357.3	363.1
30°	461.5	436.0	421.0	408.3	374.7	350.4	334.2	323.8	319.2	319.2	325.0
32.5°	407.1	393.2	379.3	363.1	331.9	315.7	299.5	287.9	283.4	284.5	289.2
35°	338.9	334.2	337.7	322.7	296.0	282.2	266.0	253.3	249.8	251.0	255.6
37.5°	300.7	279.8	292.6	284.5	269.5	251.0	230.2	218.5	212.8	216.3	218.5
40°	276.4	251.0	241.7	249.8	247.5	217.4	198.9	187.3	182.8	183.9	186.2
42.5°	255.6	225.5	204.7	203.5	217.4	189.7	170.0	159.6	153.8	153.8	156.1
45°	236.0	203.5	178.1	158.5	182.8	160.8	142.2	133.0	126.0	126.0	127.2
47.5°	220.9	185.0	155.0	129.5	137.6	131.8	116.8	107.6	100.6	100.6	101.8
50°	207.0	166.6	134.1	108.7	102.9	108.7	94.8	84.4	79.8	78.6	81.0
52.5°	192.0	148.0	114.5	92.5	81.0	82.1	74.1	67.1	61.3	61.3	63.6
55°	177.0	133.0	99.5	78.6	67.1	61.3	59.0	54.4	49.7	49.7	52.1
57.5°	161.9	116.8	84.4	64.7	53.2	48.5	48.5	45.1	41.6	41.6	44.0
60°	148.0	100.6	69.4	53.2	41.6	40.5	41.6	38.2	35.9	35.9	38.2
62.5°	131.8	85.6	56.6	44.0	33.5	32.4	35.9	33.5	31.2	31.2	33.5
65°	112.2	72.8	45.1	33.5	25.4	25.4	30.1	27.8	25.4	25.4	27.8
67.5°	94.8	61.3	34.7	24.3	18.5	19.7	25.4	23.1	22.0	22.0	24.3
70°	78.6	47.4	24.3	15.0	10.4	15.0	19.7	19.7	19.7	19.7	22.0
72.5°	59.0	32.4	13.9	5.8	4.7	10.4	16.2	18.5	17.3	17.3	20.8
75°	38.2	18.5	4.7	0.0	0.0	5.8	12.8	15.0	15.0	13.9	17.3
77.5°	22.0	5.8	0.0	0.0	0.0	0.0	8.1	6.9	5.8	4.7	8.1
80°	5.8	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: P383226

CATALOG NUMBER: GLEON-SA5C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4	8190.4
2.5°	7216.7	7353.2	7545.2	7748.7	8062.1	8310.8	8554.8	8764.1	8845.0	8878.6
5°	5712.1	5912.2	6193.2	6554.0	7119.5	7628.4	8144.2	8663.5	8889.0	8945.7
7.5°	4098.7	4354.3	4711.7	5163.8	5826.6	6485.8	7206.3	7968.5	8317.7	8405.6
10°	3033.6	3345.8	3755.3	4231.7	4864.4	5542.1	6327.4	7198.2	7597.1	7714.0
12.5°	2152.2	2574.4	3122.6	3702.1	4250.2	4855.0	5649.6	6609.5	7028.2	7154.2
15°	1264.1	1672.3	2321.1	3097.1	3799.1	4412.1	5219.4	6307.7	6769.1	6896.3
17.5°	725.1	928.7	1419.0	2284.2	3237.1	4086.0	5084.1	6382.9	6926.4	7044.4
20°	554.0	618.7	817.6	1471.1	2580.2	3765.6	5084.1	6808.4	7478.1	7651.5
22.5°	484.6	532.0	613.0	877.8	1899.1	3422.1	5143.1	7423.7	8299.2	8491.1
25°	430.2	473.0	542.4	660.4	1295.3	3013.9	5283.0	8178.9	9266.0	9514.7
27.5°	385.1	425.6	488.0	578.3	885.9	2521.2	5471.5	9064.8	10332.4	10531.2
30°	344.7	382.8	439.5	503.1	683.5	1962.6	5632.2	9899.8	11169.7	11383.6
32.5°	306.5	341.1	392.1	439.5	559.8	1451.4	5649.6	10561.3	11864.7	12077.5
35°	270.6	301.8	348.1	385.1	463.7	1146.1	5380.2	11135.0	12559.8	12840.8
37.5°	236.0	266.0	306.5	334.2	408.3	934.4	4968.4	11774.6	13451.5	13711.7
40°	203.5	230.2	271.8	290.3	386.3	718.2	4520.8	12445.3	14325.8	14564.1
42.5°	173.5	198.9	239.4	275.3	338.9	536.7	4037.4	13074.5	15112.2	15362.1
45°	144.6	171.1	211.6	291.5	281.0	401.3	3520.4	13492.0	15733.3	16005.1
47.5°	116.8	146.9	202.4	277.6	224.4	294.9	3111.0	13887.5	16204.0	16472.4
50°	93.7	123.7	227.9	247.5	183.9	225.5	2939.9	14241.4	16512.8	16770.7
52.5°	76.3	104.1	215.1	189.7	153.8	186.2	3032.4	14815.1	16798.5	16960.4
55°	63.6	82.1	129.5	131.8	130.7	158.5	3146.9	15638.4	17537.5	17613.8
57.5°	55.5	66.0	90.2	101.8	109.8	141.1	3149.2	16820.4	18681.3	18728.7
60°	47.4	57.8	75.2	82.1	94.8	126.0	3034.7	17233.4	19131.2	19288.4
62.5°	41.6	50.9	62.4	68.2	79.8	113.4	2766.4	16635.4	18513.6	18780.7
65°	37.0	46.3	52.1	57.8	70.5	101.8	2324.6	15439.6	17488.9	17767.6
67.5°	32.4	40.5	46.3	52.1	63.6	90.2	1711.6	14050.5	16312.7	16544.0
70°	28.9	35.9	41.6	46.3	55.5	76.3	1038.6	11922.6	14686.7	14782.6
72.5°	27.8	32.4	38.2	41.6	48.5	67.1	526.2	8761.8	11741.0	11897.2
75°	24.3	28.9	34.7	37.0	42.8	57.8	214.0	5754.8	8508.5	8759.5
77.5°	19.7	26.6	31.2	33.5	37.0	47.4	108.7	3677.7	5971.1	6133.0
80°	6.9	19.7	26.6	27.8	31.2	34.7	71.7	2013.5	3463.8	3533.2
82.5°	0.0	12.8	20.8	19.7	22.0	26.6	46.3	957.6	2286.5	2311.9
85°	0.0	5.8	16.2	12.8	9.2	18.5	16.2	209.3	1199.3	1249.0
87.5°	0.0	0.0	1.1	5.8	4.7	6.9	2.3	1.1	108.7	137.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)