

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: P383228

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383228
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-SA5C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 24412.1 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

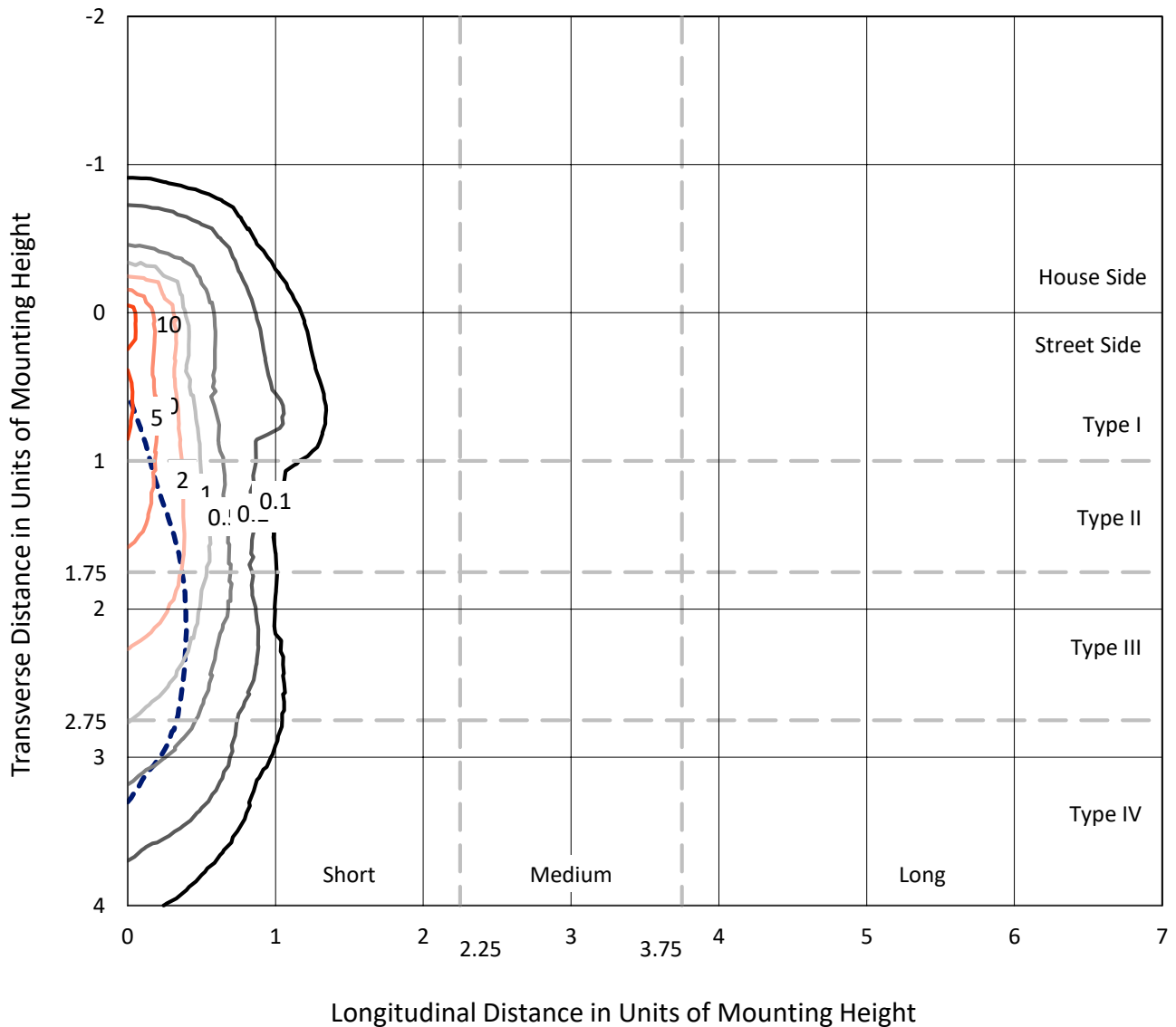
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

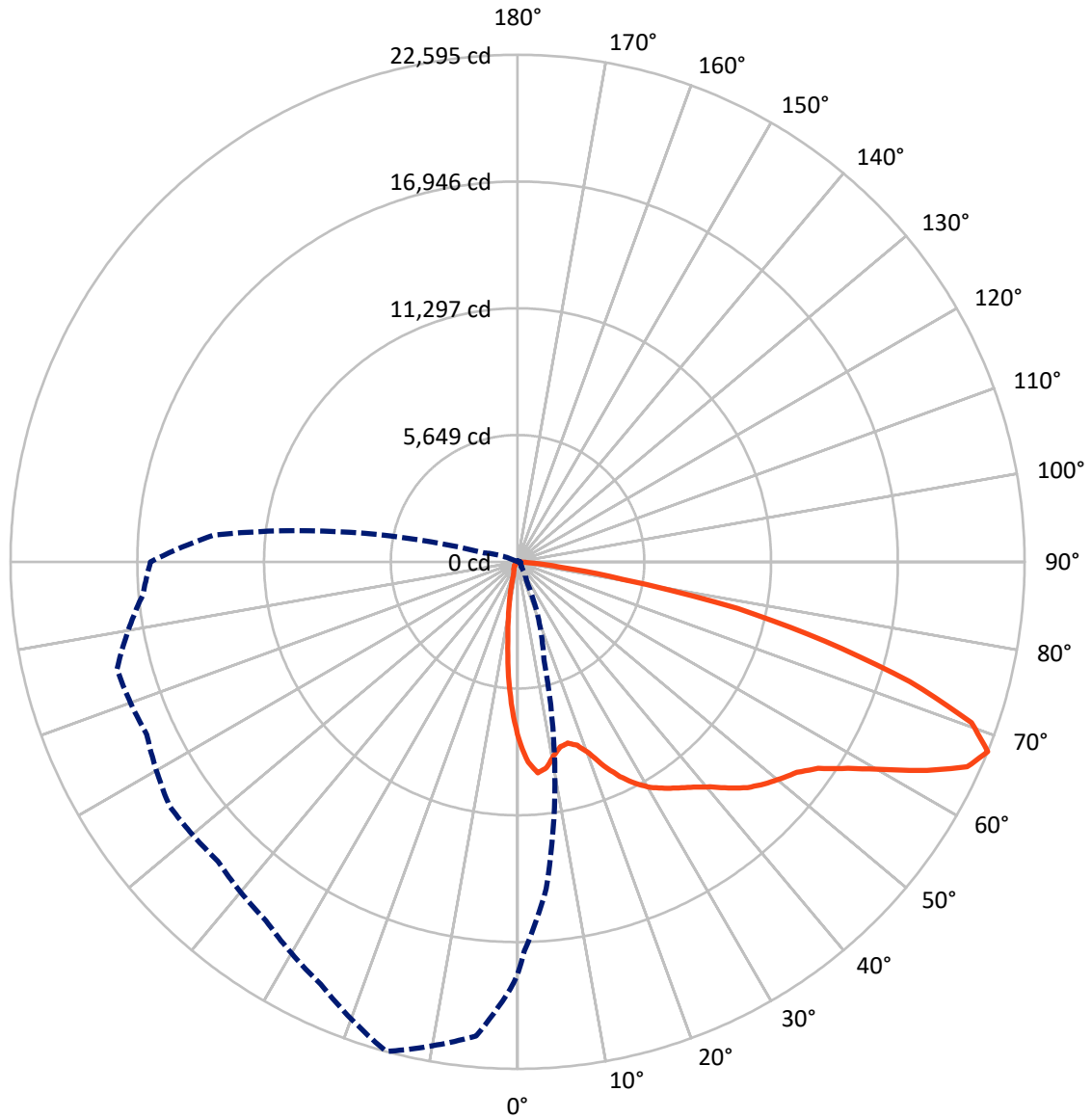
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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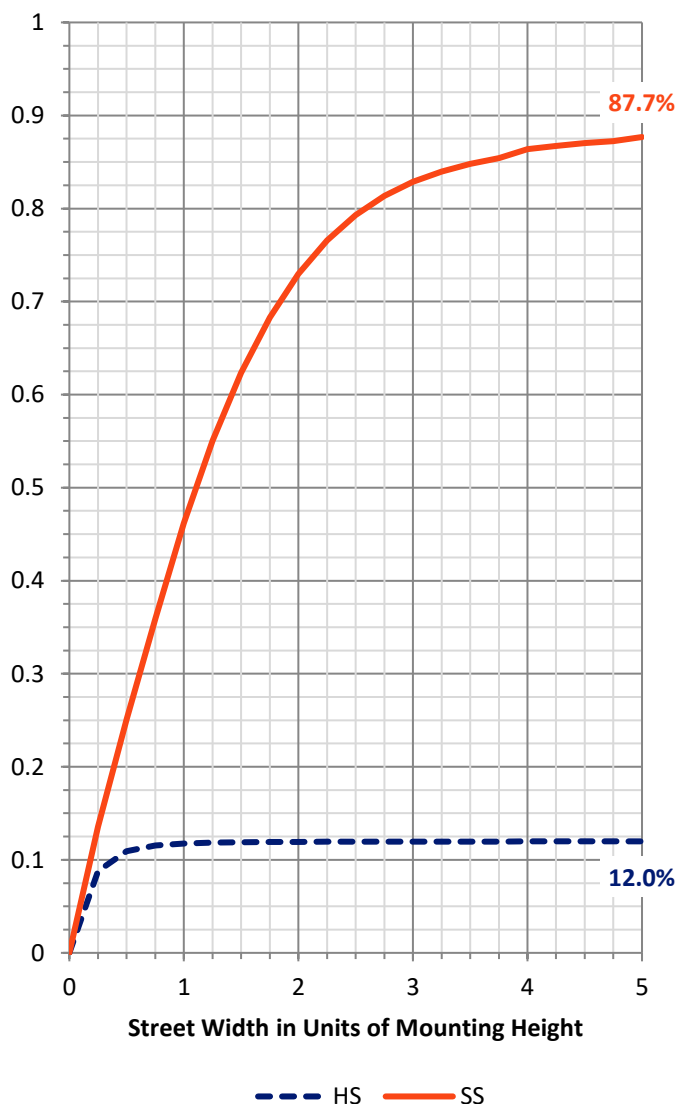
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2954.7	0.0	2954.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21457.5	0.0	21457.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	24412.1	0.0	24412.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.3	2.5
10°-20°	1214.8	5.0
20°-30°	1725.1	7.1
30°-40°	2548.0	10.4
40°-50°	3674.8	15.1
50°-60°	5158.7	21.1
60°-70°	6013.5	24.6
70°-80°	3074.2	12.6
80°-90°	392.6	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°	24412.1	100.0
0°-180°	24412.1	100.0

Coefficient of Utilization



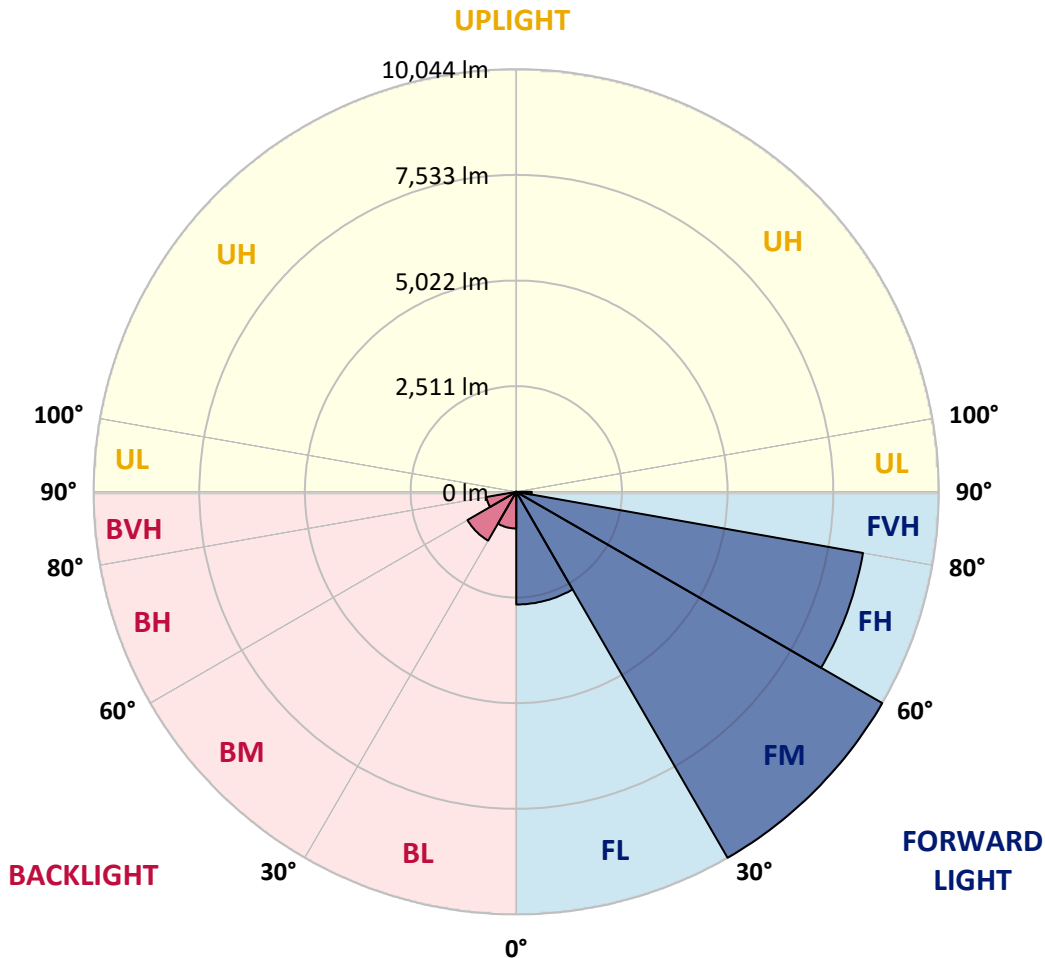
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2677.5	11.0			
FM (30°-60°)	10043.6	41.1			
FH (60°-80°)	8367.6	34.3			G4/12000
FVH (80°-90°)	368.8	1.5			G3/500
BL (0°-30°)	872.7	3.6	B2/1000		
BM (30°-60°)	1338.0	5.5	B2/2500		
BH (60°-80°)	720.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	23.9	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°	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2
2.5°	8707.5	8640.3	8566.3	8324.6	8100.3	7843.5	7634.1	7488.4	7305.8	7068.6	7008.5
5°	8644.9	8573.2	8340.8	7803.0	7332.3	6874.4	6432.5	6173.5	5852.0	5525.8	5444.9
7.5°	8017.0	7941.8	7606.4	6869.7	6236.0	5574.4	5000.7	4645.7	4282.6	3984.2	3825.8
10°	7363.5	7281.4	6904.4	6010.4	5229.8	4631.8	4210.9	3872.0	3528.5	3209.4	2954.9
12.5°	6913.7	6806.1	6396.7	5383.6	4703.6	4297.6	3904.4	3498.4	3033.6	2691.2	2411.3
15°	6725.1	6602.5	6170.0	5141.9	4517.4	4040.9	3528.5	3030.0	2485.4	2093.3	1836.5
17.5°	6870.9	6711.2	6247.5	5125.7	4283.7	3634.9	2987.3	2402.1	1811.1	1414.5	1231.7
20°	7365.8	7156.5	6567.9	5121.1	4000.3	3152.6	2331.6	1670.0	1193.5	959.9	863.9
22.5°	8145.4	7869.0	7028.2	5158.1	3707.7	2646.2	1683.9	1134.5	896.3	774.9	718.2
25°	9086.8	8766.4	7690.9	5288.8	3451.0	2153.5	1223.6	896.3	756.3	667.3	619.9
27.5°	9981.9	9721.7	8528.1	5477.2	3252.1	1755.6	993.4	759.9	646.5	587.5	549.3
30°	10875.9	10548.6	9387.5	5701.6	3012.7	1486.1	873.1	692.8	579.4	517.0	492.7
32.5°	11525.9	11254.0	10060.5	5863.5	2757.1	1310.3	780.6	633.7	541.2	477.6	441.8
35°	12290.3	11982.7	10637.6	5899.4	2592.9	1199.3	702.0	570.2	469.5	412.9	374.7
37.5°	13116.1	12733.2	11303.8	5820.8	2464.5	1145.0	643.0	541.2	438.3	380.5	340.0
40°	14029.7	13597.1	11943.4	5707.4	2338.5	1126.4	598.0	519.2	414.1	355.0	313.4
42.5°	14992.0	14481.9	12497.4	5588.3	2258.7	1062.8	593.3	497.3	395.5	331.9	290.3
45°	15800.4	15283.3	13066.4	5548.9	2202.0	993.4	613.0	482.3	382.8	313.4	272.9
47.5°	16444.5	15955.3	13649.2	5636.9	2169.7	929.9	558.6	501.9	375.9	297.3	257.9
50°	17213.6	16659.6	14470.4	5899.4	2122.3	866.2	505.4	574.8	375.9	286.8	245.2
52.5°	18178.1	17629.9	15386.3	6306.5	2027.3	778.3	454.5	576.0	379.3	272.9	229.0
55°	19391.3	18993.5	16694.4	6752.9	1875.9	648.8	393.2	495.0	365.4	247.5	214.0
57.5°	20554.8	20229.8	17886.6	7058.2	1673.5	506.6	342.3	399.0	334.2	217.4	190.8
59°	20872.8	20517.8	18323.8	7072.1	1522.0	441.8	316.9	329.6	327.3	203.5	176.9
60°	20872.8	20495.8	18450.0	6998.1	1412.1	406.0	300.7	293.7	341.1	194.3	168.9
62.5°	20494.6	19964.9	18040.5	6497.3	1151.9	345.8	262.5	242.9	306.5	174.7	149.2
65°	19708.2	18936.8	16645.7	5591.8	1027.0	316.9	226.6	198.9	212.8	153.8	130.7
67.5°	18396.7	17351.2	14634.5	4517.4	977.3	308.8	195.4	168.9	160.8	131.8	114.5
70°	16087.2	14927.1	12193.1	3551.6	934.4	305.4	164.2	142.2	129.5	111.0	97.2
72.5°	11708.5	10498.8	8656.5	2776.8	909.0	312.3	131.8	119.1	106.4	86.7	75.2
75°	6697.4	5905.2	4865.5	1834.2	774.9	298.4	101.8	99.5	76.3	62.4	52.1
77.5°	3460.3	3355.1	2915.6	704.3	371.2	130.7	67.1	57.8	45.1	38.2	31.2
80°	1493.1	1476.9	1278.0	203.5	98.3	72.8	38.2	24.3	20.8	16.2	12.8
82.5°	515.8	515.8	454.5	68.2	44.0	35.9	4.7	0.0	0.0	0.0	0.0
85°	104.1	116.8	82.1	0.0	15.0	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°	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2
2.5°	6935.7	6795.7	6786.4	6698.6	6588.6	6538.9	6510.0	6560.9	6623.4	6630.3	6724.0
5°	5383.6	5236.7	5298.0	5141.9	5173.1	5141.9	5091.0	5100.2	5128.0	5041.3	5148.8
7.5°	3780.7	3669.6	3740.2	3698.5	3754.0	3776.0	3744.8	3698.5	3562.1	3545.8	3639.6
10°	2849.7	2723.6	2648.4	2569.8	2587.1	2623.0	2611.4	2577.9	2491.1	2495.8	2586.0
12.5°	2289.9	2148.8	1999.7	1806.5	1759.0	1785.7	1759.0	1739.4	1656.1	1663.1	1742.8
15°	1737.1	1621.5	1465.3	1310.3	1225.9	1234.0	1160.0	1108.0	1055.9	993.4	1042.0
17.5°	1172.7	1102.1	1055.9	1009.6	909.0	885.9	792.2	691.6	652.3	623.4	644.2
20°	830.4	792.2	773.7	771.4	713.6	684.7	593.3	530.8	511.1	505.4	518.1
22.5°	693.9	666.1	639.5	624.5	595.6	562.1	492.7	461.5	447.6	440.6	449.8
25°	603.7	582.9	555.1	529.7	518.1	482.3	432.5	409.4	400.2	393.2	397.9
27.5°	536.7	518.1	485.7	469.5	460.3	429.1	386.3	367.8	359.7	357.3	356.2
30°	483.4	466.1	436.0	417.5	401.3	373.6	348.1	329.6	321.5	319.2	316.9
32.5°	430.2	416.3	396.7	378.2	360.8	335.4	313.4	298.4	285.7	283.4	282.2
35°	363.1	349.2	338.9	337.7	321.5	297.3	281.0	261.4	251.0	247.5	248.6
37.5°	322.7	304.2	281.0	289.2	284.5	267.2	245.2	225.5	215.1	212.8	212.8
40°	297.3	277.6	251.0	237.1	251.0	247.5	212.8	193.1	182.8	181.6	179.2
42.5°	272.9	253.3	223.2	200.1	207.0	217.4	183.9	165.3	155.0	152.7	149.2
45°	255.6	234.7	201.2	174.7	160.8	182.8	157.2	134.1	128.4	123.7	121.5
47.5°	239.4	219.8	181.6	151.5	128.4	131.8	126.0	109.8	102.9	98.3	97.2
50°	225.5	204.7	164.2	129.5	106.4	97.2	101.8	86.7	81.0	76.3	74.1
52.5°	209.3	189.7	145.7	112.2	89.1	76.3	77.5	68.2	62.4	59.0	57.8
55°	196.6	176.9	130.7	98.3	78.6	62.4	55.5	53.2	49.7	47.4	46.3
57.5°	179.2	160.8	115.7	83.3	67.1	50.9	42.8	42.8	41.6	39.3	38.2
59°	168.9	152.7	106.4	75.2	61.3	44.0	38.2	39.3	38.2	35.9	34.7
60°	160.8	145.7	99.5	69.4	57.8	40.5	34.7	37.0	35.9	33.5	32.4
62.5°	142.2	131.8	85.6	57.8	50.9	32.4	28.9	31.2	31.2	30.1	28.9
65°	124.9	113.4	72.8	48.5	47.4	27.8	23.1	27.8	28.9	26.6	24.3
67.5°	108.7	97.2	63.6	39.3	44.0	22.0	17.3	23.1	31.2	24.3	22.0
70°	92.5	81.0	49.7	31.2	46.3	15.0	13.9	20.8	37.0	26.6	20.8
72.5°	71.7	62.4	34.7	23.1	49.7	10.4	10.4	17.3	41.6	28.9	19.7
75°	49.7	40.5	20.8	13.9	40.5	6.9	6.9	16.2	39.3	26.6	18.5
77.5°	28.9	22.0	6.9	1.1	20.8	0.0	1.1	11.6	27.8	16.2	8.1
80°	10.4	4.7	0.0	0.0	12.8	0.0	0.0	0.0	2.3	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°	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2
2.5°	6748.3	6904.4	7044.4	7256.0	7507.0	7796.1	8044.8	8311.9	8562.9	8666.9	8738.7
5°	5170.7	5363.9	5589.5	5900.5	6314.6	6824.6	7302.2	7842.3	8422.9	8713.2	8986.2
7.5°	3655.8	3852.3	4132.3	4463.0	4963.8	5570.9	6195.4	6941.4	7727.8	8187.0	8639.2
10°	2628.7	2870.5	3131.9	3584.0	4092.9	4668.8	5311.9	6144.6	7021.2	7530.1	8074.8
12.5°	1789.1	2064.4	2459.9	2966.4	3564.4	4128.8	4687.4	5481.9	6499.6	7003.8	7587.9
15°	1073.2	1225.9	1644.6	2231.0	2964.2	3667.3	4279.2	5075.9	6160.8	6778.3	7385.5
17.5°	661.5	732.1	959.9	1441.0	2211.2	3100.7	3939.0	4938.3	6209.3	6961.1	7611.0
20°	527.3	555.1	628.0	851.2	1465.3	2476.1	3556.3	4910.6	6606.0	7531.2	8228.6
22.5°	457.9	484.6	533.1	618.7	921.8	1853.9	3193.2	4936.0	7175.1	8385.9	9200.1
25°	403.6	426.7	473.0	543.6	675.4	1305.8	2804.5	5049.4	7916.4	9446.5	10311.5
27.5°	360.8	380.5	423.3	488.0	579.4	911.3	2363.9	5187.0	8795.3	10531.2	11384.7
30°	321.5	338.9	377.0	437.2	503.1	700.8	1880.5	5280.7	9675.4	11384.7	12151.5
32.5°	287.9	300.7	335.4	386.3	437.2	558.6	1429.5	5265.7	10328.8	12094.8	12703.1
35°	253.3	266.0	296.0	340.0	380.5	461.5	1124.1	4984.6	10897.9	12831.5	13334.6
37.5°	215.1	231.3	260.2	299.5	327.3	406.0	909.0	4645.7	11475.0	13673.5	14039.0
40°	182.8	198.9	224.4	267.2	284.5	385.1	698.6	4232.9	12123.7	14614.9	14811.5
42.5°	151.5	166.6	193.1	230.2	268.3	331.9	517.0	3761.0	12747.1	15419.8	15515.9
45°	122.6	137.6	165.3	202.4	286.8	275.3	400.2	3255.6	13250.2	16089.5	16120.7
47.5°	97.2	111.0	139.9	190.8	267.2	219.8	285.7	2858.9	13672.3	16612.2	16530.1
50°	75.2	86.7	116.8	218.5	233.6	181.6	216.3	2727.1	14050.5	16936.0	16723.2
52.5°	59.0	69.4	95.9	204.7	181.6	150.4	181.6	2850.8	14568.7	17204.4	16831.9
55°	47.4	57.8	75.2	116.8	123.7	127.2	155.0	2966.4	15462.7	17833.5	17473.8
57.5°	39.3	49.7	61.3	82.1	93.7	107.6	137.6	2979.2	16516.2	18879.0	18538.9
59°	35.9	45.1	55.5	72.8	82.1	98.3	129.5	2909.8	16887.5	19259.5	19089.5
60°	33.5	42.8	52.1	67.1	76.3	92.5	124.9	2843.8	16903.7	19245.6	19324.2
62.5°	28.9	38.2	46.3	56.6	64.7	78.6	112.2	2599.9	16219.0	18615.3	19183.2
65°	25.4	33.5	41.6	48.5	55.5	70.5	101.8	2154.6	15049.7	17598.7	18217.4
67.5°	23.1	28.9	38.2	42.8	49.7	62.4	90.2	1535.8	13589.0	16355.5	16756.8
70°	20.8	27.8	34.7	39.3	45.1	54.4	77.5	882.5	11475.0	14535.1	14820.7
72.5°	19.7	26.6	31.2	37.0	40.5	48.5	70.5	415.2	8402.1	11643.8	12389.8
75°	17.3	24.3	28.9	34.7	38.2	44.0	60.2	198.9	5588.3	8426.4	9274.1
77.5°	10.4	19.7	26.6	31.2	33.5	38.2	49.7	114.5	3566.7	5832.3	6869.7
80°	0.0	6.9	19.7	26.6	28.9	32.4	38.2	90.2	1908.3	3332.0	3999.2
82.5°	0.0	0.0	13.9	20.8	19.7	22.0	28.9	56.6	860.5	2177.7	2454.2
85°	0.0	0.0	4.7	16.2	13.9	10.4	19.7	19.7	188.5	1102.1	1375.1
87.5°	0.0	0.0	0.0	1.1	6.9	4.7	8.1	2.3	1.1	82.1	333.1
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: P383228

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2	7952.2
2.5°	8989.6	9075.2	9219.7	9288.0	9254.5	9112.2	8942.2	8768.8	8666.9	8707.5
5°	9542.4	9983.0	10237.5	10321.9	10180.8	9861.6	9444.1	8893.6	8698.1	8644.9
7.5°	9542.4	10371.7	10896.7	10989.2	10674.6	10049.0	9266.0	8406.8	8121.0	8017.0
10°	9207.0	10335.8	11067.9	11214.7	10775.3	9839.7	8790.6	7810.0	7471.1	7363.5
12.5°	8828.8	10044.3	10815.7	11018.2	10657.3	9631.5	8461.1	7406.4	7007.4	6913.7
15°	8596.4	9685.9	10324.2	10471.1	10318.5	9510.1	8382.4	7284.9	6815.4	6725.1
17.5°	8679.7	9408.3	9638.4	9724.0	9826.9	9467.2	8596.4	7550.9	6956.4	6870.9
20°	8993.1	9115.7	8996.5	9104.1	9381.7	9508.9	9106.4	8193.9	7480.3	7365.8
22.5°	9525.1	8964.2	8630.0	8672.7	9010.4	9646.5	9885.9	9112.2	8288.7	8145.4
25°	10144.9	9086.8	8426.4	8388.2	8735.2	9828.1	10598.3	10111.4	9245.2	9086.8
27.5°	10924.4	9362.0	8384.8	8346.6	8639.2	9998.1	11190.5	11099.1	10252.5	9981.9
30°	11525.9	9632.7	8508.5	8420.6	8735.2	10116.0	11665.8	11937.6	11055.1	10875.9
32.5°	11957.3	9951.8	8709.7	8582.5	9005.8	10319.6	12032.4	12705.5	11797.6	11525.9
35°	12285.7	10298.8	9034.7	8825.4	9378.2	10628.4	12375.9	13523.2	12587.5	12290.3
37.5°	12593.3	10785.6	9542.4	9292.7	9962.2	11125.7	12739.0	14450.6	13471.1	13116.1
40°	13022.4	11337.3	10325.4	10103.3	10944.1	11803.5	13192.4	15417.5	14476.2	14029.7
42.5°	13451.5	11929.5	11126.9	11187.0	12168.9	12626.8	13777.6	16439.9	15468.4	14992.0
45°	13843.5	12540.1	12268.3	12545.9	13305.8	13530.1	14359.3	17030.8	16260.6	15800.4
47.5°	14192.8	13303.4	13402.8	14141.9	14598.7	14347.8	14794.2	17540.9	16850.5	16444.5
50°	14598.7	14291.1	14898.2	15943.7	16087.2	15087.9	15189.7	18144.6	17539.7	17213.6
52.5°	15042.8	15332.0	16554.3	17476.1	17429.9	15891.7	15587.5	18821.2	18484.6	18178.1
55°	15547.1	16172.7	18012.8	18910.2	18870.9	16789.2	16246.7	19657.3	19668.9	19391.3
57.5°	16295.3	16896.7	19002.7	20070.2	20136.1	17825.3	17364.0	20594.1	20739.8	20554.8
59°	16831.9	17366.3	19394.8	20554.8	20823.1	18626.9	18180.5	21137.7	21041.7	20872.8
60°	17229.8	17664.7	19589.0	20808.1	21222.1	19170.4	18783.0	21456.9	21077.5	20872.8
62.5°	18214.0	18314.6	19939.5	21094.9	21681.2	20377.8	20478.4	22000.5	20828.8	20494.6
65°	18673.2	18725.1	19934.8	20581.3	21237.1	21318.1	22016.6	22016.6	20221.7	19708.2
67.5°	18481.2	18230.2	18946.1	18879.0	19533.5	20759.4	22594.9	21209.4	19060.6	18396.7
70°	16919.8	15954.1	15636.1	15665.0	16165.8	18056.7	21449.9	18833.8	16863.2	16087.2
72.5°	14078.3	11761.8	10976.5	11872.8	12003.5	13877.1	18279.9	14183.6	12436.1	11708.5
75°	11323.4	8291.1	7014.3	7960.3	8182.3	10155.4	14140.7	8833.5	7264.1	6697.4
77.5°	8134.9	5951.5	5033.2	4967.2	5254.0	6440.6	10034.0	4445.6	3707.7	3460.3
80°	4621.4	3917.2	4217.9	3979.6	4124.1	4027.0	4767.2	1949.9	1597.1	1493.1
82.5°	2789.5	2315.4	2507.4	2087.5	2641.5	2300.3	1836.5	624.5	542.4	515.8
85°	1814.6	1265.2	659.3	441.8	910.2	1469.9	410.5	170.0	130.7	104.1
87.5°	625.7	322.7	32.4	13.9	97.2	274.1	15.0	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)