

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: P383002

Luminaire Tested: **GLEON-SA3C-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383002
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-SA3C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 14912.2 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

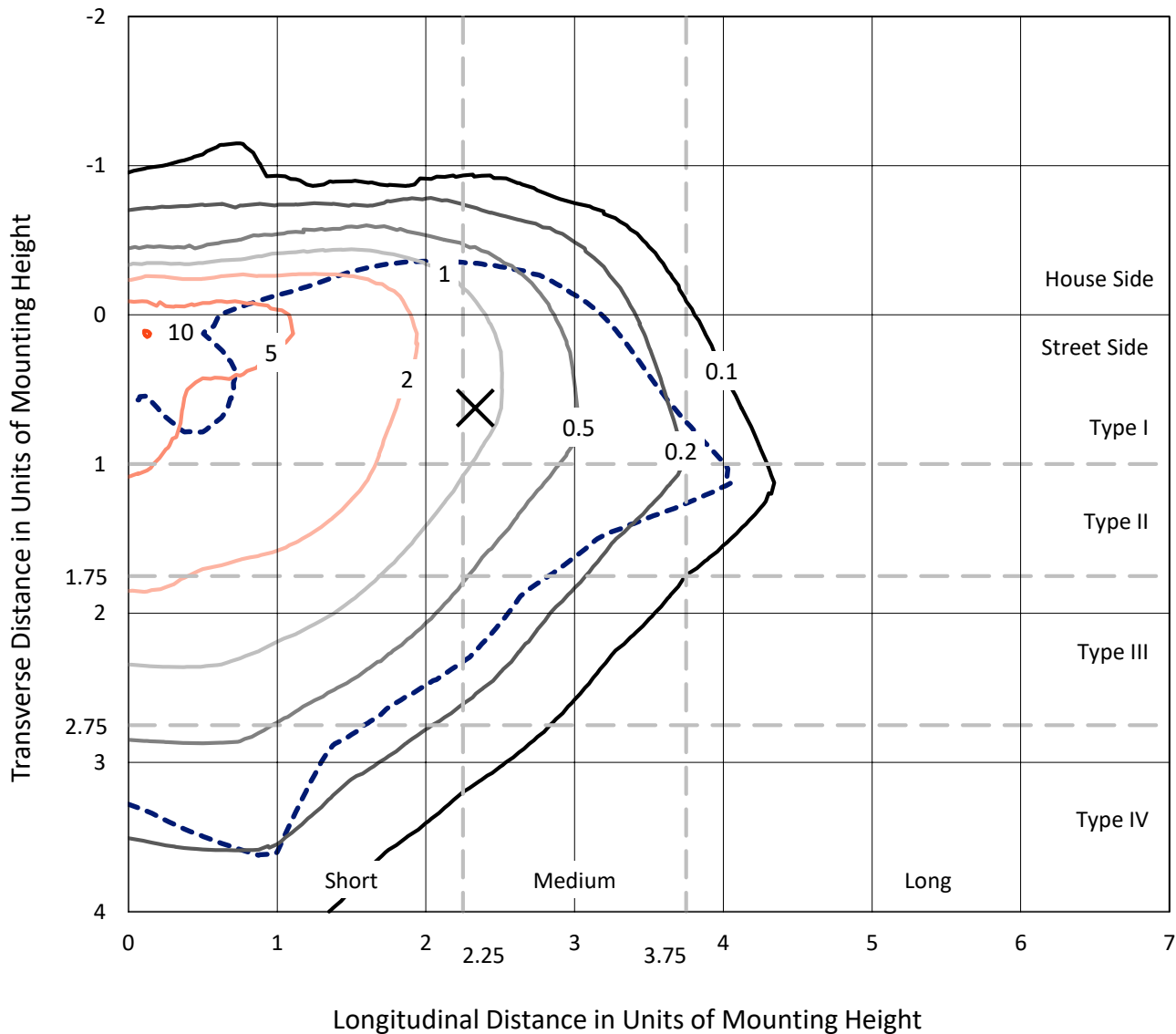
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

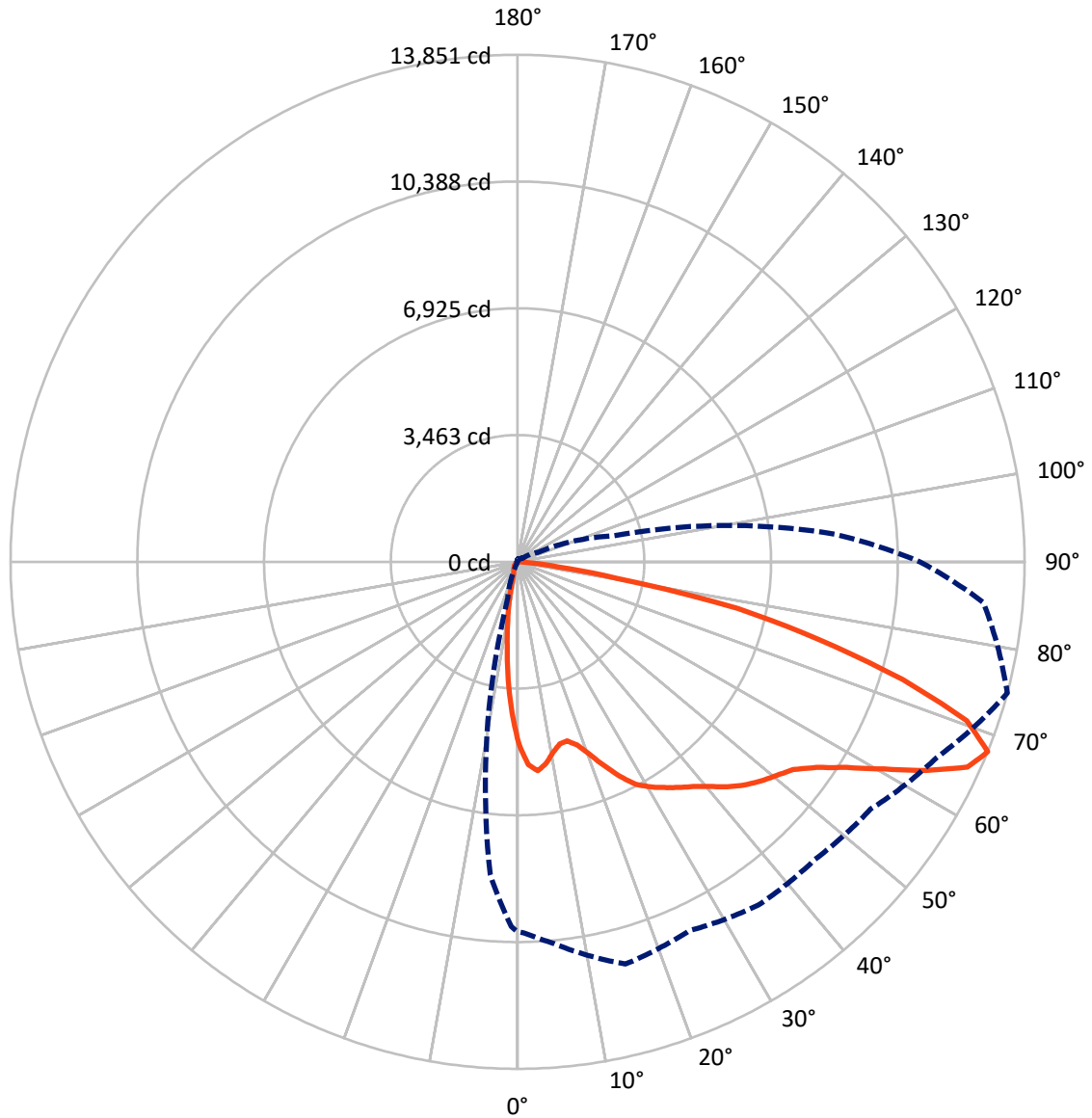
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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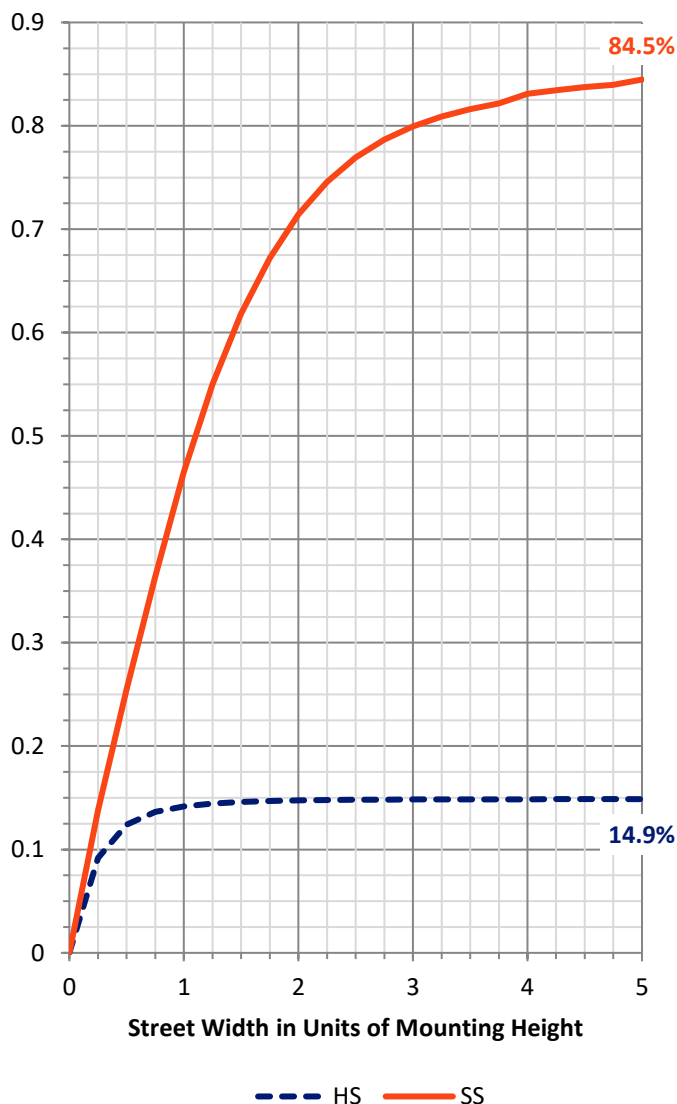
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2237.7	0.0	2237.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12674.5	0.0	12674.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	14912.2	0.0	14912.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	2.5
10°-20°	747.2	5.0
20°-30°	1057.1	7.1
30°-40°	1554.2	10.4
40°-50°	2233.9	15.0
50°-60°	3144.8	21.1
60°-70°	3672.8	24.6
70°-80°	1873.7	12.6
80°-90°	248.9	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°	14912.2	100.0
0°-180°	14912.2	100.0

Coefficient of Utilization

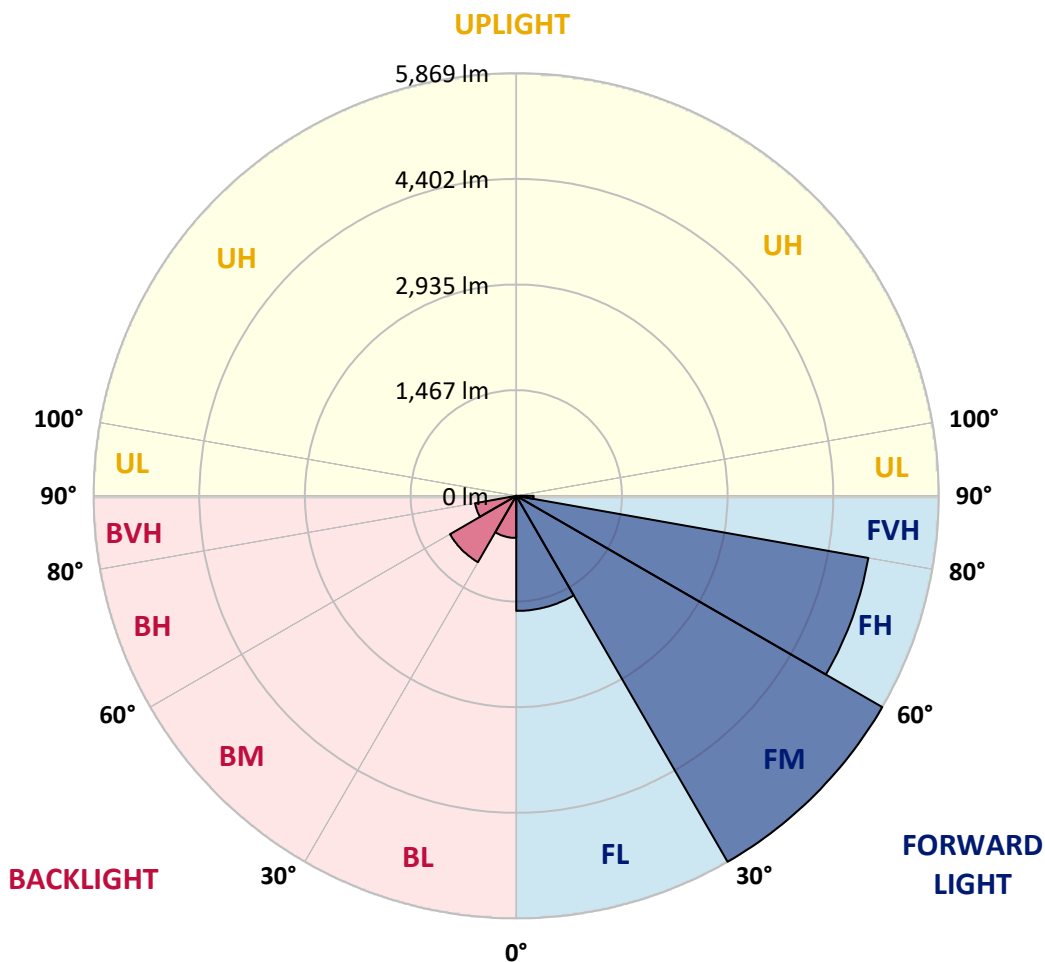


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1598.6	10.7			
FM (30°-60°)	5869.2	39.4			
FH (60°-80°)	4965.3	33.3			G2/5000
FVH (80°-90°)	241.4	1.6			G3/500
BL (0°-30°)	585.2	3.9	B2/1000		
BM (30°-60°)	1063.8	7.1	B2/2500		
BH (60°-80°)	581.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	7.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8
2.5°	5423.1	5431.6	5475.4	5577.1	5688.0	5696.5	5771.4	5694.4	5668.2	5543.9	5415.4
5°	5464.1	5496.6	5647.0	5945.9	6205.1	6288.4	6347.8	6196.7	6037.6	5734.0	5409.7
7.5°	5134.2	5188.5	5425.2	5986.1	6449.5	6654.4	6693.3	6456.6	6067.4	5567.2	5079.8
10°	4711.8	4773.9	5059.3	5748.8	6385.2	6736.3	6790.1	6479.9	5920.5	5297.3	4723.0
12.5°	4369.9	4442.6	4734.3	5481.8	6164.1	6552.7	6658.6	6401.5	5793.3	5105.9	4479.3
15°	4212.4	4295.6	4602.2	5309.4	5919.0	6224.9	6312.4	6201.6	5722.6	5075.5	4422.8
17.5°	4302.7	4393.2	4709.6	5324.2	5688.7	5819.4	5890.1	5935.3	5722.6	5258.5	4588.2
20°	4673.6	4771.1	5105.9	5474.7	5498.0	5449.3	5524.8	5683.7	5789.0	5606.1	4985.2
22.5°	5186.5	5300.9	5678.8	5732.6	5404.7	5220.4	5230.3	5479.6	5909.8	6046.9	5536.1
25°	5811.6	5951.5	6335.8	6116.8	5443.6	5084.0	5080.5	5311.5	6027.8	6488.4	6150.0
27.5°	6432.5	6586.6	6924.2	6585.9	5603.9	5059.3	5052.2	5260.6	6142.9	6881.2	6820.4
30°	6953.2	7103.0	7394.0	6925.7	5777.0	5117.3	5083.4	5315.0	6211.5	7136.1	7309.2
32.5°	7377.0	7497.1	7732.4	7159.5	5962.1	5229.5	5156.1	5460.5	6328.0	7351.6	7758.5
35°	7843.3	7969.7	8063.7	7382.0	6169.8	5391.3	5286.1	5691.6	6507.4	7570.6	8250.9
37.5°	8375.2	8500.9	8489.7	7585.4	6433.3	5659.1	5591.9	6057.5	6786.5	7787.5	8800.4
40°	8895.8	9024.4	8932.5	7808.0	6742.6	6100.5	6051.1	6607.1	7160.2	8065.1	9444.7
42.5°	9383.2	9522.4	9326.0	8018.5	7111.4	6657.2	6742.0	7314.9	7627.8	8406.9	10000.0
45°	9776.0	9918.0	9656.0	8223.3	7500.0	7332.5	7587.5	8099.0	8190.1	8695.9	10375.0
47.5°	10061.4	10195.6	9884.7	8428.2	7997.2	8158.3	8602.7	8921.2	8698.0	8946.7	10641.3
50°	10243.7	10348.2	9951.9	8684.6	8650.0	9121.9	9660.1	9815.5	9176.3	9172.8	10964.9
52.5°	10359.5	10406.8	10001.4	8952.4	9330.9	10170.9	10695.8	10744.5	9668.6	9421.4	11400.7
55°	10758.6	10796.7	10351.7	9276.5	9894.0	11089.9	11632.4	11587.2	10226.0	9908.1	11915.1
57.5°	11439.6	11479.8	11075.8	9742.8	10349.6	11657.9	12311.3	12392.6	10879.5	10591.9	12466.0
60°	11781.5	11856.4	11712.3	10333.4	10791.1	12021.0	12774.0	13033.3	11696.0	11493.2	13000.0
62.5°	11471.4	11580.2	11789.3	10988.2	11229.8	12220.9	12918.1	13262.8	12532.4	12543.8	13329.2
65°	10852.5	10939.4	11294.1	11347.1	11484.1	12196.2	12562.1	12942.1	13044.6	13508.7	13311.6
67.5°	10105.1	10137.7	10438.6	11375.3	11115.3	11453.0	11492.6	11773.7	12639.8	13850.5	12776.8
70°	9029.3	9047.0	9309.8	10429.4	9552.1	9626.2	9567.6	9624.8	10866.7	13017.7	11426.9
72.5°	7266.8	7311.3	7685.0	8661.3	6958.8	6744.8	7205.3	7179.9	8368.8	10998.1	8486.8
75°	5350.3	5427.4	5991.8	6976.5	4884.1	4417.9	4754.2	4843.9	5949.4	8507.3	5307.2
77.5°	3746.1	3803.3	4350.0	5128.5	3534.9	3159.1	3037.6	3144.3	3926.9	6154.3	2673.7
80°	2158.1	2179.3	2528.2	2961.3	2382.0	2725.3	2468.9	2542.4	2353.1	2738.0	1150.0
82.5°	1412.1	1415.7	1552.0	1762.5	1483.5	1723.6	1275.8	1631.1	1447.4	1099.9	374.4
85°	762.9	767.1	900.0	1251.1	839.9	474.7	279.0	572.9	895.0	252.2	102.5
87.5°	84.0	77.0	271.3	455.0	233.1	43.1	14.8	64.3	143.4	16.2	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°	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8
2.5°	5349.6	5291.0	5144.8	4990.1	4865.8	4749.2	4631.9	4488.6	4377.6	4355.0	4318.3
5°	5235.2	5049.5	4742.8	4434.8	4186.9	3873.9	3675.4	3520.8	3369.6	3360.4	3330.0
7.5°	4835.4	4590.9	4159.4	3733.4	3384.4	3086.3	2785.3	2584.0	2425.8	2370.0	2336.8
10°	4451.1	4176.3	3637.3	3151.3	2839.7	2576.3	2364.4	2153.8	1963.1	1831.7	1772.4
12.5°	4182.6	3878.9	3284.8	2865.9	2642.7	2392.6	2134.1	1871.3	1651.5	1493.4	1396.6
15°	4078.8	3754.6	3166.8	2752.9	2477.4	2160.9	1830.3	1530.1	1286.4	1143.0	1056.1
17.5°	4202.4	3825.2	3157.7	2615.1	2230.1	1836.6	1471.5	1116.8	887.2	778.5	722.7
20°	4516.0	4049.8	3154.1	2446.3	1936.3	1452.4	996.8	734.7	595.5	534.7	508.6
22.5°	4959.7	4336.6	3182.4	2279.6	1630.4	1037.7	688.0	539.7	468.4	435.9	421.1
25°	5530.5	4739.3	3262.2	2128.4	1342.9	774.2	536.2	452.1	402.0	376.5	365.9
27.5°	6138.7	5202.7	3386.5	1997.1	1109.1	617.4	459.2	387.2	351.1	333.4	323.5
30°	6640.3	5739.5	3512.3	1850.8	939.6	538.2	420.3	353.2	311.5	300.2	291.0
32.5°	7078.9	6145.8	3601.3	1718.7	828.6	478.3	380.1	315.8	287.5	265.6	255.7
35°	7533.1	6484.1	3598.5	1626.1	752.3	433.0	346.2	282.5	248.6	223.2	215.5
37.5°	8024.8	6866.3	3537.0	1547.0	719.2	397.0	327.1	264.9	231.0	205.6	195.7
40°	8600.5	7267.6	3474.1	1472.9	709.9	368.1	313.7	250.8	214.7	190.0	180.2
42.5°	9161.4	7629.2	3419.1	1417.7	670.3	367.3	301.6	240.2	202.1	178.0	166.7
45°	9610.0	7966.2	3408.4	1384.6	628.7	380.1	295.3	233.1	192.2	168.1	157.5
47.5°	9983.0	8332.1	3476.3	1361.3	589.1	346.8	310.9	228.1	183.0	159.7	147.7
50°	10426.6	8781.4	3635.9	1323.1	547.5	312.3	356.0	229.6	175.2	151.2	138.4
52.5°	11045.5	9403.0	3870.4	1258.8	490.3	280.5	350.4	231.0	166.7	142.0	129.3
55°	11739.1	10179.4	4122.6	1152.1	410.4	238.8	300.2	221.1	150.4	132.1	120.1
57.5°	12468.1	10883.6	4272.4	1025.0	326.3	206.2	240.2	201.3	132.8	118.7	110.9
60°	12582.6	11151.4	4203.9	868.9	259.2	179.4	178.0	204.8	118.7	104.5	98.9
62.5°	12297.9	10815.2	3872.5	729.7	216.9	157.5	146.3	178.8	107.4	93.2	87.6
65°	11750.4	9906.0	3335.7	657.7	201.3	134.9	121.5	125.8	94.0	81.2	76.3
67.5°	10988.9	8692.4	2738.7	616.7	199.2	115.9	103.9	95.4	81.2	70.6	66.4
70°	9432.0	7241.4	2184.9	594.0	193.6	97.4	87.6	77.7	67.8	60.1	56.5
72.5°	6941.9	5131.3	1699.6	569.4	195.0	77.7	76.3	64.3	54.4	46.6	45.2
75°	4011.0	2931.6	1114.7	461.3	185.8	60.1	63.5	45.2	38.1	32.5	32.5
77.5°	2137.6	1787.9	424.5	192.2	67.8	38.1	36.1	26.8	24.0	19.7	19.1
80°	931.7	787.0	127.9	53.7	37.4	20.5	13.4	12.0	10.6	8.5	7.7
82.5°	329.9	284.7	41.6	26.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.9	53.7	0.0	6.3	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°	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8
2.5°	4243.4	4227.8	4136.1	4139.5	4155.8	4179.1	4124.1	4149.5	4218.0	4283.6	4308.4
5°	3281.3	3284.8	3229.0	3263.6	3294.7	3315.8	3226.9	3228.3	3282.7	3356.8	3395.7
7.5°	2312.1	2306.4	2309.2	2391.9	2450.5	2408.1	2441.3	2326.2	2333.2	2386.3	2346.7
10°	1718.7	1641.0	1597.2	1659.4	1723.6	1700.4	1643.1	1605.7	1631.8	1690.5	1686.2
12.5°	1350.7	1239.1	1173.4	1128.8	1181.9	1138.1	1136.6	1104.2	1068.8	1075.2	1169.1
15°	1015.9	934.6	856.8	785.5	784.1	769.3	693.7	609.0	601.9	606.1	654.9
17.5°	698.7	671.1	639.3	577.8	561.6	499.4	426.0	392.1	375.1	382.9	399.1
20°	490.9	480.4	483.8	450.7	427.4	368.1	324.9	311.5	308.7	316.4	324.3
22.5°	406.9	387.8	385.7	370.8	347.6	304.4	281.1	273.4	269.9	276.9	282.5
25°	356.0	336.9	329.2	320.0	295.3	265.6	251.5	244.4	240.9	245.1	248.6
27.5°	313.7	296.0	289.0	282.5	258.5	237.4	226.1	219.7	216.9	218.3	221.8
30°	281.9	266.3	257.1	249.4	228.9	214.1	204.2	197.8	195.0	195.0	198.5
32.5°	248.6	240.2	231.7	221.8	202.7	192.8	183.0	175.9	173.1	173.7	176.6
35°	207.0	204.2	206.2	197.1	180.8	172.3	162.5	154.7	152.6	153.3	156.1
37.5°	183.7	170.9	178.8	173.7	164.6	153.3	140.6	133.5	130.0	132.1	133.5
40°	168.8	153.3	147.7	152.6	151.2	132.8	121.5	114.4	111.6	112.3	113.7
42.5°	156.1	137.8	125.0	124.4	132.8	115.9	103.9	97.4	94.0	94.0	95.4
45°	144.1	124.4	108.8	96.8	111.6	98.2	86.9	81.2	77.0	77.0	77.7
47.5°	134.9	113.0	94.6	79.1	84.0	80.5	71.4	65.7	61.5	61.5	62.1
50°	126.4	101.7	82.0	66.4	62.9	66.4	57.9	51.6	48.7	48.1	49.5
52.5°	117.3	90.5	70.0	56.5	49.5	50.1	45.2	41.0	37.4	37.4	38.8
55°	108.1	81.2	60.7	48.1	41.0	37.4	36.1	33.2	30.4	30.4	31.8
57.5°	98.9	71.4	51.6	39.6	32.5	29.6	29.6	27.6	25.4	25.4	26.8
60°	90.5	61.5	42.4	32.5	25.4	24.7	25.4	23.3	21.9	21.9	23.3
62.5°	80.5	52.3	34.7	26.8	20.5	19.7	21.9	20.5	19.1	19.1	20.5
65°	68.6	44.5	27.6	20.5	15.6	15.6	18.4	17.0	15.6	15.6	17.0
67.5°	57.9	37.4	21.1	14.8	11.3	12.0	15.6	14.2	13.4	13.4	14.8
70°	48.1	29.0	14.8	9.2	6.3	9.2	12.0	12.0	12.0	12.0	13.4
72.5°	36.1	19.7	8.5	3.5	2.8	6.3	9.9	11.3	10.6	10.6	12.7
75°	23.3	11.3	2.8	0.0	0.0	3.5	7.7	9.2	9.2	8.5	10.6
77.5°	13.4	3.5	0.0	0.0	0.0	0.0	4.9	4.2	3.5	2.8	4.9
80°	3.5	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: P383002

CATALOG NUMBER: GLEON-SA3C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8	5002.8
2.5°	4408.0	4491.4	4608.6	4732.9	4924.3	5076.3	5225.3	5353.1	5402.6	5423.1
5°	3488.9	3611.1	3782.8	4003.2	4348.7	4659.5	4974.6	5291.7	5429.4	5464.1
7.5°	2503.5	2659.7	2877.9	3154.1	3558.9	3961.5	4401.7	4867.1	5080.5	5134.2
10°	1852.9	2043.6	2293.7	2584.8	2971.2	3385.2	3864.8	4396.7	4640.4	4711.8
12.5°	1314.6	1572.5	1907.3	2261.2	2596.0	2965.5	3450.8	4037.1	4292.9	4369.9
15°	772.1	1021.4	1417.7	1891.8	2320.6	2695.0	3188.0	3852.8	4134.6	4212.4
17.5°	443.0	567.2	866.8	1395.2	1977.2	2495.7	3105.4	3898.7	4230.7	4302.7
20°	338.3	377.9	499.4	898.6	1576.0	2300.1	3105.4	4158.6	4567.7	4673.6
22.5°	296.0	324.9	374.4	536.2	1160.0	2090.3	3141.4	4534.4	5069.2	5186.5
25°	262.8	289.0	331.4	403.4	791.2	1840.9	3226.9	4995.7	5659.7	5811.6
27.5°	235.2	260.0	298.1	353.2	541.1	1539.9	3342.0	5536.8	6311.0	6432.5
30°	210.5	233.8	268.5	307.3	417.5	1198.8	3440.2	6046.9	6822.5	6953.2
32.5°	187.2	208.4	239.5	268.5	341.9	886.6	3450.8	6451.0	7247.1	7377.0
35°	165.3	184.4	212.7	235.2	283.3	700.1	3286.2	6801.3	7671.6	7843.3
37.5°	144.1	162.5	187.2	204.2	249.4	570.8	3034.7	7191.9	8216.2	8375.2
40°	124.4	140.6	166.0	177.3	236.0	438.7	2761.4	7601.7	8750.3	8895.8
42.5°	105.9	121.5	146.3	168.1	207.0	327.8	2466.1	7986.0	9230.6	9383.2
45°	88.3	104.5	129.3	178.0	171.7	245.1	2150.3	8240.9	9610.0	9776.0
47.5°	71.4	89.7	123.6	169.5	137.0	180.2	1900.3	8482.6	9897.5	10061.4
50°	57.2	75.5	139.2	151.2	112.3	137.8	1795.7	8698.7	10086.1	10243.7
52.5°	46.6	63.5	131.3	115.9	94.0	113.7	1852.2	9049.1	10260.6	10359.5
55°	38.8	50.1	79.1	80.5	79.8	96.8	1922.2	9552.1	10712.0	10758.6
57.5°	33.9	40.2	55.1	62.1	67.1	86.2	1923.6	10274.0	11410.6	11439.6
60°	29.0	35.3	45.9	50.1	57.9	77.0	1853.6	10526.2	11685.4	11781.5
62.5°	25.4	31.1	38.1	41.6	48.7	69.2	1689.7	10161.0	11308.2	11471.4
65°	22.6	28.2	31.8	35.3	43.1	62.1	1419.9	9430.5	10682.3	10852.5
67.5°	19.7	24.7	28.2	31.8	38.8	55.1	1045.5	8582.2	9963.9	10105.1
70°	17.7	21.9	25.4	28.2	33.9	46.6	634.4	7282.4	8970.7	9029.3
72.5°	17.0	19.7	23.3	25.4	29.6	41.0	321.4	5351.7	7171.4	7266.8
75°	14.8	17.7	21.1	22.6	26.2	35.3	130.7	3515.1	5197.0	5350.3
77.5°	12.0	16.2	19.1	20.5	22.6	29.0	66.4	2246.4	3647.2	3746.1
80°	4.2	12.0	16.2	17.0	19.1	21.1	43.8	1229.8	2115.7	2158.1
82.5°	0.0	7.7	12.7	12.0	13.4	16.2	28.2	584.9	1396.6	1412.1
85°	0.0	3.5	9.9	7.7	5.7	11.3	9.9	127.9	732.6	762.9
87.5°	0.0	0.0	0.7	3.5	2.8	4.2	1.4	0.7	66.4	84.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)