

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: P382946

Luminaire Tested: **GLEON-SA3A-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382946  
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-SA3A-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 9825.1 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

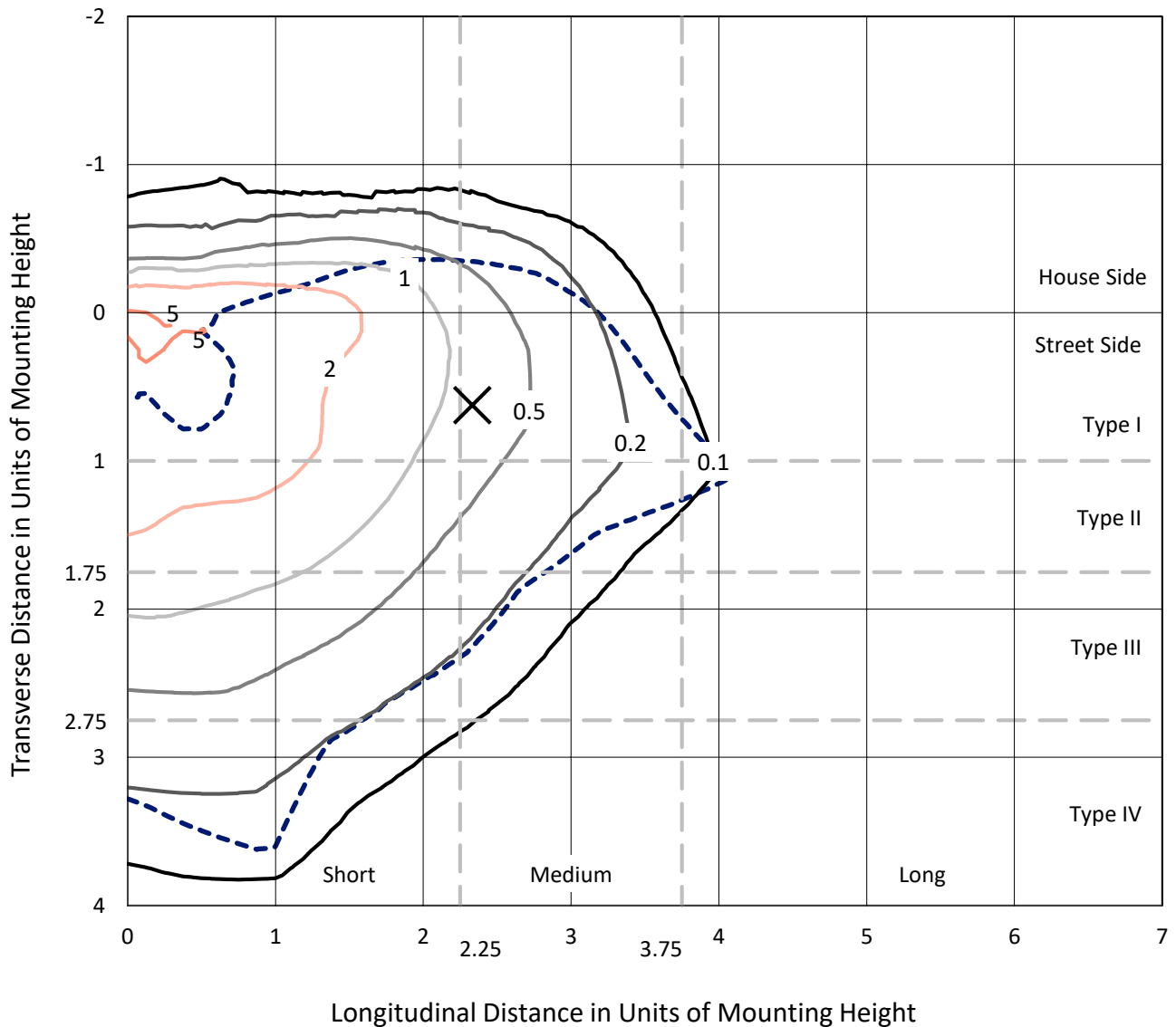
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

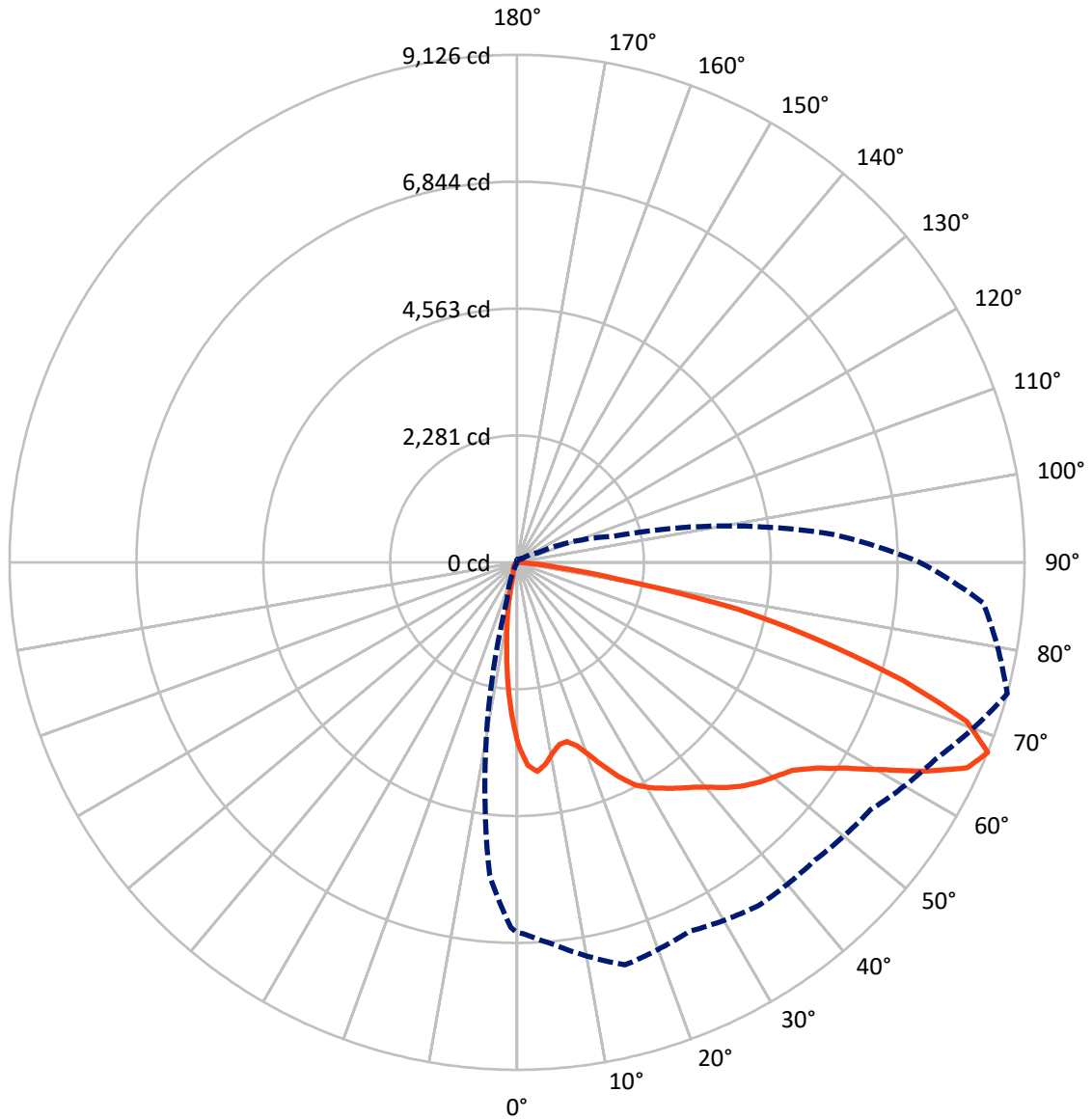
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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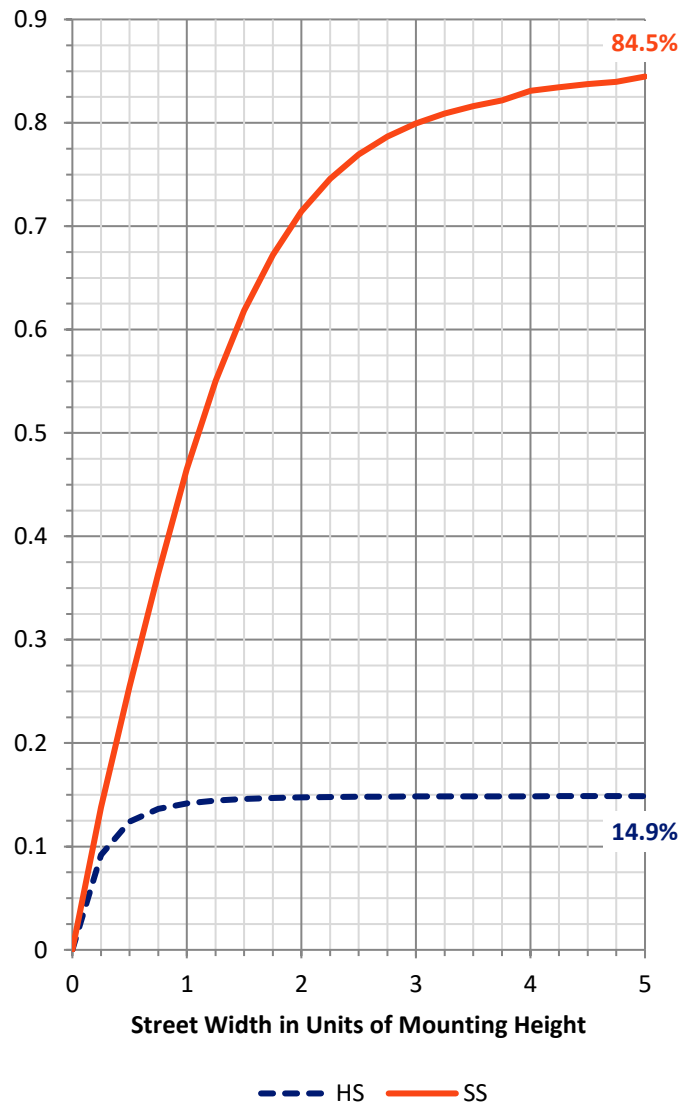
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1474.4	0.0	1474.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	8350.7	0.0	8350.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	9825.1	0.0	9825.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.0	2.5
10°-20°	492.3	5.0
20°-30°	696.5	7.1
30°-40°	1024.0	10.4
40°-50°	1471.8	15.0
50°-60°	2072.0	21.1
60°-70°	2419.9	24.6
70°-80°	1234.5	12.6
80°-90°	164.0	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°	9825.1	100.0
0°-180°	9825.1	100.0

**Coefficient of Utilization**

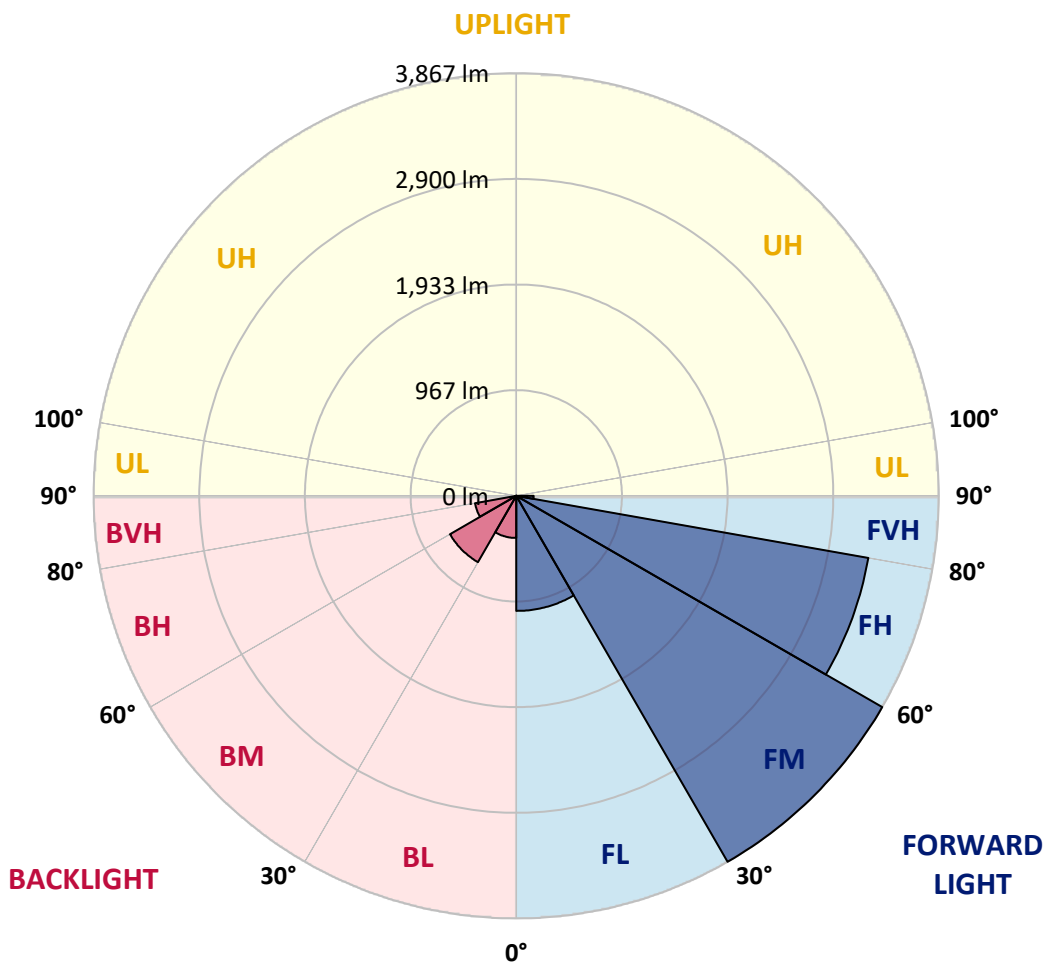


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.2	10.7			
FM (30°-60°)	3867.0	39.4			
FH (60°-80°)	3271.5	33.3			G2/5000
FVH (80°-90°)	159.0	1.6			G2/225
BL (0°-30°)	385.6	3.9	B1/500		
BM (30°-60°)	700.9	7.1	B1/1000		
BH (60°-80°)	383.0	3.9	B1/500		G1/500
BVH (80°-90°)	5.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1
2.5°	3573.0	3578.6	3607.5	3674.5	3747.6	3753.2	3802.5	3751.8	3734.6	3652.7	3567.9
5°	3600.1	3621.5	3720.6	3917.4	4088.3	4143.2	4182.3	4082.7	3978.0	3777.8	3564.2
7.5°	3382.7	3418.5	3574.4	3944.0	4249.3	4384.3	4409.9	4254.0	3997.6	3668.0	3346.9
10°	3104.4	3145.4	3333.4	3787.6	4207.0	4438.3	4473.7	4269.4	3900.7	3490.2	3111.8
12.5°	2879.1	2927.0	3119.3	3611.7	4061.3	4317.3	4387.1	4217.7	3816.9	3364.1	2951.2
15°	2775.4	2830.2	3032.3	3498.1	3899.8	4101.3	4159.0	4086.0	3770.4	3344.1	2914.0
17.5°	2834.9	2894.5	3103.0	3507.9	3748.1	3834.2	3880.7	3910.5	3770.4	3464.6	3023.0
20°	3079.2	3143.5	3364.1	3607.0	3622.4	3590.3	3640.1	3744.8	3814.1	3693.6	3284.5
22.5°	3417.1	3492.6	3741.6	3776.9	3560.9	3439.5	3446.0	3610.3	3893.8	3984.0	3647.6
25°	3829.0	3921.2	4174.4	4030.1	3586.6	3349.7	3347.3	3499.5	3971.5	4274.9	4052.0
27.5°	4238.2	4339.6	4562.1	4339.1	3692.2	3333.4	3328.7	3466.0	4047.3	4533.7	4493.7
30°	4581.2	4679.8	4871.6	4563.0	3806.2	3371.6	3349.2	3501.9	4092.5	4701.7	4815.7
32.5°	4860.4	4939.5	5094.5	4717.1	3928.1	3445.5	3397.2	3597.7	4169.2	4843.7	5111.8
35°	5167.6	5250.9	5312.8	4863.7	4065.0	3552.1	3482.8	3749.9	4287.4	4988.0	5436.1
37.5°	5518.0	5600.9	5593.5	4997.8	4238.6	3728.5	3684.3	3991.0	4471.3	5130.9	5798.2
40°	5861.1	5945.8	5885.2	5144.3	4442.5	4019.4	3986.8	4353.1	4717.5	5313.7	6222.7
42.5°	6182.2	6273.9	6144.5	5283.0	4685.4	4386.2	4442.0	4819.5	5025.6	5539.0	6588.6
45°	6441.0	6534.5	6361.9	5418.0	4941.4	4831.1	4999.2	5336.1	5396.1	5729.4	6835.7
47.5°	6629.0	6717.5	6512.6	5553.0	5269.0	5375.2	5667.9	5877.9	5730.8	5894.6	7011.1
50°	6749.1	6818.0	6556.9	5721.9	5699.1	6010.0	6364.7	6467.1	6045.8	6043.5	7224.3
52.5°	6825.4	6856.7	6589.5	5898.3	6147.7	6701.2	7047.0	7079.1	6370.3	6207.4	7511.4
55°	7088.4	7113.6	6820.3	6112.0	6518.7	7306.7	7664.1	7634.3	6737.5	6528.0	7850.3
57.5°	7537.1	7563.6	7297.4	6419.1	6818.9	7680.9	8111.4	8164.9	7168.0	6978.6	8213.4
60°	7762.3	7811.7	7716.8	6808.2	7109.9	7920.1	8416.3	8587.1	7706.0	7572.5	8565.2
62.5°	7558.0	7629.7	7767.4	7239.7	7398.8	8051.8	8511.2	8738.3	8257.1	8264.5	8782.1
65°	7150.3	7207.6	7441.2	7476.1	7566.4	8035.5	8276.6	8527.0	8594.6	8900.3	8770.4
67.5°	6657.9	6679.3	6877.5	7494.7	7323.5	7545.9	7572.0	7757.2	8327.8	9125.5	8418.1
70°	5949.0	5960.7	6133.8	6871.6	6293.4	6342.3	6303.7	6341.4	7159.6	8576.9	7528.7
72.5°	4787.8	4817.1	5063.3	5706.6	4584.9	4443.9	4747.4	4730.6	5513.8	7246.1	5591.6
75°	3525.2	3575.8	3947.7	4596.5	3217.9	2910.7	3132.3	3191.4	3919.8	5605.1	3496.8
77.5°	2468.1	2505.9	2866.1	3379.0	2329.0	2081.4	2001.3	2071.6	2587.3	4054.7	1761.6
80°	1421.9	1435.8	1665.8	1951.0	1569.4	1795.6	1626.7	1675.0	1550.3	1803.9	757.7
82.5°	930.3	932.7	1022.6	1161.3	977.4	1135.6	840.5	1074.6	953.6	724.7	246.7
85°	502.7	505.5	592.9	824.2	553.4	312.7	183.9	377.5	589.7	166.2	67.4
87.5°	55.4	50.8	178.8	299.8	153.6	28.4	9.8	42.4	94.5	10.7	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°	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1
2.5°	3524.7	3486.0	3389.7	3287.7	3205.8	3129.1	3051.7	2957.3	2884.3	2869.4	2845.1
5°	3449.2	3326.8	3124.9	2921.9	2758.6	2552.3	2421.6	2319.6	2220.1	2214.0	2194.0
7.5°	3185.8	3024.8	2740.4	2459.8	2229.8	2033.5	1835.1	1702.5	1598.3	1561.5	1539.7
10°	2932.6	2751.6	2396.5	2076.2	1871.0	1697.4	1557.7	1419.1	1293.5	1206.8	1167.8
12.5°	2755.8	2555.6	2164.3	1888.2	1741.2	1576.4	1406.1	1232.9	1088.1	983.9	920.2
15°	2687.3	2473.7	2086.5	1813.7	1632.3	1423.8	1205.9	1008.1	847.5	753.1	695.8
17.5°	2768.8	2520.3	2080.4	1723.0	1469.3	1210.1	969.5	735.8	584.5	512.9	476.1
20°	2975.5	2668.2	2078.1	1611.8	1275.8	956.9	656.7	484.0	392.4	352.3	335.1
22.5°	3267.8	2857.2	2096.7	1501.9	1074.2	683.7	453.3	355.6	308.6	287.2	277.4
25°	3643.8	3122.5	2149.4	1402.4	884.8	510.1	353.2	297.9	264.8	248.1	241.1
27.5°	4044.5	3427.8	2231.2	1315.7	730.7	406.8	302.6	255.1	231.3	219.7	213.1
30°	4375.0	3781.5	2314.1	1219.4	619.0	354.6	276.9	232.7	205.2	197.8	191.7
32.5°	4664.0	4049.2	2372.7	1132.4	546.0	315.0	250.4	208.0	189.4	175.0	168.5
35°	4963.3	4272.1	2370.9	1071.4	495.7	285.3	228.0	186.1	163.9	147.1	142.0
37.5°	5287.2	4523.9	2330.4	1019.3	473.8	261.6	215.5	174.6	152.2	135.4	128.9
40°	5666.5	4788.2	2289.0	970.4	467.7	242.5	206.6	165.3	141.5	125.2	118.7
42.5°	6036.1	5026.5	2252.7	934.1	441.6	242.0	198.7	158.3	133.1	117.3	109.8
45°	6331.6	5248.6	2245.7	912.3	414.3	250.4	194.5	153.6	126.6	110.8	103.8
47.5°	6577.4	5489.7	2290.4	896.9	388.2	228.5	204.8	150.4	120.5	105.2	97.3
50°	6869.7	5785.7	2395.6	871.7	360.7	205.7	234.6	151.3	115.4	99.6	91.2
52.5°	7277.3	6195.3	2550.0	829.4	323.0	184.8	230.8	152.2	109.8	93.5	85.1
55°	7734.5	6706.8	2716.2	759.1	270.4	157.3	197.8	145.7	99.1	87.0	79.1
57.5°	8214.8	7170.8	2814.9	675.4	215.0	135.9	158.3	132.7	87.5	78.2	73.0
60°	8290.1	7347.2	2769.8	572.4	170.8	118.2	117.3	135.0	78.2	68.8	65.1
62.5°	8102.6	7125.6	2551.4	480.8	142.9	103.8	96.3	117.7	70.7	61.5	57.8
65°	7741.8	6526.6	2197.7	433.4	132.7	88.9	80.0	82.8	61.9	53.6	50.3
67.5°	7240.2	5727.1	1804.4	406.3	131.3	76.3	68.4	62.8	53.6	46.6	43.8
70°	6214.4	4771.0	1439.5	391.4	127.5	64.2	57.8	51.2	44.7	39.6	37.3
72.5°	4573.7	3380.9	1119.8	375.1	128.5	51.2	50.3	42.4	35.9	30.7	29.8
75°	2642.7	1931.5	734.4	304.0	122.4	39.6	41.9	29.8	25.2	21.4	21.4
77.5°	1408.4	1177.9	279.7	126.6	44.7	25.2	23.8	17.7	15.8	13.0	12.6
80°	613.9	518.5	84.2	35.4	24.7	13.5	8.8	7.9	7.0	5.6	5.1
82.5°	217.3	187.5	27.5	17.2	10.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.4	35.4	0.0	4.2	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°	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1
2.5°	2795.8	2785.6	2725.1	2727.4	2738.1	2753.5	2717.1	2733.9	2779.1	2822.3	2838.6
5°	2161.9	2164.3	2127.5	2150.3	2170.7	2184.7	2126.1	2127.0	2162.9	2211.7	2237.3
7.5°	1523.4	1519.6	1521.5	1575.9	1614.6	1586.6	1608.5	1532.7	1537.3	1572.2	1546.2
10°	1132.4	1081.2	1052.4	1093.3	1135.6	1120.3	1082.6	1057.9	1075.1	1113.8	1111.0
12.5°	889.9	816.3	773.1	743.7	778.7	749.8	748.9	727.4	704.2	708.3	770.3
15°	669.3	615.8	564.5	517.6	516.6	506.9	457.0	401.2	396.6	399.4	431.5
17.5°	460.3	442.1	421.2	380.7	370.0	329.0	280.7	258.3	247.1	252.3	263.0
20°	323.4	316.4	318.8	297.0	281.6	242.5	214.1	205.2	203.4	208.5	213.6
22.5°	268.1	255.5	254.1	244.3	229.0	200.6	185.3	180.2	177.8	182.5	186.1
25°	234.6	222.0	216.9	210.8	194.5	175.0	165.7	161.1	158.7	161.5	163.9
27.5°	206.6	195.0	190.3	186.1	170.4	156.4	149.0	144.8	142.9	143.8	146.2
30°	185.8	175.5	169.4	164.3	150.8	141.0	134.5	130.3	128.5	128.5	130.8
32.5°	163.9	158.3	152.7	146.2	133.6	127.1	120.5	115.9	114.0	114.5	116.4
35°	136.4	134.5	135.9	129.9	119.1	113.6	107.0	101.9	100.5	101.0	102.8
37.5°	121.0	112.6	117.7	114.5	108.4	101.0	92.6	87.9	85.6	87.0	87.9
40°	111.2	101.0	97.3	100.5	99.6	87.5	80.0	75.4	73.5	74.0	74.9
42.5°	102.8	90.7	82.3	81.9	87.5	76.3	68.4	64.2	61.9	61.9	62.8
45°	94.9	81.9	71.6	63.7	73.5	64.6	57.3	53.6	50.8	50.8	51.2
47.5°	88.9	74.4	62.3	52.2	55.4	53.1	47.0	43.3	40.5	40.5	41.0
50°	83.3	67.0	54.0	43.8	41.5	43.8	38.2	34.0	32.1	31.7	32.6
52.5°	77.2	59.6	46.1	37.3	32.6	33.1	29.8	27.0	24.7	24.7	25.6
55°	71.2	53.6	40.1	31.7	27.0	24.7	23.8	21.9	20.0	20.0	21.0
57.5°	65.1	47.0	34.0	26.1	21.4	19.6	19.6	18.2	16.8	16.8	17.7
60°	59.6	40.5	27.9	21.4	16.8	16.3	16.8	15.4	14.4	14.4	15.4
62.5°	53.1	34.5	22.8	17.7	13.5	13.0	14.4	13.5	12.6	12.6	13.5
65°	45.2	29.3	18.2	13.5	10.2	10.2	12.1	11.2	10.2	10.2	11.2
67.5°	38.2	24.7	14.0	9.8	7.5	7.9	10.2	9.3	8.8	8.8	9.8
70°	31.7	19.1	9.8	6.1	4.2	6.1	7.9	7.9	7.9	7.9	8.8
72.5°	23.8	13.0	5.6	2.3	1.9	4.2	6.5	7.5	7.0	7.0	8.4
75°	15.4	7.5	1.9	0.0	0.0	2.3	5.1	6.1	6.1	5.6	7.0
77.5°	8.8	2.3	0.0	0.0	0.0	0.0	3.3	2.8	2.3	1.9	3.3
80°	2.3	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: P382946

CATALOG NUMBER: GLEON-SA3A-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1	3296.1
2.5°	2904.3	2959.2	3036.4	3118.4	3244.5	3344.5	3442.7	3527.0	3559.5	3573.0
5°	2298.7	2379.3	2492.4	2637.6	2865.2	3069.9	3277.6	3486.5	3577.2	3600.1
7.5°	1649.5	1752.3	1896.2	2078.1	2344.8	2610.1	2900.1	3206.8	3347.3	3382.7
10°	1220.8	1346.5	1511.2	1703.0	1957.6	2230.3	2546.3	2896.8	3057.3	3104.4
12.5°	866.2	1036.1	1256.7	1489.8	1710.4	1953.8	2273.6	2659.9	2828.4	2879.1
15°	508.7	673.0	934.1	1246.4	1528.9	1775.6	2100.5	2538.5	2724.1	2775.4
17.5°	291.9	373.7	571.0	919.3	1302.7	1644.4	2046.0	2568.6	2787.4	2834.9
20°	222.9	249.0	329.0	592.0	1038.4	1515.4	2046.0	2740.0	3009.5	3079.2
22.5°	195.0	214.1	246.7	353.2	764.2	1377.2	2069.7	2987.6	3339.9	3417.1
25°	173.2	190.3	218.3	265.8	521.3	1212.9	2126.1	3291.4	3729.0	3829.0
27.5°	155.0	171.3	196.4	232.7	356.5	1014.6	2201.9	3648.0	4158.1	4238.2
30°	138.7	154.1	176.9	202.4	275.1	789.9	2266.6	3984.0	4495.1	4581.2
32.5°	123.3	137.3	157.8	176.9	225.2	584.1	2273.6	4250.3	4774.7	4860.4
35°	108.9	121.5	140.1	155.0	186.6	461.2	2165.2	4481.1	5054.5	5167.6
37.5°	94.9	107.0	123.3	134.5	164.3	376.1	1999.5	4738.5	5413.3	5518.0
40°	81.9	92.6	109.4	116.8	155.5	289.1	1819.3	5008.5	5765.2	5861.1
42.5°	69.8	80.0	96.3	110.8	136.4	215.9	1624.8	5261.7	6081.7	6182.2
45°	58.2	68.8	85.1	117.3	113.1	161.5	1416.8	5429.6	6331.6	6441.0
47.5°	47.0	59.2	81.4	111.7	90.3	118.7	1252.0	5588.8	6521.0	6629.0
50°	37.7	49.8	91.7	99.6	74.0	90.7	1183.1	5731.3	6645.3	6749.1
52.5°	30.7	41.9	86.5	76.3	61.9	74.9	1220.3	5962.1	6760.2	6825.4
55°	25.6	33.1	52.2	53.1	52.6	63.7	1266.4	6293.4	7057.7	7088.4
57.5°	22.4	26.5	36.3	41.0	44.2	56.8	1267.4	6769.1	7518.0	7537.1
60°	19.1	23.3	30.3	33.1	38.2	50.8	1221.3	6935.3	7699.1	7762.3
62.5°	16.8	20.5	25.2	27.5	32.1	45.6	1113.3	6694.7	7450.5	7558.0
65°	14.9	18.6	21.0	23.3	28.4	41.0	935.5	6213.4	7038.1	7150.3
67.5°	13.0	16.3	18.6	21.0	25.6	36.3	688.8	5654.4	6564.8	6657.9
70°	11.6	14.4	16.8	18.6	22.4	30.7	418.0	4798.0	5910.4	5949.0
72.5°	11.2	13.0	15.4	16.8	19.6	27.0	211.7	3526.1	4725.0	4787.8
75°	9.8	11.6	14.0	14.9	17.2	23.3	86.1	2315.9	3424.1	3525.2
77.5°	7.9	10.7	12.6	13.5	14.9	19.1	43.8	1480.0	2403.0	2468.1
80°	2.8	7.9	10.7	11.2	12.6	14.0	28.9	810.3	1394.0	1421.9
82.5°	0.0	5.1	8.4	7.9	8.8	10.7	18.6	385.4	920.2	930.3
85°	0.0	2.3	6.5	5.1	3.7	7.5	6.5	84.2	482.6	502.7
87.5°	0.0	0.0	0.5	2.3	1.9	2.8	0.9	0.5	43.8	55.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)