

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: P382918

Luminaire Tested: **GLEON-SA2D-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382918  
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-SA2D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA 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: 10963.4 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

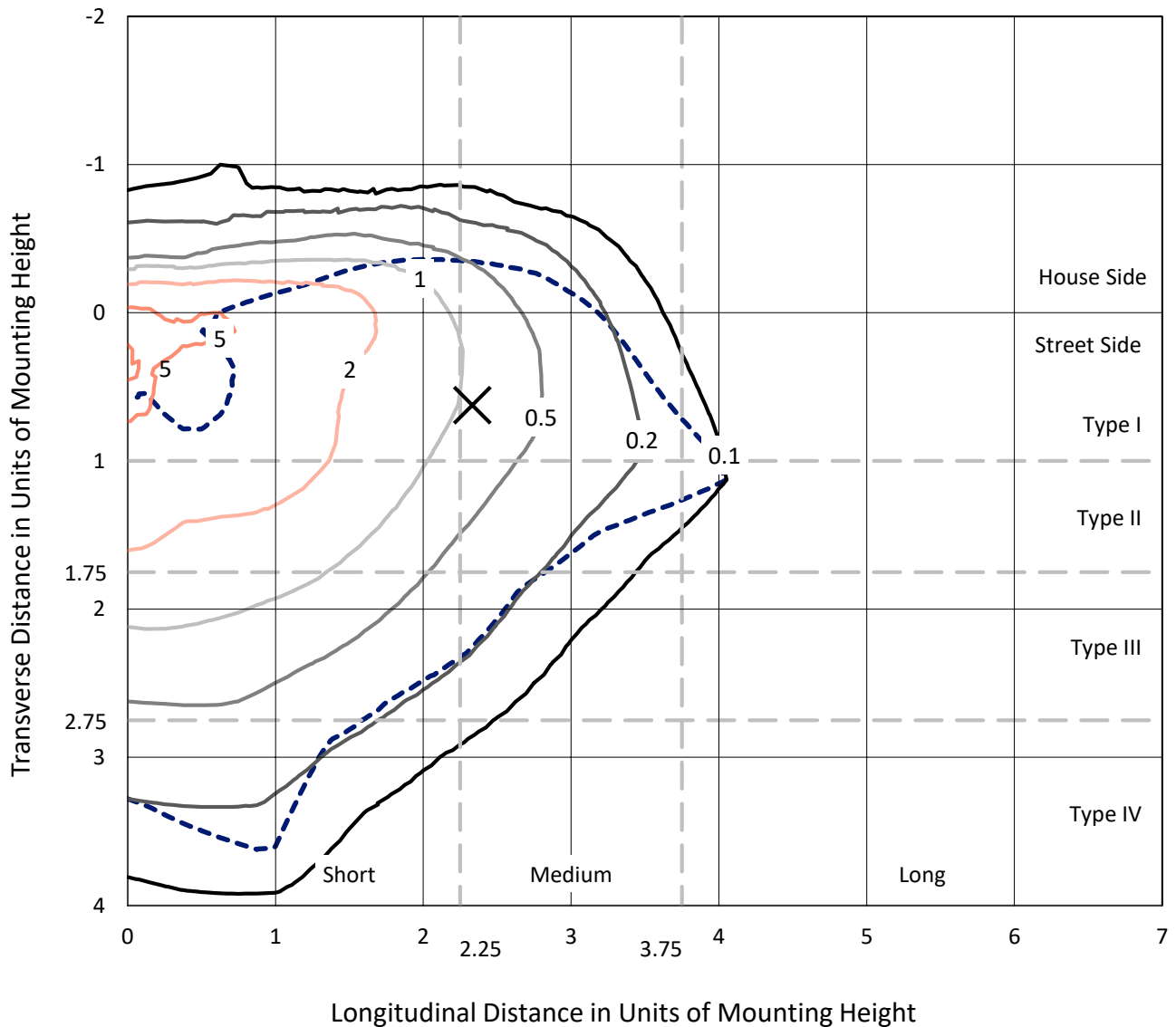
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

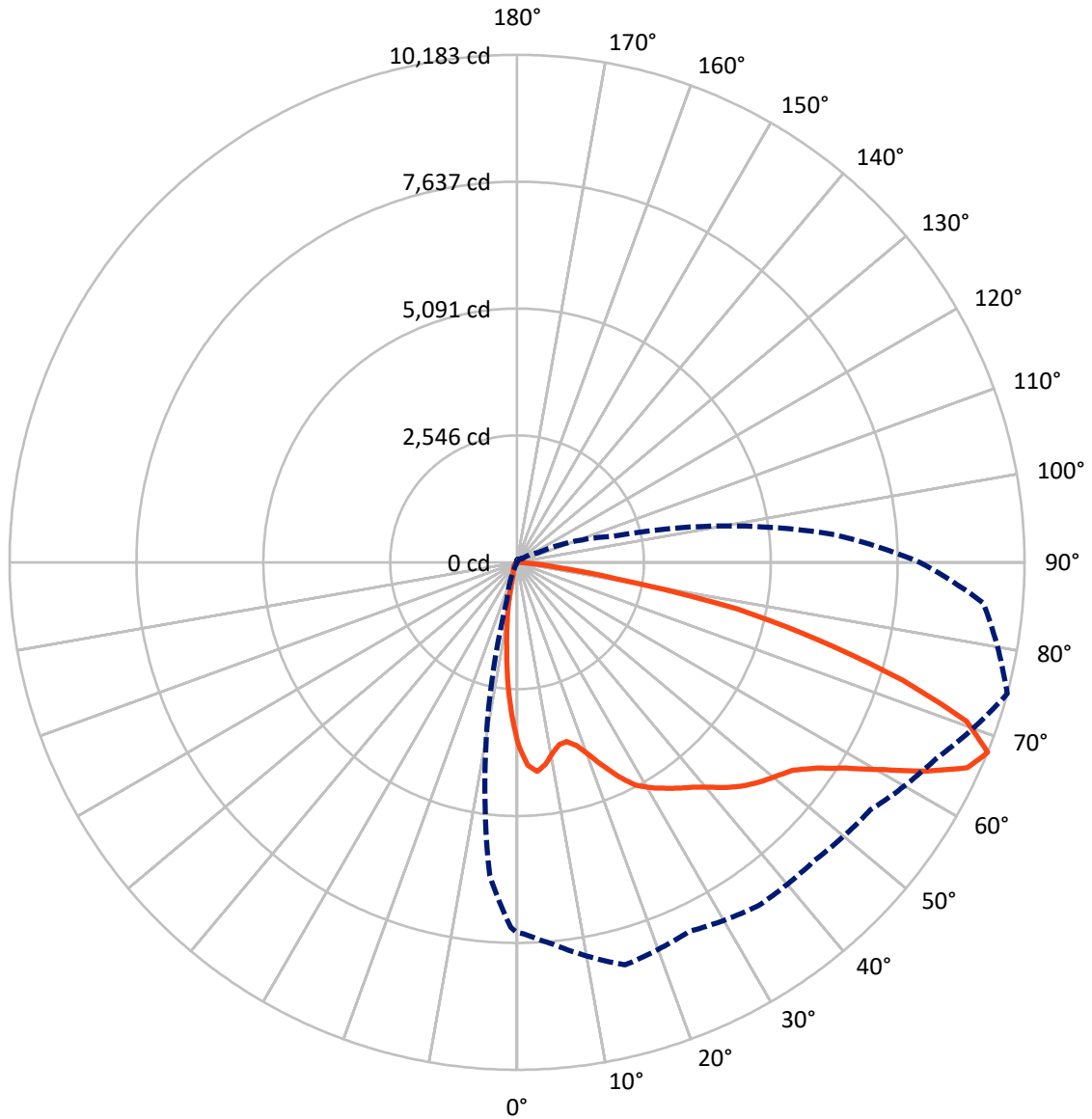
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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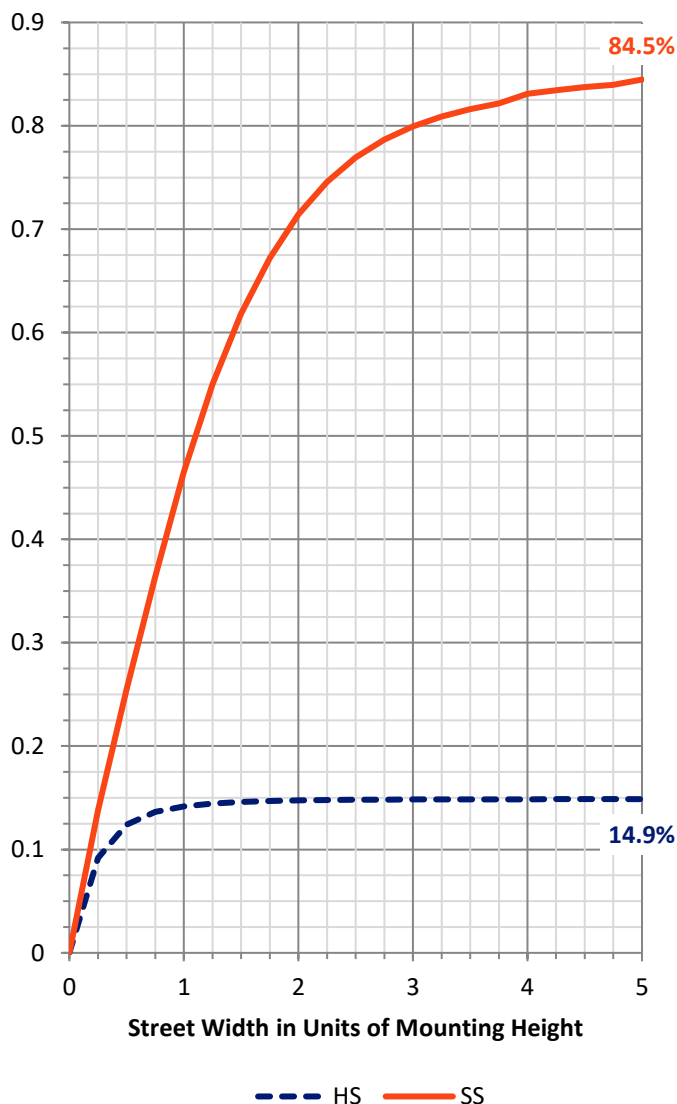
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1645.2	0.0	1645.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	9318.2	0.0	9318.2
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	10963.4	0.0	10963.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	2.5
10°-20°	549.3	5.0
20°-30°	777.2	7.1
30°-40°	1142.7	10.4
40°-50°	1642.4	15.0
50°-60°	2312.0	21.1
60°-70°	2700.2	24.6
70°-80°	1377.6	12.6
80°-90°	183.0	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°	10963.4	100.0
0°-180°	10963.4	100.0

**Coefficient of Utilization**

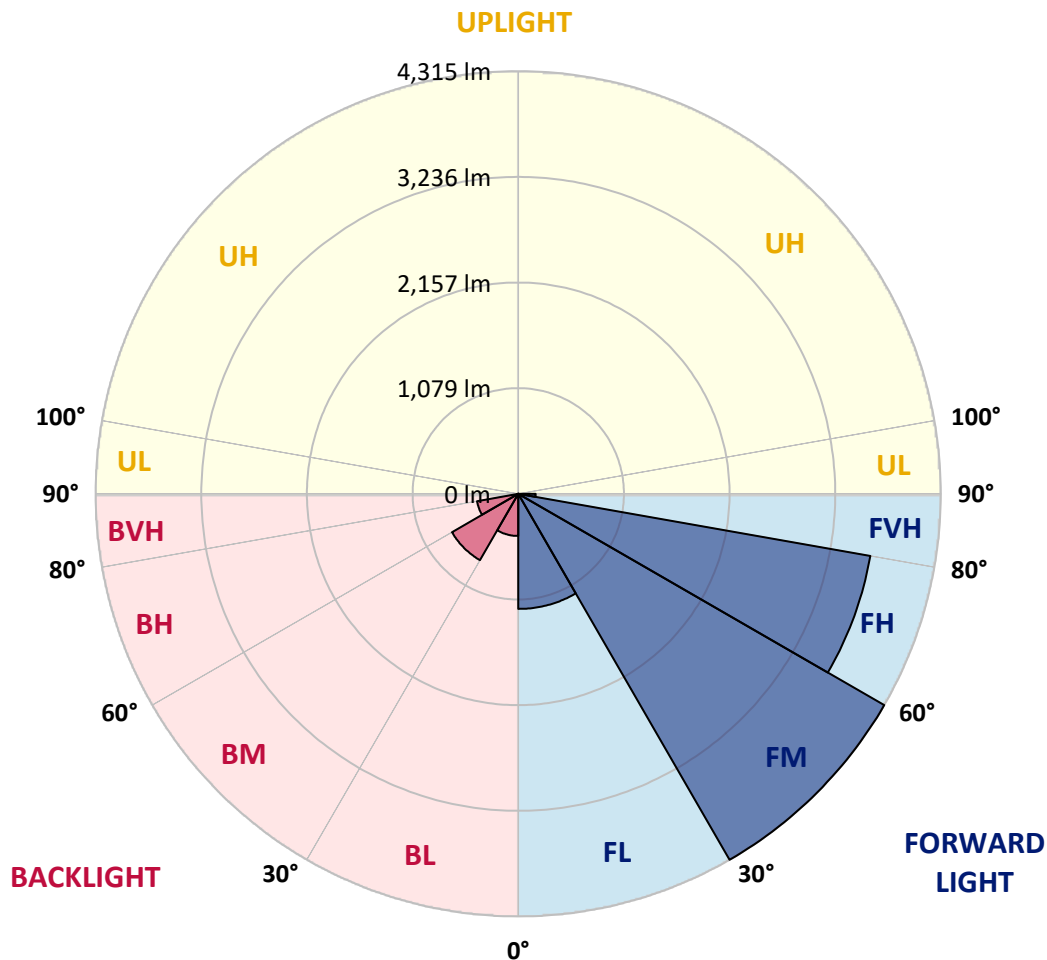


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.3	10.7			
FM (30°-60°)	4315.0	39.4			
FH (60°-80°)	3650.5	33.3			G2/5000
FVH (80°-90°)	177.5	1.6			G2/225
BL (0°-30°)	430.2	3.9	B1/500		
BM (30°-60°)	782.1	7.1	B1/1000		
BH (60°-80°)	427.3	3.9	B1/500		G1/500
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0
2.5°	3987.0	3993.3	4025.5	4100.3	4181.8	4188.1	4243.1	4186.5	4167.3	4075.9	3981.3
5°	4017.2	4041.1	4151.6	4371.4	4562.0	4623.3	4666.9	4555.7	4438.9	4215.5	3977.1
7.5°	3774.6	3814.6	3988.6	4401.0	4741.7	4892.3	4920.8	4746.9	4460.7	4093.0	3734.7
10°	3464.1	3509.8	3719.6	4226.4	4694.3	4952.5	4992.0	4764.0	4352.7	3894.6	3472.3
12.5°	3212.7	3266.2	3480.6	4030.2	4531.8	4817.5	4895.4	4706.4	4259.2	3753.9	3293.2
15°	3096.8	3158.1	3383.6	3903.5	4351.6	4576.5	4640.9	4559.4	4207.2	3731.5	3251.7
17.5°	3163.3	3229.9	3462.5	3914.4	4182.3	4278.4	4330.3	4363.6	4207.2	3866.0	3373.1
20°	3436.0	3507.6	3753.9	4024.9	4042.1	4006.2	4061.8	4178.6	4256.1	4121.5	3665.1
22.5°	3813.1	3897.2	4175.0	4214.5	3973.5	3838.0	3845.2	4028.6	4344.8	4445.6	4070.1
25°	4272.6	4375.5	4658.0	4497.0	4002.1	3737.7	3735.1	3905.0	4431.6	4770.2	4521.5
27.5°	4729.2	4842.4	5090.6	4841.9	4120.0	3719.6	3714.4	3867.6	4516.2	5059.0	5014.3
30°	5112.0	5222.1	5436.0	5091.7	4247.2	3762.1	3737.3	3907.6	4566.6	5246.5	5373.7
32.5°	5423.6	5511.9	5684.8	5263.6	4383.3	3844.8	3790.7	4014.6	4652.3	5404.8	5704.1
35°	5766.4	5859.2	5928.4	5427.2	4536.0	3963.6	3886.3	4184.4	4784.2	5565.9	6066.0
37.5°	6157.4	6249.8	6241.6	5576.8	4729.7	4160.5	4111.2	4453.4	4989.4	5725.3	6470.1
40°	6540.1	6634.7	6567.1	5740.4	4957.1	4485.1	4448.7	4857.5	5264.1	5929.4	6943.7
42.5°	6898.5	7000.9	6856.5	5895.1	5228.3	4894.4	4956.7	5377.8	5607.9	6180.7	7351.9
45°	7187.3	7291.7	7099.0	6045.7	5513.9	5390.9	5578.3	5954.4	6021.3	6393.2	7627.7
47.5°	7397.0	7495.8	7267.3	6196.4	5879.6	5998.0	6324.6	6558.8	6394.7	6577.6	7823.5
50°	7531.1	7607.9	7316.6	6384.8	6359.4	6706.3	7102.1	7216.3	6746.4	6743.8	8061.3
52.5°	7616.2	7651.1	7353.0	6581.7	6860.1	7477.6	7863.5	7899.3	7108.4	6926.5	8381.8
55°	7909.7	7937.7	7610.6	6820.0	7274.0	8153.3	8552.1	8518.9	7518.1	7284.4	8759.9
57.5°	8410.3	8439.9	8142.8	7162.9	7609.0	8570.8	9051.2	9110.9	7998.5	7787.1	9164.9
60°	8661.7	8716.8	8610.8	7597.1	7933.5	8837.8	9391.4	9582.0	8598.8	8449.8	9557.6
62.5°	8433.7	8513.7	8667.4	8078.5	8256.1	8984.8	9497.3	9750.8	9213.8	9222.0	9799.6
65°	7978.8	8042.6	8303.3	8342.3	8443.1	8966.5	9235.5	9515.0	9590.3	9931.5	9786.7
67.5°	7429.3	7453.2	7674.5	8363.1	8171.9	8420.2	8449.3	8655.9	9292.7	10182.8	9393.4
70°	6638.3	6651.3	6844.5	7667.7	7022.7	7077.2	7034.0	7076.1	7989.1	9570.5	8401.0
72.5°	5342.5	5375.2	5650.0	6367.8	5116.1	4958.7	5297.3	5278.6	6152.7	8085.7	6239.4
75°	3933.6	3990.2	4405.1	5129.1	3590.7	3248.0	3495.3	3561.2	4374.0	6254.5	3901.9
77.5°	2754.1	2796.1	3198.2	3770.4	2598.8	2322.5	2233.2	2311.6	2887.1	4524.5	1965.8
80°	1586.6	1602.2	1858.7	2177.1	1751.2	2003.7	1815.1	1869.2	1730.0	2013.0	845.5
82.5°	1038.2	1040.8	1141.1	1295.8	1090.7	1267.2	938.0	1199.2	1064.1	808.6	275.3
85°	560.9	564.1	661.7	919.8	617.5	349.0	205.1	421.2	658.0	185.4	75.3
87.5°	61.8	56.6	199.4	334.4	171.4	31.7	10.9	47.2	105.5	11.9	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°	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0
2.5°	3933.0	3890.0	3782.5	3668.7	3577.2	3491.6	3405.4	3299.9	3218.4	3201.8	3174.8
5°	3848.9	3712.3	3486.9	3260.5	3078.2	2848.1	2702.1	2588.4	2477.3	2470.6	2448.2
7.5°	3555.0	3375.3	3057.9	2744.7	2488.2	2269.1	2047.8	1899.8	1783.4	1742.5	1718.0
10°	3272.4	3070.4	2674.1	2316.9	2087.8	1894.0	1738.3	1583.5	1443.2	1346.6	1303.0
12.5°	3075.0	2851.7	2414.9	2107.0	1942.9	1759.0	1568.9	1375.7	1214.3	1097.9	1026.8
15°	2998.7	2760.4	2328.2	2023.9	1821.4	1588.7	1345.6	1124.9	945.7	840.3	776.4
17.5°	3089.6	2812.2	2321.5	1922.6	1639.6	1350.3	1081.8	821.1	652.3	572.3	531.3
20°	3320.2	2977.4	2318.9	1798.5	1423.5	1067.7	732.8	540.1	437.8	393.1	373.9
22.5°	3646.4	3188.3	2339.7	1675.9	1198.6	762.9	505.8	396.7	344.3	320.5	309.6
25°	4066.0	3484.3	2398.4	1564.8	987.3	569.2	394.2	332.4	295.5	276.9	269.0
27.5°	4513.2	3825.0	2489.7	1468.2	815.4	453.9	337.6	284.6	258.1	245.1	237.8
30°	4881.9	4219.7	2582.2	1360.7	690.7	395.7	309.0	259.7	229.1	220.7	214.0
32.5°	5204.4	4518.4	2647.6	1263.6	609.2	351.6	279.4	232.1	211.4	195.3	188.0
35°	5538.3	4767.1	2645.6	1195.5	553.2	318.4	254.5	207.7	182.8	164.1	158.4
37.5°	5899.8	5048.1	2600.4	1137.4	528.7	291.9	240.4	194.8	169.8	151.1	143.8
40°	6323.1	5343.1	2554.1	1082.8	521.9	270.6	230.6	184.4	157.9	139.7	132.5
42.5°	6735.5	5608.9	2513.7	1042.3	492.9	270.1	221.8	176.6	148.5	130.9	122.6
45°	7065.2	5856.7	2505.9	1017.9	462.2	279.4	217.1	171.4	141.2	123.6	115.8
47.5°	7339.5	6125.8	2555.7	1000.8	433.2	255.0	228.5	167.8	134.5	117.4	108.5
50°	7665.6	6456.0	2673.1	972.7	402.5	229.5	261.8	168.8	128.8	111.1	101.8
52.5°	8120.6	6913.0	2845.5	925.5	360.4	206.2	257.6	169.8	122.6	104.4	95.0
55°	8630.5	7483.8	3030.9	847.1	301.7	175.5	220.7	162.6	110.7	97.2	88.3
57.5°	9166.5	8001.6	3141.0	753.5	240.0	151.7	176.6	148.0	97.6	87.3	81.5
60°	9250.6	8198.5	3090.7	638.8	190.6	131.9	130.9	150.6	87.3	76.9	72.8
62.5°	9041.3	7951.2	2847.1	536.5	159.5	115.8	107.5	131.4	78.9	68.6	64.4
65°	8638.9	7282.8	2452.4	483.5	148.0	99.2	89.3	92.4	69.0	59.7	56.1
67.5°	8079.0	6390.6	2013.5	453.4	146.4	85.1	76.4	70.1	59.7	52.0	48.8
70°	6934.3	5323.9	1606.4	436.8	142.3	71.6	64.4	57.1	49.8	44.2	41.5
72.5°	5103.7	3772.6	1249.6	418.6	143.4	57.1	56.1	47.2	40.0	34.3	33.3
75°	2948.9	2155.3	819.6	339.2	136.6	44.2	46.8	33.3	28.0	23.8	23.8
77.5°	1571.5	1314.5	312.2	141.2	49.8	28.0	26.5	19.7	17.7	14.5	14.1
80°	685.1	578.6	94.0	39.5	27.5	15.1	9.9	8.8	7.8	6.2	5.7
82.5°	242.6	209.3	30.6	19.2	11.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.1	39.5	0.0	4.7	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°	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0
2.5°	3119.8	3108.3	3040.8	3043.4	3055.3	3072.4	3032.0	3050.6	3101.0	3149.4	3167.5
5°	2412.3	2414.9	2374.0	2399.4	2422.2	2437.9	2372.4	2373.4	2413.5	2467.9	2496.5
7.5°	1699.8	1695.7	1697.7	1758.5	1801.6	1770.5	1794.9	1710.2	1715.4	1754.4	1725.3
10°	1263.6	1206.4	1174.2	1220.0	1267.2	1250.0	1208.0	1180.5	1199.7	1242.8	1239.7
12.5°	993.0	911.0	862.6	829.9	868.9	836.7	835.6	811.8	785.8	790.4	859.5
15°	746.8	687.1	630.0	577.6	576.4	565.5	510.0	447.7	442.5	445.6	481.4
17.5°	513.7	493.3	470.0	424.8	412.9	367.2	313.2	288.2	275.7	281.5	293.4
20°	361.0	353.1	355.8	331.4	314.2	270.6	238.9	229.1	226.9	232.7	238.4
22.5°	299.1	285.1	283.6	272.7	255.5	223.9	206.7	201.0	198.4	203.5	207.7
25°	261.8	247.7	242.0	235.3	217.1	195.3	184.9	179.7	177.1	180.3	182.8
27.5°	230.6	217.6	212.4	207.7	190.0	174.5	166.2	161.5	159.5	160.5	163.1
30°	207.2	195.8	189.0	183.3	168.2	157.3	150.1	145.4	143.4	143.4	146.0
32.5°	182.8	176.6	170.4	163.1	149.0	141.8	134.5	129.3	127.2	127.7	129.9
35°	152.2	150.1	151.7	144.9	132.9	126.7	119.4	113.7	112.2	112.7	114.8
37.5°	135.1	125.7	131.4	127.7	121.0	112.7	103.3	98.2	95.6	97.2	98.2
40°	124.1	112.7	108.5	112.2	111.1	97.6	89.3	84.1	82.1	82.5	83.7
42.5°	114.8	101.3	91.9	91.4	97.6	85.1	76.4	71.6	69.0	69.0	70.1
45°	105.9	91.4	80.0	71.2	82.1	72.2	63.9	59.7	56.6	56.6	57.1
47.5°	99.2	83.1	69.6	58.1	61.8	59.2	52.4	48.3	45.2	45.2	45.7
50°	93.0	74.8	60.3	48.8	46.2	48.8	42.6	37.9	35.9	35.3	36.3
52.5°	86.2	66.5	51.4	41.5	36.3	36.9	33.3	30.1	27.5	27.5	28.6
55°	79.5	59.7	44.6	35.3	30.1	27.5	26.5	24.4	22.4	22.4	23.4
57.5°	72.8	52.4	37.9	29.1	23.8	21.8	21.8	20.2	18.7	18.7	19.7
60°	66.5	45.2	31.2	23.8	18.7	18.2	18.7	17.1	16.1	16.1	17.1
62.5°	59.2	38.5	25.4	19.7	15.1	14.5	16.1	15.1	14.1	14.1	15.1
65°	50.4	32.7	20.2	15.1	11.5	11.5	13.5	12.5	11.5	11.5	12.5
67.5°	42.6	27.5	15.6	10.9	8.3	8.8	11.5	10.4	9.9	9.9	10.9
70°	35.3	21.3	10.9	6.7	4.7	6.7	8.8	8.8	8.8	8.8	9.9
72.5°	26.5	14.5	6.2	2.6	2.0	4.7	7.3	8.3	7.8	7.8	9.3
75°	17.1	8.3	2.0	0.0	0.0	2.6	5.7	6.7	6.7	6.2	7.8
77.5°	9.9	2.6	0.0	0.0	0.0	0.0	3.6	3.1	2.6	2.0	3.6
80°	2.6	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: P382918

CATALOG NUMBER: GLEON-SA2D-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0	3678.0
2.5°	3240.8	3302.1	3388.2	3479.6	3620.4	3732.1	3841.6	3935.6	3971.9	3987.0
5°	2565.1	2654.9	2781.1	2943.1	3197.1	3425.6	3657.3	3890.4	3991.7	4017.2
7.5°	1840.6	1955.3	2115.8	2318.9	2616.4	2912.5	3236.1	3578.4	3735.1	3774.6
10°	1362.3	1502.5	1686.3	1900.3	2184.4	2488.7	2841.3	3232.5	3411.6	3464.1
12.5°	966.5	1156.1	1402.3	1662.4	1908.6	2180.2	2537.0	2968.1	3156.1	3212.7
15°	567.7	751.0	1042.3	1390.8	1706.0	1981.3	2343.9	2832.6	3039.7	3096.8
17.5°	325.7	417.1	637.3	1025.7	1453.7	1834.9	2283.0	2866.3	3110.3	3163.3
20°	248.7	277.9	367.2	660.7	1158.7	1691.0	2283.0	3057.4	3358.1	3436.0
22.5°	217.6	238.9	275.3	394.2	852.7	1536.8	2309.6	3333.7	3726.8	3813.1
25°	193.2	212.4	243.6	296.5	581.7	1353.4	2372.4	3672.8	4161.0	4272.6
27.5°	173.0	191.2	219.2	259.7	397.9	1132.2	2457.0	4070.7	4639.9	4729.2
30°	154.7	171.9	197.4	225.9	306.9	881.3	2529.2	4445.6	5015.8	5112.0
32.5°	137.6	153.2	176.1	197.4	251.3	651.8	2537.0	4742.7	5328.0	5423.6
35°	121.6	135.5	156.3	173.0	208.3	514.7	2416.0	5000.3	5640.1	5766.4
37.5°	105.9	119.4	137.6	150.1	183.3	419.7	2231.1	5287.5	6040.5	6157.4
40°	91.4	103.3	122.0	130.3	173.5	322.5	2030.1	5588.7	6433.2	6540.1
42.5°	77.9	89.3	107.5	123.6	152.2	241.0	1813.1	5871.3	6786.3	6898.5
45°	64.9	76.9	95.0	130.9	126.2	180.3	1580.9	6058.7	7065.2	7187.3
47.5°	52.4	66.0	90.9	124.6	100.8	132.5	1397.0	6236.3	7276.6	7397.0
50°	42.1	55.6	102.3	111.1	82.5	101.3	1320.2	6395.3	7415.3	7531.1
52.5°	34.3	46.8	96.6	85.1	69.0	83.7	1361.7	6652.8	7543.6	7616.2
55°	28.6	36.9	58.1	59.2	58.7	71.2	1413.2	7022.7	7875.4	7909.7
57.5°	25.0	29.6	40.5	45.7	49.4	63.3	1414.2	7553.5	8389.1	8410.3
60°	21.3	26.0	33.7	36.9	42.6	56.6	1362.8	7738.8	8591.1	8661.7
62.5°	18.7	22.8	28.0	30.6	35.9	50.9	1242.3	7470.3	8313.7	8433.7
65°	16.6	20.8	23.4	26.0	31.7	45.7	1043.9	6933.3	7853.6	7978.8
67.5°	14.5	18.2	20.8	23.4	28.6	40.5	768.6	6309.6	7325.4	7429.3
70°	12.9	16.1	18.7	20.8	25.0	34.3	466.3	5354.0	6595.2	6638.3
72.5°	12.5	14.5	17.1	18.7	21.8	30.1	236.3	3934.6	5272.5	5342.5
75°	10.9	12.9	15.6	16.6	19.2	26.0	96.0	2584.3	3820.8	3933.6
77.5°	8.8	11.9	14.1	15.1	16.6	21.3	48.8	1651.5	2681.4	2754.1
80°	3.1	8.8	11.9	12.5	14.1	15.6	32.2	904.2	1555.4	1586.6
82.5°	0.0	5.7	9.3	8.8	9.9	11.9	20.8	430.0	1026.8	1038.2
85°	0.0	2.6	7.3	5.7	4.2	8.3	7.3	94.0	538.5	560.9
87.5°	0.0	0.0	0.6	2.6	2.0	3.1	1.0	0.6	48.8	61.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)