

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: P383144

Luminaire Tested: **GLEON-SA4D-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383144  
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-SA4D-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA 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: 21613.8 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 258  
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

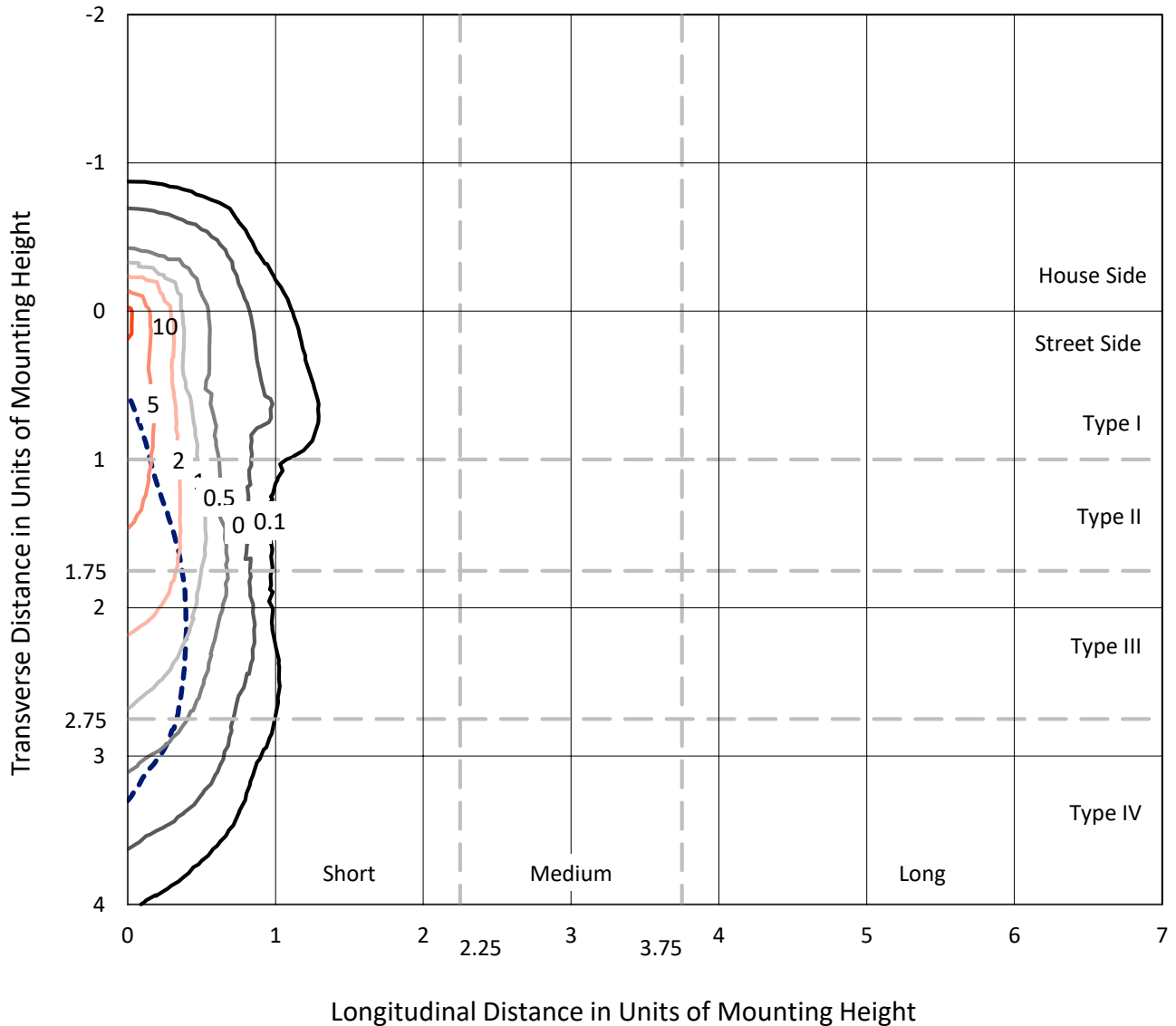




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### Iso-Footcandle Lines of Horizontal Illumination

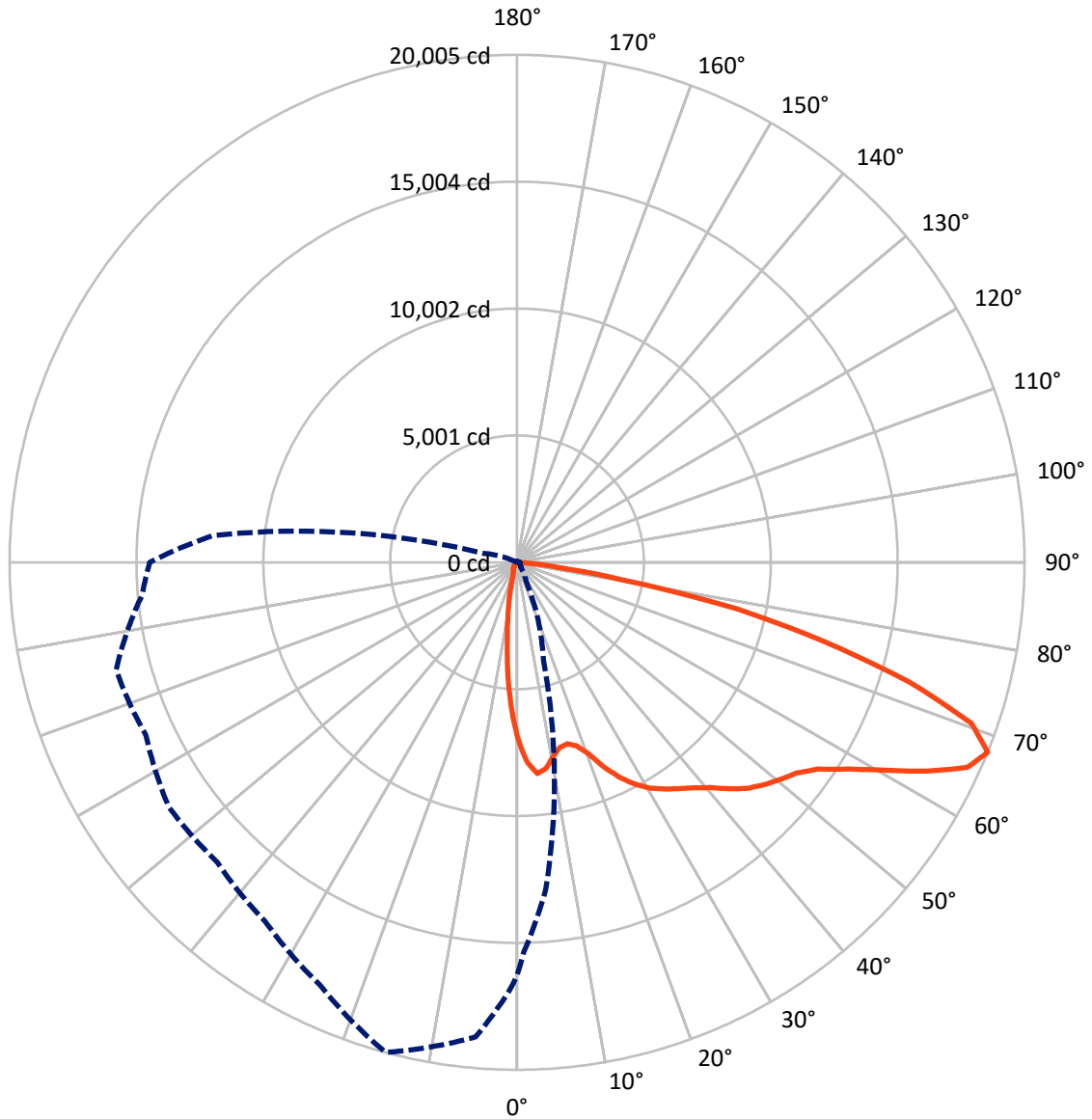
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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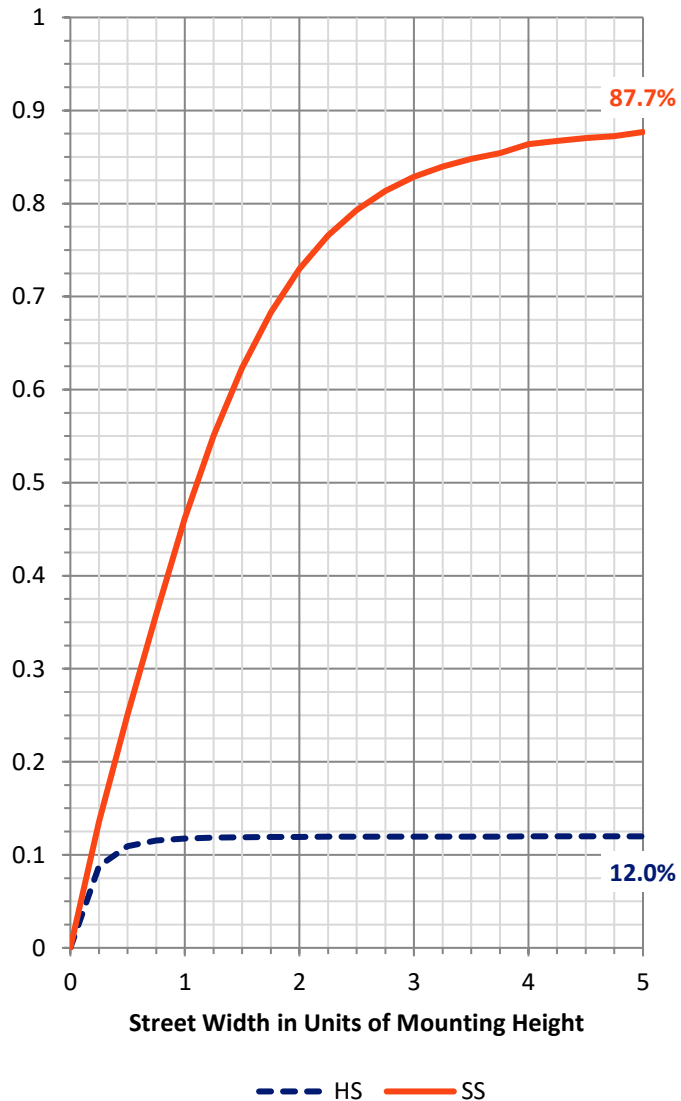
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2616.0	0.0	2616.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	18997.8	0.0	18997.8
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	21613.8	0.0	21613.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.4	2.5
10°-20°	1075.6	5.0
20°-30°	1527.3	7.1
30°-40°	2256.0	10.4
40°-50°	3253.6	15.1
50°-60°	4567.3	21.1
60°-70°	5324.2	24.6
70°-80°	2721.8	12.6
80°-90°	347.6	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°	21613.8	100.0
0°-180°	21613.8	100.0

**Coefficient of Utilization**



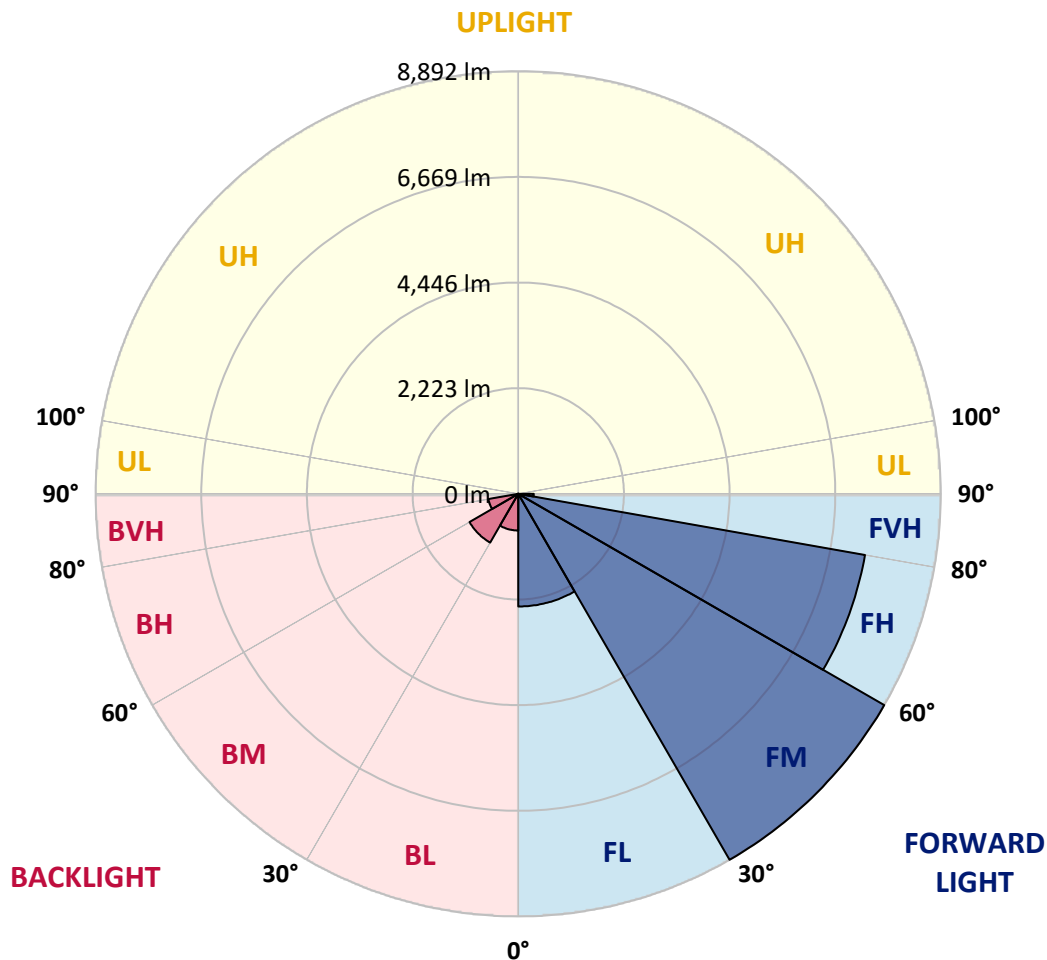
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.6	11.0			
FM (30°-60°)	8892.3	41.1			
FH (60°-80°)	7408.4	34.3			G3/7500
FVH (80°-90°)	326.5	1.5			G3/500
BL (0°-30°)	772.7	3.6	B2/1000		
BM (30°-60°)	1184.6	5.5	B2/2500		
BH (60°-80°)	637.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	21.1	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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6
2.5°	7709.3	7649.9	7584.4	7370.3	7171.7	6944.4	6759.0	6630.0	6468.3	6258.3	6205.1
5°	7654.0	7590.5	7384.7	6908.5	6491.8	6086.4	5695.2	5465.9	5181.2	4892.4	4820.8
7.5°	7098.0	7031.4	6734.5	6082.3	5521.1	4935.4	4427.6	4113.2	3791.7	3527.5	3387.2
10°	6519.4	6446.8	6112.9	5321.5	4630.3	4100.9	3728.1	3428.2	3124.0	2841.4	2616.2
12.5°	6121.1	6025.9	5663.4	4766.4	4164.4	3805.0	3456.9	3097.4	2685.8	2382.7	2134.9
15°	5954.3	5845.7	5462.8	4552.5	3999.5	3577.7	3124.0	2682.8	2200.5	1853.3	1626.0
17.5°	6083.3	5942.0	5531.3	4538.1	3792.7	3218.2	2644.8	2126.7	1603.5	1252.3	1090.5
20°	6521.5	6336.2	5815.0	4534.0	3541.8	2791.3	2064.3	1478.6	1056.7	849.9	764.9
22.5°	7211.7	6967.0	6222.6	4566.8	3282.8	2342.7	1490.8	1004.5	793.6	686.1	635.9
25°	8045.1	7761.5	6809.2	4682.5	3055.5	1906.6	1083.3	793.6	669.7	590.8	548.9
27.5°	8837.7	8607.3	7550.6	4849.4	2879.3	1554.4	879.6	672.8	572.3	520.2	486.4
30°	9629.2	9339.4	8311.4	5048.1	2667.4	1315.8	773.1	613.3	513.0	457.7	436.2
32.5°	10204.6	9964.0	8907.3	5191.4	2441.1	1160.1	691.2	561.2	479.2	422.9	391.2
35°	10881.5	10609.1	9418.2	5223.2	2295.7	1061.9	621.5	504.8	415.7	365.5	331.7
37.5°	11612.6	11273.6	10008.1	5153.5	2182.1	1013.7	569.3	479.2	388.1	336.8	301.1
40°	12421.4	12038.5	10574.3	5053.2	2070.5	997.3	529.4	459.7	366.6	314.4	277.5
42.5°	13273.4	12821.8	11064.7	4947.7	1999.8	941.0	525.3	440.3	350.2	293.9	257.0
45°	13989.1	13531.5	11568.5	4912.9	1949.6	879.6	542.7	427.0	338.9	277.5	241.6
47.5°	14559.4	14126.4	12084.6	4990.7	1920.9	823.2	494.6	444.3	332.7	263.2	228.3
50°	15240.4	14749.9	12811.6	5223.2	1878.9	766.9	447.4	508.9	332.7	253.9	217.1
52.5°	16094.3	15609.0	13622.6	5583.6	1795.0	689.2	402.4	509.9	335.8	241.6	202.7
55°	17168.5	16816.2	14780.7	5978.9	1660.9	574.4	348.1	438.3	323.5	219.1	189.4
57.5°	18198.5	17910.9	15836.3	6249.1	1481.6	448.4	303.1	353.2	296.0	192.5	169.0
59°	18480.1	18165.8	16223.4	6261.4	1347.5	391.2	280.6	291.9	289.8	180.3	156.7
60°	18480.1	18146.4	16335.0	6195.9	1250.2	359.4	266.2	260.1	302.1	172.1	149.5
62.5°	18145.3	17676.4	15972.5	5752.5	1019.9	306.2	232.4	215.0	271.4	154.6	132.1
65°	17449.0	16766.1	14737.6	4950.8	909.3	280.6	200.7	176.2	188.5	136.2	115.7
67.5°	16287.9	15362.2	12957.0	3999.5	865.2	273.4	173.1	149.5	142.3	116.7	101.4
70°	14243.1	13216.1	10795.4	3144.5	827.3	270.3	145.4	125.9	114.7	98.3	86.0
72.5°	10366.4	9295.4	7664.2	2458.4	804.9	276.5	116.7	105.5	94.2	76.8	66.5
75°	5929.7	5228.2	4307.8	1624.0	686.1	264.2	90.1	88.0	67.5	55.3	46.1
77.5°	3063.7	2970.4	2581.3	623.6	328.6	115.7	59.4	51.2	40.0	33.8	27.7
80°	1322.0	1307.6	1131.5	180.3	87.0	64.5	33.8	21.5	18.4	14.3	11.3
82.5°	456.6	456.6	402.4	60.5	38.9	31.8	4.1	0.0	0.0	0.0	0.0
85°	92.1	103.4	72.7	0.0	13.3	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°	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6
2.5°	6140.6	6016.7	6008.5	5930.7	5833.4	5789.4	5763.8	5808.9	5864.1	5870.2	5953.2
5°	4766.4	4636.4	4690.7	4552.5	4580.1	4552.5	4507.4	4515.6	4540.2	4463.4	4558.6
7.5°	3347.2	3249.0	3311.5	3274.6	3323.8	3343.1	3315.6	3274.6	3153.8	3139.4	3222.3
10°	2523.0	2411.4	2344.8	2275.2	2290.6	2322.3	2312.1	2282.4	2205.5	2209.6	2289.6
12.5°	2027.4	1902.5	1770.4	1599.4	1557.5	1580.9	1557.5	1540.0	1466.3	1472.4	1543.1
15°	1538.0	1435.6	1297.4	1160.1	1085.3	1092.5	1027.0	980.9	934.9	879.6	922.6
17.5°	1038.3	975.8	934.9	893.9	804.9	784.4	701.4	612.3	577.5	551.9	570.3
20°	735.2	701.4	685.1	683.0	631.8	606.2	525.3	470.0	452.5	447.4	458.7
22.5°	614.4	589.8	566.3	553.0	527.3	497.6	436.2	408.6	396.3	390.1	398.3
25°	534.5	516.1	491.5	468.9	458.7	427.0	383.0	362.5	354.3	348.1	352.2
27.5°	475.1	458.7	430.1	415.7	407.6	379.9	342.0	325.6	318.4	316.4	315.3
30°	428.0	412.7	386.0	369.6	355.3	330.7	308.2	291.9	284.7	282.6	280.6
32.5°	380.9	368.6	351.2	334.8	319.4	297.0	277.5	264.2	252.9	250.9	249.8
35°	321.5	309.3	300.1	299.0	284.7	263.2	248.8	231.4	222.2	219.1	220.1
37.5°	285.7	269.3	248.8	256.0	251.9	236.5	217.1	199.6	190.4	188.5	188.5
40°	263.2	245.7	222.2	209.9	222.2	219.1	188.5	171.0	161.8	160.8	158.7
42.5°	241.6	224.2	197.6	177.2	183.3	192.5	162.8	146.4	137.2	135.2	132.1
45°	226.3	207.8	178.2	154.6	142.3	161.8	139.3	118.8	113.6	109.5	107.5
47.5°	211.9	194.5	160.8	134.1	113.6	116.7	111.6	97.3	91.1	87.0	86.0
50°	199.6	181.3	145.4	114.7	94.2	86.0	90.1	76.8	71.6	67.5	65.5
52.5°	185.4	168.0	129.0	99.3	78.8	67.5	68.6	60.5	55.3	52.3	51.2
55°	174.1	156.7	115.7	87.0	69.6	55.3	49.2	47.1	44.1	42.0	41.0
57.5°	158.7	142.3	102.4	73.7	59.4	45.1	37.9	37.9	36.9	34.8	33.8
59°	149.5	135.2	94.2	66.5	54.3	38.9	33.8	34.8	33.8	31.8	30.7
60°	142.3	129.0	88.0	61.5	51.2	35.9	30.7	32.8	31.8	29.7	28.7
62.5°	125.9	116.7	75.7	51.2	45.1	28.7	25.6	27.7	27.7	26.6	25.6
65°	110.6	100.3	64.5	43.0	42.0	24.6	20.5	24.6	25.6	23.6	21.5
67.5°	96.2	86.0	56.4	34.8	38.9	19.5	15.4	20.5	27.7	21.5	19.5
70°	81.9	71.6	44.1	27.7	41.0	13.3	12.3	18.4	32.8	23.6	18.4
72.5°	63.4	55.3	30.7	20.5	44.1	9.2	9.2	15.4	36.9	25.6	17.4
75°	44.1	35.9	18.4	12.3	35.9	6.1	6.1	14.3	34.8	23.6	16.4
77.5°	25.6	19.5	6.1	1.0	18.4	0.0	1.0	10.2	24.6	14.3	7.2
80°	9.2	4.1	0.0	0.0	11.3	0.0	0.0	0.0	2.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6
2.5°	5974.8	6112.9	6236.8	6424.2	6646.4	6902.4	7122.5	7359.1	7581.3	7673.4	7737.0
5°	4578.1	4749.0	4948.8	5224.2	5590.8	6042.3	6465.2	6943.4	7457.4	7714.4	7956.1
7.5°	3236.7	3410.8	3658.6	3951.4	4394.8	4932.4	5485.2	6145.7	6842.0	7248.5	7648.8
10°	2327.5	2541.4	2772.8	3173.2	3623.7	4133.6	4703.0	5440.2	6216.4	6666.9	7149.2
12.5°	1584.0	1827.7	2178.0	2626.4	3155.8	3655.5	4150.0	4853.5	5754.5	6201.0	6718.1
15°	950.2	1085.3	1456.0	1975.2	2624.4	3246.9	3788.6	4494.1	5454.6	6001.3	6538.9
17.5°	585.7	648.2	849.9	1275.8	1957.7	2745.2	3487.5	4372.2	5497.5	6163.1	6738.5
20°	466.9	491.5	556.0	753.6	1297.4	2192.3	3148.6	4347.6	5848.8	6667.9	7285.4
22.5°	405.5	429.1	472.0	547.8	816.1	1641.4	2827.2	4370.2	6352.6	7424.6	8145.5
25°	357.3	377.8	418.8	481.2	598.0	1156.1	2483.0	4470.5	7008.9	8363.6	9129.4
27.5°	319.4	336.8	374.8	432.1	513.0	806.9	2092.9	4592.4	7787.1	9324.0	10079.7
30°	284.7	300.1	333.8	387.1	445.4	620.5	1665.0	4675.3	8566.3	10079.7	10758.6
32.5°	255.0	266.2	297.0	342.0	387.1	494.6	1265.6	4662.0	9144.8	10708.4	11247.0
35°	224.2	235.5	262.1	301.1	336.8	408.6	995.3	4413.2	9648.6	11360.7	11806.1
37.5°	190.4	204.8	230.4	265.2	289.8	359.4	804.9	4113.2	10159.6	12106.1	12429.6
40°	161.8	176.2	198.6	236.5	251.9	340.9	618.5	3747.6	10734.0	12939.6	13113.7
42.5°	134.1	147.5	171.0	203.7	237.5	293.9	457.7	3329.9	11285.9	13652.3	13737.3
45°	108.5	121.8	146.4	179.2	253.9	243.7	354.3	2882.4	11731.4	14245.1	14272.8
47.5°	86.0	98.3	123.9	169.0	236.5	194.5	252.9	2531.2	12105.1	14707.9	14635.3
50°	66.5	76.8	103.4	193.5	206.8	160.8	191.4	2414.5	12439.9	14994.7	14806.2
52.5°	52.3	61.5	85.0	181.3	160.8	133.1	160.8	2524.0	12898.7	15232.2	14902.5
55°	42.0	51.2	66.5	103.4	109.5	112.6	137.2	2626.4	13690.1	15789.3	15470.8
57.5°	34.8	44.1	54.3	72.7	82.9	95.2	121.8	2637.7	14623.0	16714.9	16413.9
59°	31.8	40.0	49.2	64.5	72.7	87.0	114.7	2576.3	14951.6	17051.8	16901.3
60°	29.7	37.9	46.1	59.4	67.5	81.9	110.6	2517.9	14966.0	17039.5	17109.1
62.5°	25.6	33.8	41.0	50.2	57.4	69.6	99.3	2301.9	14359.8	16481.4	16984.2
65°	22.5	29.7	36.9	43.0	49.2	62.5	90.1	1907.6	13324.6	15581.3	16129.2
67.5°	20.5	25.6	33.8	37.9	44.1	55.3	79.8	1359.8	12031.3	14480.6	14835.9
70°	18.4	24.6	30.7	34.8	40.0	48.2	68.6	781.3	10159.6	12869.0	13121.9
72.5°	17.4	23.6	27.7	32.8	35.9	43.0	62.5	367.6	7439.0	10309.1	10969.5
75°	15.4	21.5	25.6	30.7	33.8	38.9	53.3	176.2	4947.7	7460.5	8211.0
77.5°	9.2	17.4	23.6	27.7	29.7	33.8	44.1	101.4	3157.9	5163.8	6082.3
80°	0.0	6.1	17.4	23.6	25.6	28.7	33.8	79.8	1689.5	2950.0	3540.8
82.5°	0.0	0.0	12.3	18.4	17.4	19.5	25.6	50.2	761.8	1928.1	2172.8
85°	0.0	0.0	4.1	14.3	12.3	9.2	17.4	17.4	166.9	975.8	1217.4
87.5°	0.0	0.0	0.0	1.0	6.1	4.1	7.2	2.0	1.0	72.7	294.9
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: P383144

CATALOG NUMBER: GLEON-SA4D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6	7040.6
2.5°	7959.1	8034.9	8162.9	8223.3	8193.6	8067.7	7917.1	7763.5	7673.4	7709.3
5°	8448.6	8838.7	9064.0	9138.7	9013.7	8731.2	8361.6	7874.1	7701.1	7654.0
7.5°	8448.6	9182.7	9647.6	9729.5	9451.0	8897.0	8203.9	7443.1	7190.2	7098.0
10°	8151.6	9151.0	9799.1	9929.2	9540.1	8711.7	7783.0	6914.7	6614.6	6519.4
12.5°	7816.8	8892.9	9575.9	9755.2	9435.6	8527.4	7491.2	6557.3	6204.1	6121.1
15°	7611.0	8575.5	9140.7	9270.8	9135.6	8419.9	7421.5	6449.8	6034.1	5954.3
17.5°	7684.7	8329.8	8533.5	8609.4	8700.5	8382.0	7611.0	6685.3	6159.0	6083.3
20°	7962.2	8070.7	7965.3	8060.5	8306.2	8418.9	8062.5	7254.6	6622.8	6521.5
22.5°	8433.2	7936.6	7640.6	7678.6	7977.6	8540.7	8752.6	8067.7	7338.6	7211.7
25°	8982.1	8045.1	7460.5	7426.7	7733.9	8701.5	9383.4	8952.4	8185.4	8045.1
27.5°	9672.2	8288.8	7423.6	7389.8	7648.8	8852.0	9907.7	9826.8	9077.3	8837.7
30°	10204.6	8528.4	7533.1	7455.4	7733.9	8956.5	10328.5	10569.2	9787.9	9629.2
32.5°	10586.6	8811.0	7711.4	7598.7	7973.5	9136.6	10653.1	11249.1	10445.3	10204.6
35°	10877.4	9118.3	7999.0	7813.7	8303.2	9410.0	10957.2	11973.0	11144.6	10881.5
37.5°	11149.7	9549.3	8448.6	8227.4	8820.3	9850.4	11278.7	12794.2	11926.9	11612.6
40°	11529.6	10037.7	9141.7	8945.2	9689.6	10450.4	11680.1	13650.2	12816.7	12421.4
42.5°	11909.5	10562.0	9851.4	9904.6	10773.9	11179.4	12198.2	14555.3	13695.2	13273.4
45°	12256.7	11102.7	10862.0	11107.8	11780.4	11979.1	12713.3	15078.6	14396.7	13989.1
47.5°	12565.8	11778.4	11866.5	12520.8	12925.2	12703.0	13098.3	15530.2	14918.9	14559.4
50°	12925.2	12652.9	13190.4	14116.1	14243.1	13358.4	13448.5	16064.6	15529.2	15240.4
52.5°	13318.4	13574.4	14656.8	15472.8	15431.8	14070.0	13800.7	16663.7	16365.7	16094.3
55°	13764.9	14318.8	15947.9	16742.5	16707.7	14864.6	14384.4	17404.0	17414.3	17168.5
57.5°	14427.3	14959.8	16824.4	17769.5	17827.9	15782.1	15373.5	18233.4	18362.4	18198.5
59°	14902.5	15375.6	17171.6	18198.5	18436.2	16491.7	16096.4	18714.6	18629.6	18480.1
60°	15254.7	15639.8	17343.6	18422.8	18789.4	16972.9	16629.9	18997.2	18661.4	18480.1
62.5°	16126.1	16215.2	17653.9	18676.8	19195.9	18041.9	18131.0	19478.5	18441.3	18145.3
65°	16532.6	16578.7	17649.8	18222.1	18802.7	18874.4	19492.8	19492.8	17903.7	17449.0
67.5°	16362.6	16140.5	16774.3	16714.9	17294.5	18379.8	20004.8	18778.1	16875.6	16287.9
70°	14980.3	14125.3	13843.7	13869.3	14312.7	15986.8	18991.1	16675.0	14930.1	14243.1
72.5°	12464.5	10413.5	9718.3	10511.9	10627.6	12286.3	16184.4	12557.6	11010.5	10366.4
75°	10025.4	7340.7	6210.3	7047.8	7244.4	8991.3	12519.8	7820.9	6431.4	5929.7
77.5°	7202.4	5269.2	4456.2	4397.8	4651.8	5702.4	8883.7	3936.1	3282.8	3063.7
80°	4091.7	3468.1	3734.3	3523.4	3651.4	3565.4	4220.7	1726.3	1414.1	1322.0
82.5°	2469.7	2050.0	2219.9	1848.2	2338.7	2036.6	1626.0	553.0	480.2	456.6
85°	1606.5	1120.2	583.6	391.2	805.9	1301.5	363.5	150.5	115.7	92.1
87.5°	554.0	285.7	28.7	12.3	86.0	242.7	13.3	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)