

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: P382862

Luminaire Tested: **GLEON-SA2B-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382862
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-SA2B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 8074.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

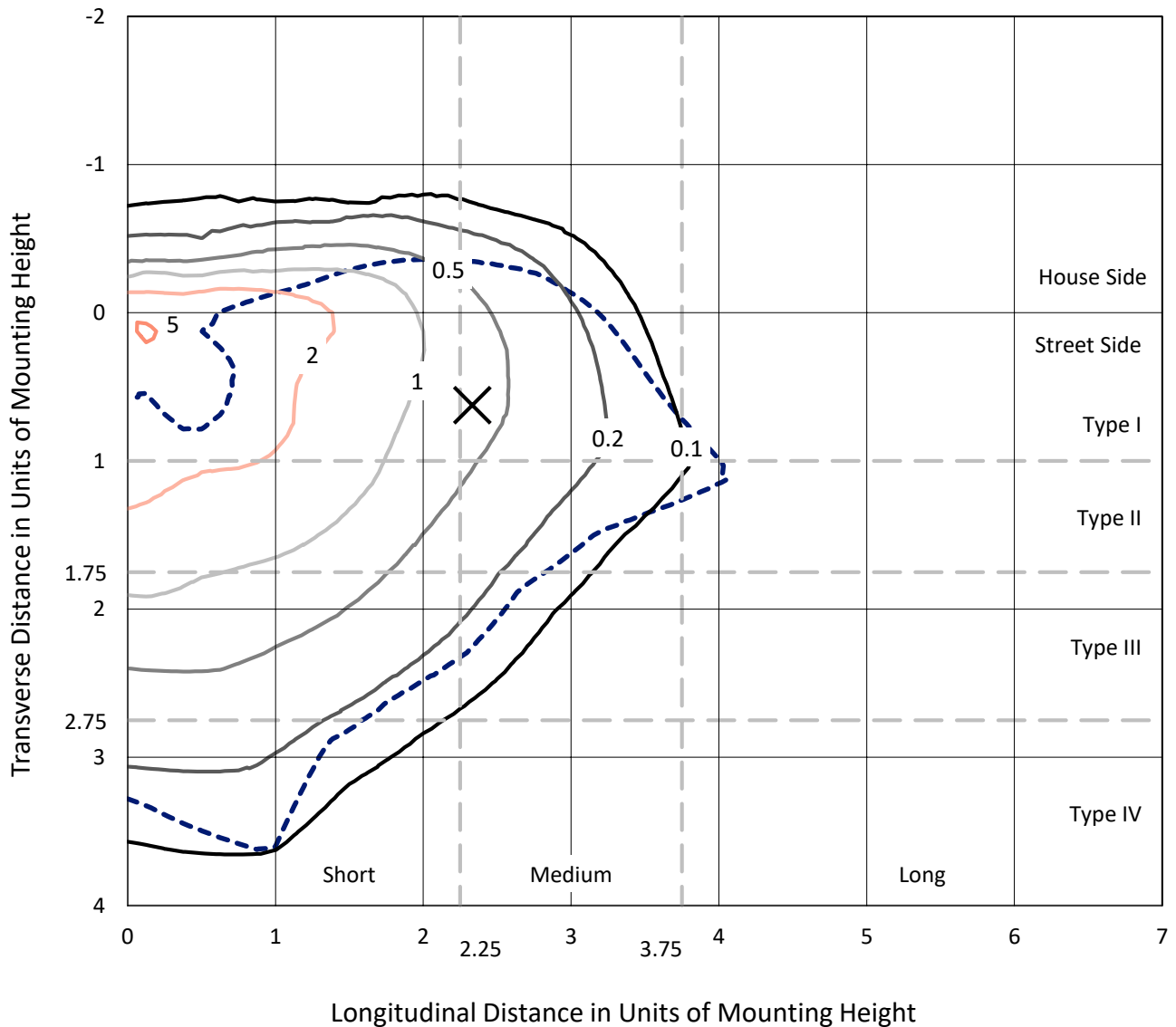
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

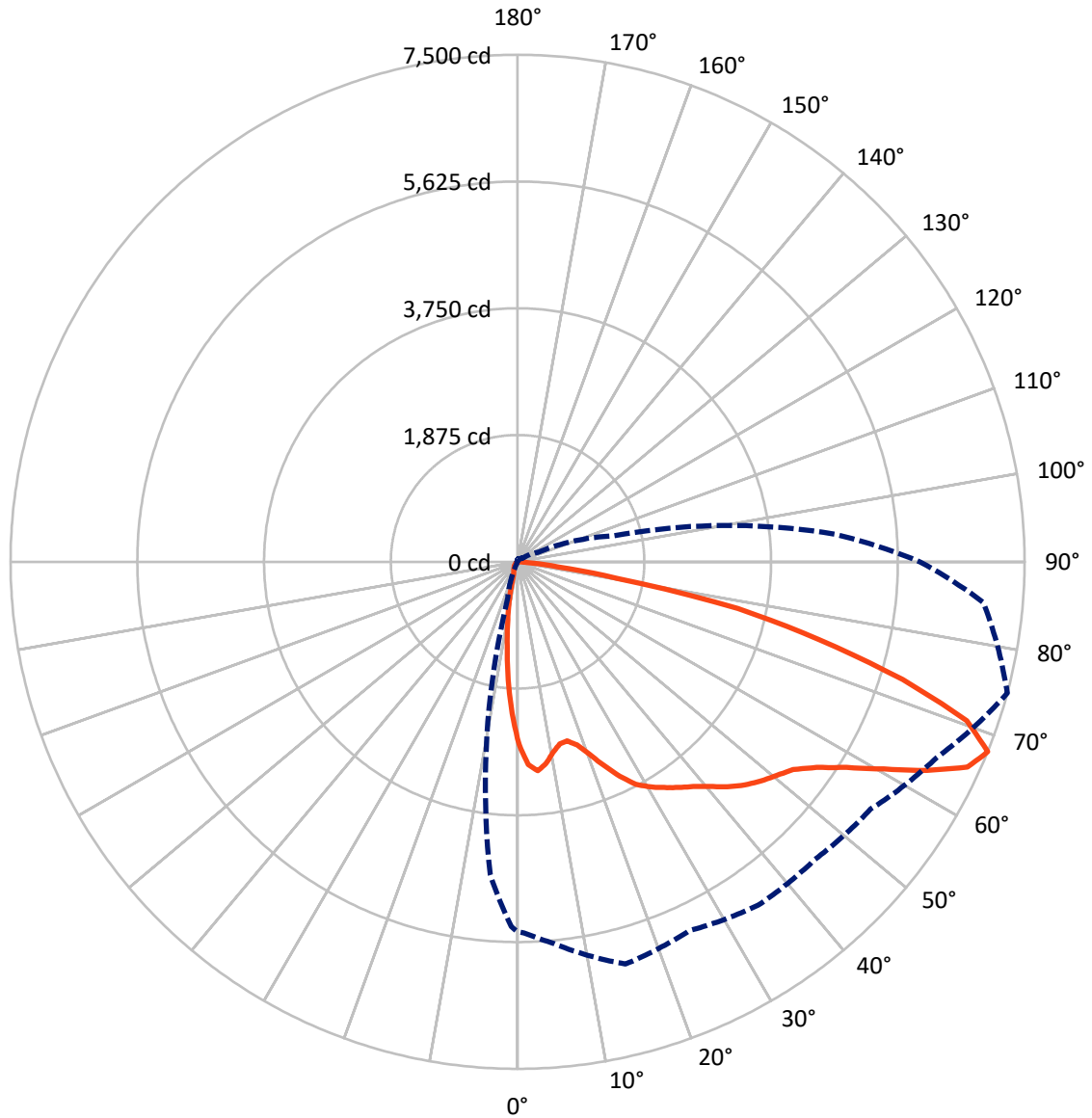
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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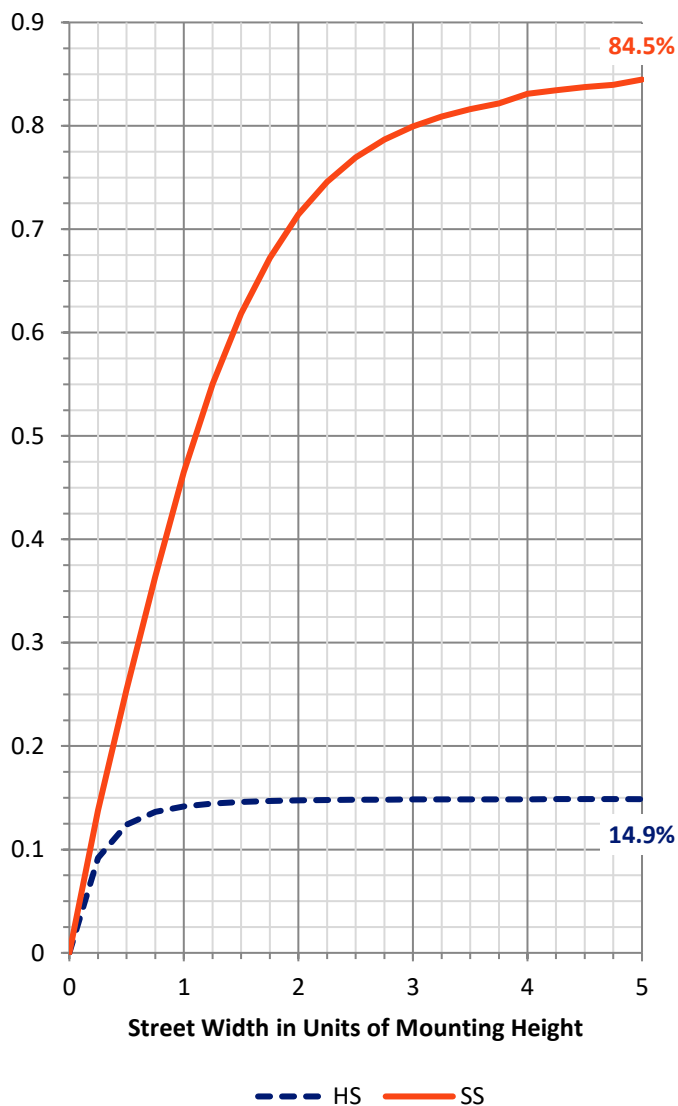
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1211.7	0.0	1211.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6863.0	0.0	6863.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	8074.7	0.0	8074.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	2.5
10°-20°	404.6	5.0
20°-30°	572.4	7.1
30°-40°	841.6	10.4
40°-50°	1209.6	15.0
50°-60°	1702.8	21.1
60°-70°	1988.8	24.6
70°-80°	1014.6	12.6
80°-90°	134.8	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°	8074.7	100.0
0°-180°	8074.7	100.0

Coefficient of Utilization

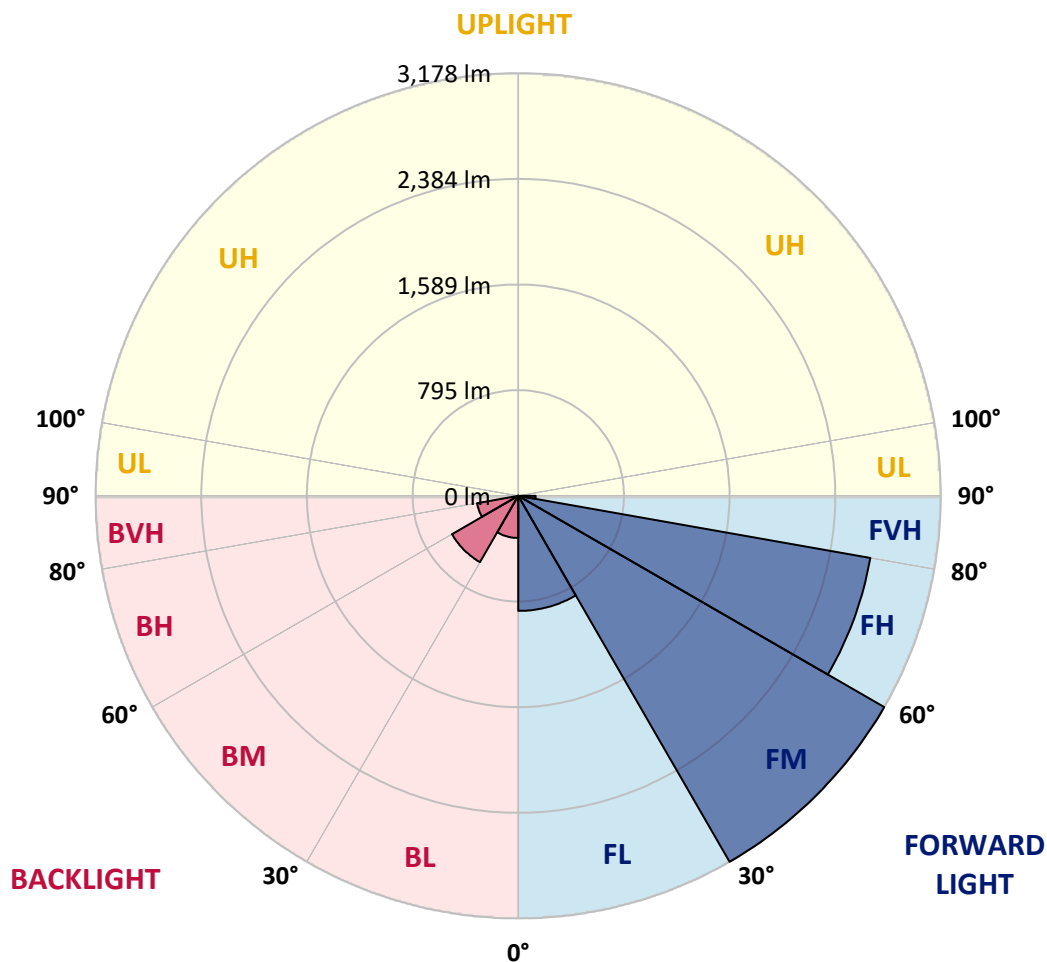


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	865.6	10.7			
FM (30°-60°)	3178.0	39.4			
FH (60°-80°)	2688.6	33.3			G2/5000
FVH (80°-90°)	130.7	1.6			G2/225
BL (0°-30°)	316.9	3.9	B1/500		
BM (30°-60°)	576.0	7.1	B1/1000		
BH (60°-80°)	314.7	3.9	B1/500		G1/500
BVH (80°-90°)	4.1	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°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2936.5	2941.1	2964.8	3019.9	3080.0	3084.5	3125.1	3083.4	3069.3	3001.9	2932.3
5°	2958.7	2976.3	3057.7	3219.5	3359.9	3405.1	3437.2	3355.3	3269.3	3104.8	2929.3
7.5°	2780.0	2809.5	2937.6	3241.3	3492.3	3603.2	3624.3	3496.1	3285.4	3014.5	2750.6
10°	2551.3	2585.0	2739.5	3112.9	3457.4	3647.6	3676.6	3508.8	3205.8	2868.4	2557.5
12.5°	2366.2	2405.5	2563.5	2968.3	3337.7	3548.2	3605.5	3466.3	3136.9	2764.7	2425.5
15°	2280.9	2326.0	2492.0	2874.9	3205.0	3370.6	3418.0	3358.0	3098.7	2748.3	2394.9
17.5°	2329.8	2378.8	2550.2	2883.0	3080.3	3151.1	3189.3	3213.8	3098.7	2847.4	2484.3
20°	2530.6	2583.5	2764.7	2964.5	2977.0	2950.7	2991.6	3077.6	3134.7	3035.5	2699.3
22.5°	2808.3	2870.3	3074.9	3104.0	2926.5	2826.7	2832.1	2967.1	3200.1	3274.3	2997.7
25°	3146.9	3222.6	3430.7	3312.1	2947.6	2752.9	2751.0	2876.1	3264.0	3513.3	3330.1
27.5°	3483.1	3566.5	3749.3	3566.2	3034.4	2739.5	2735.7	2848.5	3326.3	3726.0	3693.1
30°	3765.0	3846.1	4003.7	3750.1	3128.1	2770.9	2752.5	2878.0	3363.4	3864.1	3957.8
32.5°	3994.5	4059.5	4186.9	3876.7	3228.4	2831.7	2791.9	2956.7	3426.5	3980.8	4201.1
35°	4246.9	4315.4	4366.3	3997.2	3340.8	2919.3	2862.3	3081.8	3523.7	4099.3	4467.7
37.5°	4535.0	4603.1	4597.0	4107.4	3483.5	3064.2	3027.9	3280.0	3674.8	4216.7	4765.2
40°	4816.9	4886.5	4836.8	4227.8	3651.0	3303.4	3276.5	3577.6	3877.1	4367.1	5114.1
42.5°	5080.8	5156.2	5049.8	4341.9	3850.6	3604.7	3650.6	3960.8	4130.3	4552.2	5414.7
45°	5293.5	5370.4	5228.5	4452.8	4061.1	3970.4	4108.5	4385.4	4434.8	4708.7	5617.9
47.5°	5448.1	5520.7	5352.4	4563.7	4330.4	4417.6	4658.2	4830.6	4709.8	4844.4	5762.1
50°	5546.7	5603.4	5388.7	4702.5	4683.8	4939.3	5230.7	5314.9	4968.8	4966.8	5937.2
52.5°	5609.4	5635.1	5415.6	4847.5	5052.5	5507.3	5791.5	5817.9	5235.4	5101.5	6173.3
55°	5825.5	5846.2	5605.2	5023.1	5357.4	6004.9	6298.8	6274.3	5537.1	5365.1	6451.7
57.5°	6194.3	6216.1	5997.3	5275.5	5604.1	6312.5	6666.3	6710.3	5891.0	5735.3	6750.1
60°	6379.4	6419.9	6342.0	5595.3	5843.1	6509.1	6916.8	7057.2	6333.1	6223.4	7039.2
62.5°	6211.6	6270.4	6383.6	5949.9	6080.7	6617.3	6994.9	7181.6	6786.0	6792.2	7217.5
65°	5876.5	5923.5	6115.5	6144.2	6218.4	6603.9	6802.1	7007.9	7063.4	7314.7	7207.9
67.5°	5471.7	5489.3	5652.3	6159.5	6018.7	6201.6	6223.0	6375.2	6844.2	7499.8	6918.4
70°	4889.2	4898.7	5041.1	5647.3	5172.2	5212.4	5180.7	5211.6	5884.1	7048.8	6187.4
72.5°	3934.9	3959.0	4161.3	4689.9	3768.1	3652.1	3901.6	3887.8	4531.5	5955.2	4595.4
75°	2897.1	2938.8	3244.4	3777.6	2644.7	2392.2	2574.2	2622.9	3221.5	4606.5	2873.7
77.5°	2028.4	2059.4	2355.5	2777.0	1914.1	1710.6	1644.7	1702.5	2126.4	3332.4	1447.8
80°	1168.5	1180.0	1369.0	1603.5	1289.8	1475.7	1336.9	1376.6	1274.2	1482.6	622.7
82.5°	764.6	766.6	840.3	954.4	803.3	933.3	690.8	883.2	783.7	595.5	202.7
85°	413.1	415.4	487.3	677.4	454.8	257.0	151.1	310.2	484.6	136.6	55.4
87.5°	45.6	41.7	146.9	246.3	126.2	23.3	8.0	34.8	77.7	8.8	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°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2896.7	2865.0	2785.8	2702.0	2634.7	2571.6	2508.1	2430.4	2370.4	2358.1	2338.3
5°	2834.8	2734.2	2568.2	2401.3	2267.1	2097.7	1990.2	1906.4	1824.5	1819.6	1803.1
7.5°	2618.3	2485.9	2252.2	2021.6	1832.5	1671.2	1508.2	1399.2	1313.5	1283.3	1265.3
10°	2410.2	2261.3	1969.5	1706.3	1537.7	1395.0	1280.2	1166.3	1063.0	991.8	959.7
12.5°	2264.8	2100.4	1778.7	1551.9	1431.0	1295.5	1155.6	1013.2	894.3	808.6	756.2
15°	2208.6	2033.0	1714.8	1490.7	1341.4	1170.1	991.1	828.5	696.5	618.9	571.9
17.5°	2275.5	2071.3	1709.8	1416.0	1207.6	994.5	796.8	604.8	480.4	421.5	391.3
20°	2445.4	2192.9	1707.9	1324.7	1048.5	786.4	539.7	397.8	322.4	289.5	275.4
22.5°	2685.6	2348.2	1723.2	1234.4	882.8	561.9	372.5	292.2	253.6	236.0	227.9
25°	2994.6	2566.2	1766.4	1152.5	727.2	419.2	290.4	244.8	217.6	203.9	198.1
27.5°	3323.9	2817.2	1833.8	1081.3	600.6	334.3	248.6	209.6	190.1	180.5	175.2
30°	3595.6	3107.8	1901.8	1002.2	508.7	291.5	227.6	191.2	168.7	162.6	157.6
32.5°	3833.1	3327.8	1950.0	930.6	448.6	259.0	205.8	170.9	155.7	143.8	138.4
35°	4079.1	3511.0	1948.5	880.5	407.4	234.5	187.4	153.0	134.6	120.9	116.6
37.5°	4345.3	3718.0	1915.2	837.6	389.4	215.0	177.1	143.5	125.1	111.3	105.9
40°	4657.0	3935.2	1881.2	797.5	384.4	199.3	169.8	135.8	116.3	102.9	97.5
42.5°	4960.7	4131.0	1851.4	767.7	363.0	198.9	163.3	130.0	109.4	96.4	90.3
45°	5203.6	4313.5	1845.6	749.7	340.4	205.8	159.9	126.2	104.1	91.0	85.3
47.5°	5405.6	4511.7	1882.3	737.1	319.1	187.8	168.3	123.5	99.0	86.4	79.9
50°	5645.8	4754.9	1968.7	716.5	296.4	169.1	192.7	124.3	94.8	81.9	75.0
52.5°	5980.9	5091.6	2095.8	681.6	265.5	151.8	189.8	125.1	90.3	76.9	70.0
55°	6356.5	5511.9	2232.3	623.9	222.3	129.3	162.6	119.7	81.5	71.5	65.0
57.5°	6751.2	5893.2	2313.4	555.0	176.7	111.7	130.0	109.0	71.9	64.3	60.1
60°	6813.2	6038.2	2276.3	470.5	140.4	97.2	96.4	110.9	64.3	56.6	53.6
62.5°	6659.1	5856.2	2096.9	395.2	117.5	85.3	79.2	96.8	58.1	50.5	47.4
65°	6362.6	5363.9	1806.2	356.1	109.0	73.0	65.8	68.1	50.9	44.0	41.3
67.5°	5950.3	4706.7	1482.9	334.0	107.9	62.7	56.3	51.6	44.0	38.3	36.0
70°	5107.2	3921.1	1183.1	321.7	104.8	52.8	47.4	42.1	36.7	32.5	30.6
72.5°	3758.9	2778.5	920.3	308.3	105.5	42.1	41.3	34.8	29.4	25.2	24.5
75°	2171.9	1587.4	603.5	249.7	100.6	32.5	34.5	24.5	20.7	17.6	17.6
77.5°	1157.4	968.2	229.9	104.1	36.7	20.7	19.5	14.5	13.0	10.7	10.3
80°	504.5	426.1	69.2	29.1	20.3	11.1	7.3	6.5	5.8	4.6	4.2
82.5°	178.7	154.2	22.5	14.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.5	29.1	0.0	3.4	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°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2297.8	2289.3	2239.5	2241.5	2250.2	2262.9	2233.1	2246.8	2284.0	2319.6	2332.9
5°	1776.7	1778.7	1748.4	1767.1	1784.0	1795.5	1747.3	1748.0	1777.5	1817.6	1838.7
7.5°	1251.9	1248.9	1250.4	1295.1	1326.9	1304.0	1322.0	1259.6	1263.5	1292.1	1270.7
10°	930.6	888.6	864.8	898.5	933.3	920.6	889.7	869.4	883.6	915.3	913.0
12.5°	731.4	670.9	635.3	611.3	640.0	616.2	615.5	597.9	578.8	582.2	633.1
15°	550.1	506.0	464.0	425.3	424.6	416.6	375.6	329.7	325.9	328.2	354.5
17.5°	378.3	363.4	346.2	312.9	304.1	270.4	230.7	212.3	203.1	207.4	216.1
20°	265.9	260.1	262.0	244.1	231.4	199.3	176.0	168.7	167.1	171.4	175.6
22.5°	220.3	210.0	208.9	200.8	188.2	164.9	152.2	148.0	146.2	150.0	153.0
25°	192.7	182.5	178.2	173.3	159.9	143.8	136.2	132.4	130.4	132.7	134.6
27.5°	169.8	160.2	156.4	153.0	140.0	128.6	122.4	119.0	117.5	118.2	120.1
30°	152.6	144.2	139.3	135.0	123.9	115.9	110.6	107.1	105.5	105.5	107.5
32.5°	134.6	130.0	125.5	120.1	109.7	104.4	99.0	95.2	93.7	94.1	95.7
35°	112.1	110.6	111.7	106.8	97.9	93.3	87.9	83.7	82.6	83.0	84.5
37.5°	99.5	92.6	96.8	94.1	89.1	83.0	76.1	72.3	70.4	71.5	72.3
40°	91.4	83.0	79.9	82.6	81.9	71.9	65.8	61.9	60.5	60.8	61.6
42.5°	84.5	74.6	67.7	67.4	71.9	62.7	56.3	52.8	50.9	50.9	51.6
45°	78.1	67.4	58.9	52.4	60.5	53.2	47.0	44.0	41.7	41.7	42.1
47.5°	73.0	61.2	51.2	42.9	45.6	43.6	38.7	35.6	33.3	33.3	33.6
50°	68.5	55.1	44.3	36.0	34.0	36.0	31.4	27.9	26.4	26.0	26.7
52.5°	63.5	49.0	37.9	30.6	26.7	27.2	24.5	22.2	20.3	20.3	21.1
55°	58.5	44.0	32.9	26.0	22.2	20.3	19.5	18.0	16.5	16.5	17.2
57.5°	53.6	38.7	27.9	21.4	17.6	16.0	16.0	14.9	13.8	13.8	14.5
60°	49.0	33.3	22.9	17.6	13.8	13.4	13.8	12.7	11.8	11.8	12.7
62.5°	43.6	28.3	18.7	14.5	11.1	10.7	11.8	11.1	10.3	10.3	11.1
65°	37.1	24.1	14.9	11.1	8.4	8.4	10.0	9.2	8.4	8.4	9.2
67.5°	31.4	20.3	11.5	8.0	6.1	6.5	8.4	7.6	7.3	7.3	8.0
70°	26.0	15.6	8.0	4.9	3.4	4.9	6.5	6.5	6.5	6.5	7.3
72.5°	19.5	10.7	4.6	2.0	1.5	3.4	5.3	6.1	5.8	5.8	6.9
75°	12.7	6.1	1.5	0.0	0.0	2.0	4.2	4.9	4.9	4.6	5.8
77.5°	7.3	2.0	0.0	0.0	0.0	0.0	2.7	2.3	2.0	1.5	2.7
80°	2.0	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



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CATALOG NUMBER: GLEON-SA2B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2386.8	2432.0	2495.4	2562.8	2666.5	2748.7	2829.4	2898.6	2925.4	2936.5
5°	1889.2	1955.4	2048.3	2167.6	2354.7	2523.0	2693.6	2865.3	2940.0	2958.7
7.5°	1355.6	1440.2	1558.3	1707.9	1927.1	2145.1	2383.4	2635.4	2751.0	2780.0
10°	1003.3	1106.6	1242.0	1399.6	1608.8	1833.0	2092.7	2380.8	2512.7	2551.3
12.5°	711.9	851.4	1032.8	1224.4	1405.7	1605.8	1868.5	2186.1	2324.5	2366.2
15°	418.1	553.1	767.7	1024.3	1256.6	1459.3	1726.3	2086.2	2238.8	2280.9
17.5°	239.9	307.1	469.3	755.5	1070.6	1351.4	1681.5	2111.1	2290.9	2329.8
20°	183.2	204.7	270.4	486.5	853.4	1245.5	1681.5	2251.8	2473.3	2530.6
22.5°	160.2	176.0	202.7	290.4	628.0	1131.8	1701.0	2455.3	2744.9	2808.3
25°	142.2	156.4	179.4	218.4	428.4	996.8	1747.3	2705.1	3064.6	3146.9
27.5°	127.3	140.8	161.4	191.2	293.0	833.8	1809.6	2998.1	3417.3	3483.1
30°	114.0	126.6	145.3	166.4	226.1	649.1	1862.8	3274.3	3694.2	3765.0
32.5°	101.4	112.8	129.7	145.3	185.1	480.0	1868.5	3493.0	3924.1	3994.5
35°	89.5	99.9	115.1	127.3	153.4	379.0	1779.4	3682.8	4154.1	4246.9
37.5°	78.1	87.9	101.4	110.6	135.0	309.1	1643.2	3894.3	4448.9	4535.0
40°	67.4	76.1	89.9	96.0	127.7	237.5	1495.2	4116.1	4738.1	4816.9
42.5°	57.4	65.8	79.2	91.0	112.1	177.5	1335.4	4324.2	4998.2	5080.8
45°	47.8	56.6	70.0	96.4	93.0	132.7	1164.3	4462.3	5203.6	5293.5
47.5°	38.7	48.5	67.0	91.8	74.2	97.5	1029.0	4593.1	5359.3	5448.1
50°	31.0	40.9	75.4	81.9	60.8	74.6	972.3	4710.2	5461.4	5546.7
52.5°	25.2	34.5	71.2	62.7	50.9	61.6	1002.9	4899.9	5555.9	5609.4
55°	21.1	27.2	42.9	43.6	43.2	52.4	1040.8	5172.2	5800.3	5825.5
57.5°	18.4	21.8	29.8	33.6	36.3	46.7	1041.6	5563.2	6178.6	6194.3
60°	15.6	19.1	24.9	27.2	31.4	41.7	1003.7	5699.8	6327.4	6379.4
62.5°	13.8	16.9	20.7	22.5	26.4	37.4	915.0	5502.0	6123.2	6211.6
65°	12.2	15.3	17.2	19.1	23.3	33.6	768.8	5106.5	5784.3	5876.5
67.5°	10.7	13.4	15.3	17.2	21.1	29.8	566.1	4647.0	5395.2	5471.7
70°	9.6	11.8	13.8	15.3	18.4	25.2	343.5	3943.2	4857.5	4889.2
72.5°	9.2	10.7	12.7	13.8	16.0	22.2	174.0	2897.9	3883.2	3934.9
75°	8.0	9.6	11.5	12.2	14.2	19.1	70.8	1903.3	2814.1	2897.1
77.5°	6.5	8.8	10.3	11.1	12.2	15.6	36.0	1216.4	1974.9	2028.4
80°	2.3	6.5	8.8	9.2	10.3	11.5	23.8	666.0	1145.6	1168.5
82.5°	0.0	4.2	6.9	6.5	7.3	8.8	15.3	316.7	756.2	764.6
85°	0.0	2.0	5.3	4.2	3.1	6.1	5.3	69.2	396.7	413.1
87.5°	0.0	0.0	0.4	2.0	1.5	2.3	0.7	0.4	36.0	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)