

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: P383088

Luminaire Tested: **GLEON-SA4B-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383088
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-SA4B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 15919.2 lumens
Efficiency: N/A
Efficacy: 93.1 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): 171
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

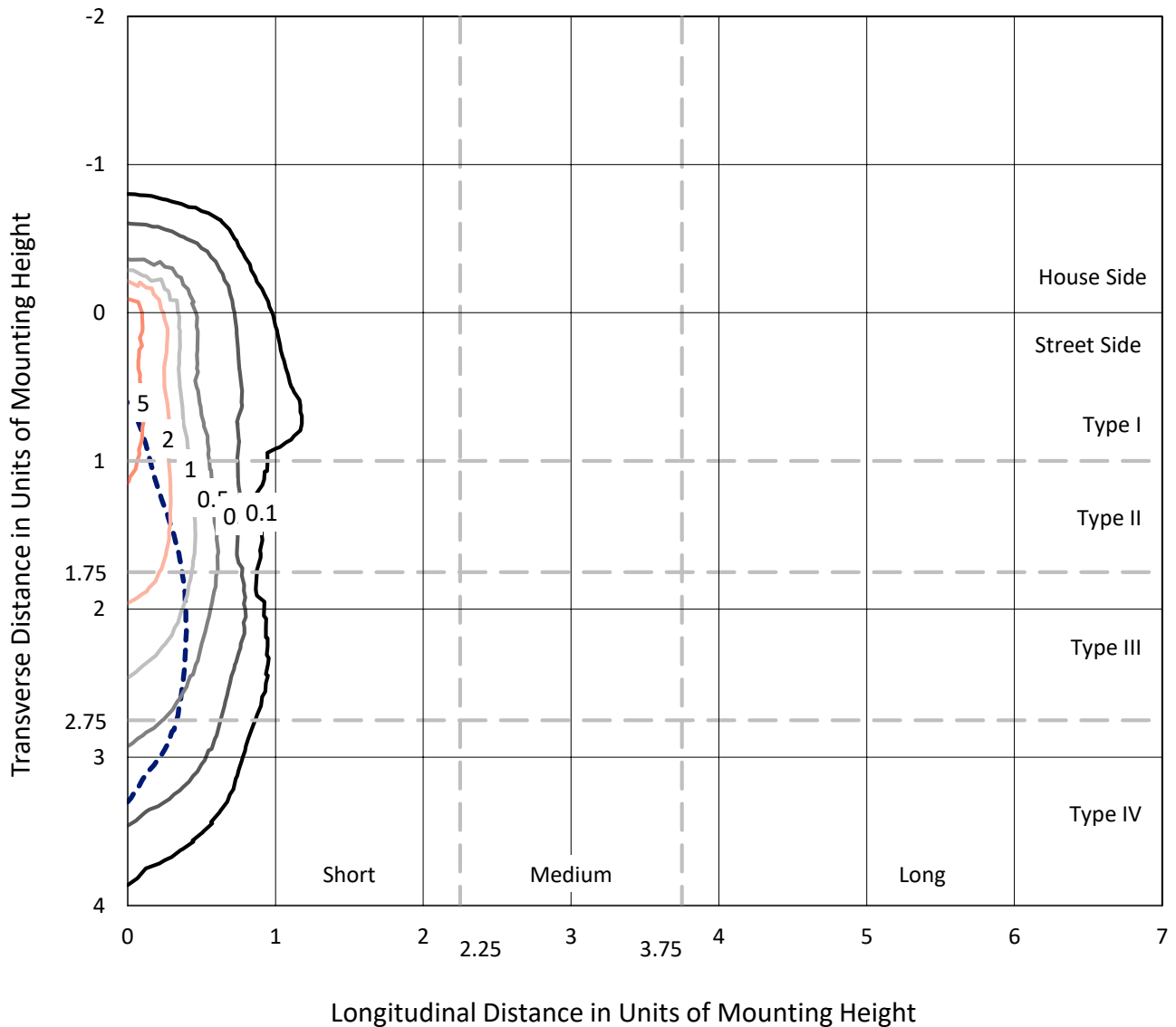




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Iso-Footcandle Lines of Horizontal Illumination

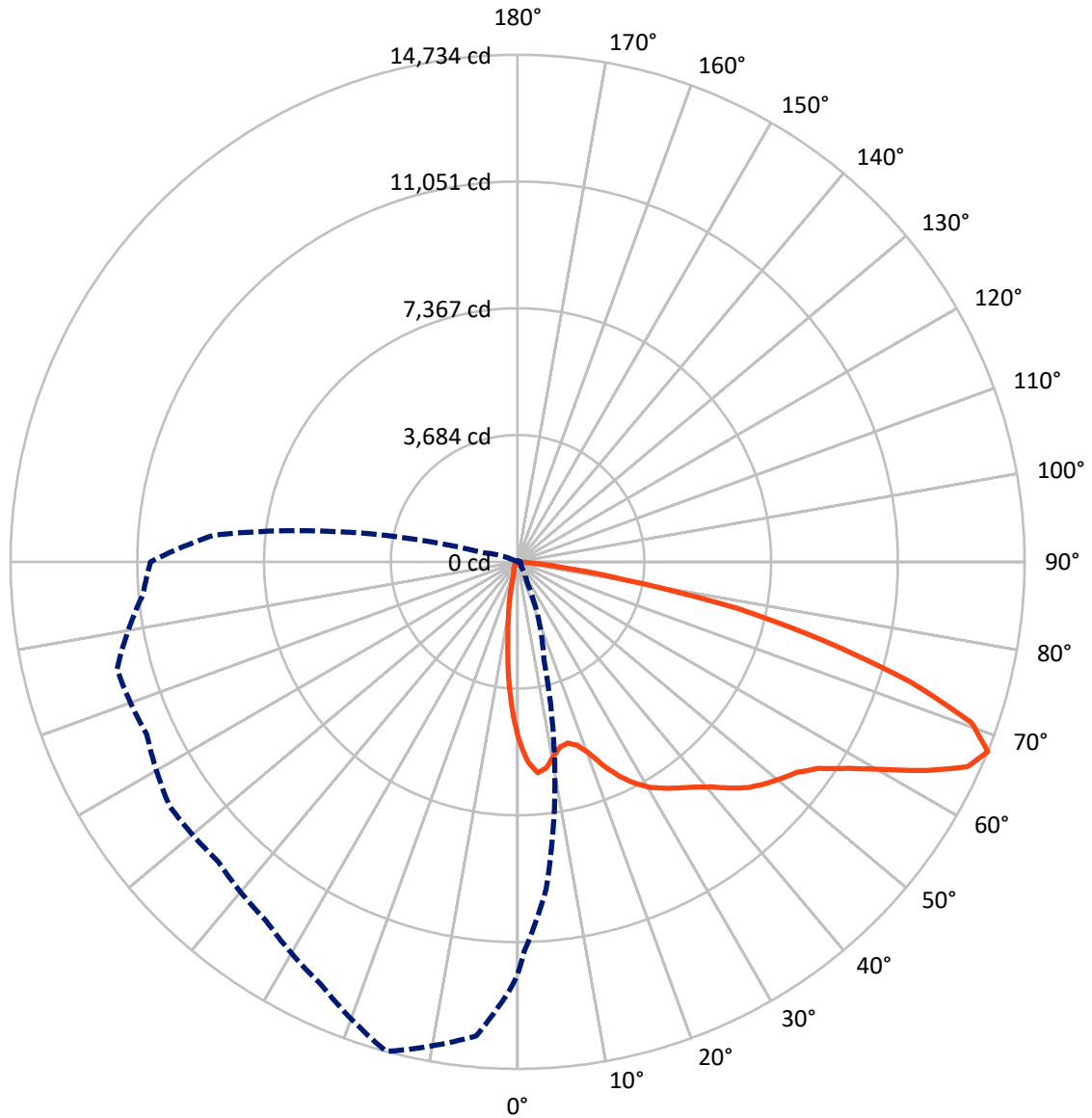
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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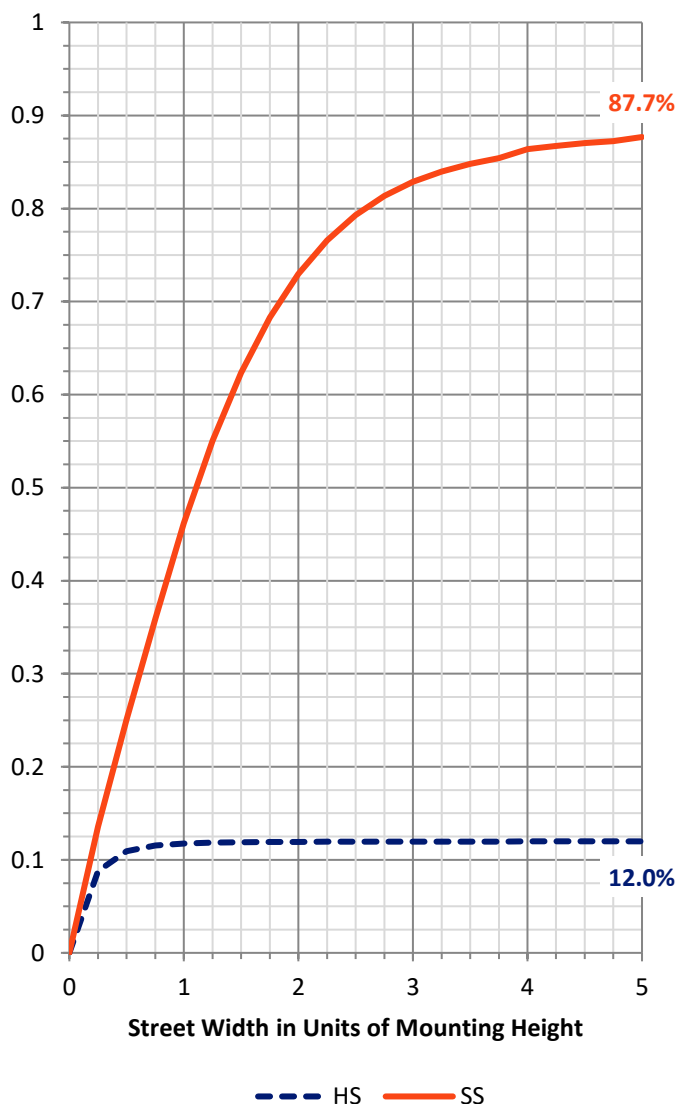
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1926.7	0.0	1926.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13992.5	0.0	13992.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	15919.2	0.0	15919.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	2.5
10°-20°	792.2	5.0
20°-30°	1124.9	7.1
30°-40°	1661.6	10.4
40°-50°	2396.4	15.1
50°-60°	3364.0	21.1
60°-70°	3921.4	24.6
70°-80°	2004.7	12.6
80°-90°	256.0	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°	15919.2	100.0
0°-180°	15919.2	100.0

Coefficient of Utilization



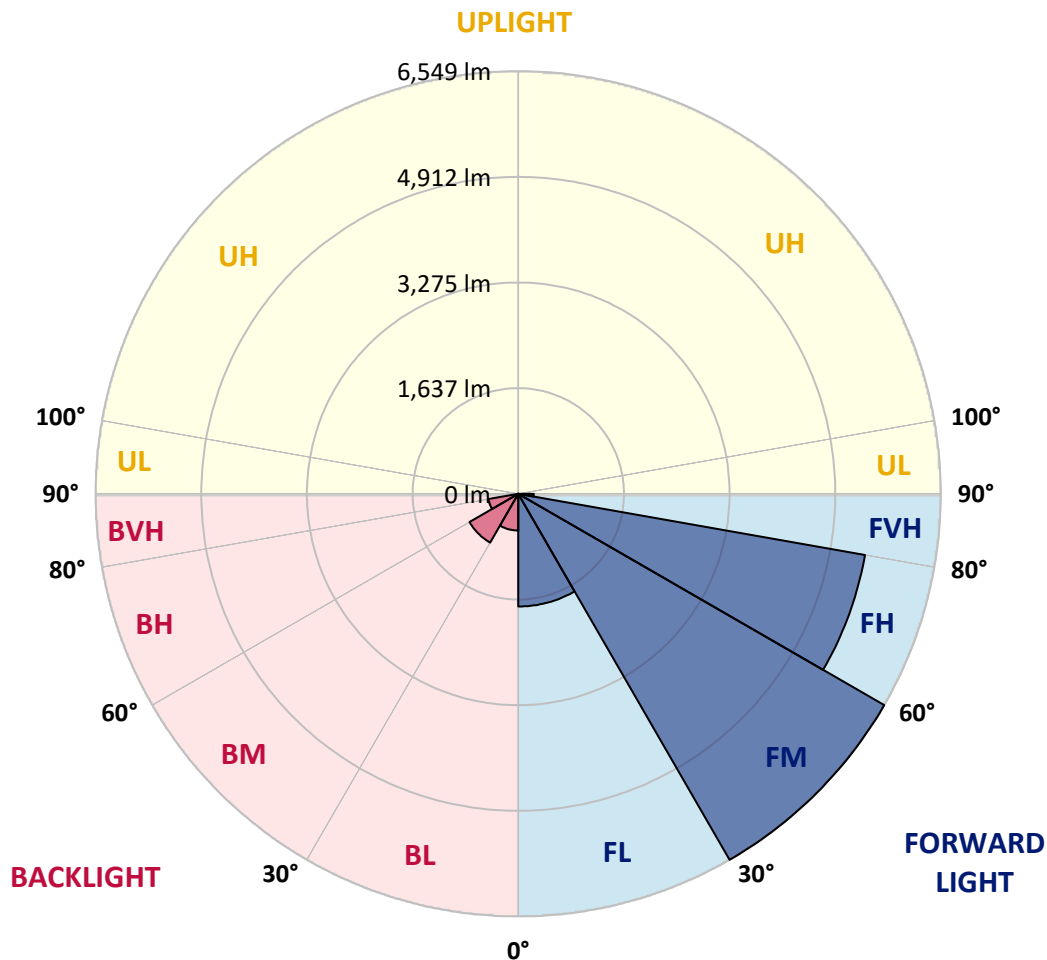
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.0	11.0			
FM (30°-60°)	6549.4	41.1			
FH (60°-80°)	5456.5	34.3			G3/7500
FVH (80°-90°)	240.5	1.5			G3/500
BL (0°-30°)	569.1	3.6	B2/1000		
BM (30°-60°)	872.5	5.5	B1/1000		
BH (60°-80°)	469.6	2.9	B1/500		G1/500
BVH (80°-90°)	15.6	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°	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6
2.5°	5678.2	5634.4	5586.1	5428.5	5282.2	5114.8	4978.3	4883.3	4764.1	4609.5	4570.3
5°	5637.4	5590.7	5439.0	5088.4	4781.4	4482.8	4194.7	4025.8	3816.1	3603.4	3550.6
7.5°	5227.8	5178.8	4960.1	4479.7	4066.5	3635.1	3261.0	3029.5	2792.7	2598.1	2494.8
10°	4801.8	4748.3	4502.4	3919.4	3410.3	3020.4	2745.9	2525.0	2300.9	2092.8	1926.9
12.5°	4508.4	4438.3	4171.3	3510.6	3067.2	2802.5	2546.1	2281.4	1978.1	1754.9	1572.5
15°	4385.4	4305.5	4023.4	3353.0	2945.7	2635.1	2300.9	1975.9	1620.7	1365.0	1197.6
17.5°	4480.5	4376.4	4074.0	3342.5	2793.4	2370.3	1948.1	1566.4	1181.0	922.3	803.2
20°	4803.3	4666.8	4282.9	3339.4	2608.7	2055.8	1520.4	1089.0	778.3	626.0	563.4
22.5°	5311.6	5131.3	4583.1	3363.6	2417.8	1725.5	1098.1	739.8	584.5	505.3	468.4
25°	5925.5	5716.6	5015.2	3448.8	2250.4	1404.2	797.9	584.5	493.3	435.1	404.2
27.5°	6509.2	6339.6	5561.2	3571.7	2120.8	1144.9	647.8	495.5	421.6	383.1	358.3
30°	7092.2	6878.7	6121.6	3718.1	1964.6	969.1	569.4	451.7	377.8	337.1	321.3
32.5°	7516.0	7338.8	6560.5	3823.6	1798.0	854.5	509.1	413.3	353.0	311.5	288.1
35°	8014.6	7813.9	6936.9	3847.0	1690.9	782.0	457.8	371.8	306.2	269.2	244.3
37.5°	8553.0	8303.3	7371.2	3795.7	1607.1	746.6	419.3	353.0	285.8	248.2	221.7
40°	9148.8	8866.7	7788.3	3721.8	1524.9	734.5	389.9	338.6	270.0	231.5	204.4
42.5°	9776.3	9443.7	8149.6	3644.1	1472.9	693.1	386.9	324.3	257.9	216.5	189.3
45°	10303.5	9966.3	8520.6	3618.5	1436.0	647.8	399.7	314.5	249.7	204.4	178.0
47.5°	10723.5	10404.5	8900.7	3675.8	1414.8	606.3	364.2	327.3	245.1	193.9	168.1
50°	11225.1	10863.8	9436.1	3847.0	1383.9	564.9	329.6	374.9	245.1	187.1	159.9
52.5°	11854.0	11496.5	10033.4	4112.5	1322.1	507.6	296.4	375.6	247.3	178.0	149.3
55°	12645.1	12385.7	10886.4	4403.6	1223.2	423.1	256.5	322.8	238.3	161.4	139.5
57.5°	13403.9	13191.9	11663.9	4602.7	1091.3	330.3	223.2	260.2	218.0	141.8	124.5
59°	13611.2	13379.7	11949.1	4611.7	992.5	288.1	206.6	214.9	213.4	132.7	115.4
60°	13611.2	13365.4	12031.2	4563.5	920.8	264.7	196.1	191.5	222.5	126.7	110.1
62.5°	13364.6	13019.2	11764.2	4237.0	751.1	225.5	171.2	158.4	199.8	113.8	97.3
65°	12851.7	12348.8	10854.8	3646.4	669.7	206.6	147.8	129.7	138.8	100.3	85.2
67.5°	11996.6	11314.8	9543.2	2945.7	637.3	201.4	127.4	110.1	104.8	86.0	74.6
70°	10490.4	9734.0	7951.2	2316.0	609.3	199.1	107.1	92.8	84.5	72.4	63.3
72.5°	7635.2	6846.3	5644.9	1810.7	592.7	203.6	86.0	77.7	69.4	56.5	49.0
75°	4367.4	3850.7	3172.8	1196.1	505.3	194.6	66.3	64.8	49.7	40.7	33.9
77.5°	2256.5	2187.8	1901.3	459.3	242.1	85.2	43.8	37.7	29.4	24.9	20.4
80°	973.7	963.0	833.4	132.7	64.1	47.5	24.9	15.8	13.6	10.5	8.3
82.5°	336.4	336.4	296.4	44.5	28.7	23.4	3.0	0.0	0.0	0.0	0.0
85°	67.9	76.2	53.6	0.0	9.8	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°	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6
2.5°	4522.8	4431.5	4425.4	4368.1	4296.5	4264.1	4245.2	4278.4	4319.1	4323.7	4384.7
5°	3510.6	3414.9	3454.8	3353.0	3373.4	3353.0	3319.8	3325.9	3344.0	3287.4	3357.6
7.5°	2465.3	2393.0	2439.0	2411.9	2448.0	2462.4	2442.0	2411.9	2322.8	2312.3	2373.4
10°	1858.3	1776.1	1727.1	1675.8	1687.0	1710.4	1702.9	1681.1	1624.4	1627.5	1686.3
12.5°	1493.3	1401.2	1304.0	1178.0	1147.1	1164.4	1147.1	1134.3	1079.9	1084.5	1136.5
15°	1132.8	1057.3	955.5	854.5	799.5	804.7	756.4	722.5	688.6	647.8	679.5
17.5°	764.7	718.7	688.6	658.4	592.7	577.7	516.6	451.0	425.3	406.5	420.0
20°	541.5	516.6	504.5	503.0	465.3	446.5	386.9	346.2	333.3	329.6	337.9
22.5°	452.5	434.4	417.1	407.3	388.4	366.6	321.3	300.9	291.9	287.4	293.3
25°	393.7	380.1	362.0	345.4	337.9	314.5	282.1	267.0	260.9	256.5	259.4
27.5°	349.9	337.9	316.7	306.2	300.1	279.8	251.9	239.8	234.6	233.1	232.3
30°	315.2	304.0	284.3	272.3	261.7	243.6	227.0	214.9	209.7	208.1	206.6
32.5°	280.6	271.5	258.7	246.6	235.3	218.7	204.4	194.6	186.3	184.7	184.0
35°	236.8	227.8	221.0	220.2	209.7	193.9	183.2	170.5	163.7	161.4	162.2
37.5°	210.4	198.3	183.2	188.5	185.6	174.2	159.9	147.1	140.3	138.8	138.8
40°	193.9	181.0	163.7	154.6	163.7	161.4	138.8	125.9	119.1	118.4	116.9
42.5°	178.0	165.2	145.6	130.5	135.0	141.8	119.9	107.9	101.1	99.6	97.3
45°	166.7	153.1	131.3	113.8	104.8	119.1	102.6	87.5	83.7	80.7	79.2
47.5°	156.1	143.3	118.4	98.8	83.7	86.0	82.2	71.6	67.2	64.1	63.3
50°	147.1	133.5	107.1	84.5	69.4	63.3	66.3	56.5	52.8	49.7	48.3
52.5°	136.5	123.7	95.0	73.1	58.0	49.7	50.5	44.5	40.7	38.5	37.7
55°	128.2	115.4	85.2	64.1	51.3	40.7	36.2	34.7	32.4	30.9	30.2
57.5°	116.9	104.8	75.5	54.3	43.8	33.2	27.9	27.9	27.1	25.6	24.9
59°	110.1	99.6	69.4	49.0	40.0	28.7	24.9	25.6	24.9	23.4	22.6
60°	104.8	95.0	64.8	45.3	37.7	26.4	22.6	24.1	23.4	21.9	21.1
62.5°	92.8	86.0	55.8	37.7	33.2	21.1	18.8	20.4	20.4	19.6	18.8
65°	81.4	73.9	47.5	31.7	30.9	18.1	15.1	18.1	18.8	17.3	15.8
67.5°	70.9	63.3	41.5	25.6	28.7	14.3	11.3	15.1	20.4	15.8	14.3
70°	60.4	52.8	32.4	20.4	30.2	9.8	9.0	13.6	24.1	17.3	13.6
72.5°	46.8	40.7	22.6	15.1	32.4	6.8	6.8	11.3	27.1	18.8	12.9
75°	32.4	26.4	13.6	9.0	26.4	4.6	4.6	10.5	25.6	17.3	12.1
77.5°	18.8	14.3	4.6	0.7	13.6	0.0	0.7	7.5	18.1	10.5	5.3
80°	6.8	3.0	0.0	0.0	8.3	0.0	0.0	0.0	1.5	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°	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6
2.5°	4400.5	4502.4	4593.6	4731.6	4895.3	5083.8	5246.0	5420.2	5583.9	5651.7	5698.5
5°	3371.9	3497.9	3644.9	3847.8	4117.7	4450.4	4761.8	5114.0	5492.6	5681.9	5859.9
7.5°	2383.9	2512.1	2694.6	2910.3	3236.8	3632.8	4040.0	4526.5	5039.4	5338.8	5633.6
10°	1714.2	1871.9	2042.3	2337.2	2669.0	3044.6	3463.9	4006.9	4578.6	4910.4	5265.6
12.5°	1166.7	1346.2	1604.1	1934.5	2324.3	2692.4	3056.7	3574.7	4238.4	4567.2	4948.1
15°	699.9	799.5	1072.4	1454.8	1933.0	2391.5	2790.5	3310.1	4017.5	4420.2	4816.1
17.5°	431.4	477.4	626.0	939.7	1441.9	2021.9	2568.6	3220.3	4049.2	4539.3	4963.2
20°	343.9	362.0	409.5	555.1	955.5	1614.7	2319.1	3202.2	4307.8	4911.1	5365.9
22.5°	298.7	316.0	347.7	403.5	601.0	1209.0	2082.3	3218.8	4678.9	5468.5	5999.4
25°	263.2	278.3	308.4	354.5	440.4	851.4	1828.8	3292.7	5162.3	6160.0	6724.2
27.5°	235.3	248.2	276.0	318.2	377.8	594.3	1541.5	3382.4	5735.4	6867.5	7424.1
30°	209.7	221.0	245.8	285.1	328.1	457.0	1226.3	3443.6	6309.4	7424.1	7924.0
32.5°	187.8	196.1	218.7	251.9	285.1	364.2	932.1	3433.7	6735.5	7887.0	8283.8
35°	165.2	173.5	193.1	221.7	248.2	300.9	733.0	3250.4	7106.5	8367.5	8695.5
37.5°	140.3	150.8	169.7	195.3	213.4	264.7	592.7	3029.5	7482.8	8916.5	9154.9
40°	119.1	129.7	146.3	174.2	185.6	251.1	455.5	2760.3	7906.0	9530.4	9658.7
42.5°	98.8	108.6	125.9	150.1	174.9	216.5	337.1	2452.6	8312.5	10055.3	10117.9
45°	79.9	89.7	107.9	132.0	187.1	179.5	260.9	2123.0	8640.5	10492.0	10512.3
47.5°	63.3	72.4	91.3	124.5	174.2	143.3	186.3	1864.3	8915.7	10832.9	10779.3
50°	49.0	56.5	76.2	142.5	152.3	118.4	141.0	1778.3	9162.4	11044.1	10905.3
52.5°	38.5	45.3	62.6	133.5	118.4	98.0	118.4	1859.0	9500.2	11219.0	10976.1
55°	30.9	37.7	49.0	76.2	80.7	83.0	101.1	1934.5	10083.3	11629.3	11394.7
57.5°	25.6	32.4	40.0	53.6	61.1	70.1	89.7	1942.7	10770.3	12311.1	12089.3
59°	23.4	29.4	36.2	47.5	53.6	64.1	84.5	1897.5	11012.4	12559.1	12448.3
60°	21.9	27.9	33.9	43.8	49.7	60.4	81.4	1854.5	11022.9	12550.1	12601.4
62.5°	18.8	24.9	30.2	37.0	42.2	51.3	73.1	1695.3	10576.4	12139.1	12509.4
65°	16.6	21.9	27.1	31.7	36.2	46.0	66.3	1405.1	9813.9	11476.2	11879.7
67.5°	15.1	18.8	24.9	27.9	32.4	40.7	58.8	1001.5	8861.4	10665.5	10927.1
70°	13.6	18.1	22.6	25.6	29.4	35.5	50.5	575.4	7482.8	9478.4	9664.6
72.5°	12.9	17.3	20.4	24.1	26.4	31.7	46.0	270.7	5479.0	7593.0	8079.4
75°	11.3	15.8	18.8	22.6	24.9	28.7	39.2	129.7	3644.1	5494.8	6047.7
77.5°	6.8	12.9	17.3	20.4	21.9	24.9	32.4	74.6	2325.9	3803.2	4479.7
80°	0.0	4.6	12.9	17.3	18.8	21.1	24.9	58.8	1244.4	2172.7	2607.9
82.5°	0.0	0.0	9.0	13.6	12.9	14.3	18.8	37.0	561.1	1420.1	1600.3
85°	0.0	0.0	3.0	10.5	9.0	6.8	12.9	12.9	123.0	718.7	896.7
87.5°	0.0	0.0	0.0	0.7	4.6	3.0	5.3	1.5	0.7	53.6	217.2
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-SA4B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6	5185.6
2.5°	5862.1	5917.9	6012.2	6056.7	6034.8	5942.1	5831.2	5718.1	5651.7	5678.2
5°	6222.6	6509.9	6675.9	6731.0	6639.0	6430.8	6158.6	5799.5	5672.1	5637.4
7.5°	6222.6	6763.4	7105.8	7166.1	6961.0	6553.0	6042.4	5482.1	5295.8	5227.8
10°	6003.9	6740.0	7217.4	7313.2	7026.6	6416.5	5732.5	5092.9	4871.9	4801.8
12.5°	5757.3	6550.0	7052.9	7184.9	6949.6	6280.7	5517.5	4829.7	4569.5	4508.4
15°	5605.7	6316.2	6732.5	6828.2	6728.7	6201.5	5466.2	4750.5	4444.3	4385.4
17.5°	5660.0	6135.2	6285.2	6341.0	6408.1	6173.6	5605.7	4924.0	4536.4	4480.5
20°	5864.4	5944.4	5866.7	5936.8	6117.8	6200.8	5938.3	5343.3	4878.0	4803.3
22.5°	6211.3	5845.6	5627.6	5655.5	5875.7	6290.6	6446.6	5942.1	5405.1	5311.6
25°	6615.6	5925.5	5494.8	5470.0	5696.2	6409.0	6911.2	6593.7	6028.8	5925.5
27.5°	7123.8	6105.0	5467.7	5442.8	5633.6	6519.8	7297.3	7237.8	6685.7	6509.2
30°	7516.0	6281.4	5548.4	5491.1	5696.2	6596.7	7607.3	7784.5	7209.1	7092.2
32.5°	7797.3	6489.6	5679.6	5596.6	5872.7	6729.4	7846.3	8285.3	7693.3	7516.0
35°	8011.5	6715.9	5891.6	5755.0	6115.5	6930.8	8070.4	8818.5	8208.3	8014.6
37.5°	8212.2	7033.4	6222.6	6059.7	6496.4	7255.1	8307.2	9423.3	8784.6	8553.0
40°	8491.9	7393.1	6733.2	6588.4	7136.7	7697.0	8602.7	10053.8	9439.9	9148.8
42.5°	8771.7	7779.3	7255.8	7295.0	7935.4	8234.0	8984.4	10720.5	10087.0	9776.3
45°	9027.3	8177.4	8000.2	8181.2	8676.7	8823.0	9363.7	11105.9	10603.6	10303.5
47.5°	9255.1	8675.2	8740.1	9221.9	9519.9	9356.2	9647.3	11438.5	10988.3	10723.5
50°	9519.9	9319.2	9715.2	10396.9	10490.4	9838.9	9905.2	11832.1	11437.7	11225.1
52.5°	9809.5	9998.0	10795.1	11396.2	11366.1	10363.0	10164.7	12273.3	12053.9	11854.0
55°	10138.3	10546.2	11746.2	12331.4	12305.7	10948.3	10594.6	12818.6	12826.1	12645.1
57.5°	10626.3	11018.3	12391.7	13087.8	13130.8	11623.9	11323.1	13429.5	13524.5	13403.9
59°	10976.1	11324.5	12647.3	13403.9	13578.8	12146.6	11855.5	13783.9	13721.3	13611.2
60°	11235.6	11519.1	12774.1	13569.0	13839.0	12501.1	12248.5	13992.0	13744.7	13611.2
62.5°	11877.4	11943.0	13002.6	13756.0	14138.4	13288.4	13354.0	14346.5	13582.5	13364.6
65°	12176.8	12210.7	12999.6	13421.2	13848.8	13901.6	14357.1	14357.1	13186.6	12851.7
67.5°	12051.6	11887.9	12354.7	12311.1	12737.9	13537.3	14734.2	13830.7	12429.5	11996.6
70°	11033.4	10403.7	10196.3	10215.2	10541.8	11774.9	13987.6	12281.6	10996.5	10490.4
72.5°	9180.5	7669.9	7157.8	7742.3	7827.5	9049.2	11920.4	9249.1	8109.6	7635.2
75°	7384.1	5406.6	4574.0	5191.0	5335.7	6622.4	9221.2	5760.3	4736.9	4367.4
77.5°	5304.8	3880.9	3282.1	3239.2	3426.1	4200.0	6543.2	2899.0	2417.8	2256.5
80°	3013.6	2554.4	2750.5	2595.1	2689.4	2626.0	3108.7	1271.6	1041.5	973.7
82.5°	1819.0	1509.9	1635.1	1361.3	1722.5	1500.1	1197.6	407.3	353.7	336.4
85°	1183.3	825.1	429.9	288.1	593.5	958.6	267.7	110.9	85.2	67.9
87.5°	408.0	210.4	21.1	9.0	63.3	178.8	9.8	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)