

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: P382974

Luminaire Tested: **GLEON-SA3B-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382974
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-SA3B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12049.6 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

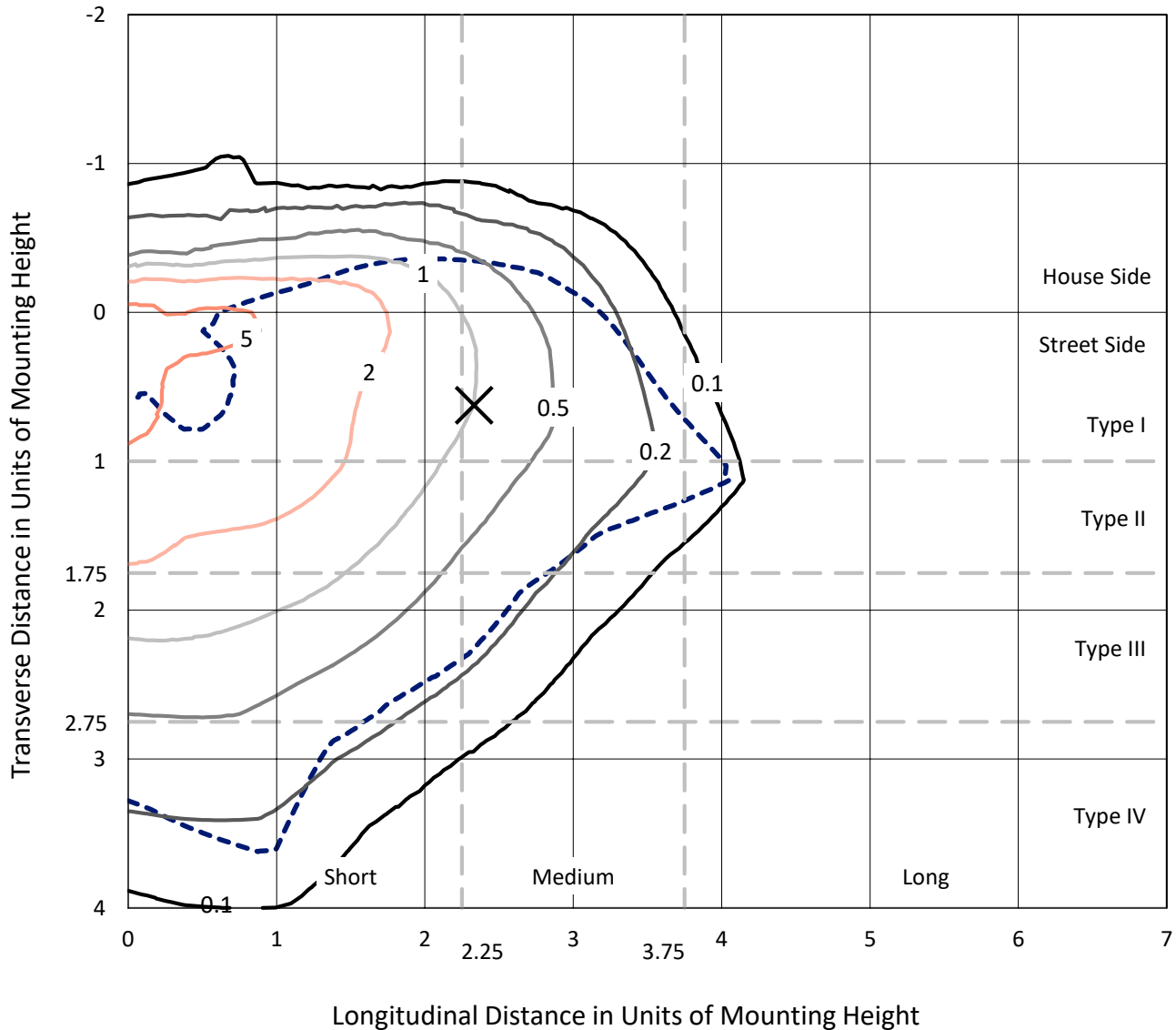
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

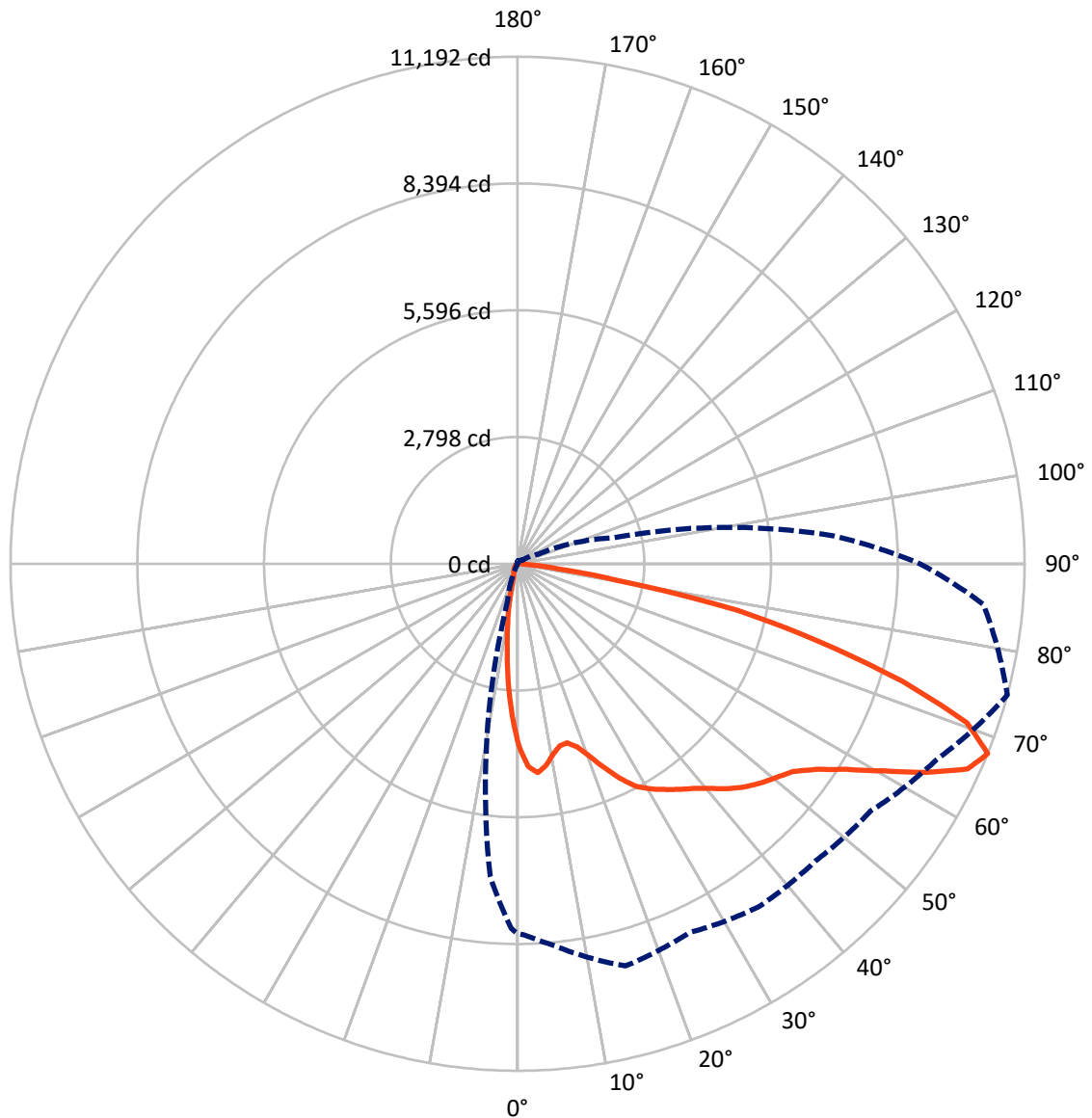
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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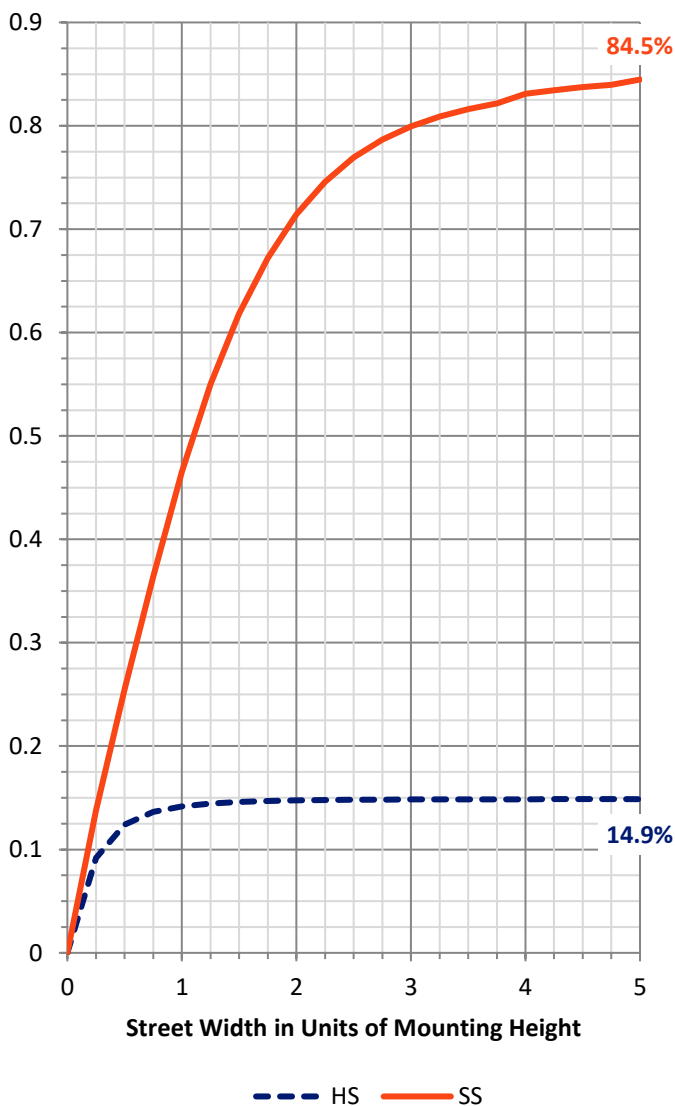
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1808.2	0.0	1808.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10241.4	0.0	10241.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	12049.6	0.0	12049.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	2.5
10°-20°	603.8	5.0
20°-30°	854.2	7.1
30°-40°	1255.9	10.4
40°-50°	1805.1	15.0
50°-60°	2541.1	21.1
60°-70°	2967.8	24.6
70°-80°	1514.1	12.6
80°-90°	201.1	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°	12049.6	100.0
0°-180°	12049.6	100.0

Coefficient of Utilization

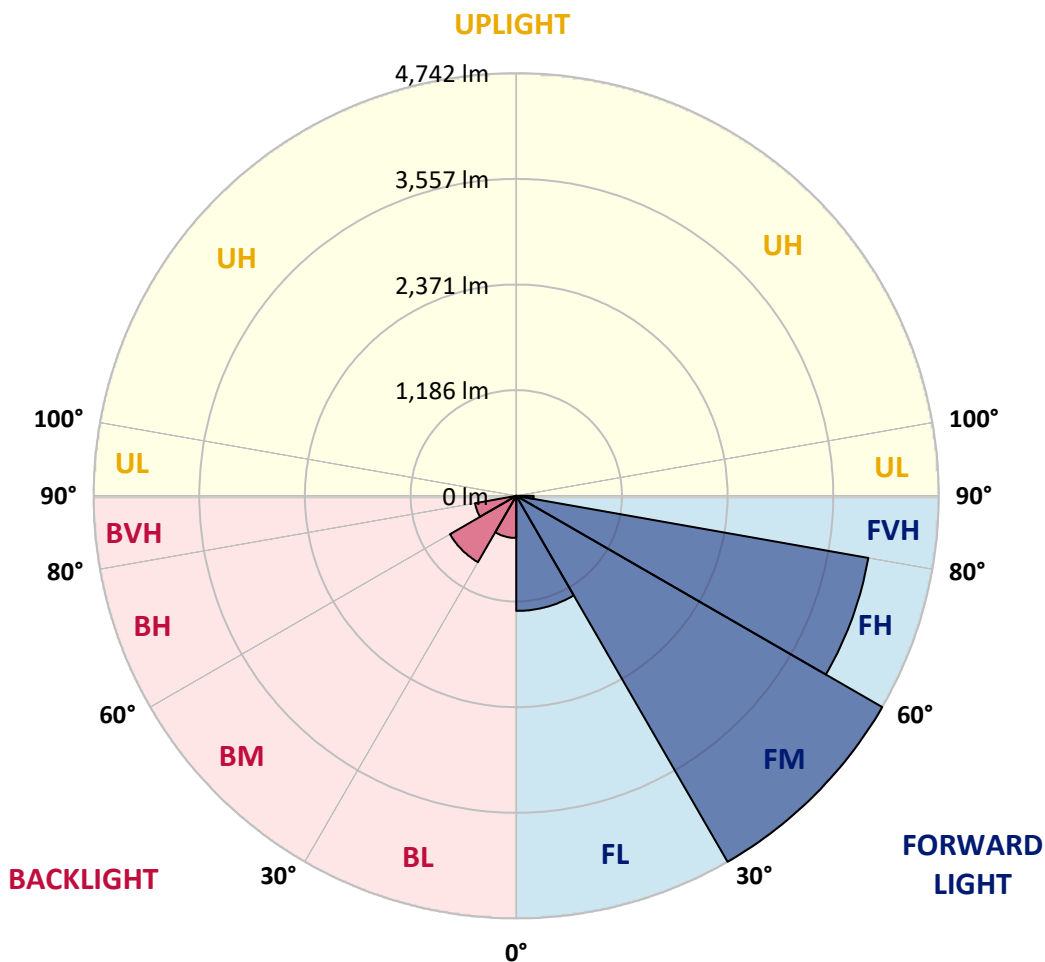


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.7	10.7			
FM (30°-60°)	4742.5	39.4			
FH (60°-80°)	4012.2	33.3			G2/5000
FVH (80°-90°)	195.0	1.6			G2/225
BL (0°-30°)	472.9	3.9	B1/500		
BM (30°-60°)	859.5	7.1	B1/1000		
BH (60°-80°)	469.7	3.9	B1/500		G1/500
BVH (80°-90°)	6.1	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°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	4382.1	4388.9	4424.3	4506.5	4596.1	4603.0	4663.4	4601.3	4580.1	4479.6	4375.8
5°	4415.2	4441.4	4563.0	4804.5	5014.0	5081.3	5129.2	5007.1	4878.6	4633.2	4371.2
7.5°	4148.6	4192.5	4383.8	4837.0	5211.4	5377.0	5408.4	5217.1	4902.6	4498.5	4104.7
10°	3807.2	3857.4	4088.1	4645.2	5159.5	5443.2	5486.5	5235.9	4783.9	4280.5	3816.4
12.5°	3531.0	3589.8	3825.5	4429.4	4980.8	5294.7	5380.3	5172.6	4681.1	4125.7	3619.4
15°	3403.7	3471.0	3718.7	4290.1	4782.8	5029.9	5100.7	5011.1	4624.1	4101.2	3573.8
17.5°	3476.7	3549.8	3805.6	4302.2	4596.6	4702.3	4759.4	4795.9	4624.1	4249.1	3707.4
20°	3776.4	3855.2	4125.7	4423.7	4442.6	4403.1	4464.3	4592.7	4677.8	4529.9	4028.2
22.5°	4190.8	4283.3	4588.7	4632.0	4367.2	4218.2	4226.2	4427.7	4775.3	4886.1	4473.4
25°	4696.0	4809.0	5119.5	4942.6	4398.6	4108.0	4105.2	4291.8	4870.7	5242.8	4969.4
27.5°	5197.8	5322.1	5595.0	5321.6	4528.2	4088.1	4082.4	4250.7	4963.7	5560.2	5511.1
30°	5618.4	5739.5	5974.6	5596.2	4668.0	4134.9	4107.5	4294.7	5019.1	5766.3	5906.1
32.5°	5960.9	6057.9	6248.0	5785.1	4817.6	4225.7	4166.3	4412.3	5113.3	5940.4	6269.1
35°	6337.6	6439.8	6515.7	5964.9	4985.4	4356.4	4271.3	4599.0	5258.2	6117.3	6667.0
37.5°	6767.4	6869.0	6859.9	6129.3	5198.3	4572.7	4518.5	4894.6	5483.7	6292.5	7111.1
40°	7188.1	7292.0	7217.8	6309.1	5448.3	4929.5	4889.5	5338.7	5785.7	6516.8	7631.6
42.5°	7582.0	7694.4	7535.8	6479.2	5746.3	5379.2	5447.8	5910.7	6163.5	6793.1	8080.2
45°	7899.3	8014.1	7802.3	6644.7	6060.2	5924.9	6131.0	6544.2	6617.9	7026.6	8383.4
47.5°	8129.9	8238.4	7987.3	6810.3	6462.1	6592.2	6951.2	7208.7	7028.2	7229.2	8598.6
50°	8277.2	8361.7	8041.5	7017.4	6989.5	7370.8	7805.7	7931.3	7414.7	7411.9	8860.0
52.5°	8370.8	8409.1	8081.5	7233.7	7539.8	8218.4	8642.5	8681.9	7812.6	7612.8	9212.2
55°	8693.3	8724.1	8364.6	7495.8	7994.6	8961.0	9399.4	9362.9	8262.9	8006.1	9627.7
57.5°	9243.6	9276.1	8949.7	7872.5	8362.9	9420.0	9947.9	10013.6	8790.9	8558.6	10072.9
60°	9519.9	9580.3	9463.9	8349.7	8719.6	9713.3	10321.8	10531.3	9450.7	9287.0	10504.5
62.5°	9269.3	9357.2	9526.1	8878.9	9074.0	9874.9	10438.3	10716.8	10126.6	10135.7	10770.5
65°	8769.2	8839.5	9126.0	9168.8	9279.5	9854.9	10150.6	10457.6	10540.5	10915.5	10756.2
67.5°	8165.3	8191.6	8434.8	9191.7	8981.6	9254.5	9286.4	9513.5	10213.4	11191.7	10324.1
70°	7296.0	7310.2	7522.6	8427.3	7718.4	7778.3	7730.9	7777.2	8780.7	10518.8	9233.3
72.5°	5871.8	5907.8	6209.8	6998.6	5623.0	5450.0	5822.2	5801.7	6762.3	8886.9	6857.6
75°	4323.2	4385.4	4841.5	5637.3	3946.5	3569.8	3841.5	3914.0	4807.3	6874.2	4288.5
77.5°	3027.0	3073.2	3515.0	4144.0	2856.3	2552.6	2454.4	2540.6	3173.1	4972.8	2160.4
80°	1743.8	1760.9	2042.9	2392.8	1924.8	2202.2	1994.9	2054.3	1901.4	2212.4	929.3
82.5°	1141.1	1143.8	1254.0	1424.1	1198.7	1392.8	1030.9	1318.0	1169.6	888.7	302.6
85°	616.5	619.9	727.2	1010.9	678.7	383.6	225.4	462.9	723.2	203.8	82.7
87.5°	67.9	62.2	219.2	367.6	188.4	34.8	12.0	52.0	115.9	13.1	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°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	4322.7	4275.3	4157.1	4032.1	3931.7	3837.5	3742.8	3626.9	3537.3	3519.0	3489.3
5°	4230.3	4080.1	3832.4	3583.5	3383.1	3130.3	2969.9	2844.9	2722.7	2715.3	2690.8
7.5°	3907.2	3709.6	3360.9	3016.7	2734.7	2493.8	2250.7	2088.0	1960.2	1915.1	1888.2
10°	3596.6	3374.6	2939.0	2546.4	2294.6	2081.7	1910.5	1740.4	1586.2	1480.1	1432.2
12.5°	3379.7	3134.3	2654.3	2315.7	2135.4	1933.3	1724.4	1512.1	1334.5	1206.6	1128.5
15°	3295.8	3033.8	2558.9	2224.4	2001.8	1746.1	1478.9	1236.3	1039.4	923.5	853.4
17.5°	3395.7	3090.9	2551.5	2113.1	1802.0	1484.0	1189.0	902.5	716.9	629.0	583.9
20°	3649.2	3272.4	2548.6	1976.7	1564.5	1173.6	805.4	593.7	481.1	432.1	411.0
22.5°	4007.6	3504.2	2571.4	1841.9	1317.4	838.5	555.9	436.1	378.5	352.2	340.2
25°	4468.8	3829.5	2636.0	1719.8	1085.1	625.6	433.3	365.4	324.8	304.2	295.7
27.5°	4960.3	4204.0	2736.4	1613.6	896.1	498.8	371.0	312.8	283.7	269.4	261.4
30°	5365.5	4637.8	2838.1	1495.5	759.2	434.9	339.6	285.4	251.7	242.6	235.2
32.5°	5720.0	4966.0	2910.0	1388.8	669.6	386.4	307.1	255.2	232.3	214.6	206.6
35°	6087.0	5239.4	2907.6	1313.9	607.9	349.9	279.7	228.3	200.9	180.3	174.1
37.5°	6484.3	5548.2	2858.0	1250.0	581.1	320.8	264.3	214.1	186.7	166.1	158.1
40°	6949.5	5872.4	2807.2	1190.1	573.6	297.3	253.5	202.6	173.5	153.5	145.6
42.5°	7402.7	6164.7	2762.7	1145.6	541.7	296.8	243.7	194.0	163.2	143.8	134.7
45°	7765.2	6436.9	2754.1	1118.8	508.0	307.1	238.6	188.4	155.3	135.8	127.2
47.5°	8066.6	6732.6	2808.9	1100.0	476.0	280.3	251.1	184.4	147.8	129.0	119.3
50°	8425.0	7095.7	2937.9	1069.1	442.4	252.3	287.7	185.5	141.6	122.1	111.9
52.5°	8925.1	7598.0	3127.4	1017.2	396.1	226.6	283.1	186.7	134.7	114.8	104.4
55°	9485.6	8225.3	3331.2	931.0	331.6	192.9	242.6	178.7	121.6	106.8	97.1
57.5°	10074.7	8794.4	3452.2	828.2	263.7	166.7	194.0	162.6	107.3	95.9	89.6
60°	10167.1	9010.7	3396.9	702.1	209.5	144.9	143.8	165.5	95.9	84.5	79.9
62.5°	9937.1	8739.0	3129.2	589.7	175.2	127.2	118.1	144.4	86.7	75.4	70.8
65°	9494.7	8004.3	2695.3	531.4	162.6	109.0	98.2	101.6	75.9	65.7	61.7
67.5°	8879.4	7023.7	2213.0	498.3	161.0	93.6	83.9	77.0	65.7	57.1	53.7
70°	7621.4	5851.3	1765.5	480.0	156.4	78.8	70.8	62.8	54.8	48.5	45.6
72.5°	5609.3	4146.3	1373.4	460.1	157.5	62.8	61.7	52.0	44.0	37.6	36.5
75°	3241.0	2368.8	900.7	372.7	150.2	48.5	51.3	36.5	30.8	26.3	26.3
77.5°	1727.3	1444.7	343.1	155.3	54.8	30.8	29.2	21.7	19.4	16.0	15.4
80°	752.9	635.9	103.3	43.4	30.3	16.6	10.8	9.7	8.6	6.9	6.2
82.5°	266.6	230.0	33.7	21.1	13.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.6	43.4	0.0	5.1	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°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	3428.8	3416.3	3342.0	3344.9	3358.0	3376.9	3332.3	3352.9	3408.3	3461.4	3481.3
5°	2651.4	2654.3	2609.2	2637.1	2662.3	2679.3	2607.4	2608.6	2652.5	2712.5	2743.9
7.5°	1868.2	1863.7	1866.0	1932.8	1980.1	1945.9	1972.7	1879.7	1885.4	1928.2	1896.2
10°	1388.8	1326.0	1290.6	1340.8	1392.8	1373.9	1327.6	1297.5	1318.5	1365.9	1362.5
12.5°	1091.4	1001.2	948.1	912.2	954.9	919.5	918.4	892.1	863.6	868.8	944.7
15°	820.8	755.2	692.4	634.8	633.5	621.6	560.5	492.0	486.4	489.7	529.1
17.5°	564.5	542.3	516.5	466.9	453.8	403.5	344.2	316.8	303.1	309.4	322.5
20°	396.7	388.2	391.0	364.1	345.3	297.3	262.6	251.7	249.5	255.7	262.0
22.5°	328.7	313.4	311.7	299.7	280.9	246.0	227.2	220.9	218.1	223.8	228.3
25°	287.7	272.3	266.0	258.6	238.6	214.6	203.2	197.5	194.6	198.0	200.9
27.5°	253.5	239.1	233.4	228.3	208.9	191.8	182.7	177.6	175.2	176.3	179.2
30°	227.8	215.2	207.7	201.5	184.9	173.0	165.0	159.9	157.5	157.5	160.4
32.5°	200.9	194.0	187.2	179.2	163.9	155.8	147.8	142.2	139.8	140.4	142.7
35°	167.2	165.0	166.7	159.3	146.2	139.3	131.3	125.0	123.3	123.9	126.1
37.5°	148.4	138.1	144.4	140.4	133.0	123.9	113.6	107.9	105.0	106.8	107.9
40°	136.4	123.9	119.3	123.3	122.1	107.3	98.2	92.5	90.2	90.7	91.9
42.5°	126.1	111.3	101.1	100.4	107.3	93.6	83.9	78.8	75.9	75.9	77.0
45°	116.4	100.4	87.9	78.2	90.2	79.4	70.2	65.7	62.2	62.2	62.8
47.5°	109.0	91.3	76.5	63.9	67.9	65.1	57.7	53.1	49.7	49.7	50.2
50°	102.2	82.2	66.2	53.7	50.8	53.7	46.8	41.6	39.4	38.8	40.0
52.5°	94.7	73.0	56.5	45.6	40.0	40.5	36.5	33.1	30.3	30.3	31.4
55°	87.4	65.7	49.1	38.8	33.1	30.3	29.2	26.8	24.5	24.5	25.7
57.5°	79.9	57.7	41.6	32.0	26.3	23.9	23.9	22.3	20.6	20.6	21.7
60°	73.0	49.7	34.3	26.3	20.6	19.9	20.6	18.8	17.7	17.7	18.8
62.5°	65.1	42.2	27.9	21.7	16.6	16.0	17.7	16.6	15.4	15.4	16.6
65°	55.3	36.0	22.3	16.6	12.6	12.6	14.8	13.7	12.6	12.6	13.7
67.5°	46.8	30.3	17.1	12.0	9.1	9.7	12.6	11.5	10.8	10.8	12.0
70°	38.8	23.4	12.0	7.5	5.1	7.5	9.7	9.7	9.7	9.7	10.8
72.5°	29.2	16.0	6.9	2.9	2.3	5.1	8.0	9.1	8.6	8.6	10.2
75°	18.8	9.1	2.3	0.0	0.0	2.9	6.2	7.5	7.5	6.9	8.6
77.5°	10.8	2.9	0.0	0.0	0.0	0.0	4.0	3.4	2.9	2.3	4.0
80°	2.9	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-SA3B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	3561.8	3629.1	3724.0	3824.4	3979.1	4101.8	4222.2	4325.5	4365.5	4382.1
5°	2819.2	2918.0	3056.7	3234.7	3513.9	3765.0	4019.6	4275.9	4387.2	4415.2
7.5°	2022.9	2149.1	2325.4	2548.6	2875.7	3201.1	3556.6	3932.8	4105.2	4148.6
10°	1497.2	1651.4	1853.4	2088.5	2400.8	2735.3	3122.8	3552.6	3749.6	3807.2
12.5°	1062.2	1270.6	1541.2	1827.1	2097.7	2396.2	2788.4	3262.1	3468.8	3531.0
15°	623.9	825.4	1145.6	1528.6	1875.1	2177.6	2576.0	3113.1	3340.9	3403.7
17.5°	357.9	458.3	700.3	1127.4	1597.7	2016.6	2509.2	3150.2	3418.5	3476.7
20°	273.4	305.4	403.5	726.0	1273.4	1858.5	2509.2	3360.3	3690.8	3776.4
22.5°	239.1	262.6	302.6	433.3	937.2	1689.0	2538.4	3664.0	4096.1	4190.8
25°	212.3	233.4	267.7	325.9	639.3	1487.5	2607.4	4036.7	4573.2	4696.0
27.5°	190.0	210.1	240.9	285.4	437.3	1244.4	2700.5	4473.9	5099.6	5197.8
30°	170.1	188.9	216.9	248.3	337.3	968.6	2779.8	4886.1	5512.8	5618.4
32.5°	151.3	168.4	193.5	216.9	276.3	716.4	2788.4	5212.6	5855.9	5960.9
35°	133.6	149.0	171.8	190.0	228.9	565.6	2655.4	5495.7	6198.9	6337.6
37.5°	116.4	131.3	151.3	165.0	201.5	461.2	2452.2	5811.4	6639.0	6767.4
40°	100.4	113.6	134.1	143.3	190.7	354.5	2231.2	6142.4	7070.5	7188.1
42.5°	85.6	98.2	118.1	135.8	167.2	264.8	1992.7	6452.9	7458.7	7582.0
45°	71.4	84.5	104.4	143.8	138.7	198.0	1737.5	6659.0	7765.2	7899.3
47.5°	57.7	72.5	99.9	137.0	110.8	145.6	1535.5	6854.2	7997.5	8129.9
50°	46.2	61.1	112.4	122.1	90.7	111.3	1451.0	7028.9	8149.9	8277.2
52.5°	37.6	51.3	106.2	93.6	75.9	91.9	1496.6	7312.0	8290.9	8370.8
55°	31.4	40.5	63.9	65.1	64.5	78.2	1553.2	7718.4	8655.7	8693.3
57.5°	27.4	32.5	44.5	50.2	54.2	69.7	1554.3	8301.8	9220.2	9243.6
60°	23.4	28.5	37.1	40.5	46.8	62.2	1497.7	8505.5	9442.3	9519.9
62.5°	20.6	25.2	30.8	33.7	39.4	55.9	1365.4	8210.4	9137.4	9269.3
65°	18.3	22.8	25.7	28.5	34.8	50.2	1147.3	7620.2	8631.7	8769.2
67.5°	16.0	19.9	22.8	25.7	31.4	44.5	844.8	6934.7	8051.2	8165.3
70°	14.3	17.7	20.6	22.8	27.4	37.6	512.5	5884.4	7248.7	7296.0
72.5°	13.7	16.0	18.8	20.6	23.9	33.1	259.7	4324.4	5794.8	5871.8
75°	12.0	14.3	17.1	18.3	21.1	28.5	105.6	2840.3	4199.4	4323.2
77.5°	9.7	13.1	15.4	16.6	18.3	23.4	53.7	1815.1	2947.0	3027.0
80°	3.4	9.7	13.1	13.7	15.4	17.1	35.4	993.8	1709.6	1743.8
82.5°	0.0	6.2	10.2	9.7	10.8	13.1	22.8	472.7	1128.5	1141.1
85°	0.0	2.9	8.0	6.2	4.6	9.1	8.0	103.3	591.9	616.5
87.5°	0.0	0.0	0.6	2.9	2.3	3.4	1.1	0.6	53.7	67.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)