

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: P382948

Luminaire Tested: **GLEON-SA3A-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382948
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-SA3A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 9824.1 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

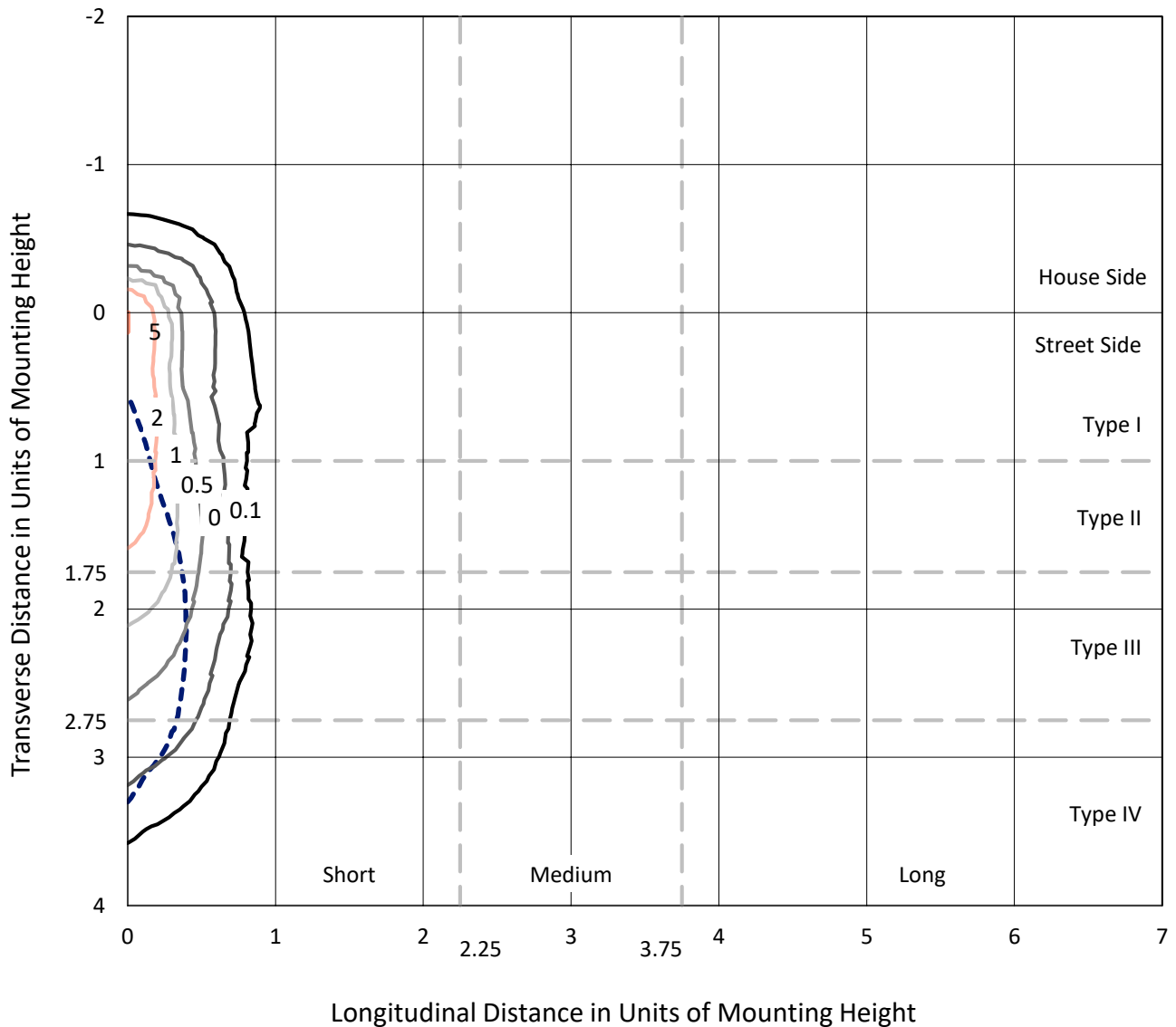




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Iso-Footcandle Lines of Horizontal Illumination

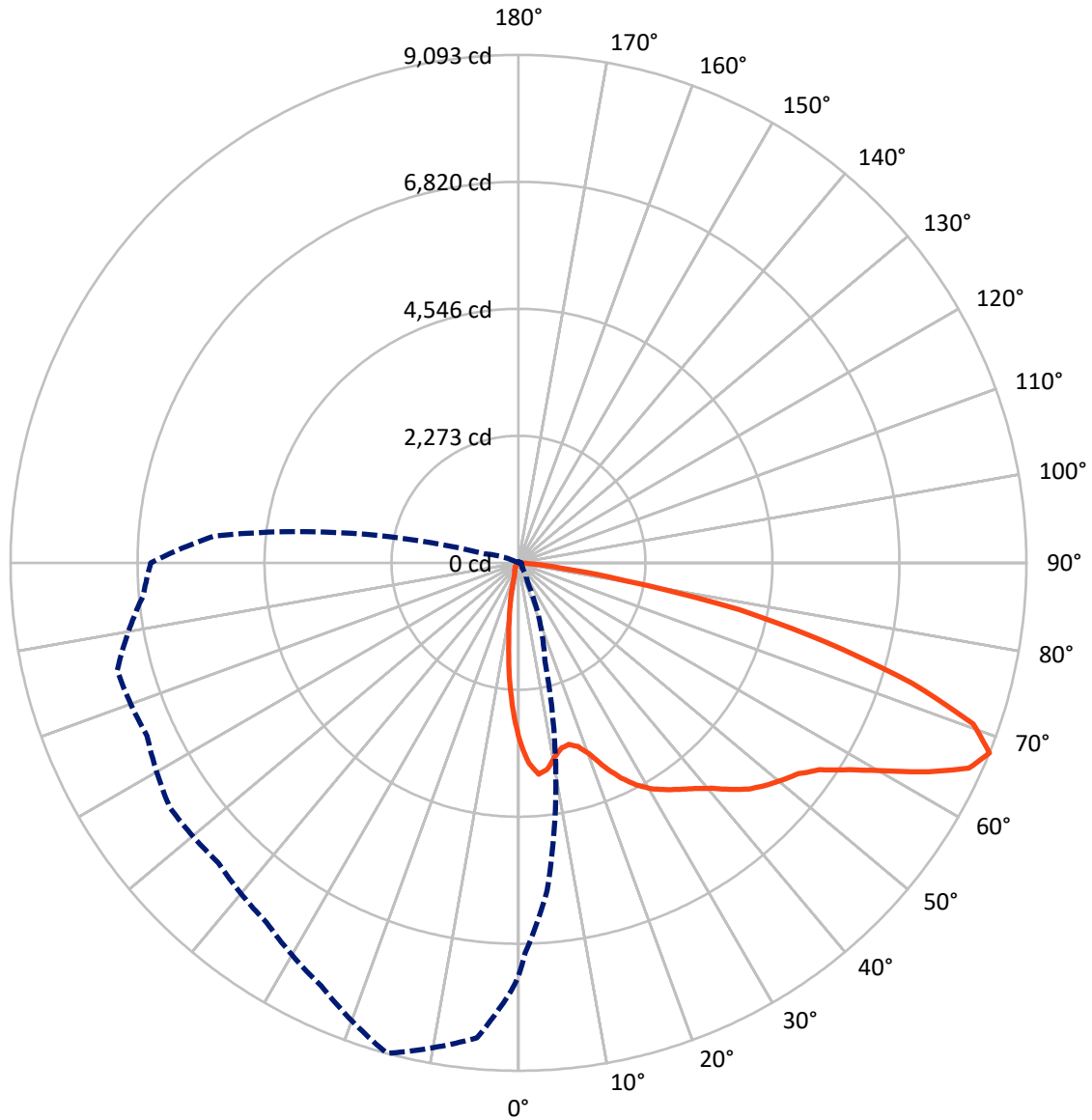
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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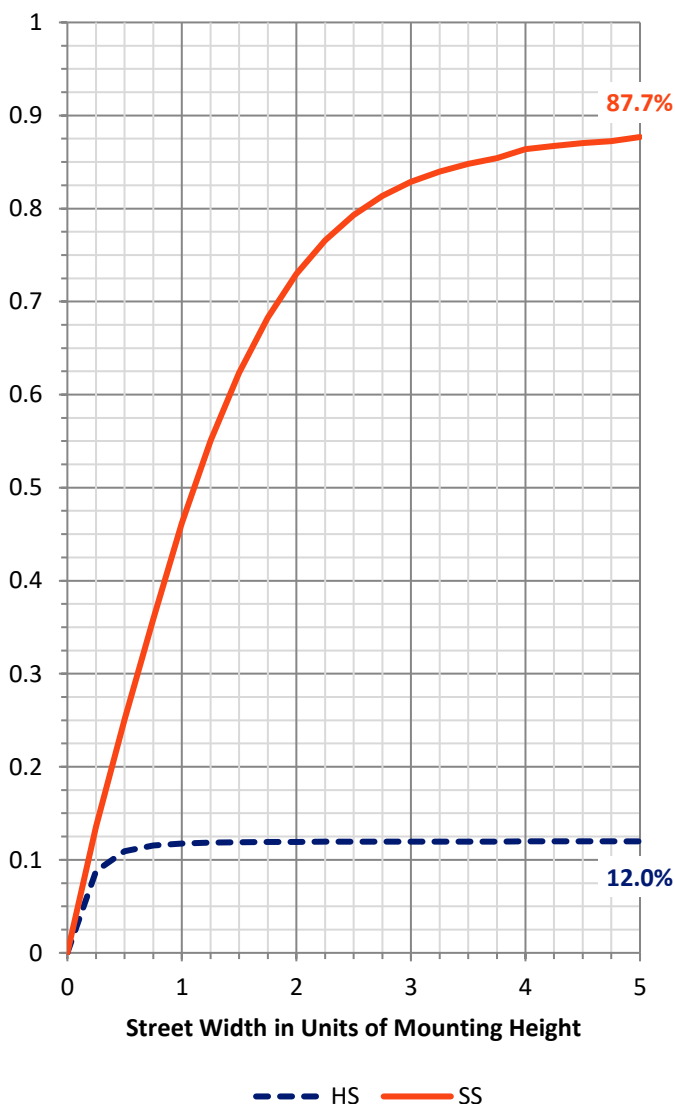
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.1	0.0	1189.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	8635.1	0.0	8635.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	9824.1	0.0	9824.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	2.5
10°-20°	488.9	5.0
20°-30°	694.2	7.1
30°-40°	1025.4	10.4
40°-50°	1478.8	15.1
50°-60°	2076.0	21.1
60°-70°	2420.0	24.6
70°-80°	1237.2	12.6
80°-90°	158.0	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°	9824.1	100.0
0°-180°	9824.1	100.0

Coefficient of Utilization

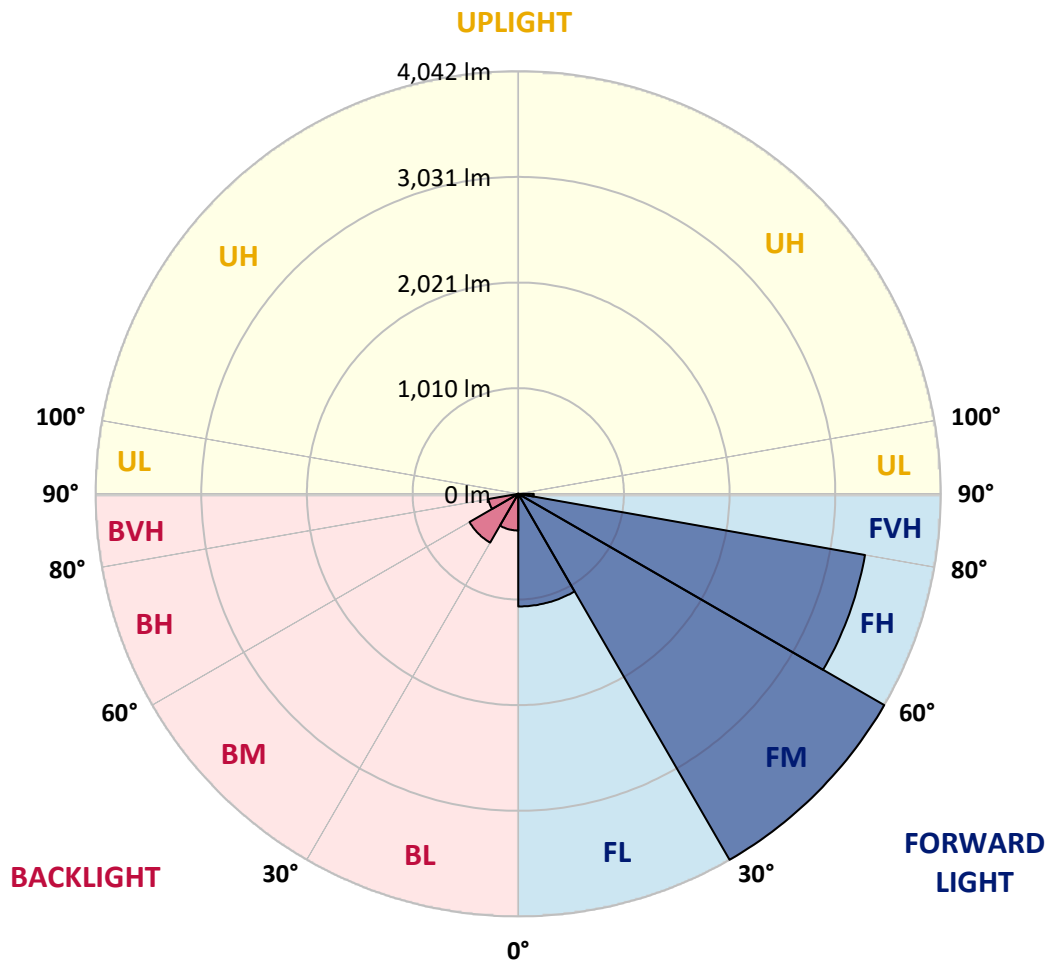


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.5	11.0			
FM (30°-60°)	4041.8	41.1			
FH (60°-80°)	3367.4	34.3			G2/5000
FVH (80°-90°)	148.4	1.5			G2/225
BL (0°-30°)	351.2	3.6	B1/500		
BM (30°-60°)	538.4	5.5	B1/1000		
BH (60°-80°)	289.8	3.0	B1/500		G1/500
BVH (80°-90°)	9.6	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3504.1	3477.1	3447.3	3350.0	3259.8	3156.5	3072.2	3013.6	2940.1	2844.6	2820.4
5°	3479.0	3450.1	3356.6	3140.2	2950.7	2766.4	2588.6	2484.3	2355.0	2223.8	2191.2
7.5°	3226.2	3196.0	3061.1	2764.6	2509.5	2243.3	2012.4	1869.5	1723.5	1603.4	1539.6
10°	2963.3	2930.3	2778.5	2418.8	2104.6	1864.0	1694.6	1558.2	1420.0	1291.5	1189.1
12.5°	2782.3	2738.9	2574.2	2166.5	1892.8	1729.5	1571.2	1407.8	1220.8	1083.0	970.4
15°	2706.4	2657.1	2482.9	2069.2	1817.9	1626.1	1420.0	1219.4	1000.2	842.4	739.1
17.5°	2765.0	2700.8	2514.2	2062.7	1723.9	1462.8	1202.2	966.7	728.8	569.2	495.7
20°	2964.2	2880.0	2643.1	2060.9	1609.9	1268.7	938.3	672.0	480.3	386.3	347.7
22.5°	3277.9	3166.7	2828.3	2075.8	1492.2	1064.9	677.6	456.6	360.7	311.8	289.1
25°	3656.8	3527.9	3095.0	2128.3	1388.8	866.6	492.4	360.7	304.3	268.6	249.5
27.5°	4017.0	3912.2	3431.9	2204.2	1308.7	706.5	399.8	305.7	260.2	236.4	221.1
30°	4376.8	4245.1	3777.8	2294.5	1212.4	598.1	351.4	278.8	233.2	208.0	198.2
32.5°	4638.3	4528.9	4048.6	2359.6	1109.6	527.3	314.1	255.1	217.8	192.2	177.8
35°	4946.0	4822.2	4280.8	2374.0	1043.4	482.6	282.5	229.4	188.9	166.2	150.8
37.5°	5278.2	5124.2	4548.9	2342.5	991.8	460.7	258.8	217.8	176.4	153.1	136.8
40°	5645.9	5471.9	4806.3	2296.8	941.0	453.3	240.6	208.9	166.7	142.9	126.1
42.5°	6033.2	5827.9	5029.2	2248.8	908.9	427.7	238.8	200.1	159.2	133.6	116.8
45°	6358.5	6150.4	5258.2	2233.0	886.2	399.8	246.7	194.0	154.1	126.1	109.8
47.5°	6617.7	6420.9	5492.8	2268.4	873.1	374.2	224.8	202.0	151.3	119.6	103.8
50°	6927.2	6704.3	5823.3	2374.0	854.0	348.6	203.4	231.3	151.3	115.4	98.7
52.5°	7315.4	7094.8	6191.9	2537.9	815.8	313.2	182.9	231.8	152.7	109.8	92.1
55°	7803.6	7643.4	6718.2	2717.5	754.9	261.1	158.3	199.2	147.1	99.6	86.1
57.5°	8271.8	8141.0	7198.1	2840.4	673.4	203.8	137.8	160.6	134.5	87.5	76.8
59°	8399.8	8256.9	7374.0	2846.0	612.5	177.8	127.5	132.7	131.7	81.9	71.2
60°	8399.8	8248.0	7424.7	2816.3	568.2	163.4	121.0	118.2	137.3	78.2	67.9
62.5°	8247.5	8034.4	7260.0	2614.7	463.5	139.2	105.6	97.7	123.3	70.2	60.1
65°	7931.1	7620.7	6698.7	2250.2	413.3	127.5	91.2	80.0	85.6	61.9	52.6
67.5°	7403.3	6982.6	5889.3	1817.9	393.3	124.3	78.6	67.9	64.6	53.1	46.1
70°	6473.9	6007.1	4906.8	1429.3	376.1	122.9	66.0	57.3	52.2	44.7	39.1
72.5°	4711.9	4225.0	3483.6	1117.5	365.8	125.7	53.1	48.0	42.9	34.9	30.3
75°	2695.2	2376.4	1958.0	738.2	311.8	120.1	41.0	40.1	30.7	25.2	21.0
77.5°	1392.5	1350.2	1173.3	283.5	149.4	52.6	27.0	23.3	18.2	15.4	12.6
80°	600.8	594.3	514.3	81.9	39.6	29.3	15.4	9.8	8.4	6.5	5.1
82.5°	207.5	207.5	182.9	27.5	17.7	14.4	1.9	0.0	0.0	0.0	0.0
85°	41.9	47.0	33.1	0.0	6.1	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°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	2791.1	2734.7	2731.0	2695.7	2651.5	2631.4	2619.8	2640.3	2665.4	2668.2	2706.0
5°	2166.5	2107.3	2132.0	2069.2	2081.8	2069.2	2048.8	2052.5	2063.7	2028.7	2072.0
7.5°	1521.4	1476.8	1505.1	1488.4	1510.7	1519.5	1507.0	1488.4	1433.5	1426.9	1464.7
10°	1146.7	1096.1	1065.8	1034.1	1041.1	1055.5	1050.9	1037.4	1002.5	1004.4	1040.6
12.5°	921.5	864.8	804.7	727.0	707.9	718.6	707.9	700.0	666.4	669.2	701.4
15°	699.0	652.5	589.7	527.3	493.3	496.6	466.8	445.8	424.9	399.8	419.4
17.5°	471.9	443.5	424.9	406.3	365.8	356.5	318.8	278.3	262.5	250.9	259.2
20°	334.1	318.8	311.3	310.4	287.2	275.6	238.8	213.6	205.7	203.4	208.5
22.5°	279.3	268.1	257.4	251.3	239.7	226.2	198.2	185.7	180.2	177.4	181.0
25°	242.9	234.6	223.4	213.1	208.5	194.0	174.1	164.8	161.1	158.3	160.1
27.5°	215.9	208.5	195.4	188.9	185.2	172.7	155.5	148.0	144.8	143.8	143.4
30°	194.5	187.5	175.5	168.1	161.5	150.4	140.1	132.7	129.4	128.5	127.5
32.5°	173.2	167.6	159.7	152.2	145.2	135.0	126.1	120.1	115.0	114.0	113.6
35°	146.2	140.6	136.4	135.9	129.4	119.6	113.1	105.2	101.0	99.6	100.0
37.5°	129.9	122.4	113.1	116.4	114.5	107.5	98.7	90.7	86.5	85.6	85.6
40°	119.6	111.7	101.0	95.4	101.0	99.6	85.6	77.7	73.5	73.0	72.1
42.5°	109.8	101.9	89.8	80.5	83.3	87.5	74.0	66.5	62.3	61.4	60.1
45°	102.8	94.5	81.0	70.2	64.6	73.5	63.3	54.0	51.7	49.8	48.9
47.5°	96.3	88.4	73.0	60.9	51.7	53.1	50.8	44.2	41.5	39.6	39.1
50°	90.7	82.3	66.0	52.2	42.9	39.1	41.0	34.9	32.6	30.7	29.8
52.5°	84.2	76.3	58.7	45.2	35.9	30.7	31.2	27.5	25.2	23.8	23.3
55°	79.1	71.2	52.6	39.6	31.7	25.2	22.4	21.4	20.0	19.1	18.6
57.5°	72.1	64.6	46.6	33.5	27.0	20.5	17.2	17.2	16.8	15.8	15.4
59°	67.9	61.4	42.9	30.3	24.7	17.7	15.4	15.8	15.4	14.4	14.0
60°	64.6	58.7	40.1	27.9	23.3	16.3	14.0	14.9	14.4	13.5	13.0
62.5°	57.3	53.1	34.5	23.3	20.5	13.0	11.6	12.6	12.6	12.1	11.6
65°	50.3	45.6	29.3	19.6	19.1	11.2	9.3	11.2	11.6	10.7	9.8
67.5°	43.8	39.1	25.6	15.8	17.7	8.8	7.0	9.3	12.6	9.8	8.8
70°	37.3	32.6	20.0	12.6	18.6	6.1	5.6	8.4	14.9	10.7	8.4
72.5°	28.9	25.2	14.0	9.3	20.0	4.2	4.2	7.0	16.8	11.6	7.9
75°	20.0	16.3	8.4	5.6	16.3	2.8	2.8	6.5	15.8	10.7	7.5
77.5°	11.6	8.8	2.8	0.5	8.4	0.0	0.5	4.7	11.2	6.5	3.3
80°	4.2	1.9	0.0	0.0	5.1	0.0	0.0	0.0	0.9	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°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	2715.6	2778.5	2834.8	2920.0	3021.0	3137.4	3237.4	3344.9	3445.9	3487.8	3516.7
5°	2080.9	2158.6	2249.3	2374.5	2541.2	2746.4	2938.7	3156.0	3389.6	3506.4	3616.3
7.5°	1471.2	1550.3	1662.9	1796.0	1997.5	2241.9	2493.2	2793.4	3109.9	3294.7	3476.6
10°	1057.9	1155.1	1260.4	1442.3	1647.1	1878.8	2137.6	2472.7	2825.6	3030.3	3249.5
12.5°	720.0	830.8	990.0	1193.8	1434.4	1661.5	1886.3	2206.1	2615.6	2818.6	3053.6
15°	431.9	493.3	661.8	897.8	1192.8	1475.9	1722.1	2042.7	2479.2	2727.8	2972.1
17.5°	266.2	294.6	386.3	579.9	889.9	1247.8	1585.2	1987.3	2498.8	2801.3	3062.9
20°	212.2	223.4	252.7	342.5	589.7	996.5	1431.1	1976.2	2658.5	3030.8	3311.4
22.5°	184.3	195.0	214.5	249.0	370.9	746.1	1285.0	1986.3	2887.4	3374.7	3702.3
25°	162.5	171.8	190.3	218.7	271.8	525.5	1128.7	2032.0	3185.8	3801.5	4149.7
27.5°	145.2	153.1	170.4	196.4	233.2	366.8	951.3	2087.4	3539.5	4238.1	4581.5
30°	129.4	136.4	151.7	176.0	202.4	282.1	756.8	2125.0	3893.7	4581.5	4890.1
32.5°	115.9	121.0	135.0	155.5	176.0	224.8	575.2	2119.0	4156.6	4867.3	5112.1
35°	101.9	107.0	119.1	136.8	153.1	185.7	452.4	2005.9	4385.6	5163.8	5366.2
37.5°	86.5	93.1	104.7	120.5	131.7	163.4	365.8	1869.5	4617.9	5502.6	5649.6
40°	73.5	80.0	90.3	107.5	114.5	155.0	281.1	1703.4	4878.9	5881.4	5960.5
42.5°	60.9	67.0	77.7	92.6	108.0	133.6	208.0	1513.5	5129.8	6205.3	6244.0
45°	49.4	55.4	66.5	81.4	115.4	110.8	161.1	1310.1	5332.3	6474.8	6487.4
47.5°	39.1	44.7	56.4	76.8	107.5	88.4	115.0	1150.5	5502.1	6685.2	6652.2
50°	30.3	34.9	47.0	87.9	94.0	73.0	87.0	1097.5	5654.3	6815.5	6729.9
52.5°	23.8	27.9	38.7	82.3	73.0	60.5	73.0	1147.2	5862.8	6923.4	6773.7
55°	19.1	23.3	30.3	47.0	49.8	51.2	62.3	1193.8	6222.6	7176.6	7032.0
57.5°	15.8	20.0	24.7	33.1	37.7	43.3	55.4	1198.9	6646.6	7597.4	7460.6
59°	14.4	18.2	22.4	29.3	33.1	39.6	52.2	1171.0	6796.0	7750.6	7682.1
60°	13.5	17.2	21.0	27.0	30.7	37.3	50.3	1144.4	6802.4	7745.0	7776.6
62.5°	11.6	15.4	18.6	22.8	26.1	31.7	45.2	1046.2	6527.0	7491.3	7719.8
65°	10.2	13.5	16.8	19.6	22.4	28.4	41.0	867.1	6056.5	7082.2	7331.2
67.5°	9.3	11.6	15.4	17.2	20.0	25.2	36.3	618.1	5468.7	6581.8	6743.4
70°	8.4	11.2	14.0	15.8	18.2	21.9	31.2	355.1	4617.9	5849.3	5964.2
72.5°	7.9	10.7	12.6	14.9	16.3	19.6	28.4	167.1	3381.2	4685.8	4986.0
75°	7.0	9.8	11.6	14.0	15.4	17.7	24.2	80.0	2248.8	3391.0	3732.2
77.5°	4.2	7.9	10.7	12.6	13.5	15.4	20.0	46.1	1435.3	2347.0	2764.6
80°	0.0	2.8	7.9	10.7	11.6	13.0	15.4	36.3	768.0	1340.9	1609.4
82.5°	0.0	0.0	5.6	8.4	7.9	8.8	11.6	22.8	346.3	876.4	987.6
85°	0.0	0.0	1.9	6.5	5.6	4.2	7.9	7.9	75.8	443.5	553.3
87.5°	0.0	0.0	0.0	0.5	2.8	1.9	3.3	0.9	0.5	33.1	134.0
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-SA3A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3617.7	3652.1	3710.3	3737.7	3724.2	3667.0	3598.6	3528.8	3487.8	3504.1
5°	3840.1	4017.5	4119.9	4153.8	4097.0	3968.6	3800.5	3579.0	3500.4	3479.0
7.5°	3840.1	4173.8	4385.2	4422.3	4295.7	4043.9	3728.9	3383.1	3268.1	3226.2
10°	3705.1	4159.4	4454.0	4513.1	4336.3	3959.7	3537.6	3142.9	3006.6	2963.3
12.5°	3552.9	4042.1	4352.6	4434.0	4288.8	3876.0	3405.0	2980.5	2820.0	2782.3
15°	3459.4	3897.9	4154.7	4213.9	4152.4	3827.1	3373.3	2931.7	2742.7	2706.4
17.5°	3492.9	3786.2	3878.8	3913.2	3954.6	3809.8	3459.4	3038.7	2799.5	2765.0
20°	3619.1	3668.4	3620.5	3663.8	3775.5	3826.6	3664.7	3297.5	3010.3	2964.2
22.5°	3833.1	3607.4	3472.9	3490.1	3626.0	3882.0	3978.4	3667.0	3335.6	3277.9
25°	4082.6	3656.8	3391.0	3375.6	3515.3	3955.1	4265.1	4069.1	3720.5	3656.8
27.5°	4396.3	3767.6	3374.3	3358.9	3476.6	4023.5	4503.4	4466.6	4125.9	4017.0
30°	4638.3	3876.4	3424.1	3388.7	3515.3	4071.0	4694.6	4804.0	4448.9	4376.8
32.5°	4811.9	4004.9	3505.0	3453.8	3624.2	4152.8	4842.2	5113.0	4747.7	4638.3
35°	4944.1	4144.5	3635.8	3551.5	3774.1	4277.1	4980.4	5442.1	5065.6	4946.0
37.5°	5067.9	4340.5	3840.1	3739.6	4009.1	4477.3	5126.5	5815.4	5421.1	5278.2
40°	5240.5	4562.4	4155.2	4065.8	4404.2	4750.1	5309.0	6204.4	5825.6	5645.9
42.5°	5413.2	4800.7	4477.8	4502.0	4897.1	5081.4	5544.5	6615.9	6224.9	6033.2
45°	5571.0	5046.5	4937.1	5048.8	5354.5	5444.9	5778.6	6853.7	6543.7	6358.5
47.5°	5711.6	5353.6	5393.7	5691.1	5874.9	5773.9	5953.6	7058.9	6781.1	6617.7
50°	5874.9	5751.1	5995.4	6416.2	6473.9	6071.8	6112.7	7301.8	7058.4	6927.2
52.5°	6053.7	6170.0	6662.0	7032.9	7014.3	6395.3	6272.9	7574.1	7438.7	7315.4
55°	6256.6	6508.4	7248.8	7610.0	7594.2	6756.4	6538.2	7910.6	7915.3	7803.6
57.5°	6557.6	6799.6	7647.2	8076.8	8103.3	7173.4	6987.7	8287.6	8346.3	8271.8
59°	6773.7	6988.7	7805.0	8271.8	8379.7	7496.0	7316.3	8506.3	8467.8	8399.8
60°	6933.7	7108.7	7883.1	8373.7	8540.3	7714.7	7558.8	8634.8	8482.1	8399.8
62.5°	7329.8	7370.3	8024.2	8489.1	8725.1	8200.6	8241.0	8853.5	8382.1	8247.5
65°	7514.6	7535.5	8022.3	8282.5	8546.4	8579.0	8860.0	8860.0	8137.7	7931.1
67.5°	7437.3	7336.3	7624.4	7597.4	7860.9	8354.2	9092.7	8535.2	7670.5	7403.3
70°	6809.0	6420.4	6292.4	6304.1	6505.6	7266.5	8632.0	7579.3	6786.2	6473.9
72.5°	5665.5	4733.3	4417.2	4777.9	4830.5	5584.5	7356.3	5707.9	5004.6	4711.9
75°	4556.9	3336.5	2822.8	3203.4	3292.8	4086.8	5690.6	3554.8	2923.3	2695.2
77.5°	3273.7	2395.0	2025.5	1998.9	2114.3	2591.8	4037.9	1789.0	1492.2	1392.5
80°	1859.8	1576.4	1697.4	1601.5	1659.6	1620.6	1918.4	784.6	642.8	600.8
82.5°	1122.6	931.7	1009.1	840.1	1063.0	925.7	739.1	251.3	218.3	207.5
85°	730.2	509.2	265.3	177.8	366.3	591.5	165.3	68.4	52.6	41.9
87.5°	251.8	129.9	13.0	5.6	39.1	110.3	6.1	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)