

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: P383004

Luminaire Tested: **GLEON-SA3C-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383004
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-SA3C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 14911.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

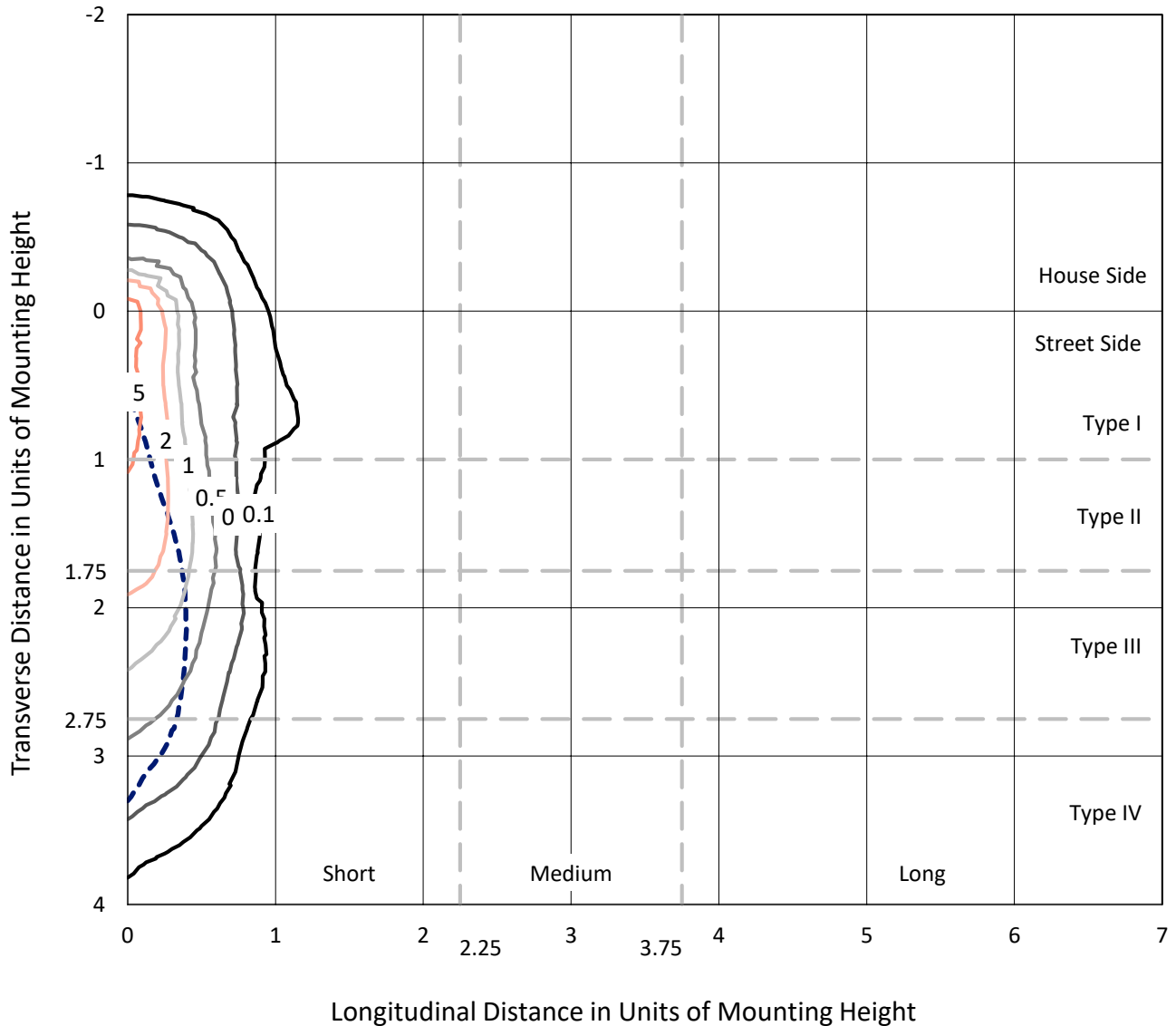
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

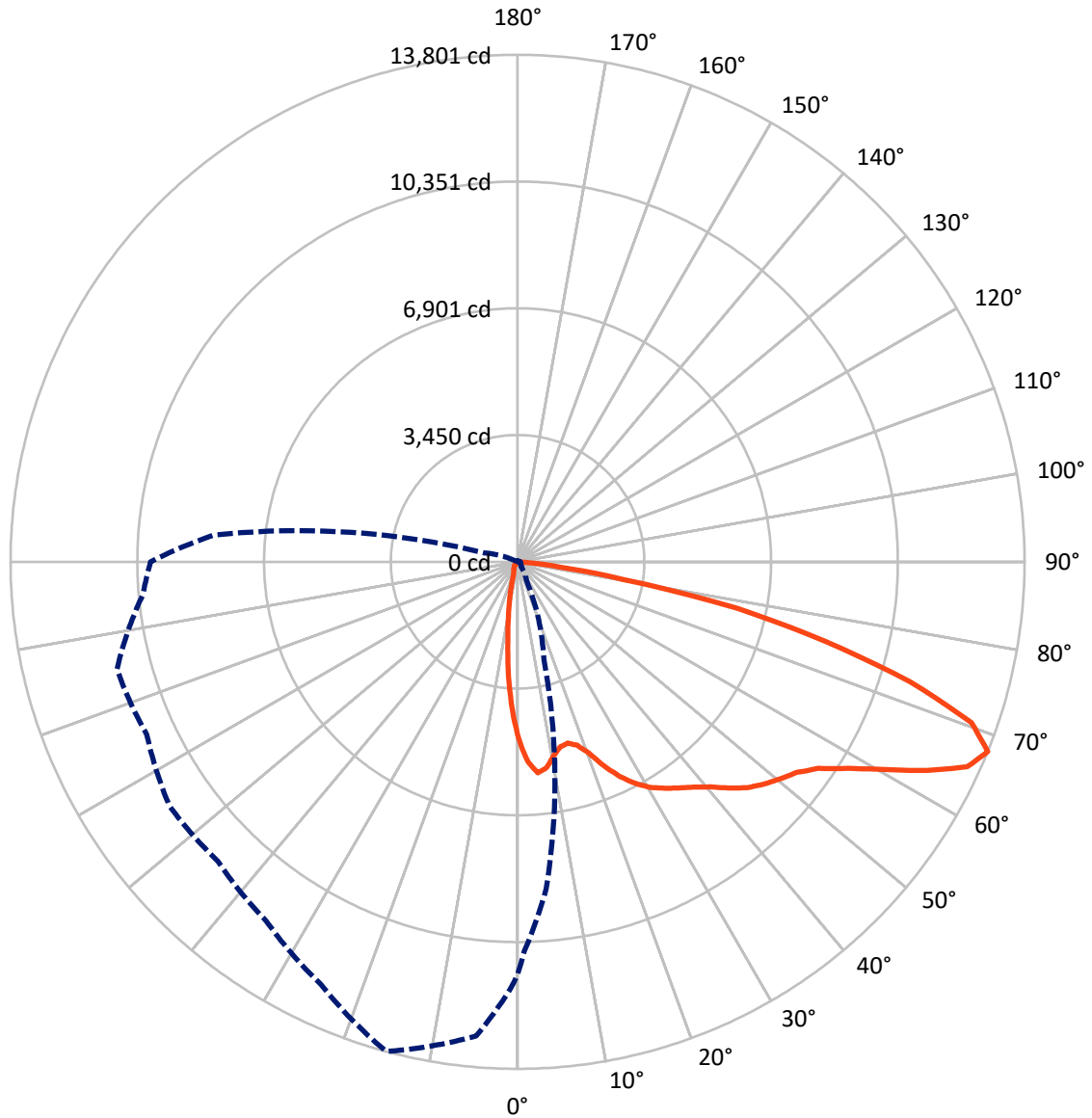
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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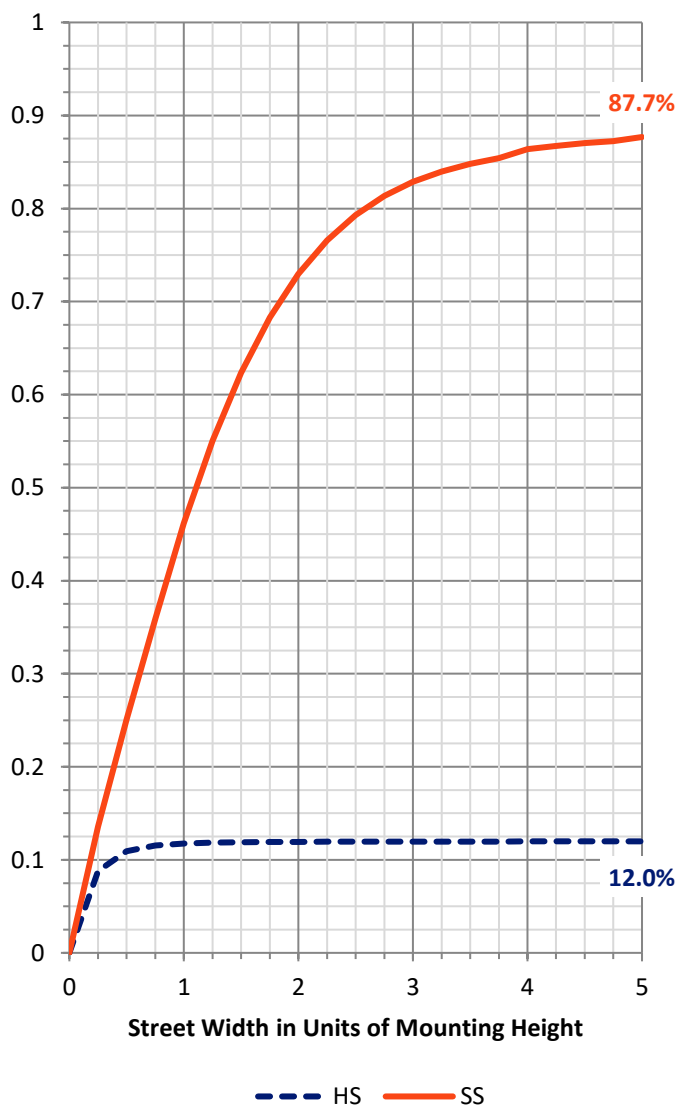
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1804.7	0.0	1804.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13106.5	0.0	13106.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	14911.3	0.0	14911.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	2.5
10°-20°	742.0	5.0
20°-30°	1053.7	7.1
30°-40°	1556.4	10.4
40°-50°	2244.6	15.1
50°-60°	3151.0	21.1
60°-70°	3673.2	24.6
70°-80°	1877.8	12.6
80°-90°	239.8	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°	14911.3	100.0
0°-180°	14911.3	100.0

Coefficient of Utilization

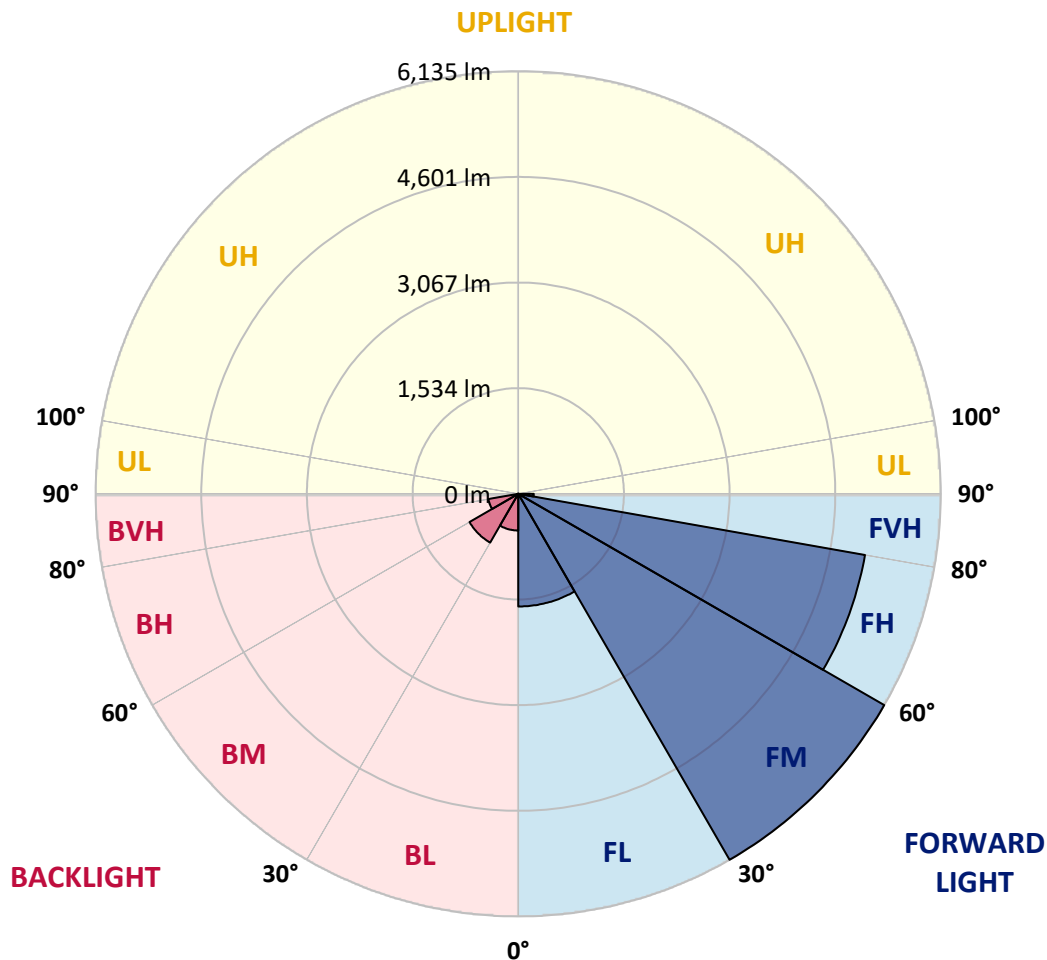


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.5	11.0			
FM (30°-60°)	6134.7	41.1			
FH (60°-80°)	5111.1	34.3			G3/7500
FVH (80°-90°)	225.2	1.5			G3/500
BL (0°-30°)	533.1	3.6	B2/1000		
BM (30°-60°)	817.2	5.5	B1/1000		
BH (60°-80°)	439.9	2.9	B1/500		G1/500
BVH (80°-90°)	14.6	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°	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4
2.5°	5318.6	5277.7	5232.4	5084.8	4947.7	4790.9	4663.0	4574.1	4462.4	4317.6	4280.9
5°	5280.5	5236.7	5094.6	4766.2	4478.7	4199.0	3929.1	3770.8	3574.4	3375.3	3325.8
7.5°	4896.9	4850.9	4646.1	4196.2	3809.0	3404.9	3054.5	2837.7	2615.9	2433.6	2336.8
10°	4497.8	4447.6	4217.3	3671.2	3194.5	2829.2	2572.1	2365.1	2155.3	1960.3	1804.9
12.5°	4223.0	4157.2	3907.2	3288.4	2873.0	2625.0	2384.9	2136.9	1852.9	1643.8	1472.9
15°	4107.8	4032.9	3768.8	3140.7	2759.2	2468.2	2155.3	1850.8	1518.0	1278.6	1121.8
17.5°	4196.8	4099.4	3816.1	3130.8	2616.5	2220.3	1824.7	1467.2	1106.2	863.9	752.3
20°	4499.2	4371.3	4011.7	3128.0	2443.5	1925.7	1424.1	1020.0	729.0	586.3	527.7
22.5°	4975.3	4806.5	4292.9	3150.6	2264.8	1616.3	1028.5	693.0	547.5	473.3	438.7
25°	5550.3	5354.6	4697.7	3230.4	2107.9	1315.3	747.4	547.5	462.0	407.6	378.7
27.5°	6097.1	5938.2	5209.1	3345.6	1986.4	1072.3	606.8	464.1	394.9	358.8	335.5
30°	6643.1	6443.2	5734.0	3482.6	1840.2	907.7	533.3	423.1	353.9	315.8	300.9
32.5°	7040.2	6874.2	6145.1	3581.5	1684.1	800.4	476.9	387.2	330.6	291.8	269.9
35°	7507.1	7319.2	6497.6	3603.4	1583.8	732.6	428.8	348.3	286.8	252.2	228.9
37.5°	8011.5	7777.7	6904.5	3555.4	1505.4	699.3	392.7	330.6	267.7	232.4	207.6
40°	8569.6	8305.3	7295.1	3486.1	1428.3	688.0	365.3	317.2	252.9	216.9	191.4
42.5°	9157.3	8845.8	7633.6	3413.4	1379.6	649.2	362.4	303.8	241.6	202.7	177.3
45°	9651.1	9335.3	7981.1	3389.3	1345.1	606.8	374.4	294.6	233.8	191.4	166.7
47.5°	10044.5	9745.8	8337.2	3443.1	1325.2	568.0	341.2	306.6	229.6	181.6	157.5
50°	10514.3	10175.9	8838.7	3603.4	1296.2	529.1	308.7	351.1	229.6	175.2	149.8
52.5°	11103.5	10768.6	9398.2	3852.1	1238.3	475.5	277.6	351.8	231.7	166.7	139.8
55°	11844.5	11601.5	10197.1	4124.8	1145.8	396.3	240.2	302.4	223.2	151.2	130.7
57.5°	12555.1	12356.6	10925.5	4311.3	1022.2	309.4	209.1	243.7	204.2	132.8	116.5
59°	12749.4	12532.6	11192.5	4319.8	929.7	269.9	193.6	201.3	199.9	124.4	108.1
60°	12749.4	12519.2	11269.5	4274.5	862.5	248.0	183.7	179.4	208.4	118.7	103.1
62.5°	12518.4	12194.9	11019.4	3968.7	703.6	211.2	160.3	148.3	187.2	106.7	91.1
65°	12038.0	11566.8	10167.5	3415.5	627.3	193.6	138.4	121.5	130.0	94.0	79.8
67.5°	11237.0	10598.4	8939.0	2759.2	596.9	188.6	119.4	103.1	98.2	80.5	70.0
70°	9826.2	9117.7	7447.7	2169.4	570.8	186.5	100.3	86.9	79.1	67.8	59.3
72.5°	7151.8	6412.9	5287.6	1696.1	555.2	190.7	80.5	72.8	65.0	53.0	45.9
75°	4090.9	3607.0	2971.9	1120.4	473.3	182.2	62.1	60.7	46.6	38.1	31.8
77.5°	2113.6	2049.3	1780.8	430.2	226.7	79.8	41.0	35.3	27.6	23.3	19.1
80°	912.0	902.1	780.6	124.4	60.1	44.5	23.3	14.8	12.7	9.9	7.7
82.5°	315.0	315.0	277.6	41.6	26.8	21.9	2.8	0.0	0.0	0.0	0.0
85°	63.5	71.4	50.1	0.0	9.2	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°	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4
2.5°	4236.4	4150.9	4145.3	4091.5	4024.5	3994.1	3976.4	4007.5	4045.6	4049.9	4107.1
5°	3288.4	3198.7	3236.1	3140.7	3159.8	3140.7	3109.7	3115.3	3132.2	3079.2	3145.0
7.5°	2309.3	2241.5	2284.5	2259.1	2293.0	2306.4	2287.4	2259.1	2175.7	2165.8	2223.1
10°	1740.6	1663.7	1617.7	1569.7	1580.3	1602.2	1595.1	1574.6	1521.6	1524.5	1579.5
12.5°	1398.7	1312.6	1221.4	1103.4	1074.4	1090.7	1074.4	1062.4	1011.6	1015.9	1064.6
15°	1061.0	990.4	895.0	800.4	748.8	753.7	708.5	676.8	645.0	606.8	636.5
17.5°	716.3	673.2	645.0	616.7	555.2	541.1	483.9	422.5	398.4	380.7	393.5
20°	507.2	483.9	472.6	471.2	435.9	418.2	362.4	324.3	312.3	308.7	316.4
22.5°	423.9	406.9	390.7	381.5	363.8	343.3	300.9	281.9	273.4	269.1	274.8
25°	368.7	356.0	339.1	323.5	316.4	294.6	264.2	250.0	244.4	240.2	243.0
27.5°	327.8	316.4	296.7	286.8	281.1	262.0	236.0	224.6	219.7	218.3	217.6
30°	295.3	284.7	266.3	255.1	245.1	228.1	212.7	201.3	196.4	195.0	193.6
32.5°	262.8	254.3	242.3	231.0	220.4	204.8	191.4	182.2	174.5	173.1	172.3
35°	221.8	213.3	207.0	206.2	196.4	181.6	171.7	159.7	153.3	151.2	151.8
37.5°	197.1	185.8	171.7	176.6	173.7	163.2	149.8	137.8	131.3	130.0	130.0
40°	181.6	169.5	153.3	144.9	153.3	151.2	130.0	117.9	111.6	110.9	109.5
42.5°	166.7	154.7	136.4	122.2	126.4	132.8	112.3	101.0	94.6	93.2	91.1
45°	156.1	143.4	122.9	106.7	98.2	111.6	96.0	82.0	78.4	75.5	74.2
47.5°	146.3	134.2	110.9	92.5	78.4	80.5	77.0	67.1	62.9	60.1	59.3
50°	137.8	125.0	100.3	79.1	65.0	59.3	62.1	53.0	49.5	46.6	45.2
52.5°	127.9	115.9	89.0	68.6	54.4	46.6	47.3	41.6	38.1	36.1	35.3
55°	120.1	108.1	79.8	60.1	48.1	38.1	33.9	32.5	30.4	29.0	28.2
57.5°	109.5	98.2	70.6	50.9	41.0	31.1	26.2	26.2	25.4	24.0	23.3
59°	103.1	93.2	65.0	45.9	37.4	26.8	23.3	24.0	23.3	21.9	21.1
60°	98.2	89.0	60.7	42.4	35.3	24.7	21.1	22.6	21.9	20.5	19.7
62.5°	86.9	80.5	52.3	35.3	31.1	19.7	17.7	19.1	19.1	18.4	17.7
65°	76.3	69.2	44.5	29.6	29.0	17.0	14.2	17.0	17.7	16.2	14.8
67.5°	66.4	59.3	38.8	24.0	26.8	13.4	10.6	14.2	19.1	14.8	13.4
70°	56.5	49.5	30.4	19.1	28.2	9.2	8.5	12.7	22.6	16.2	12.7
72.5°	43.8	38.1	21.1	14.2	30.4	6.3	6.3	10.6	25.4	17.7	12.0
75°	30.4	24.7	12.7	8.5	24.7	4.2	4.2	9.9	24.0	16.2	11.3
77.5°	17.7	13.4	4.2	0.7	12.7	0.0	0.7	7.1	17.0	9.9	4.9
80°	6.3	2.8	0.0	0.0	7.7	0.0	0.0	0.0	1.4	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°	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4
2.5°	4121.9	4217.3	4302.8	4432.0	4585.4	4762.0	4913.8	5077.0	5230.3	5293.9	5337.7
5°	3158.4	3276.3	3414.1	3604.2	3857.1	4168.6	4460.3	4790.2	5144.8	5322.1	5488.9
7.5°	2233.0	2353.1	2524.0	2726.1	3031.9	3402.9	3784.3	4239.9	4720.2	5000.7	5276.9
10°	1605.7	1753.4	1912.9	2189.2	2500.0	2851.8	3244.6	3753.2	4288.7	4599.5	4932.2
12.5°	1092.8	1260.9	1502.6	1812.0	2177.2	2521.9	2863.1	3348.4	3970.1	4278.0	4634.8
15°	655.5	748.8	1004.5	1362.7	1810.6	2240.1	2613.7	3100.5	3763.1	4140.3	4511.2
17.5°	404.1	447.1	586.3	880.2	1350.7	1893.9	2406.1	3016.4	3792.8	4252.0	4648.9
20°	322.1	339.1	383.6	519.9	895.0	1512.5	2172.3	2999.5	4035.1	4600.2	5026.2
22.5°	279.7	296.0	325.7	377.9	563.0	1132.4	1950.4	3015.0	4382.7	5122.2	5619.6
25°	246.6	260.6	289.0	332.0	412.6	797.6	1713.0	3084.3	4835.4	5770.0	6298.4
27.5°	220.4	232.4	258.5	298.1	353.9	556.7	1443.9	3168.3	5372.3	6432.6	6954.0
30°	196.4	207.0	230.3	267.0	307.3	428.0	1148.6	3225.5	5909.9	6954.0	7422.3
32.5°	175.9	183.7	204.8	236.0	267.0	341.2	873.1	3216.4	6309.0	7387.7	7759.3
35°	154.7	162.5	180.8	207.6	232.4	281.9	686.6	3044.7	6656.6	7837.7	8145.0
37.5°	131.3	141.3	158.9	183.0	199.9	248.0	555.2	2837.7	7009.1	8352.0	8575.2
40°	111.6	121.5	137.0	163.2	173.7	235.2	426.6	2585.5	7405.3	8927.0	9047.1
42.5°	92.5	101.7	117.9	140.6	163.9	202.7	315.8	2297.3	7786.2	9418.7	9477.3
45°	74.9	84.0	101.0	123.6	175.2	168.1	244.4	1988.6	8093.4	9827.6	9846.7
47.5°	59.3	67.8	85.5	116.5	163.2	134.2	174.5	1746.3	8351.2	10147.0	10096.9
50°	45.9	53.0	71.4	133.5	142.7	110.9	132.1	1665.7	8582.3	10344.7	10214.8
52.5°	36.1	42.4	58.6	125.0	110.9	91.9	110.9	1741.3	8898.7	10508.7	10281.2
55°	29.0	35.3	45.9	71.4	75.5	77.7	94.6	1812.0	9444.8	10893.0	10673.2
57.5°	24.0	30.4	37.4	50.1	57.2	65.7	84.0	1819.7	10088.4	11531.5	11323.9
59°	21.9	27.6	33.9	44.5	50.1	60.1	79.1	1777.3	10315.1	11764.0	11660.1
60°	20.5	26.2	31.8	41.0	46.6	56.5	76.3	1737.1	10325.0	11755.5	11803.5
62.5°	17.7	23.3	28.2	34.7	39.6	48.1	68.6	1588.0	9906.8	11370.5	11717.4
65°	15.6	20.5	25.4	29.6	33.9	43.1	62.1	1316.1	9192.6	10749.5	11127.5
67.5°	14.2	17.7	23.3	26.2	30.4	38.1	55.1	938.2	8300.4	9990.1	10235.3
70°	12.7	17.0	21.1	24.0	27.6	33.2	47.3	539.0	7009.1	8878.2	9052.7
72.5°	12.0	16.2	19.1	22.6	24.7	29.6	43.1	253.6	5132.1	7112.2	7567.8
75°	10.6	14.8	17.7	21.1	23.3	26.8	36.7	121.5	3413.4	5147.0	5664.7
77.5°	6.3	12.0	16.2	19.1	20.5	23.3	30.4	70.0	2178.6	3562.4	4196.2
80°	0.0	4.2	12.0	16.2	17.7	19.7	23.3	55.1	1165.6	2035.2	2442.8
82.5°	0.0	0.0	8.5	12.7	12.0	13.4	17.7	34.7	525.6	1330.2	1499.0
85°	0.0	0.0	2.8	9.9	8.5	6.3	12.0	12.0	115.1	673.2	839.9
87.5°	0.0	0.0	0.0	0.7	4.2	2.8	4.9	1.4	0.7	50.1	203.4
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-SA3C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4	4857.4
2.5°	5491.0	5543.3	5631.6	5673.2	5652.7	5565.9	5462.0	5356.0	5293.9	5318.6
5°	5828.6	6097.8	6253.2	6304.8	6218.5	6023.6	5768.6	5432.3	5313.0	5280.5
7.5°	5828.6	6335.2	6655.8	6712.4	6520.3	6138.1	5659.8	5135.0	4960.5	4896.9
10°	5623.8	6313.3	6760.4	6850.1	6581.7	6010.2	5369.4	4770.5	4563.5	4497.8
12.5°	5392.8	6135.3	6606.4	6730.1	6509.7	5883.0	5168.1	4523.9	4280.2	4223.0
15°	5250.8	5916.3	6306.2	6395.9	6302.7	5808.9	5120.1	4449.7	4162.9	4107.8
17.5°	5301.6	5746.7	5887.3	5939.5	6002.4	5782.8	5250.8	4612.2	4249.1	4196.8
20°	5493.1	5568.0	5495.2	5560.9	5730.4	5808.2	5562.4	5004.9	4569.1	4499.2
22.5°	5818.1	5475.5	5271.3	5297.4	5503.7	5892.2	6038.5	5565.9	5062.9	4975.3
25°	6196.7	5550.3	5147.0	5123.6	5335.5	6003.2	6473.6	6176.2	5647.1	5550.3
27.5°	6672.8	5718.5	5121.6	5098.2	5276.9	6106.9	6835.3	6779.5	6262.4	6097.1
30°	7040.2	5883.7	5197.1	5143.4	5335.5	6179.0	7125.6	7291.6	6752.6	6643.1
32.5°	7303.6	6078.7	5320.1	5242.3	5500.9	6303.3	7349.5	7760.7	7206.2	7040.2
35°	7504.3	6290.6	5518.5	5390.7	5728.4	6492.0	7559.3	8260.1	7688.6	7507.1
37.5°	7692.2	6588.0	5828.6	5676.1	6085.1	6795.7	7781.2	8826.7	8228.4	8011.5
40°	7954.3	6925.0	6306.9	6171.2	6684.8	7209.7	8058.1	9417.2	8842.2	8569.6
42.5°	8216.3	7286.7	6796.5	6833.2	7432.9	7712.7	8415.5	10041.7	9448.3	9157.3
45°	8455.8	7659.7	7493.6	7663.2	8127.3	8264.4	8770.9	10402.7	9932.3	9651.1
47.5°	8669.2	8125.9	8186.6	8638.1	8917.1	8763.8	9036.5	10714.2	10292.5	10044.5
50°	8917.1	8729.2	9100.1	9738.7	9826.2	9215.9	9278.1	11083.0	10713.5	10514.3
52.5°	9188.3	9364.9	10111.7	10674.7	10646.4	9706.9	9521.1	11496.2	11290.6	11103.5
55°	9496.4	9878.5	11002.4	11550.6	11526.6	10255.0	9923.8	12007.0	12014.1	11844.5
57.5°	9953.4	10320.7	11607.2	12259.2	12299.4	10888.0	10606.1	12579.2	12668.2	12555.1
59°	10281.2	10607.5	11846.6	12555.1	12719.1	11377.5	11104.9	12911.2	12852.6	12749.4
60°	10524.2	10789.8	11965.3	12709.8	12962.8	11709.6	11472.9	13106.1	12874.5	12749.4
62.5°	11125.4	11186.9	12179.3	12885.1	13243.2	12447.1	12508.5	13438.1	12722.6	12518.4
65°	11405.8	11437.6	12176.5	12571.4	12971.9	13021.4	13448.1	13448.1	12351.7	12038.0
67.5°	11288.6	11135.3	11572.5	11531.5	11931.4	12680.2	13801.3	12954.9	11642.5	11237.0
70°	10334.9	9745.0	9550.8	9568.4	9874.3	11029.2	13101.9	11504.0	10300.3	9826.2
72.5°	8599.2	7184.3	6704.6	7252.1	7331.9	8476.3	11165.6	8663.5	7596.1	7151.8
75°	6916.6	5064.3	4284.4	4862.3	4997.9	6203.1	8637.4	5395.6	4437.0	4090.9
77.5°	4969.0	3635.2	3074.3	3034.1	3209.3	3934.0	6128.8	2715.5	2264.8	2113.6
80°	2822.9	2392.7	2576.3	2430.8	2519.1	2459.8	2911.8	1191.0	975.5	912.0
82.5°	1703.9	1414.3	1531.6	1275.1	1613.4	1405.1	1121.8	381.5	331.4	315.0
85°	1108.4	772.8	402.6	269.9	555.9	897.8	250.8	103.9	79.8	63.5
87.5°	382.2	197.1	19.7	8.5	59.3	167.4	9.2	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)