

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: P382780

Luminaire Tested: **GLEON-SA1C-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382780  
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-SA1C-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5115.1 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 59  
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

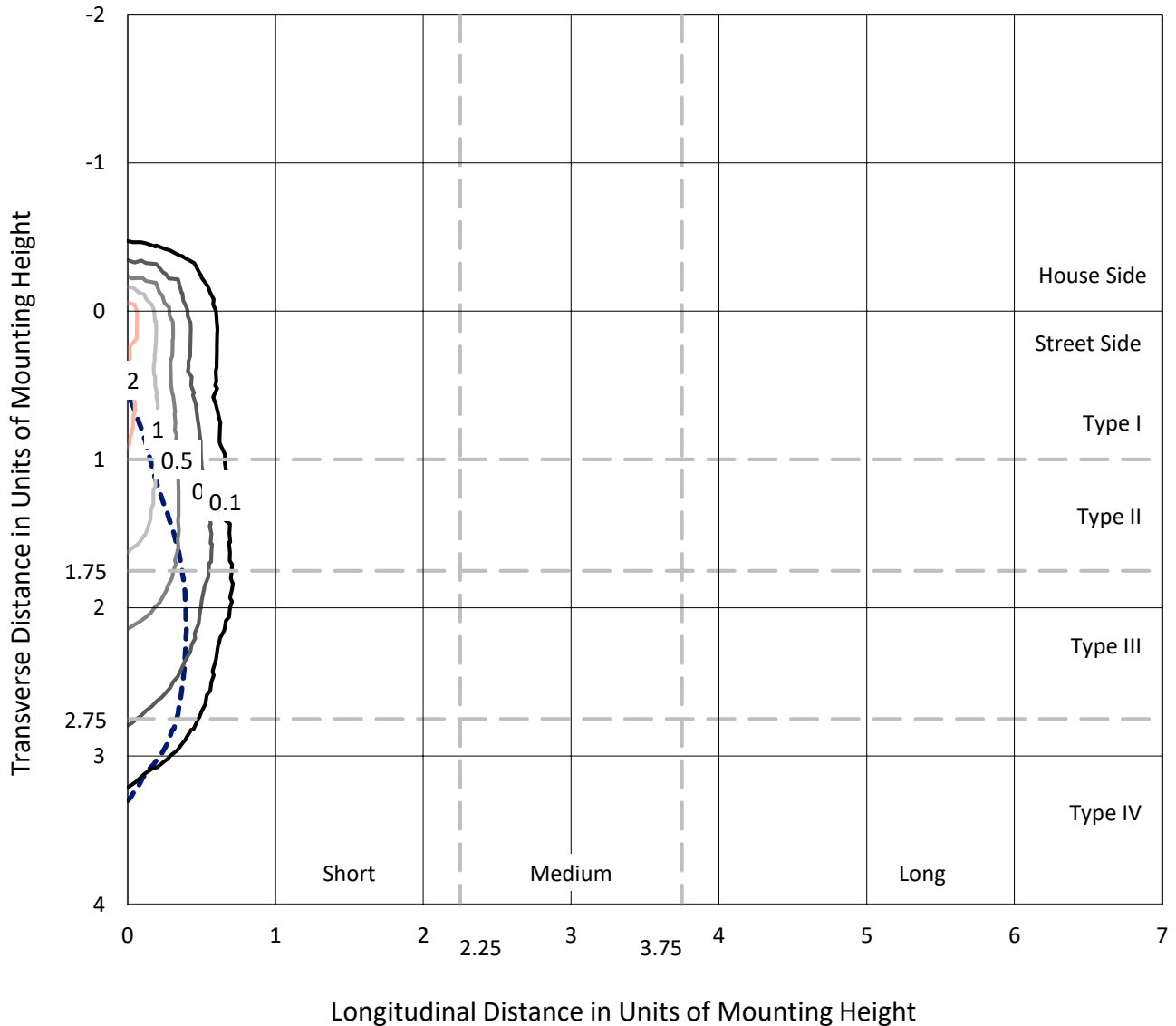




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### Iso-Footcandle Lines of Horizontal Illumination

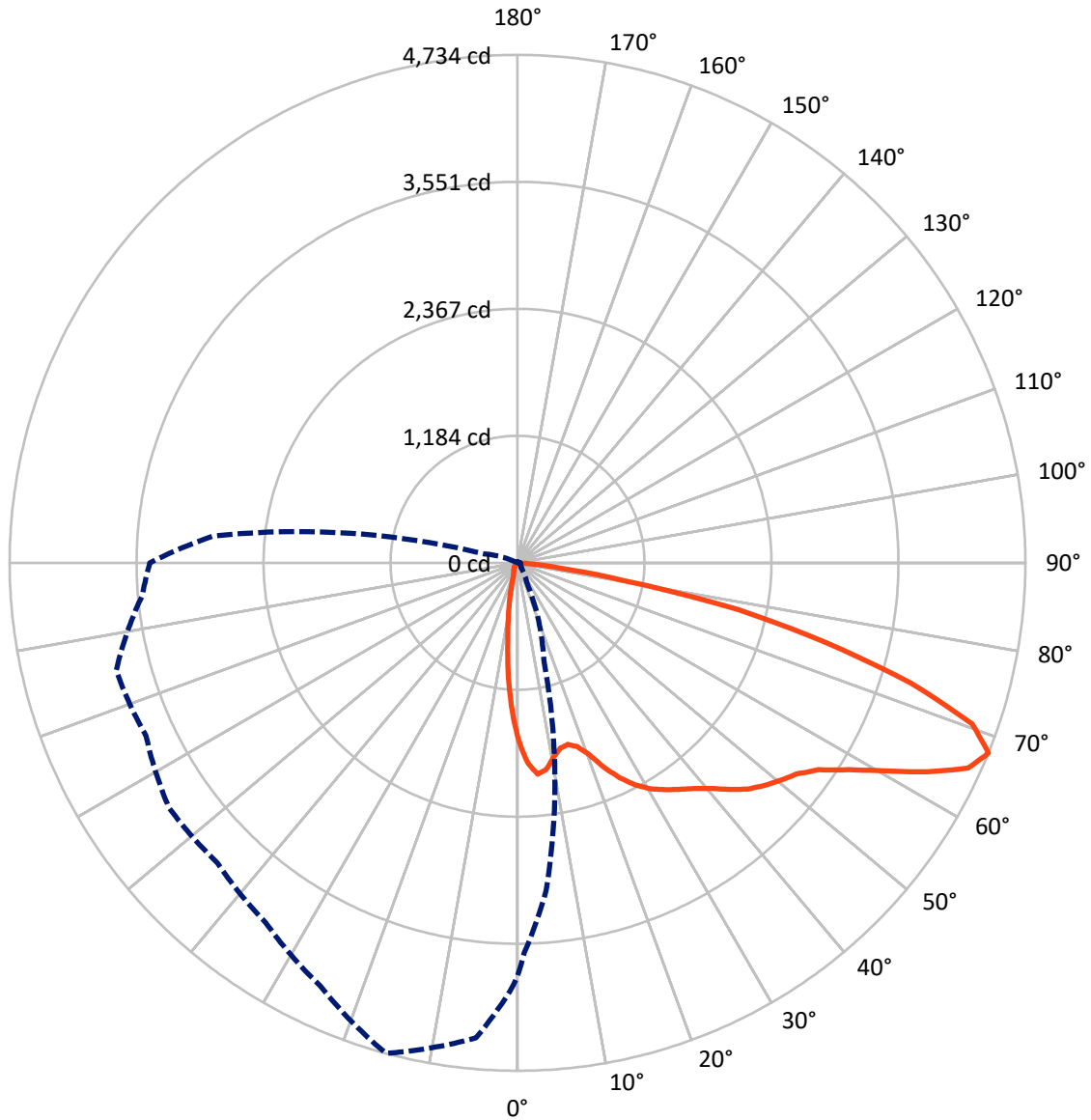
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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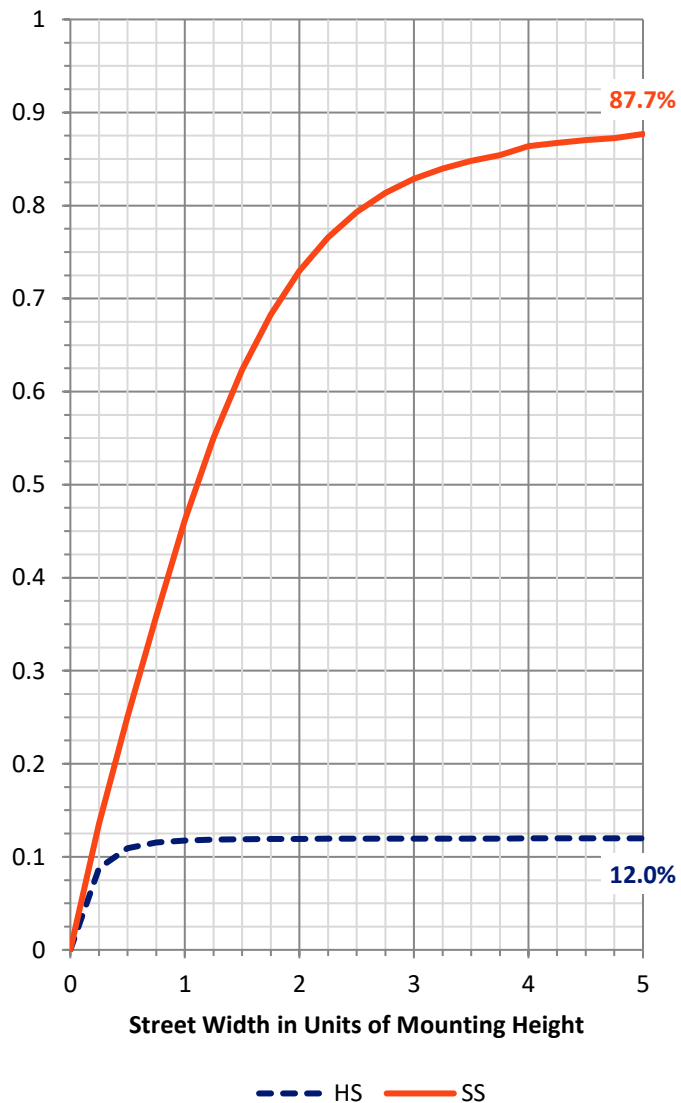
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	619.1	0.0	619.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	4496.0	0.0	4496.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	5115.1	0.0	5115.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	2.5
10°-20°	254.5	5.0
20°-30°	361.5	7.1
30°-40°	533.9	10.4
40°-50°	770.0	15.1
50°-60°	1080.9	21.1
60°-70°	1260.0	24.6
70°-80°	644.2	12.6
80°-90°	82.3	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°	5115.1	100.0
0°-180°	5115.1	100.0

**Coefficient of Utilization**

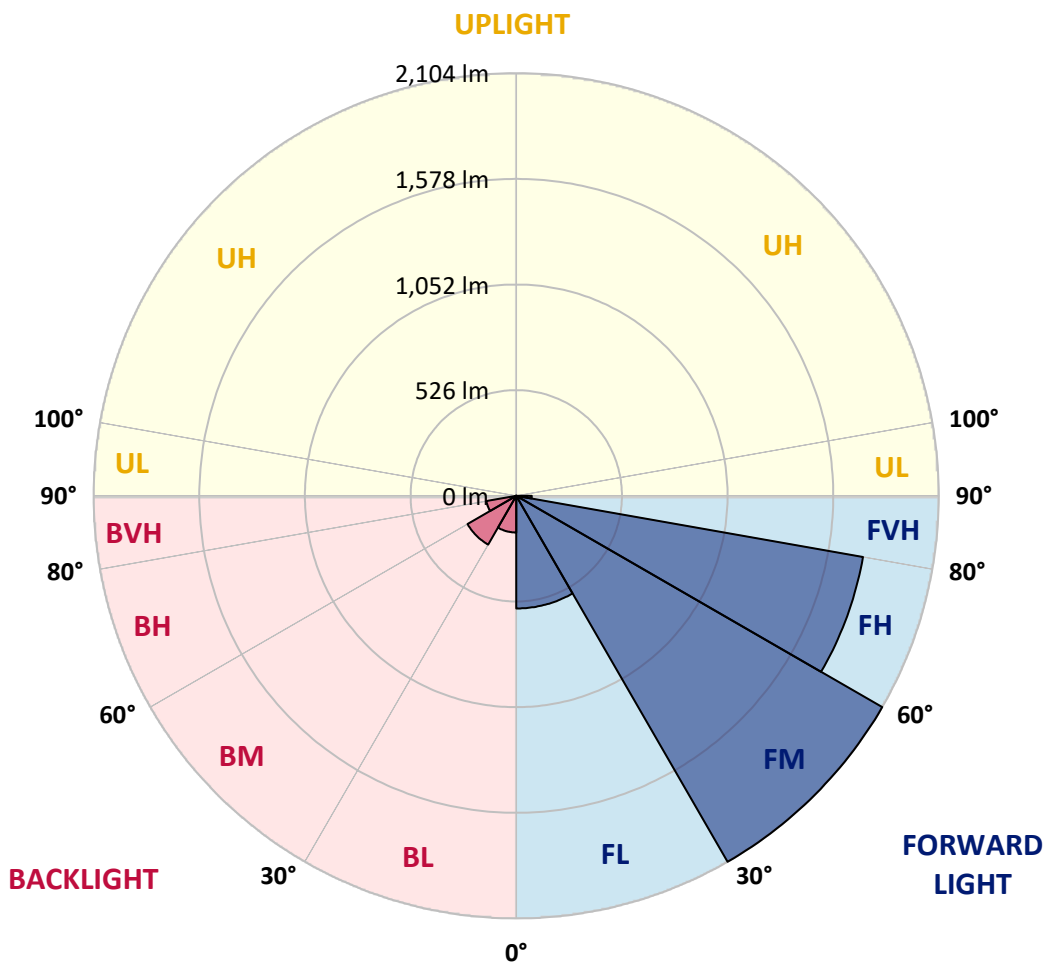


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.0	11.0			
FM (30°-60°)	2104.4	41.1			
FH (60°-80°)	1753.3	34.3			G1/1800
FVH (80°-90°)	77.3	1.5			G1/100
BL (0°-30°)	182.9	3.6	B1/500		
BM (30°-60°)	280.4	5.5	B1/1000		
BH (60°-80°)	150.9	2.9	B1/500		G1/500
BVH (80°-90°)	5.0	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-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3
2.5°	1824.5	1810.5	1794.9	1744.2	1697.3	1643.4	1599.6	1569.1	1530.8	1481.1	1468.5
5°	1811.4	1796.4	1747.7	1635.0	1536.4	1440.4	1347.9	1293.5	1226.2	1157.8	1140.9
7.5°	1679.9	1664.0	1593.8	1439.4	1306.6	1168.0	1047.8	973.5	897.4	834.9	801.6
10°	1542.9	1525.7	1446.7	1259.4	1095.8	970.5	882.3	811.3	739.4	672.5	619.1
12.5°	1448.6	1426.1	1340.3	1128.0	985.6	900.5	818.1	733.0	635.6	563.9	505.3
15°	1409.2	1383.4	1292.8	1077.4	946.5	846.7	739.4	634.9	520.7	438.6	384.8
17.5°	1439.7	1406.3	1309.0	1074.0	897.5	761.6	625.9	503.3	379.5	296.3	258.0
20°	1543.4	1499.5	1376.2	1073.0	838.2	660.6	488.5	349.9	250.1	201.1	181.0
22.5°	1706.7	1648.8	1472.6	1080.8	776.9	554.5	352.9	237.7	187.8	162.4	150.4
25°	1904.0	1836.8	1611.5	1108.2	723.1	451.2	256.4	187.8	158.5	139.8	129.9
27.5°	2091.5	2037.0	1786.9	1147.7	681.4	367.9	208.2	159.2	135.4	123.1	115.1
30°	2278.8	2210.3	1967.0	1194.7	631.2	311.4	183.0	145.1	121.4	108.3	103.2
32.5°	2415.0	2358.1	2108.0	1228.6	577.7	274.5	163.6	132.8	113.4	100.0	92.6
35°	2575.2	2510.8	2228.9	1236.1	543.3	251.3	147.1	119.4	98.4	86.5	78.5
37.5°	2748.3	2668.0	2368.6	1219.7	516.4	239.9	134.7	113.4	91.9	79.7	71.3
40°	2939.7	2849.0	2502.5	1195.9	490.0	236.1	125.3	108.8	86.7	74.4	65.7
42.5°	3141.3	3034.4	2618.6	1171.0	473.2	222.7	124.3	104.2	82.9	69.6	60.8
45°	3310.7	3202.4	2737.8	1162.7	461.4	208.2	128.5	101.1	80.2	65.7	57.2
47.5°	3445.6	3343.1	2859.9	1181.1	454.6	194.8	117.0	105.2	78.7	62.3	54.0
50°	3606.8	3490.7	3032.0	1236.1	444.6	181.5	105.9	120.4	78.7	60.1	51.3
52.5°	3808.9	3694.1	3223.9	1321.4	424.8	163.1	95.2	120.6	79.5	57.2	48.0
55°	4063.1	3979.8	3498.0	1414.9	393.0	135.9	82.3	103.7	76.6	51.9	44.8
57.5°	4306.9	4238.8	3747.8	1478.9	350.6	106.1	71.7	83.6	70.1	45.6	40.0
59°	4373.5	4299.1	3839.5	1481.8	318.9	92.6	66.4	69.0	68.6	42.7	37.1
60°	4373.5	4294.5	3865.8	1466.3	295.9	85.1	63.0	61.6	71.4	40.7	35.4
62.5°	4294.2	4183.3	3780.0	1361.4	241.4	72.5	55.1	50.9	64.2	36.6	31.3
65°	4129.5	3967.8	3487.8	1171.6	215.2	66.4	47.5	41.6	44.6	32.2	27.4
67.5°	3854.7	3635.6	3066.4	946.5	204.8	64.7	41.0	35.4	33.7	27.7	24.0
70°	3370.8	3127.8	2554.9	744.2	195.8	64.0	34.4	29.8	27.1	23.3	20.4
72.5°	2453.3	2199.8	1813.8	581.8	190.5	65.4	27.7	25.0	22.3	18.2	15.7
75°	1403.3	1237.3	1019.5	384.4	162.4	62.5	21.3	20.9	16.0	13.0	10.9
77.5°	725.0	702.9	610.9	147.6	77.8	27.4	14.1	12.1	9.4	8.0	6.5
80°	312.8	309.5	267.7	42.7	20.6	15.3	8.0	5.1	4.4	3.4	2.7
82.5°	108.1	108.1	95.2	14.3	9.2	7.5	0.9	0.0	0.0	0.0	0.0
85°	21.8	24.5	17.2	0.0	3.2	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°	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3
2.5°	1453.2	1423.9	1422.0	1403.6	1380.6	1370.1	1364.1	1374.7	1387.8	1389.2	1408.9
5°	1128.0	1097.3	1110.1	1077.4	1083.9	1077.4	1066.7	1068.7	1074.4	1056.3	1078.8
7.5°	792.2	768.9	783.7	775.0	786.6	791.2	784.6	775.0	746.4	743.0	762.6
10°	597.1	570.7	554.9	538.4	542.1	549.6	547.2	540.1	521.9	523.0	541.9
12.5°	479.8	450.2	419.0	378.5	368.6	374.1	368.6	364.4	347.0	348.5	365.2
15°	364.0	339.7	307.0	274.5	256.8	258.6	243.0	232.1	221.2	208.2	218.4
17.5°	245.7	230.9	221.2	211.6	190.5	185.7	166.0	144.9	136.7	130.6	135.0
20°	174.0	166.0	162.1	161.6	149.5	143.5	124.3	111.2	107.1	105.9	108.5
22.5°	145.4	139.5	134.0	130.9	124.8	117.7	103.2	96.7	93.8	92.3	94.3
25°	126.5	122.1	116.4	110.9	108.5	101.1	90.6	85.8	83.8	82.3	83.4
27.5°	112.4	108.5	101.8	98.4	96.4	89.9	81.0	77.0	75.4	74.9	74.6
30°	101.3	97.6	91.4	87.5	84.1	78.2	72.9	69.0	67.4	66.9	66.4
32.5°	90.2	87.2	83.1	79.3	75.6	70.2	65.7	62.5	59.9	59.3	59.2
35°	76.1	73.2	71.0	70.8	67.4	62.3	58.9	54.8	52.5	51.9	52.1
37.5°	67.6	63.7	58.9	60.6	59.6	56.0	51.3	47.2	45.1	44.6	44.6
40°	62.3	58.1	52.5	49.7	52.5	51.9	44.6	40.4	38.3	38.0	37.5
42.5°	57.2	53.1	46.8	41.9	43.4	45.6	38.6	34.7	32.5	32.0	31.3
45°	53.6	49.2	42.2	36.6	33.7	38.3	33.0	28.1	26.9	25.9	25.4
47.5°	50.1	46.0	38.0	31.8	26.9	27.7	26.5	23.0	21.6	20.6	20.4
50°	47.2	42.9	34.4	27.1	22.3	20.4	21.3	18.2	17.0	16.0	15.5
52.5°	43.9	39.8	30.6	23.5	18.6	16.0	16.2	14.3	13.0	12.4	12.1
55°	41.2	37.1	27.4	20.6	16.5	13.0	11.6	11.2	10.4	10.0	9.7
57.5°	37.5	33.7	24.2	17.4	14.1	10.6	8.9	8.9	8.8	8.2	8.0
59°	35.4	32.0	22.3	15.7	12.9	9.2	8.0	8.2	8.0	7.5	7.3
60°	33.7	30.6	20.9	14.5	12.1	8.5	7.3	7.7	7.5	7.0	6.8
62.5°	29.8	27.7	17.9	12.1	10.6	6.8	6.1	6.5	6.5	6.3	6.1
65°	26.2	23.8	15.3	10.2	10.0	5.8	4.8	5.8	6.1	5.6	5.1
67.5°	22.8	20.4	13.3	8.2	9.2	4.6	3.6	4.8	6.5	5.1	4.6
70°	19.4	17.0	10.4	6.5	9.7	3.2	2.9	4.4	7.7	5.6	4.4
72.5°	15.0	13.0	7.3	4.8	10.4	2.1	2.1	3.6	8.8	6.1	4.1
75°	10.4	8.5	4.4	2.9	8.5	1.5	1.5	3.4	8.2	5.6	3.9
77.5°	6.1	4.6	1.5	0.3	4.4	0.0	0.3	2.4	5.8	3.4	1.7
80°	2.1	0.9	0.0	0.0	2.7	0.0	0.0	0.0	0.5	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°	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3
2.5°	1414.0	1446.7	1476.0	1520.4	1572.9	1633.6	1685.6	1741.6	1794.2	1816.0	1831.0
5°	1083.5	1123.9	1171.1	1236.3	1323.1	1430.0	1530.1	1643.2	1764.9	1825.7	1882.8
7.5°	766.0	807.2	865.9	935.2	1040.1	1167.3	1298.1	1454.4	1619.2	1715.4	1810.2
10°	550.8	601.5	656.2	751.0	857.6	978.3	1113.0	1287.5	1471.2	1577.8	1692.0
12.5°	374.9	432.5	515.4	621.5	746.8	865.1	982.1	1148.6	1361.9	1467.6	1589.9
15°	224.9	256.8	344.6	467.5	621.1	768.4	896.6	1063.5	1290.8	1420.2	1547.5
17.5°	138.6	153.4	201.1	301.9	463.4	649.7	825.4	1034.8	1301.1	1458.5	1594.7
20°	110.5	116.4	131.6	178.4	307.0	518.8	745.1	1028.9	1384.2	1578.0	1724.2
22.5°	95.9	101.5	111.7	129.7	193.1	388.5	669.0	1034.3	1503.4	1757.1	1927.7
25°	84.6	89.4	99.1	113.9	141.5	273.6	587.6	1058.0	1658.7	1979.4	2160.6
27.5°	75.6	79.7	88.7	102.3	121.4	191.0	495.3	1086.8	1842.9	2206.6	2385.5
30°	67.4	71.0	79.0	91.6	105.5	146.8	394.0	1106.5	2027.3	2385.5	2546.1
32.5°	60.4	63.0	70.2	81.0	91.6	117.0	299.5	1103.3	2164.3	2534.3	2661.7
35°	53.1	55.7	62.0	71.3	79.7	96.7	235.6	1044.5	2283.4	2688.6	2794.0
37.5°	45.1	48.4	54.5	62.8	68.6	85.1	190.5	973.5	2404.4	2865.1	2941.6
40°	38.3	41.6	47.0	56.0	59.6	80.7	146.3	886.9	2540.3	3062.3	3103.5
42.5°	31.8	34.9	40.4	48.3	56.3	69.6	108.3	788.1	2670.9	3231.0	3251.1
45°	25.7	28.9	34.7	42.4	60.1	57.7	83.8	682.2	2776.4	3371.3	3377.8
47.5°	20.4	23.3	29.3	40.0	56.0	46.0	59.9	599.1	2864.8	3480.8	3463.6
50°	15.7	18.2	24.5	45.8	48.9	38.0	45.3	571.4	2944.1	3548.6	3504.0
52.5°	12.4	14.5	20.1	42.9	38.0	31.5	38.0	597.3	3052.6	3604.9	3526.8
55°	10.0	12.1	15.7	24.5	25.9	26.6	32.5	621.5	3239.9	3736.7	3661.4
57.5°	8.2	10.4	12.9	17.2	19.7	22.5	28.9	624.2	3460.7	3955.7	3884.6
59°	7.5	9.4	11.6	15.3	17.2	20.6	27.1	609.7	3538.5	4035.5	3999.9
60°	7.0	8.9	10.9	14.1	16.0	19.4	26.2	595.9	3541.8	4032.6	4049.1
62.5°	6.1	8.0	9.7	11.8	13.6	16.5	23.5	544.8	3398.4	3900.5	4019.4
65°	5.3	7.0	8.8	10.2	11.6	14.8	21.3	451.4	3153.4	3687.5	3817.1
67.5°	4.8	6.1	8.0	8.9	10.4	13.0	18.9	321.8	2847.4	3427.0	3511.1
70°	4.4	5.8	7.3	8.2	9.4	11.4	16.2	184.9	2404.4	3045.6	3105.4
72.5°	4.1	5.6	6.5	7.7	8.5	10.2	14.8	87.0	1760.5	2439.7	2596.0
75°	3.6	5.1	6.1	7.3	8.0	9.2	12.6	41.6	1171.0	1765.6	1943.2
77.5°	2.1	4.1	5.6	6.5	7.0	8.0	10.4	24.0	747.4	1222.1	1439.4
80°	0.0	1.5	4.1	5.6	6.1	6.8	8.0	18.9	399.8	698.1	837.9
82.5°	0.0	0.0	2.9	4.4	4.1	4.6	6.1	11.8	180.3	456.3	514.2
85°	0.0	0.0	0.9	3.4	2.9	2.1	4.1	4.1	39.5	230.9	288.1
87.5°	0.0	0.0	0.0	0.3	1.5	0.9	1.7	0.5	0.3	17.2	69.8
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-SA1C-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3	1666.3
2.5°	1883.6	1901.6	1931.8	1946.1	1939.1	1909.3	1873.7	1837.3	1816.0	1824.5
5°	1999.5	2091.8	2145.1	2162.8	2133.2	2066.4	1978.9	1863.5	1822.6	1811.4
7.5°	1999.5	2173.2	2283.2	2302.6	2236.6	2105.6	1941.5	1761.5	1701.7	1679.9
10°	1929.1	2165.7	2319.1	2349.8	2257.8	2061.7	1841.9	1636.4	1565.5	1542.9
12.5°	1850.0	2104.6	2266.3	2308.7	2233.0	2018.1	1772.8	1551.9	1468.3	1448.6
15°	1801.2	2029.5	2163.2	2194.1	2162.0	1992.7	1756.4	1526.4	1428.1	1409.2
17.5°	1818.7	1971.3	2019.6	2037.5	2059.1	1983.7	1801.2	1582.1	1457.6	1439.7
20°	1884.3	1910.0	1885.1	1907.6	1965.8	1992.4	1908.1	1716.9	1567.3	1543.4
22.5°	1995.8	1878.3	1808.2	1817.2	1888.0	2021.3	2071.4	1909.3	1736.8	1706.7
25°	2125.7	1904.0	1765.6	1757.6	1830.3	2059.3	2220.7	2118.7	1937.2	1904.0
27.5°	2289.0	1961.7	1756.9	1748.9	1810.2	2095.0	2344.8	2325.6	2148.2	2091.5
30°	2415.0	2018.4	1782.8	1764.4	1830.3	2119.6	2444.4	2501.3	2316.4	2278.8
32.5°	2505.4	2085.3	1825.0	1798.4	1887.0	2162.3	2521.1	2662.2	2472.0	2415.0
35°	2574.2	2157.9	1893.1	1849.2	1965.0	2227.0	2593.1	2833.5	2637.5	2575.2
37.5°	2638.7	2259.9	1999.5	1947.1	2087.4	2331.2	2669.3	3027.9	2822.6	2748.3
40°	2728.6	2375.5	2163.5	2116.9	2293.2	2473.2	2764.3	3230.4	3033.2	2939.7
42.5°	2818.5	2499.6	2331.5	2344.1	2549.7	2645.7	2886.9	3444.7	3241.1	3141.3
45°	2900.7	2627.5	2570.6	2628.7	2787.9	2835.0	3008.7	3568.5	3407.1	3310.7
47.5°	2973.9	2787.5	2808.3	2963.2	3058.9	3006.3	3099.8	3675.4	3530.8	3445.6
50°	3058.9	2994.5	3121.6	3340.7	3370.8	3161.4	3182.7	3801.8	3675.1	3606.8
52.5°	3152.0	3212.5	3468.7	3661.8	3652.1	3329.8	3266.1	3943.6	3873.1	3808.9
55°	3257.6	3388.7	3774.3	3962.3	3954.0	3517.9	3404.2	4118.8	4121.3	4063.1
57.5°	3414.4	3540.4	3981.7	4205.4	4219.2	3734.9	3638.3	4315.1	4345.7	4306.9
59°	3526.8	3638.8	4063.9	4306.9	4363.1	3902.9	3809.4	4429.0	4408.9	4373.5
60°	3610.2	3701.3	4104.6	4359.9	4446.7	4016.8	3935.6	4495.9	4416.4	4373.5
62.5°	3816.5	3837.5	4178.0	4420.0	4542.9	4269.8	4290.9	4609.8	4364.3	4294.2
65°	3912.6	3923.5	4177.0	4312.4	4449.8	4466.9	4613.2	4613.2	4237.1	4129.5
67.5°	3872.4	3819.8	3969.8	3955.7	4092.9	4349.8	4734.3	4444.0	3993.8	3854.7
70°	3545.3	3343.0	3276.3	3282.3	3387.3	3783.5	4494.4	3946.3	3533.4	3370.8
72.5°	2949.8	2464.5	2299.9	2487.7	2515.1	2907.7	3830.2	2971.9	2605.7	2453.3
75°	2372.7	1737.2	1469.7	1667.9	1714.4	2127.8	2963.0	1850.9	1522.1	1403.3
77.5°	1704.5	1247.1	1054.6	1040.8	1100.9	1349.5	2102.4	931.5	776.9	725.0
80°	968.3	820.8	883.8	833.8	864.1	843.8	998.9	408.6	334.6	312.8
82.5°	584.5	485.1	525.4	437.4	553.4	482.0	384.8	130.9	113.6	108.1
85°	380.3	265.1	138.1	92.6	190.7	308.0	86.0	35.6	27.4	21.8
87.5°	131.1	67.6	6.8	2.9	20.4	57.5	3.2	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)