

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: P383450

Luminaire Tested: **GLEON-SA7C-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383450
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-SA7C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA 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: 34551.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

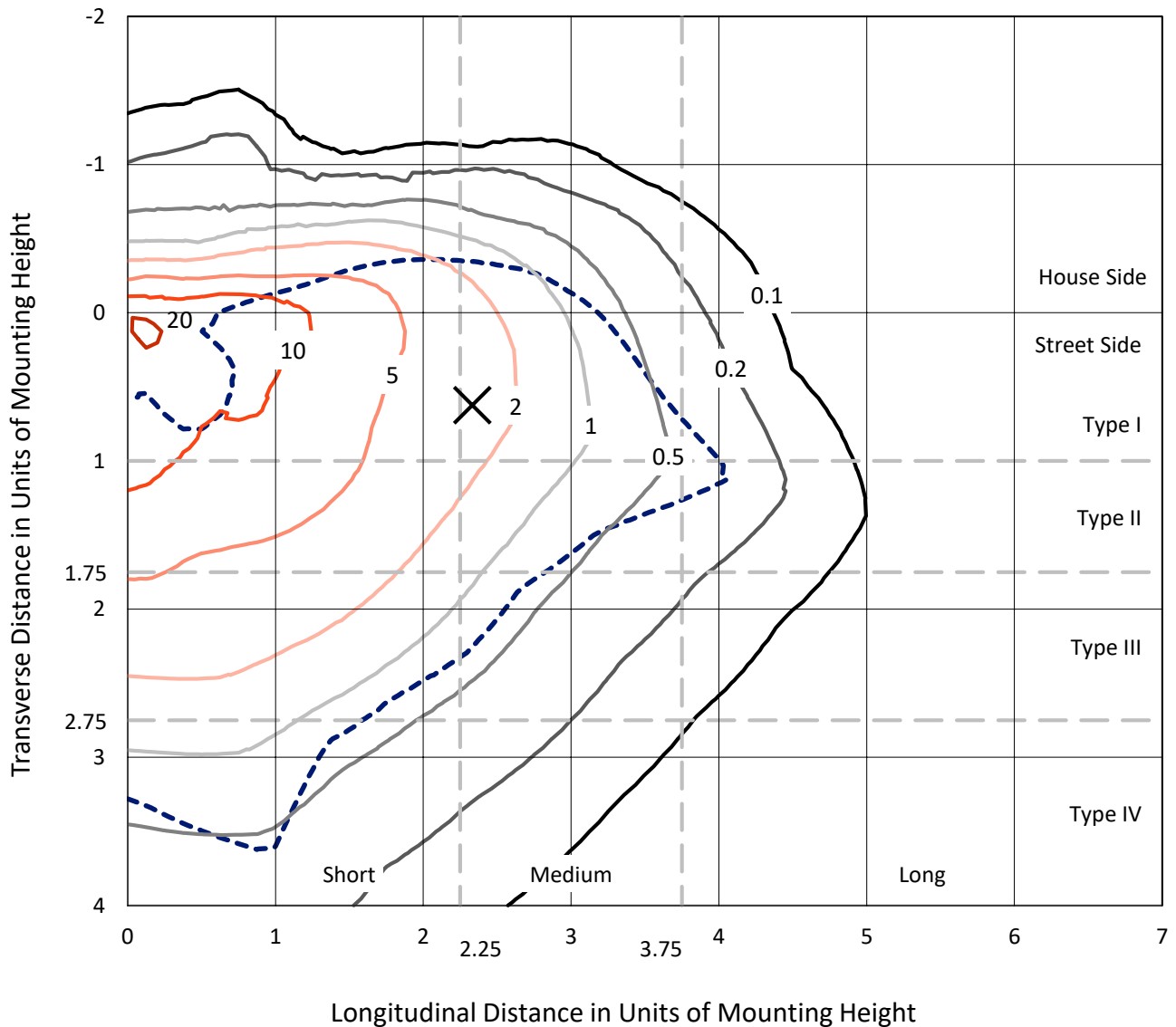
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

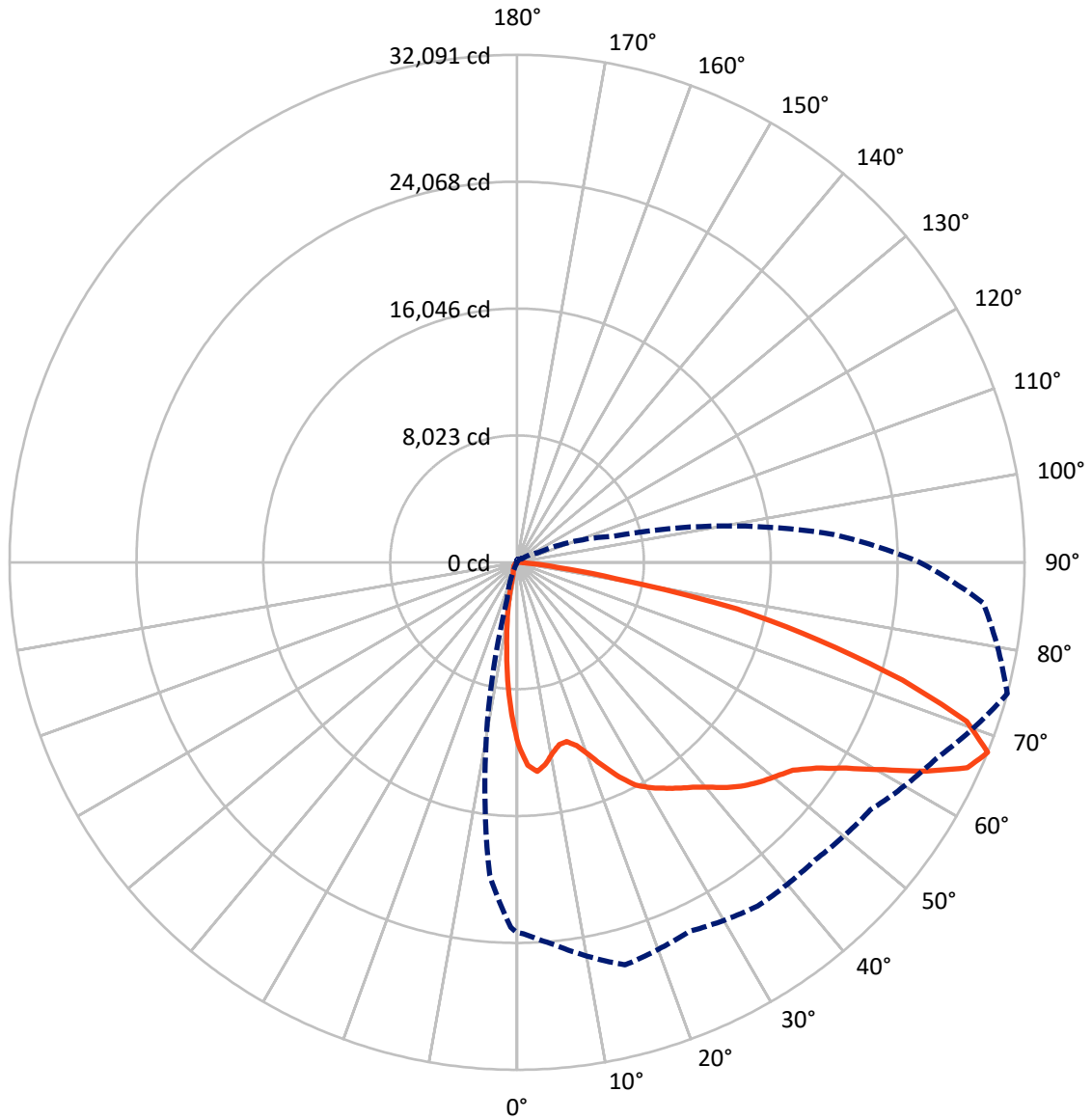
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 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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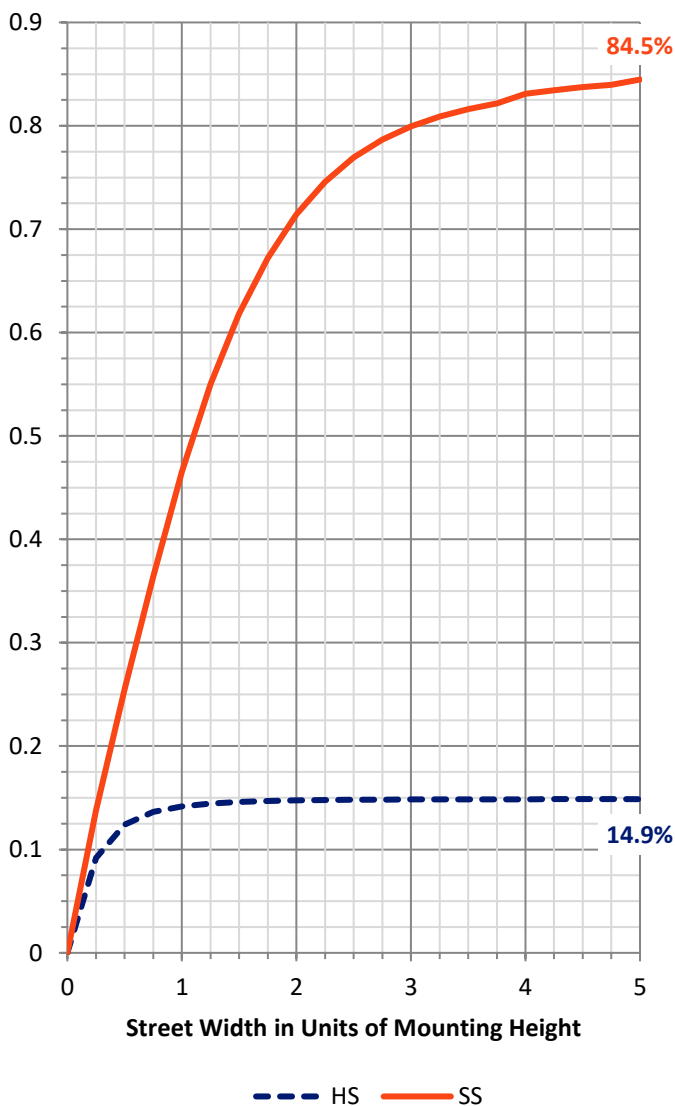
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5184.8	0.0	5184.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	29366.3	0.0	29366.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	34551.1	0.0	34551.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.3	2.5
10°-20°	1731.3	5.0
20°-30°	2449.2	7.1
30°-40°	3601.1	10.4
40°-50°	5175.9	15.0
50°-60°	7286.4	21.1
60°-70°	8509.8	24.6
70°-80°	4341.4	12.6
80°-90°	576.7	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°	34551.1	100.0
0°-180°	34551.1	100.0

Coefficient of Utilization

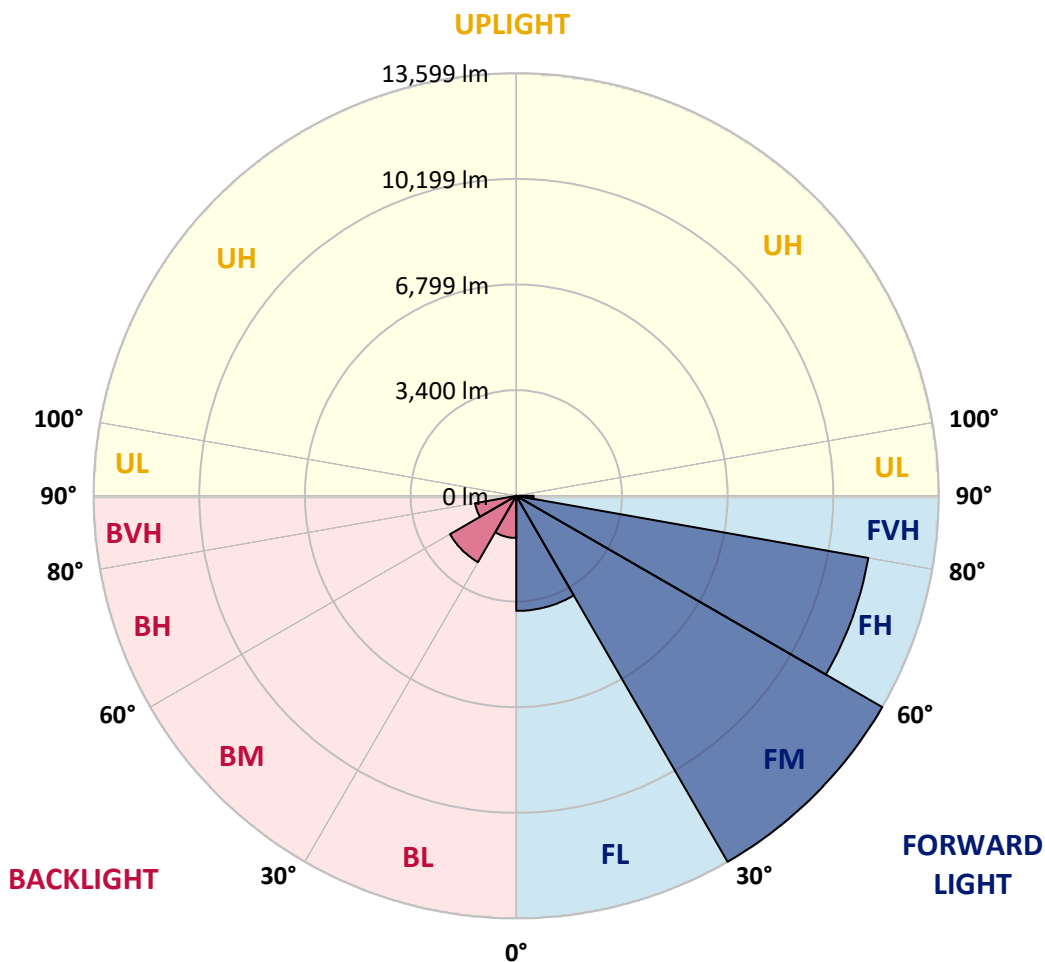


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3703.9	10.7			
FM (30°-60°)	13598.7	39.4			
FH (60°-80°)	11504.5	33.3			G4/12000
FVH (80°-90°)	559.2	1.6			G4/750
BL (0°-30°)	1355.9	3.9	B3/2500		
BM (30°-60°)	2464.7	7.1	B2/2500		
BH (60°-80°)	1346.7	3.9	B3/2500		G3/2500
BVH (80°-90°)	17.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3
2.5°	12565.2	12584.8	12686.3	12922.0	13178.9	13198.5	13372.1	13193.7	13133.1	12845.0	12547.1
5°	12660.1	12735.4	13084.0	13776.4	14377.0	14570.1	14707.6	14357.4	13989.1	13285.4	12534.1
7.5°	11895.8	12021.8	12570.0	13869.6	14943.3	15418.0	15508.0	14959.7	14057.9	12899.0	11769.7
10°	10917.0	11061.0	11722.2	13319.7	14794.4	15607.8	15732.3	15013.7	13717.4	12273.8	10943.2
12.5°	10124.8	10293.4	10969.3	12701.0	14282.1	15182.3	15427.8	14832.0	13422.8	11830.3	10378.5
15°	9759.8	9952.9	10663.2	12301.6	13714.2	14422.9	14625.8	14368.8	13259.1	11759.9	10247.6
17.5°	9969.3	10178.8	10912.1	12336.0	13180.6	13483.4	13647.1	13751.8	13259.1	12183.8	10630.5
20°	10828.6	11054.5	11830.3	12684.6	12738.6	12625.7	12800.9	13169.1	13413.0	12989.0	11550.4
22.5°	12016.9	12282.0	13157.6	13282.0	12522.6	12095.4	12118.3	12696.1	13692.8	14010.4	12827.0
25°	13465.3	13789.4	14679.8	14172.4	12612.6	11779.5	11771.3	12306.6	13966.2	15033.3	14249.3
27.5°	14904.0	15260.9	16043.2	15259.2	12984.2	11722.2	11705.9	12188.7	14233.0	15943.3	15802.6
30°	16110.3	16457.3	17131.6	16046.5	13385.1	11856.5	11777.9	12314.8	14391.8	16534.2	16935.3
32.5°	17092.3	17370.6	17915.6	16588.3	13814.0	12116.7	11946.4	12651.9	14661.8	17033.4	17976.2
35°	18172.6	18465.6	18683.2	17103.8	14295.2	12491.5	12247.6	13187.1	15077.6	17540.8	19116.9
37.5°	19405.1	19696.4	19670.2	17575.1	14905.7	13111.8	12956.3	14035.0	15724.1	18043.2	20390.4
40°	20611.3	20909.2	20696.4	18090.7	15622.5	14134.7	14020.2	15308.3	16589.8	18686.5	21883.1
42.5°	21740.6	22063.1	21608.1	18578.5	16476.9	15424.6	15620.9	16948.3	17673.4	19478.7	23169.5
45°	22650.7	22979.7	22372.4	19053.1	17377.1	16989.2	17580.1	18765.1	18976.2	20148.1	24038.6
47.5°	23311.9	23622.9	22902.7	19527.8	18529.4	18902.6	19932.0	20670.2	20153.0	20729.2	24655.6
50°	23734.2	23976.5	23058.2	20121.9	20041.7	21135.0	22382.2	22742.3	21261.1	21252.9	25405.3
52.5°	24002.6	24112.3	23172.8	20742.2	21619.5	23565.6	24781.7	24894.6	22401.9	21829.0	26415.2
55°	24927.4	25015.8	23984.6	21493.5	22924.0	25695.0	26952.0	26847.2	23693.3	22956.8	27606.7
57.5°	26505.1	26598.5	25662.3	22573.7	23979.7	27010.9	28524.9	28713.1	25207.2	24541.1	28883.3
60°	27297.3	27470.9	27136.9	23942.1	25002.6	27852.2	29596.9	30197.6	27099.3	26629.6	30120.7
62.5°	26578.8	26830.9	27315.3	25459.3	26019.1	28315.4	29930.8	30729.5	29037.2	29063.4	30883.4
65°	25145.1	25346.4	26168.0	26290.8	26608.3	28258.1	29105.9	29986.5	30223.8	31299.2	30842.5
67.5°	23413.4	23488.7	24186.0	26356.2	25753.9	26536.3	26627.9	27279.3	29286.0	32091.3	29603.5
70°	20920.6	20961.6	21570.5	24164.6	22131.8	22303.7	22167.9	22300.4	25177.8	30161.6	26475.7
72.5°	16837.0	16940.1	17806.0	20068.0	16123.4	15627.5	16694.6	16635.7	19390.3	25482.2	19663.7
75°	12396.6	12575.0	13882.8	16164.3	11316.3	10236.1	11015.2	11223.0	13784.5	19711.1	12296.7
77.5°	8679.6	8812.2	10079.0	11882.6	8190.2	7319.4	7037.9	7285.1	9098.6	14259.2	6195.0
80°	5000.2	5049.3	5857.9	6861.1	5519.0	6314.5	5720.4	5890.5	5452.0	6343.9	2664.6
82.5°	3271.8	3280.0	3595.9	4083.6	3437.1	3993.6	2955.9	3779.2	3353.7	2548.3	867.5
85°	1767.7	1777.5	2085.2	2898.6	1946.1	1099.9	646.5	1327.4	2073.7	584.3	237.4
87.5°	194.8	178.4	628.5	1054.0	540.1	99.9	34.4	149.0	332.3	37.6	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°	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3
2.5°	12394.9	12259.1	11920.3	11561.8	11273.8	11003.7	10732.0	10399.8	10142.8	10090.4	10005.3
5°	12129.8	11699.3	10989.0	10275.3	9700.9	8975.8	8515.9	8157.5	7807.2	7785.9	7715.5
7.5°	11203.4	10637.1	9637.0	8650.1	7841.6	7150.8	6453.6	5987.1	5620.5	5491.2	5414.2
10°	10313.0	9676.4	8427.5	7301.5	6579.6	5969.2	5478.2	4990.4	4548.5	4244.0	4106.5
12.5°	9691.1	8987.3	7610.7	6640.2	6123.0	5543.6	4944.6	4335.7	3826.7	3460.0	3235.8
15°	9450.5	8699.2	7337.4	6378.3	5740.0	5006.8	4240.8	3545.2	2980.5	2648.2	2446.9
17.5°	9736.9	8862.8	7316.2	6059.2	5167.1	4255.5	3409.3	2587.7	2055.7	1803.7	1674.4
20°	10463.6	9383.4	7308.0	5668.0	4486.2	3365.1	2309.4	1702.2	1379.7	1239.0	1178.4
22.5°	11491.5	10047.9	7373.5	5281.7	3777.6	2404.3	1594.2	1250.4	1085.2	1009.9	975.5
25°	12813.9	10980.8	7558.4	4931.4	3111.5	1793.9	1242.3	1047.5	931.3	872.4	847.8
27.5°	14223.1	12054.5	7846.4	4627.0	2569.7	1430.5	1063.8	896.9	813.4	772.5	749.6
30°	15385.3	13298.4	8137.8	4288.2	2176.8	1247.2	973.8	818.4	721.8	695.6	674.3
32.5°	16401.7	14239.5	8344.1	3982.2	1919.9	1108.1	880.6	731.6	666.1	615.4	592.5
35°	17454.0	15023.5	8337.4	3767.7	1743.1	1003.3	802.0	654.7	576.2	517.2	499.2
37.5°	18593.2	15909.0	8195.1	3584.4	1666.2	919.8	757.8	613.8	535.2	476.3	453.4
40°	19927.2	16838.7	8049.4	3412.5	1644.9	852.7	726.7	581.0	497.5	440.2	417.3
42.5°	21226.7	17676.7	7921.8	3284.9	1553.3	851.1	698.8	556.5	468.1	412.5	386.3
45°	22266.0	18457.4	7897.2	3208.0	1456.7	880.6	684.1	540.1	445.2	389.6	365.0
47.5°	23130.2	19305.2	8054.3	3153.9	1365.0	803.6	720.2	528.7	423.9	369.9	342.1
50°	24158.1	20346.1	8424.3	3065.6	1268.5	723.4	824.9	531.9	405.9	350.3	320.8
52.5°	25591.8	21786.5	8967.6	2916.7	1135.9	649.8	811.8	535.2	386.3	329.0	299.5
55°	27199.1	23585.2	9551.9	2669.5	950.9	553.2	695.6	512.3	348.6	306.1	278.3
57.5°	28888.2	25217.1	9898.9	2374.9	756.1	477.9	556.5	466.4	307.7	275.0	256.9
60°	29153.4	25837.4	9740.2	2013.2	600.7	415.7	412.5	474.6	275.0	242.2	229.2
62.5°	28493.8	25058.3	8972.6	1690.8	502.5	365.0	338.8	414.1	248.8	216.0	203.0
65°	27225.3	22951.8	7728.6	1523.8	466.4	312.6	281.5	291.3	217.7	188.3	176.8
67.5°	25461.0	20140.0	6345.6	1428.9	461.6	268.4	240.6	221.0	188.3	163.7	153.9
70°	21853.5	16778.1	5062.4	1376.5	448.4	225.9	203.0	180.1	157.2	139.1	131.0
72.5°	16084.1	11889.2	3937.9	1319.2	451.7	180.1	176.8	149.0	126.0	108.1	104.7
75°	9293.3	6792.4	2582.7	1068.8	430.5	139.1	147.3	104.7	88.4	75.3	75.3
77.5°	4952.8	4142.6	983.7	445.2	157.2	88.4	83.5	62.2	55.6	45.8	44.2
80°	2158.9	1823.3	296.2	124.4	86.7	47.5	31.1	27.9	24.6	19.7	18.0
82.5°	764.3	659.6	96.6	60.6	37.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	173.5	124.4	0.0	14.7	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°	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3
2.5°	9831.8	9795.8	9583.0	9591.2	9628.8	9682.9	9555.3	9614.1	9772.9	9925.1	9982.4
5°	7602.6	7610.7	7481.4	7561.7	7633.7	7682.8	7476.6	7479.9	7605.9	7777.8	7867.8
7.5°	5357.1	5343.9	5350.4	5542.0	5677.8	5579.6	5656.5	5389.7	5406.1	5528.8	5437.2
10°	3982.2	3802.1	3700.7	3844.7	3993.6	3939.6	3807.0	3720.3	3780.9	3916.7	3906.9
12.5°	3129.4	2870.8	2718.6	2615.5	2738.3	2636.7	2633.5	2558.2	2476.3	2491.1	2708.8
15°	2353.6	2165.4	1985.3	1820.1	1816.8	1782.4	1607.3	1410.8	1394.5	1404.3	1517.2
17.5°	1618.8	1554.8	1481.3	1338.8	1301.2	1157.2	987.0	908.4	869.1	887.1	924.7
20°	1137.5	1113.0	1121.1	1044.3	990.2	852.7	752.9	721.8	715.2	733.2	751.3
22.5°	942.7	898.6	893.6	859.3	805.2	705.5	651.4	633.5	625.3	641.6	654.7
25°	824.9	780.7	762.8	741.4	684.1	615.4	582.7	566.3	558.1	568.0	576.2
27.5°	726.7	685.8	669.4	654.7	599.1	550.0	523.7	509.0	502.5	505.7	513.9
30°	653.0	617.1	595.7	577.7	530.3	496.0	473.0	458.3	451.7	451.7	459.9
32.5°	576.2	556.5	536.9	513.9	469.8	446.9	423.9	407.6	401.0	402.6	409.1
35°	479.6	473.0	477.9	456.6	419.0	399.4	376.4	358.5	353.5	355.2	361.7
37.5°	425.5	396.1	414.1	402.6	381.4	355.2	325.7	309.4	301.2	306.1	309.4
40°	391.2	355.2	342.1	353.5	350.3	307.7	281.5	265.1	258.6	260.3	263.5
42.5°	361.7	319.1	289.7	288.0	307.7	268.4	240.6	225.9	217.7	217.7	221.0
45°	333.9	288.0	252.1	224.2	258.6	227.5	201.3	188.3	178.4	178.4	180.1
47.5°	312.6	261.9	219.3	183.3	194.8	186.6	165.3	152.2	142.4	142.4	144.0
50°	293.0	235.7	189.8	153.9	145.7	153.9	134.2	119.5	112.9	111.3	114.6
52.5°	271.7	209.5	162.0	131.0	114.6	116.2	104.7	94.9	86.7	86.7	90.0
55°	250.4	188.3	140.8	111.3	94.9	86.7	83.5	76.9	70.4	70.4	73.7
57.5°	229.2	165.3	119.5	91.7	75.3	68.7	68.7	63.8	59.0	59.0	62.2
60°	209.5	142.4	98.2	75.3	59.0	57.3	59.0	54.0	50.8	50.8	54.0
62.5°	186.6	121.1	80.2	62.2	47.5	45.8	50.8	47.5	44.2	44.2	47.5
65°	158.7	103.1	63.8	47.5	36.1	36.1	42.6	39.3	36.1	36.1	39.3
67.5°	134.2	86.7	49.1	34.4	26.2	27.9	36.1	32.7	31.1	31.1	34.4
70°	111.3	67.1	34.4	21.2	14.7	21.2	27.9	27.9	27.9	27.9	31.1
72.5°	83.5	45.8	19.7	8.2	6.5	14.7	22.9	26.2	24.6	24.6	29.4
75°	54.0	26.2	6.5	0.0	0.0	8.2	18.0	21.2	21.2	19.7	24.6
77.5°	31.1	8.2	0.0	0.0	0.0	0.0	11.5	9.8	8.2	6.5	11.5
80°	8.2	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



REPORT NUMBER: P383450
 CATALOG NUMBER: GLEON-SA7C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3	11591.3
2.5°	10213.2	10406.3	10678.1	10966.1	11409.6	11761.5	12106.9	12403.1	12517.7	12565.2
5°	8083.8	8367.0	8764.7	9275.3	10075.7	10795.9	11525.9	12260.8	12579.9	12660.1
7.5°	5800.6	6162.3	6668.0	7308.0	8245.9	9178.7	10198.5	11277.0	11771.3	11895.8
10°	4293.1	4735.1	5314.5	5988.8	6884.0	7843.2	8954.5	10187.0	10751.6	10917.0
12.5°	3046.0	3643.4	4419.2	5239.2	6015.0	6871.0	7995.4	9353.9	9946.4	10124.8
15°	1788.9	2366.7	3284.9	4383.1	5376.6	6244.1	7386.5	8926.7	9579.8	9759.8
17.5°	1026.2	1314.3	2008.2	3232.6	4581.2	5782.6	7195.1	9033.1	9802.4	9969.3
20°	784.0	875.7	1157.2	2081.9	3651.6	5329.2	7195.1	9635.4	10583.0	10828.6
22.5°	685.8	752.9	867.5	1242.3	2687.5	4843.1	7278.6	10506.2	11745.1	12016.9
25°	608.9	669.4	767.6	934.5	1833.1	4265.3	7476.6	11574.9	13113.5	13465.3
27.5°	545.0	602.3	690.7	818.4	1253.8	3568.1	7743.4	12828.7	14622.5	14904.0
30°	487.8	541.8	622.0	712.0	967.3	2777.5	7970.9	14010.4	15807.5	16110.3
32.5°	433.7	482.8	554.8	622.0	792.2	2054.1	7995.4	14946.6	16791.1	17092.3
35°	383.0	427.2	492.7	545.0	656.4	1622.0	7614.1	15758.4	17774.9	18172.6
37.5°	333.9	376.4	433.7	473.0	577.7	1322.5	7031.4	16663.5	19036.7	19405.1
40°	288.0	325.7	384.6	410.8	546.6	1016.4	6398.0	17612.9	20274.1	20611.3
42.5°	245.5	281.5	338.8	389.6	479.6	759.4	5713.8	18503.2	21387.1	21740.6
45°	204.6	242.2	299.5	412.5	397.8	568.0	4982.2	19094.0	22266.0	22650.7
47.5°	165.3	207.8	286.5	392.8	317.6	417.3	4402.8	19653.8	22932.2	23311.9
50°	132.6	175.1	322.4	350.3	260.3	319.1	4160.6	20154.7	23369.2	23734.2
52.5°	108.1	147.3	304.4	268.4	217.7	263.5	4291.5	20966.4	23773.5	24002.6
55°	90.0	116.2	183.3	186.6	184.9	224.2	4453.5	22131.8	24819.3	24927.4
57.5°	78.5	93.2	127.6	144.0	155.5	199.7	4456.8	23804.6	26438.1	26505.1
60°	67.1	81.8	106.4	116.2	134.2	178.4	4294.8	24388.8	27074.8	27297.3
62.5°	59.0	72.0	88.4	96.6	112.9	160.4	3915.0	23542.7	26200.7	26578.8
65°	52.4	65.5	73.7	81.8	99.9	144.0	3289.9	21850.3	24750.6	25145.1
67.5°	45.8	57.3	65.5	73.7	90.0	127.6	2422.4	19884.6	23086.1	23413.4
70°	40.9	50.8	59.0	65.5	78.5	108.1	1469.8	16873.0	20784.8	20920.6
72.5°	39.3	45.8	54.0	59.0	68.7	94.9	744.7	12399.8	16616.0	16837.0
75°	34.4	40.9	49.1	52.4	60.6	81.8	302.8	8144.3	12041.4	12396.6
77.5°	27.9	37.6	44.2	47.5	52.4	67.1	153.9	5204.8	8450.4	8679.6
80°	9.8	27.9	37.6	39.3	44.2	49.1	101.4	2849.5	4902.0	5000.2
82.5°	0.0	18.0	29.4	27.9	31.1	37.6	65.5	1355.2	3235.8	3271.8
85°	0.0	8.2	22.9	18.0	13.1	26.2	22.9	296.2	1697.3	1767.7
87.5°	0.0	0.0	1.7	8.2	6.5	9.8	3.3	1.7	153.9	194.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)