

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: P383676

Luminaire Tested: **GLEON-SA9C-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383676
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-SA9C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 43664.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): 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

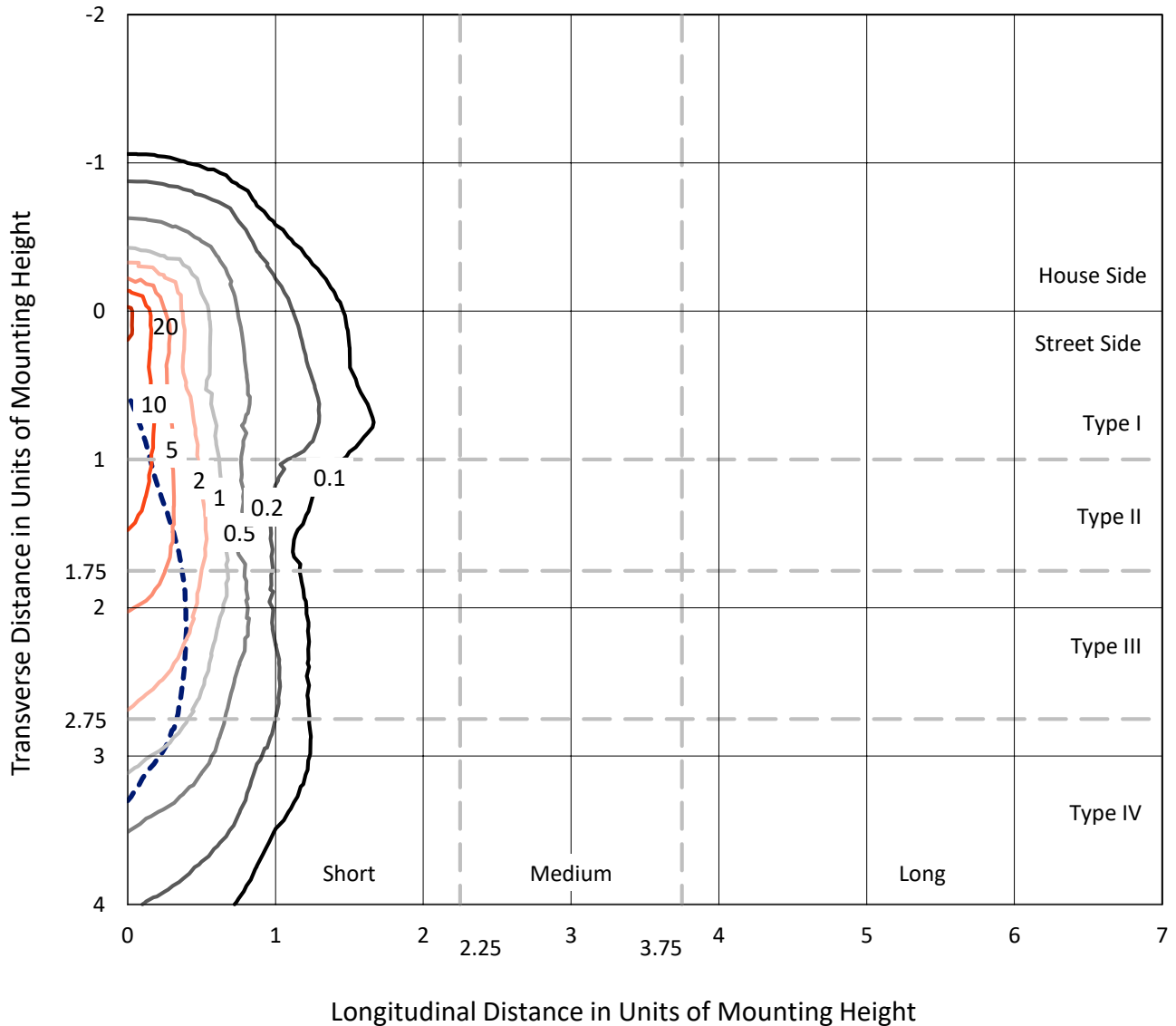




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Iso-Footcandle Lines of Horizontal Illumination

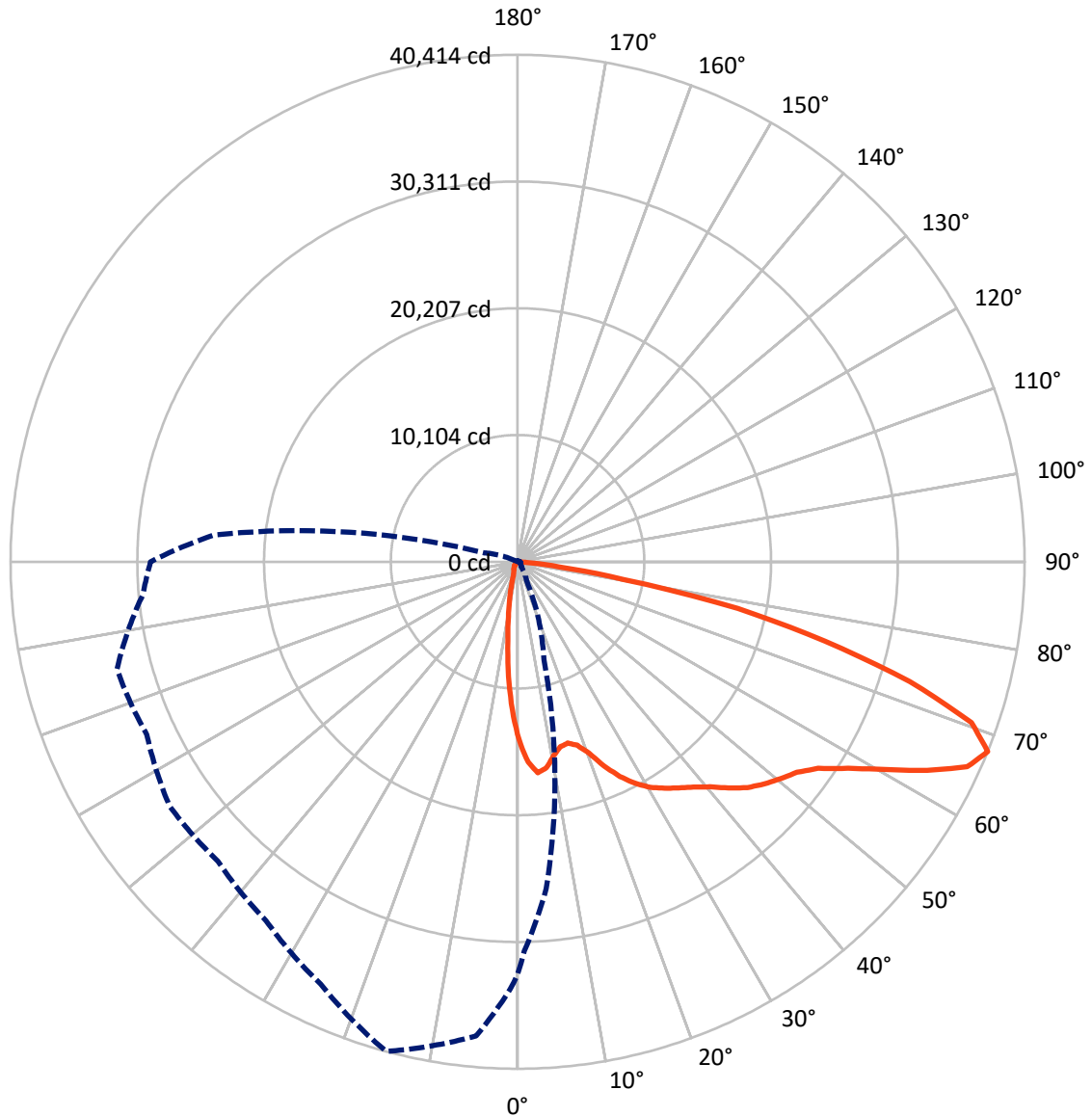
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 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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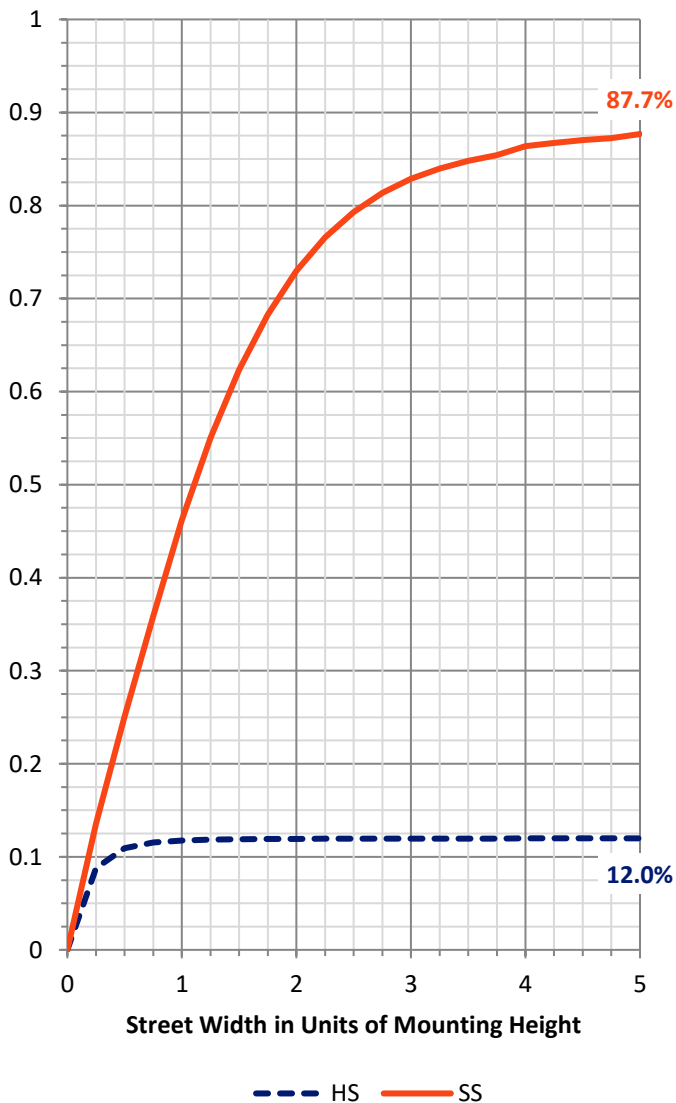
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5284.8	0.0	5284.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	38379.6	0.0	38379.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	43664.4	0.0	43664.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.7	2.5
10°-20°	2172.9	5.0
20°-30°	3085.5	7.1
30°-40°	4557.5	10.4
40°-50°	6572.9	15.1
50°-60°	9227.0	21.1
60°-70°	10756.0	24.6
70°-80°	5498.7	12.6
80°-90°	702.2	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°	43664.4	100.0
0°-180°	43664.4	100.0

Coefficient of Utilization

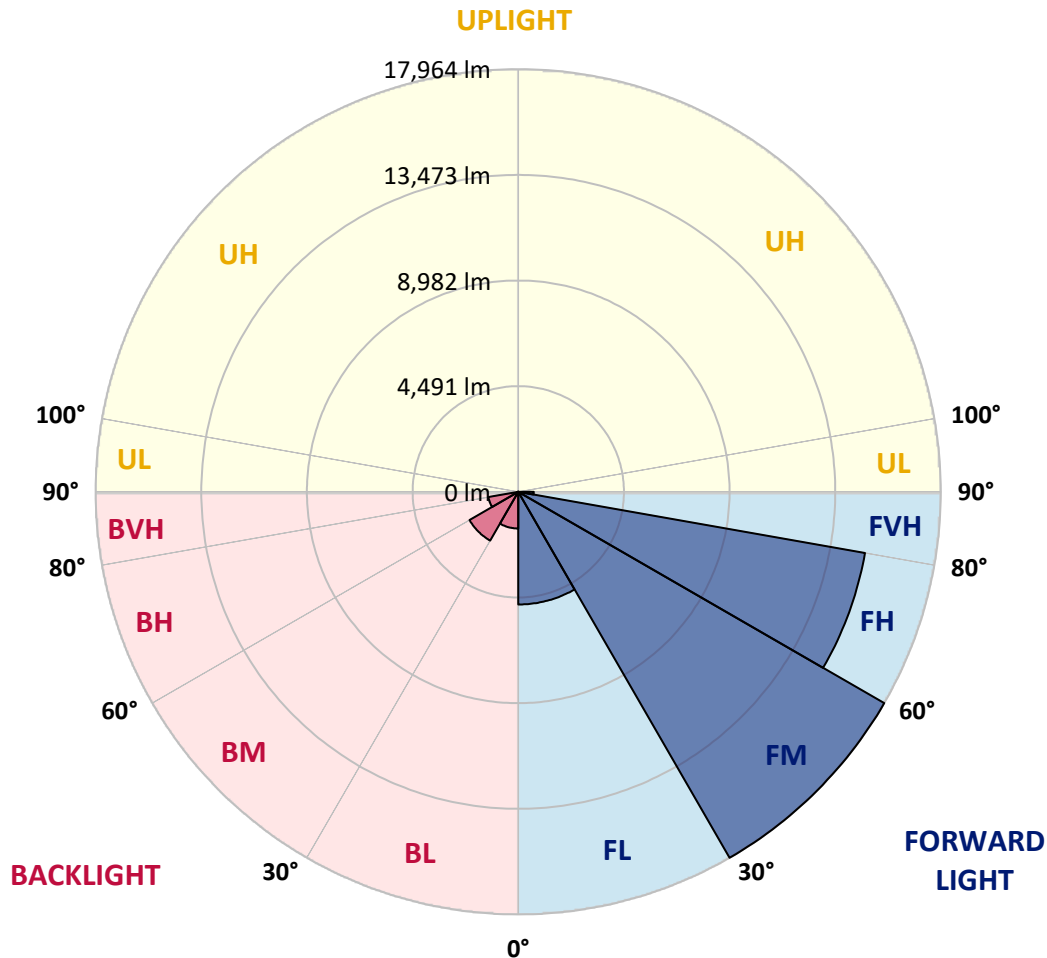


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4789.1	11.0			
FM (30°-60°)	17964.3	41.1			
FH (60°-80°)	14966.6	34.3			G5
FVH (80°-90°)	659.6	1.5			G4/750
BL (0°-30°)	1560.9	3.6	B3/2500		
BM (30°-60°)	2393.1	5.5	B2/2500		
BH (60°-80°)	1288.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	42.7	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6
2.5°	15574.4	15454.4	15322.0	14889.7	14488.4	14029.2	13654.7	13394.1	13067.3	12643.2	12535.6
5°	15462.7	15334.5	14918.6	13956.7	13114.9	12295.7	11505.5	11042.1	10467.1	9883.7	9738.9
7.5°	14339.4	14205.0	13605.1	12287.4	11153.8	9970.6	8944.5	8309.5	7660.0	7126.2	6842.9
10°	13170.7	13023.8	12349.4	10750.4	9354.1	8284.7	7531.7	6925.6	6311.2	5740.3	5285.2
12.5°	12366.0	12173.7	11441.4	9629.3	8412.9	7686.9	6983.5	6257.5	5425.9	4813.6	4313.0
15°	12028.8	11809.6	11036.0	9197.0	8079.9	7227.6	6311.2	5419.7	4445.4	3744.2	3284.9
17.5°	12289.4	12004.0	11174.5	9168.0	7662.1	6501.6	5343.2	4296.5	3239.4	2529.9	2203.0
20°	13174.9	12800.4	11747.5	9159.7	7155.2	5638.9	4170.3	2987.0	2134.8	1716.9	1545.3
22.5°	14569.0	14074.7	12570.8	9225.9	6631.9	4732.9	3011.9	2029.3	1603.2	1386.0	1284.6
25°	16252.9	15679.9	13756.1	9459.7	6172.6	3851.7	2188.6	1603.2	1352.9	1193.6	1108.7
27.5°	17853.9	17388.5	15253.7	9796.8	5816.9	3140.2	1776.9	1359.0	1156.3	1050.9	982.6
30°	19453.0	18867.6	16790.7	10198.1	5388.6	2658.2	1561.7	1239.1	1036.3	924.7	881.2
32.5°	20615.5	20129.4	17994.6	10487.7	4931.5	2343.7	1396.3	1133.6	968.1	854.3	790.2
35°	21982.8	21432.7	19026.9	10551.8	4637.8	2145.2	1255.6	1019.9	839.9	738.5	670.2
37.5°	23459.8	22775.1	20218.4	10411.2	4408.2	2047.9	1150.1	968.1	784.0	680.6	608.2
40°	25094.0	24320.4	21362.3	10208.5	4182.6	2014.8	1069.4	928.8	740.6	635.0	560.6
42.5°	26815.1	25902.9	22353.1	9995.4	4039.9	1901.0	1061.2	889.5	707.4	593.7	519.2
45°	28261.0	27336.4	23370.9	9925.1	3938.6	1776.9	1096.3	862.6	684.7	560.6	488.2
47.5°	29413.2	28538.2	24413.4	10082.3	3880.6	1663.2	999.1	897.7	672.3	531.6	461.3
50°	30788.9	29798.0	25882.2	10551.8	3795.9	1549.3	904.0	1028.1	672.3	513.0	438.6
52.5°	32514.1	31533.5	27520.5	11280.0	3626.2	1392.2	813.0	1030.2	678.5	488.2	409.6
55°	34684.0	33972.4	29860.1	12078.4	3355.2	1160.5	703.3	885.3	653.7	442.7	382.7
57.5°	36765.0	36183.7	31992.8	12624.6	2993.2	906.0	612.3	713.7	597.9	388.9	341.3
59°	37333.9	36698.8	32774.7	12649.4	2722.3	790.2	566.8	589.6	585.4	364.0	316.5
60°	37333.9	36659.5	33000.2	12517.0	2525.7	726.0	537.9	525.4	610.3	347.6	302.0
62.5°	36657.4	35710.0	32267.9	11621.3	2060.3	618.5	469.6	434.4	548.2	312.3	266.9
65°	35250.8	33871.1	29773.2	10001.7	1836.9	566.8	405.4	355.8	380.6	275.1	233.7
67.5°	32905.1	31035.0	26175.9	8079.9	1748.0	552.3	349.6	302.0	287.6	235.8	204.8
70°	28774.0	26699.3	21809.1	6352.6	1671.4	546.1	293.7	254.4	231.7	198.6	173.7
72.5°	20942.4	18778.6	15483.3	4966.6	1625.9	558.6	235.8	213.0	190.3	155.1	134.4
75°	11979.2	10562.2	8702.5	3280.8	1386.0	533.7	182.0	177.9	136.6	111.7	93.1
77.5°	6189.2	6000.9	5214.9	1259.7	664.0	233.7	120.0	103.4	80.7	68.3	55.9
80°	2670.6	2641.6	2285.8	364.0	175.9	130.3	68.3	43.4	37.3	29.0	22.7
82.5°	922.6	922.6	813.0	122.0	78.6	64.1	8.3	0.0	0.0	0.0	0.0
85°	186.2	208.9	146.9	0.0	26.9	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°	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6
2.5°	12405.3	12155.0	12138.4	11981.3	11784.7	11695.8	11644.1	11735.1	11846.8	11859.3	12026.7
5°	9629.3	9366.5	9476.2	9197.0	9252.8	9197.0	9105.9	9122.5	9172.1	9017.0	9209.4
7.5°	6762.2	6563.6	6689.8	6615.4	6714.6	6753.9	6698.1	6615.4	6371.2	6342.3	6509.8
10°	5097.0	4871.5	4737.1	4596.4	4627.5	4691.6	4670.9	4610.9	4455.8	4464.0	4625.3
12.5°	4095.8	3843.5	3576.6	3231.2	3146.3	3193.9	3146.3	3111.2	2962.2	2974.6	3117.3
15°	3107.0	2900.2	2620.9	2343.7	2192.7	2207.2	2074.8	1981.7	1888.6	1776.9	1863.8
17.5°	2097.6	1971.3	1888.6	1805.9	1625.9	1584.6	1417.0	1237.0	1166.7	1115.0	1152.2
20°	1485.3	1417.0	1383.9	1379.7	1276.3	1224.6	1061.2	949.5	914.3	904.0	926.7
22.5°	1241.2	1191.5	1143.9	1117.0	1065.3	1005.3	881.2	825.4	800.6	788.1	804.7
25°	1079.8	1042.6	992.9	947.4	926.7	862.6	773.7	732.3	715.7	703.3	711.6
27.5°	959.9	926.7	868.8	839.9	823.3	767.4	690.9	657.8	643.3	639.2	637.1
30°	864.7	833.6	779.9	746.7	717.8	668.2	622.6	589.6	575.0	570.9	566.8
32.5°	769.6	744.7	709.6	676.4	645.4	599.9	560.6	533.7	511.0	506.8	504.7
35°	649.6	624.7	606.1	604.0	575.0	531.6	502.7	467.5	448.9	442.7	444.7
37.5°	577.1	544.0	502.7	517.1	508.9	477.9	438.6	403.4	384.7	380.6	380.6
40°	531.6	496.4	448.9	424.0	448.9	442.7	380.6	345.4	326.9	324.7	320.6
42.5°	488.2	453.0	399.3	357.9	370.3	388.9	328.9	295.8	277.2	273.0	266.9
45°	457.2	419.9	359.9	312.3	287.6	326.9	281.3	240.0	229.6	221.3	217.2
47.5°	428.2	393.0	324.7	271.0	229.6	235.8	225.4	196.6	184.1	175.9	173.7
50°	403.4	366.1	293.7	231.7	190.3	173.7	182.0	155.1	144.8	136.6	132.4
52.5°	374.4	339.3	260.6	200.7	159.3	136.6	138.6	122.0	111.7	105.5	103.4
55°	351.7	316.5	233.7	175.9	140.7	111.7	99.3	95.1	89.0	84.8	82.7
57.5°	320.6	287.6	206.9	149.0	120.0	91.0	76.6	76.6	74.4	70.3	68.3
59°	302.0	273.0	190.3	134.4	109.6	78.6	68.3	70.3	68.3	64.1	62.0
60°	287.6	260.6	177.9	124.1	103.4	72.4	62.0	66.2	64.1	60.0	57.9
62.5°	254.4	235.8	153.1	103.4	91.0	57.9	51.7	55.9	55.9	53.8	51.7
65°	223.4	202.7	130.3	86.9	84.8	49.7	41.4	49.7	51.7	47.6	43.4
67.5°	194.4	173.7	113.7	70.3	78.6	39.3	31.0	41.4	55.9	43.4	39.3
70°	165.4	144.8	89.0	55.9	82.7	26.9	24.8	37.3	66.2	47.6	37.3
72.5°	128.3	111.7	62.0	41.4	89.0	18.6	18.6	31.0	74.4	51.7	35.2
75°	89.0	72.4	37.3	24.8	72.4	12.4	12.4	29.0	70.3	47.6	33.1
77.5°	51.7	39.3	12.4	2.0	37.3	0.0	2.0	20.7	49.7	29.0	14.4
80°	18.6	8.3	0.0	0.0	22.7	0.0	0.0	0.0	4.1	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°	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6
2.5°	12070.2	12349.4	12599.7	12978.3	13427.2	13944.3	14389.1	14866.9	15315.9	15502.0	15630.3
5°	9248.7	9594.1	9997.5	10554.0	11294.5	12206.7	13061.0	14027.1	15065.5	15584.7	16072.9
7.5°	6538.8	6890.5	7391.1	7982.7	8878.4	9964.4	11081.4	12415.7	13822.3	14643.6	15452.3
10°	4701.9	5134.2	5601.8	6410.5	7320.8	8350.9	9501.0	10990.4	12558.4	13468.6	14442.9
12.5°	3200.1	3692.5	4399.9	5305.9	6375.4	7384.8	8384.0	9805.1	11625.4	12527.4	13572.0
15°	1919.6	2192.7	2941.5	3990.3	5301.8	6559.5	7653.8	9079.0	11019.4	12124.0	13210.0
17.5°	1183.3	1309.4	1716.9	2577.5	3955.2	5545.9	7045.6	8832.8	11106.3	12450.8	13613.4
20°	943.3	992.9	1123.3	1522.5	2620.9	4428.9	6360.9	8783.2	11815.7	13470.6	14718.0
22.5°	819.2	866.7	953.6	1106.7	1648.7	3315.9	5711.4	8828.7	12833.6	14999.3	16455.6
25°	721.9	763.3	846.0	972.3	1208.0	2335.4	5016.3	9031.4	14159.5	16896.2	18443.5
27.5°	645.4	680.6	757.1	873.0	1036.3	1630.0	4228.2	9277.7	15731.6	18836.5	20363.2
30°	575.0	606.1	674.3	781.9	899.9	1253.6	3363.5	9445.1	17305.8	20363.2	21734.7
32.5°	515.1	537.9	599.9	690.9	781.9	999.1	2556.8	9418.3	18474.5	21633.3	22721.4
35°	453.0	475.7	529.6	608.2	680.6	825.4	2010.7	8915.7	19492.3	22951.0	23850.8
37.5°	384.7	413.7	465.4	535.7	585.4	726.0	1625.9	8309.5	20524.5	24456.9	25110.6
40°	326.9	355.8	401.3	477.9	508.9	688.9	1249.4	7571.1	21685.0	26140.7	26492.4
42.5°	271.0	297.9	345.4	411.7	479.9	593.7	924.7	6727.1	22800.0	27580.5	27752.2
45°	219.3	246.2	295.8	362.0	513.0	492.3	715.7	5823.1	23699.8	28778.2	28834.0
47.5°	173.7	198.6	250.3	341.3	477.9	393.0	511.0	5113.5	24454.8	29713.2	29566.3
50°	134.4	155.1	208.9	391.0	417.9	324.7	386.9	4877.8	25131.3	30292.4	29911.8
52.5°	105.5	124.1	171.7	366.1	324.7	268.9	324.7	5099.1	26058.0	30772.3	30106.2
55°	84.8	103.4	134.4	208.9	221.3	227.6	277.2	5305.9	27657.0	31897.6	31254.3
57.5°	70.3	89.0	109.6	146.9	167.6	192.4	246.2	5328.6	29541.5	33767.6	33159.5
59°	64.1	80.7	99.3	130.3	146.9	175.9	231.7	5204.6	30205.5	34448.2	34144.1
60°	60.0	76.6	93.1	120.0	136.6	165.4	223.4	5086.6	30234.5	34423.4	34564.0
62.5°	51.7	68.3	82.7	101.4	115.9	140.7	200.7	4650.2	29009.9	33296.0	34311.7
65°	45.6	60.0	74.4	86.9	99.3	126.2	182.0	3853.8	26918.6	31477.7	32584.4
67.5°	41.4	51.7	68.3	76.6	89.0	111.7	161.3	2747.0	24305.9	29253.9	29971.8
70°	37.3	49.7	62.0	70.3	80.7	97.3	138.6	1578.3	20524.5	25998.0	26509.0
72.5°	35.2	47.6	55.9	66.2	72.4	86.9	126.2	742.6	15028.3	20826.5	22160.8
75°	31.0	43.4	51.7	62.0	68.3	78.6	107.6	355.8	9995.4	15071.7	16588.0
77.5°	18.6	35.2	47.6	55.9	60.0	68.3	89.0	204.8	6379.5	10431.8	12287.4
80°	0.0	12.4	35.2	47.6	51.7	57.9	68.3	161.3	3413.2	5959.6	7153.2
82.5°	0.0	0.0	24.8	37.3	35.2	39.3	51.7	101.4	1539.0	3895.2	4389.5
85°	0.0	0.0	8.3	29.0	24.8	18.6	35.2	35.2	337.2	1971.3	2459.6
87.5°	0.0	0.0	0.0	2.0	12.4	8.3	14.4	4.1	2.0	146.9	595.7
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: P383676

CATALOG NUMBER: GLEON-SA9C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6	14223.6
2.5°	16079.2	16232.2	16490.8	16612.8	16552.9	16298.4	15994.3	15684.0	15502.0	15574.4
5°	17067.9	17856.1	18311.2	18462.2	18209.8	17638.9	16892.1	15907.5	15557.9	15462.7
7.5°	17067.9	18551.1	19490.2	19655.7	19093.1	17973.9	16573.5	15036.6	14525.6	14339.4
10°	16468.0	18486.9	19796.4	20059.1	19273.1	17599.5	15723.3	13969.2	13363.1	13170.7
12.5°	15791.6	17965.6	19345.4	19707.4	19062.1	17227.2	15133.8	13247.3	12533.6	12366.0
15°	15375.8	17324.5	18466.3	18729.0	18455.9	17010.0	14993.2	13030.0	12190.2	12028.8
17.5°	15524.7	16827.9	17239.6	17392.6	17576.8	16933.5	15375.8	13505.8	12442.6	12289.4
20°	16085.3	16304.6	16091.6	16283.9	16780.3	17007.9	16288.0	14655.9	13379.6	13174.9
22.5°	17036.9	16033.6	15435.8	15512.3	16116.3	17254.1	17682.3	16298.4	14825.6	14569.0
25°	18145.6	16252.9	15071.7	15003.5	15624.0	17578.9	18956.5	18085.6	16536.3	16252.9
27.5°	19539.9	16745.2	14997.3	14929.0	15452.3	17882.9	20015.7	19852.2	18338.1	17853.9
30°	20615.5	17229.3	15218.6	15061.4	15624.0	18093.9	20865.8	21352.0	19773.6	19453.0
32.5°	21387.1	17800.2	15578.5	15351.0	16108.1	18458.0	21521.5	22725.5	21101.7	20615.5
35°	21974.6	18420.8	16159.8	15785.4	16774.2	19010.3	22136.0	24188.0	22514.5	21982.8
37.5°	22524.8	19291.6	17067.9	16621.1	17818.8	19899.8	22785.5	25847.0	24094.9	23459.8
40°	23292.3	20278.4	18468.3	18071.2	19575.1	21112.0	23596.4	27576.3	25892.6	25094.0
42.5°	24059.7	21337.5	19901.9	20009.5	21765.7	22584.8	24643.1	29405.0	27667.3	26815.1
45°	24761.0	22429.7	21943.5	22440.1	23799.1	24200.4	25683.6	30462.0	29084.3	28261.0
47.5°	25385.7	23795.0	23972.8	25294.7	26111.7	25662.9	26461.4	31374.2	30139.3	29413.2
50°	26111.7	25561.6	26647.6	28517.6	28774.0	26986.7	27168.9	32454.1	31372.2	30788.9
52.5°	26906.1	27423.3	29609.8	31258.5	31175.6	28424.5	27880.4	33664.2	33062.2	32514.1
55°	27808.0	28927.2	32218.2	33823.5	33753.1	30029.6	29059.5	35159.8	35180.5	34684.0
57.5°	29146.4	30222.1	33989.0	35898.3	36016.1	31883.1	31057.8	36835.3	37096.0	36765.0
59°	30106.2	31061.9	34690.2	36765.0	37244.9	33316.7	32518.2	37807.6	37635.9	37333.9
60°	30817.8	31595.6	35037.7	37218.0	37958.6	34288.9	33595.9	38378.5	37700.0	37333.9
62.5°	32578.2	32758.2	35664.5	37731.0	38779.8	36448.5	36628.5	39350.7	37255.3	36657.4
65°	33399.4	33492.5	35656.2	36812.6	37985.4	38130.3	39379.7	39379.7	36169.3	35250.8
67.5°	33056.1	32607.1	33887.6	33767.6	34938.4	37131.1	40414.0	37935.8	34092.4	32905.1
70°	30263.5	28536.2	27967.3	28019.0	28914.7	32296.8	38366.1	33686.9	30162.1	28774.0
72.5°	25180.9	21037.5	19632.9	21236.1	21469.8	24821.0	32696.1	25369.1	22243.5	20942.4
75°	20253.5	14829.7	12546.0	14238.1	14635.3	18164.2	25292.6	15799.9	12992.8	11979.2
77.5°	14550.4	10645.0	9002.5	8884.5	9397.6	11520.0	17947.1	7951.7	6631.9	6189.2
80°	8266.1	7006.3	7544.1	7118.0	7376.6	7202.8	8526.7	3487.6	2856.7	2670.6
82.5°	4989.5	4141.3	4484.7	3733.8	4724.6	4114.5	3284.9	1117.0	970.2	922.6
85°	3245.6	2263.0	1179.1	790.2	1628.0	2629.2	734.3	304.1	233.7	186.2
87.5°	1119.1	577.1	57.9	24.8	173.7	490.3	26.9	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)