

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: P383564

Luminaire Tested: **GLEON-SA8C-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383564
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-SA8C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 39144.6 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

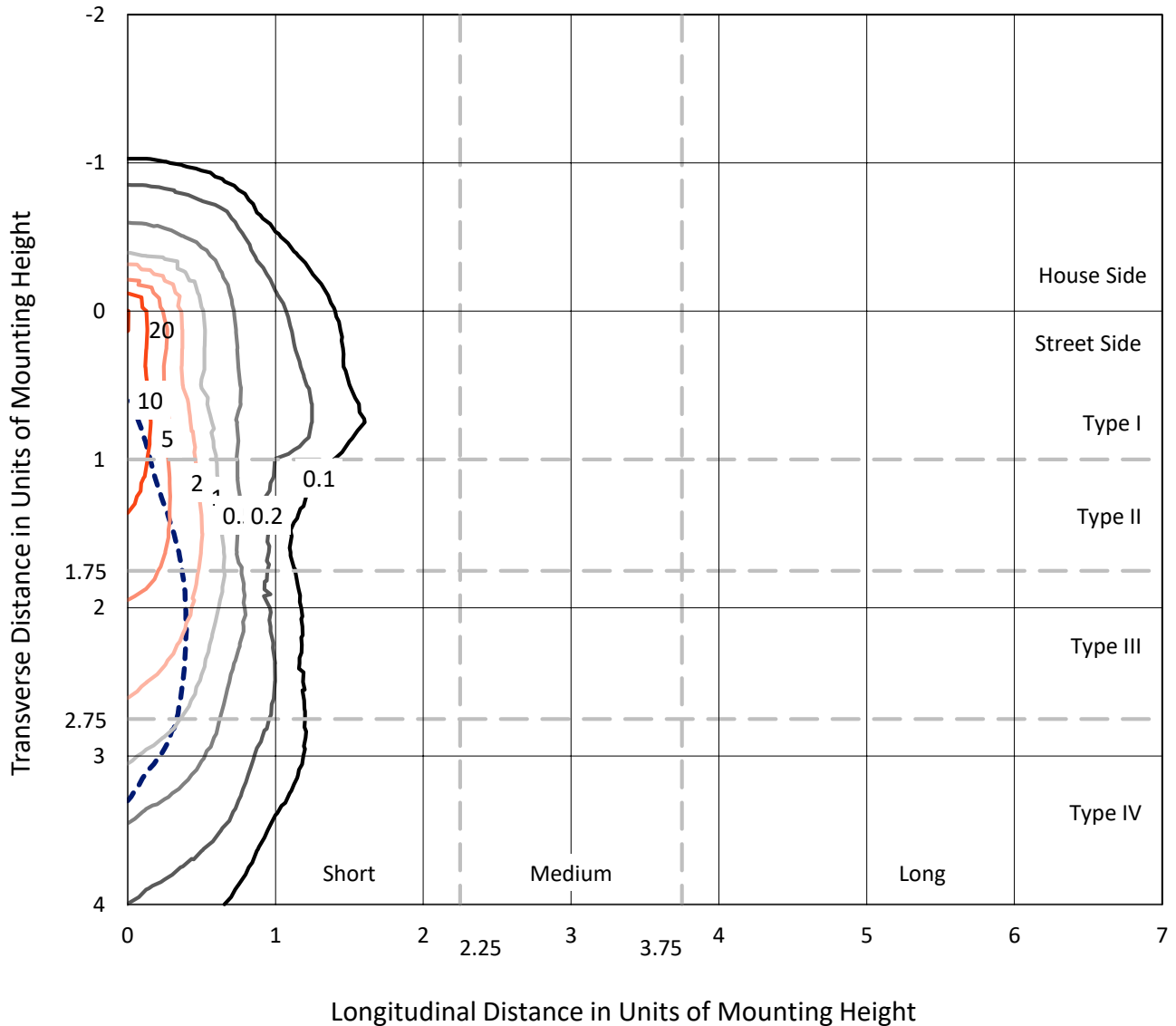
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

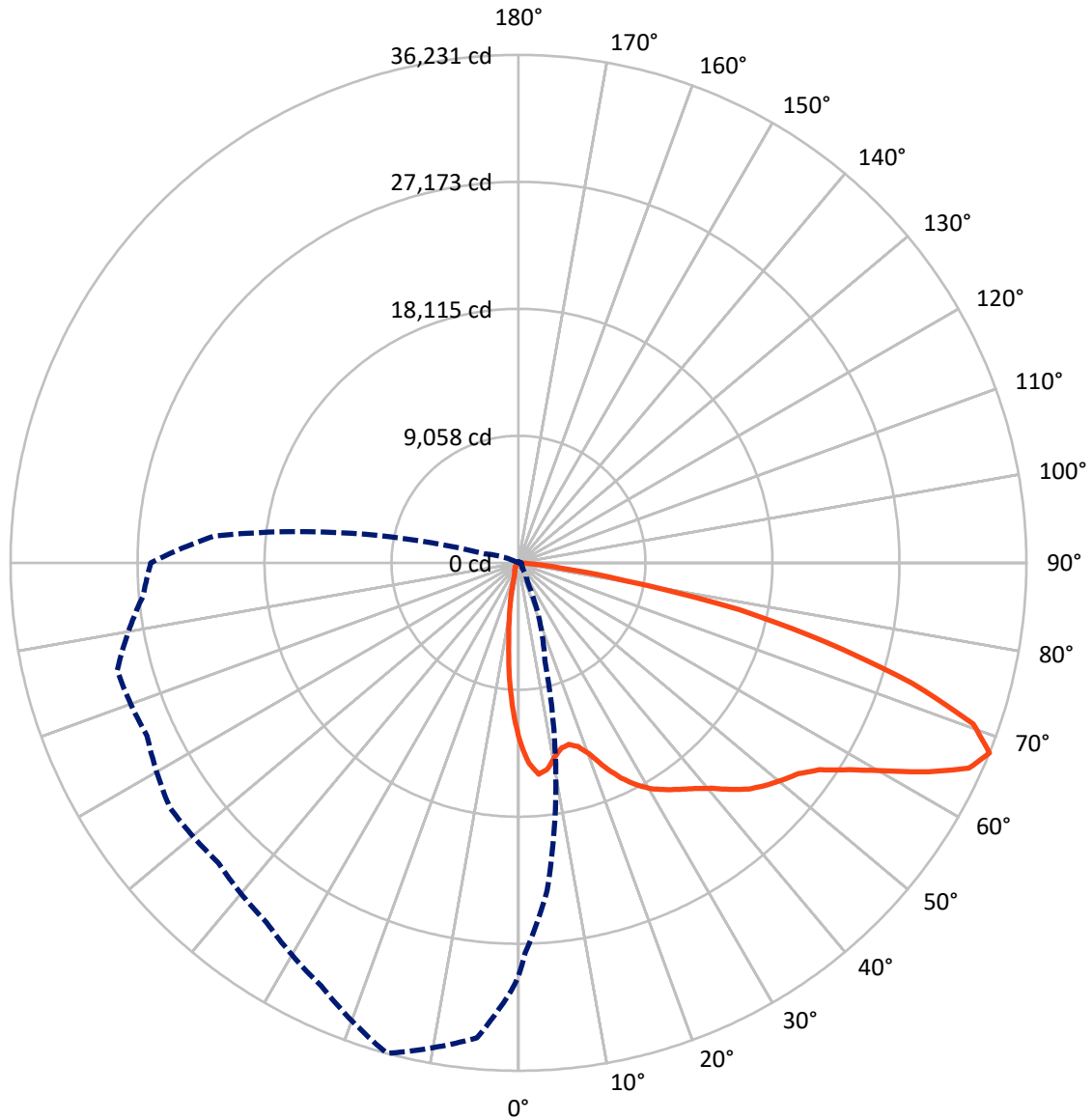
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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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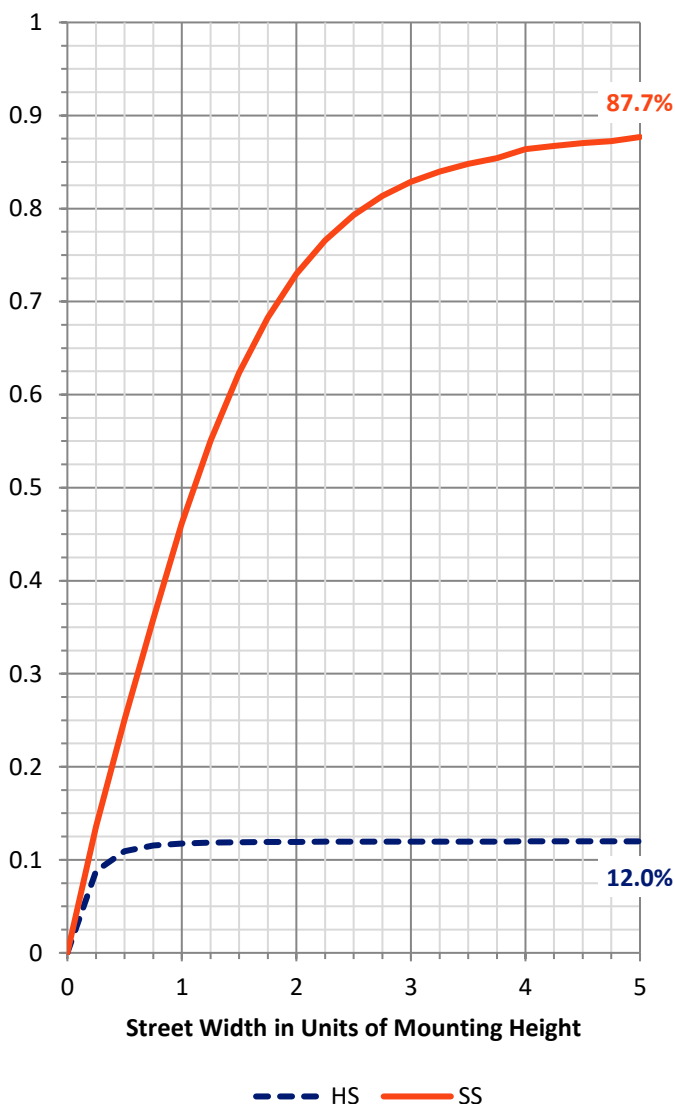
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4737.8	0.0	4737.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	34406.8	0.0	34406.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	39144.6	0.0	39144.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.6	2.5
10°-20°	1948.0	5.0
20°-30°	2766.1	7.1
30°-40°	4085.8	10.4
40°-50°	5892.5	15.1
50°-60°	8271.9	21.1
60°-70°	9642.6	24.6
70°-80°	4929.5	12.6
80°-90°	629.6	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°	39144.6	100.0
0°-180°	39144.6	100.0

Coefficient of Utilization

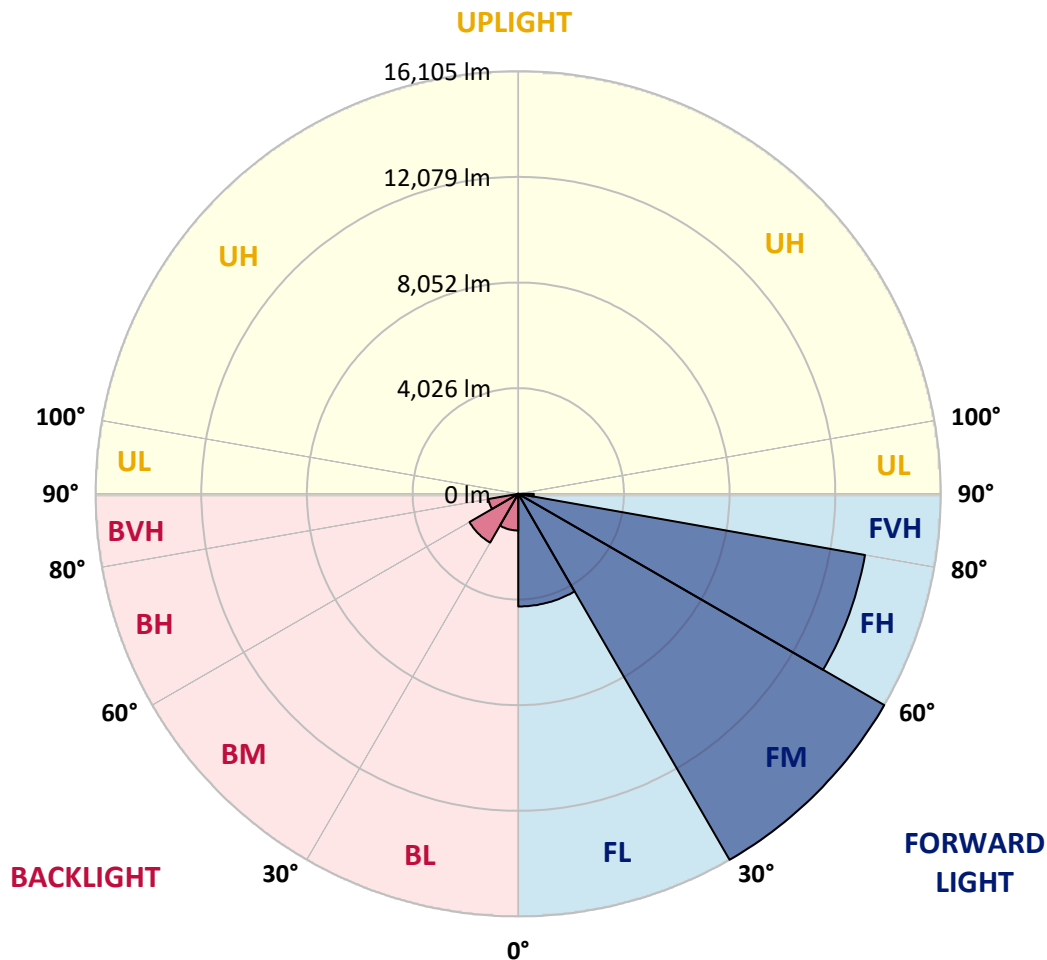


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4293.4	11.0			
FM (30°-60°)	16104.7	41.1			
FH (60°-80°)	13417.4	34.3			G5
FVH (80°-90°)	591.3	1.5			G4/750
BL (0°-30°)	1399.4	3.6	B3/2500		
BM (30°-60°)	2145.4	5.5	B2/2500		
BH (60°-80°)	1154.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	38.3	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°	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3
2.5°	13962.2	13854.6	13735.9	13348.4	12988.7	12576.9	12241.3	12007.6	11714.6	11334.4	11238.0
5°	13862.1	13747.1	13374.3	12512.1	11757.2	11022.9	10314.5	9899.1	9383.6	8860.6	8730.8
7.5°	12855.1	12734.5	12196.8	11015.5	9999.2	8938.5	8018.7	7449.4	6867.1	6388.6	6134.5
10°	11807.4	11675.6	11071.2	9637.6	8385.9	7427.1	6752.0	6208.8	5657.9	5146.1	4738.1
12.5°	11086.0	10913.5	10257.0	8632.6	7542.1	6891.2	6260.7	5609.8	4864.3	4315.3	3866.6
15°	10783.7	10587.1	9893.5	8244.9	7243.5	6479.5	5657.9	4858.7	3985.3	3356.6	2944.9
17.5°	11017.3	10761.4	10017.8	8219.0	6869.0	5828.6	4790.1	3851.7	2904.1	2268.0	1975.0
20°	11811.1	11475.4	10531.5	8211.6	6414.5	5055.2	3738.6	2677.8	1913.8	1539.2	1385.3
22.5°	13060.9	12617.7	11269.6	8270.9	5945.4	4243.0	2700.1	1819.2	1437.2	1242.5	1151.6
25°	14570.5	14056.8	12332.2	8480.4	5533.7	3453.0	1962.0	1437.2	1212.8	1070.1	994.0
27.5°	16005.9	15588.6	13674.7	8782.7	5214.7	2815.0	1592.9	1218.4	1036.6	942.1	880.9
30°	17439.3	16914.6	15052.7	9142.5	4830.9	2383.0	1400.1	1110.8	929.1	829.0	790.0
32.5°	18481.5	18045.8	16132.0	9402.1	4421.0	2101.1	1251.7	1016.2	867.9	765.9	708.4
35°	19707.4	19214.1	17057.3	9459.6	4157.7	1923.1	1125.7	914.2	752.9	662.1	600.8
37.5°	21031.5	20417.6	18125.5	9333.5	3951.8	1835.9	1031.0	867.9	702.9	610.2	545.2
40°	22496.5	21802.9	19151.0	9151.8	3749.8	1806.3	958.7	832.6	663.9	569.4	502.6
42.5°	24039.3	23221.5	20039.3	8960.7	3621.8	1704.3	951.3	797.4	634.2	532.2	465.5
45°	25335.7	24506.7	20951.7	8897.7	3530.9	1592.9	982.9	773.3	613.8	502.6	437.6
47.5°	26368.6	25584.1	21886.3	9038.6	3479.0	1490.9	895.7	804.9	602.7	476.6	413.5
50°	27601.8	26713.5	23203.0	9459.6	3402.9	1389.0	810.4	921.7	602.7	459.9	393.1
52.5°	29148.4	28269.4	24671.8	10112.4	3250.9	1248.1	728.8	923.5	608.3	437.6	367.2
55°	31093.8	30455.8	26769.1	10828.2	3008.0	1040.4	630.5	793.7	586.0	396.8	343.1
57.5°	32959.4	32438.3	28681.0	11317.7	2683.4	812.2	549.0	639.8	535.9	348.7	306.0
59°	33469.3	32899.9	29382.0	11340.0	2440.5	708.4	508.2	528.6	524.8	326.4	283.7
60°	33469.3	32864.7	29584.2	11221.3	2264.3	650.9	482.2	471.0	547.1	311.5	270.7
62.5°	32862.9	32013.6	28927.7	10418.3	1847.1	554.5	421.0	389.5	491.4	280.0	239.2
65°	31601.8	30364.9	26691.3	8966.3	1646.8	508.2	363.5	319.0	341.2	246.7	209.6
67.5°	29498.9	27822.4	23466.3	7243.5	1567.0	495.1	313.4	270.7	257.8	211.4	183.6
70°	25795.6	23935.6	19551.6	5695.0	1498.4	489.6	263.3	228.1	207.7	178.0	155.8
72.5°	18774.6	16834.8	13880.6	4452.5	1457.6	500.7	211.4	191.0	170.6	139.1	120.5
75°	10739.2	9468.9	7801.7	2941.2	1242.5	478.4	163.2	159.5	122.4	100.1	83.5
77.5°	5548.6	5379.8	4675.1	1129.4	595.3	209.6	107.6	92.7	72.3	61.2	50.0
80°	2394.1	2368.2	2049.2	326.4	157.6	116.8	61.2	38.9	33.3	26.0	20.4
82.5°	827.1	827.1	728.8	109.5	70.4	57.5	7.5	0.0	0.0	0.0	0.0
85°	166.9	187.3	131.6	0.0	24.1	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°	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3
2.5°	11121.2	10896.8	10882.0	10741.0	10564.9	10485.1	10438.7	10520.3	10620.5	10631.7	10781.8
5°	8632.6	8397.0	8495.2	8244.9	8295.0	8244.9	8163.3	8178.1	8222.7	8083.6	8256.0
7.5°	6062.2	5884.2	5997.3	5930.6	6019.6	6054.8	6004.8	5930.6	5711.7	5685.8	5836.0
10°	4569.4	4367.3	4246.7	4120.6	4148.5	4205.9	4187.4	4133.6	3994.5	4001.9	4146.6
12.5°	3671.8	3445.6	3206.4	2896.6	2820.6	2863.3	2820.6	2789.1	2655.6	2666.7	2794.6
15°	2785.4	2599.9	2349.6	2101.1	1965.8	1978.7	1860.0	1776.6	1693.1	1592.9	1670.8
17.5°	1880.4	1767.3	1693.1	1618.9	1457.6	1420.5	1270.4	1109.0	1045.9	999.6	1032.9
20°	1331.5	1270.4	1240.6	1236.9	1144.2	1097.8	951.3	851.2	819.7	810.4	830.8
22.5°	1112.6	1068.2	1025.5	1001.4	955.0	901.3	790.0	739.9	717.7	706.6	721.4
25°	968.1	934.6	890.2	849.4	830.8	773.3	693.5	656.5	641.6	630.5	637.9
27.5°	860.5	830.8	778.9	752.9	738.1	688.0	619.4	589.8	576.7	573.0	571.1
30°	775.1	747.4	699.1	669.5	643.5	599.0	558.2	528.6	515.5	511.8	508.2
32.5°	689.9	667.6	636.1	606.4	578.6	537.8	502.6	478.4	458.0	454.3	452.5
35°	582.3	560.0	543.4	541.5	515.5	476.6	450.6	419.1	402.4	396.8	398.7
37.5°	517.4	487.8	450.6	463.6	456.2	428.4	393.1	361.6	345.0	341.2	341.2
40°	476.6	445.1	402.4	380.2	402.4	396.8	341.2	309.7	293.0	291.1	287.5
42.5°	437.6	406.2	357.9	320.8	331.9	348.7	294.8	265.2	248.5	244.8	239.2
45°	409.9	376.4	322.7	280.0	257.8	293.0	252.2	215.1	205.9	198.4	194.7
47.5°	383.9	352.3	291.1	242.9	205.9	211.4	202.1	176.2	165.1	157.6	155.8
50°	361.6	328.3	263.3	207.7	170.6	155.8	163.2	139.1	129.9	122.4	118.7
52.5°	335.6	304.2	233.6	179.9	142.8	122.4	124.3	109.5	100.1	94.6	92.7
55°	315.2	283.7	209.6	157.6	126.1	100.1	89.1	85.3	79.7	76.0	74.2
57.5°	287.5	257.8	185.5	133.5	107.6	81.6	68.7	68.7	66.8	63.1	61.2
59°	270.7	244.8	170.6	120.5	98.3	70.4	61.2	63.1	61.2	57.5	55.6
60°	257.8	233.6	159.5	111.2	92.7	64.9	55.6	59.3	57.5	53.8	51.9
62.5°	228.1	211.4	137.2	92.7	81.6	51.9	46.4	50.0	50.0	48.3	46.4
65°	200.3	181.7	116.8	77.9	76.0	44.5	37.1	44.5	46.4	42.7	38.9
67.5°	174.3	155.8	102.0	63.1	70.4	35.2	27.9	37.1	50.0	38.9	35.2
70°	148.4	129.9	79.7	50.0	74.2	24.1	22.3	33.3	59.3	42.7	33.3
72.5°	115.0	100.1	55.6	37.1	79.7	16.7	16.7	27.9	66.8	46.4	31.5
75°	79.7	64.9	33.3	22.3	64.9	11.1	11.1	26.0	63.1	42.7	29.7
77.5°	46.4	35.2	11.1	1.9	33.3	0.0	1.9	18.5	44.5	26.0	12.9
80°	16.7	7.5	0.0	0.0	20.4	0.0	0.0	0.0	3.7	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°	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3
2.5°	10820.8	11071.2	11295.5	11634.8	12037.3	12500.9	12899.6	13328.0	13730.5	13897.3	14012.3
5°	8291.3	8601.0	8962.6	9461.4	10125.4	10943.2	11709.1	12575.1	13506.0	13971.5	14409.2
7.5°	5861.9	6177.2	6626.0	7156.3	7959.3	8932.9	9934.3	11130.5	12391.5	13127.7	13852.9
10°	4215.2	4602.8	5021.9	5747.0	6562.9	7486.5	8517.5	9852.8	11258.4	12074.3	12947.9
12.5°	2868.9	3310.3	3944.5	4756.7	5715.4	6620.4	7516.1	8790.2	10422.1	11230.6	12167.1
15°	1720.9	1965.8	2637.0	3577.2	4752.9	5880.5	6861.5	8139.2	9878.7	10869.0	11842.6
17.5°	1060.8	1173.8	1539.2	2310.7	3545.7	4971.8	6316.3	7918.5	9956.6	11162.0	12204.2
20°	845.7	890.2	1007.0	1364.9	2349.6	3970.4	5702.5	7874.0	10592.7	12076.2	13194.4
22.5°	734.3	777.0	854.9	992.1	1478.0	2972.7	5120.2	7914.8	11505.1	13446.7	14752.3
25°	647.2	684.3	758.5	871.6	1083.0	2093.7	4497.0	8096.5	12693.8	15147.2	16534.4
27.5°	578.6	610.2	678.7	782.6	929.1	1461.3	3790.6	8317.2	14103.2	16886.7	18255.4
30°	515.5	543.4	604.6	701.0	806.7	1123.8	3015.3	8467.5	15514.5	18255.4	19484.8
32.5°	461.8	482.2	537.8	619.4	701.0	895.7	2292.1	8443.4	16562.2	19394.0	20369.4
35°	406.2	426.6	474.7	545.2	610.2	739.9	1802.5	7992.7	17474.6	20575.3	21381.9
37.5°	345.0	370.8	417.2	480.3	524.8	650.9	1457.6	7449.4	18399.9	21925.3	22511.3
40°	293.0	319.0	359.8	428.4	456.2	617.5	1120.1	6787.3	19440.3	23434.8	23750.1
42.5°	242.9	267.1	309.7	369.1	430.2	532.2	829.0	6030.7	20439.8	24725.5	24879.4
45°	196.6	220.7	265.2	324.6	459.9	441.4	641.6	5220.3	21246.6	25799.2	25849.3
47.5°	155.8	178.0	224.4	306.0	428.4	352.3	458.0	4584.2	21923.4	26637.5	26505.8
50°	120.5	139.1	187.3	350.4	374.6	291.1	346.8	4372.8	22529.9	27156.8	26815.5
52.5°	94.6	111.2	153.9	328.3	291.1	241.1	291.1	4571.3	23360.6	27586.9	26989.8
55°	76.0	92.7	120.5	187.3	198.4	204.0	248.5	4756.7	24794.2	28595.8	28019.0
57.5°	63.1	79.7	98.3	131.6	150.2	172.4	220.7	4777.1	26483.5	30272.2	29727.0
59°	57.5	72.3	89.1	116.8	131.6	157.6	207.7	4665.8	27078.8	30882.3	30609.7
60°	53.8	68.7	83.5	107.6	122.4	148.4	200.3	4560.1	27104.8	30860.0	30986.2
62.5°	46.4	61.2	74.2	90.8	103.9	126.1	179.9	4168.9	26006.9	29849.4	30759.9
65°	40.8	53.8	66.8	77.9	89.1	113.1	163.2	3454.8	24132.1	28219.3	29211.5
67.5°	37.1	46.4	61.2	68.7	79.7	100.1	144.7	2462.7	21789.9	26225.8	26869.3
70°	33.3	44.5	55.6	63.1	72.3	87.2	124.3	1414.9	18399.9	23306.9	23764.9
72.5°	31.5	42.7	50.0	59.3	64.9	77.9	113.1	665.8	13472.7	18670.7	19866.8
75°	27.9	38.9	46.4	55.6	61.2	70.4	96.4	319.0	8960.7	13511.6	14870.9
77.5°	16.7	31.5	42.7	50.0	53.8	61.2	79.7	183.6	5719.1	9352.1	11015.5
80°	0.0	11.1	31.5	42.7	46.4	51.9	61.2	144.7	3059.9	5342.7	6412.7
82.5°	0.0	0.0	22.3	33.3	31.5	35.2	46.4	90.8	1379.7	3491.9	3935.1
85°	0.0	0.0	7.5	26.0	22.3	16.7	31.5	31.5	302.3	1767.3	2205.0
87.5°	0.0	0.0	0.0	1.9	11.1	7.5	12.9	3.7	1.9	131.6	534.1
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: P383564

CATALOG NUMBER: GLEON-SA8C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3	12751.3
2.5°	14414.7	14552.0	14783.8	14893.2	14839.4	14611.3	14338.7	14060.5	13897.3	13962.2
5°	15301.1	16007.7	16415.6	16551.1	16324.8	15813.0	15143.5	14260.8	13947.4	13862.1
7.5°	15301.1	16630.8	17472.8	17621.1	17116.6	16113.4	14857.9	13480.1	13022.0	12855.1
10°	14763.4	16573.3	17747.2	17982.7	17278.0	15777.7	14095.7	12523.2	11979.8	11807.4
12.5°	14156.9	16106.0	17342.9	17667.5	17088.9	15443.9	13567.2	11875.9	11236.1	11086.0
15°	13784.2	15531.1	16554.8	16790.3	16545.5	15249.2	13441.1	11681.2	10928.4	10783.7
17.5°	13917.7	15086.0	15455.0	15592.3	15757.3	15180.6	13784.2	12107.8	11154.5	11017.3
20°	14420.3	14616.8	14425.9	14598.3	15043.4	15247.4	14602.0	13138.8	11994.6	11811.1
22.5°	15273.4	14374.0	13838.0	13906.6	14448.1	15468.1	15852.0	14611.3	13290.9	13060.9
25°	16267.3	14570.5	13511.6	13450.4	14006.7	15759.2	16994.3	16213.6	14824.6	14570.5
27.5°	17517.2	15011.9	13444.8	13383.6	13852.9	16031.8	17943.7	17797.2	16439.8	16005.9
30°	18481.5	15445.8	13643.3	13502.3	14006.7	16220.9	18705.9	19141.7	17726.8	17439.3
32.5°	19173.3	15957.6	13965.9	13761.9	14440.7	16547.4	19293.8	20373.1	18917.3	18481.5
35°	19699.9	16514.0	14487.1	14151.4	15037.8	17042.5	19844.6	21684.2	20183.9	19707.4
37.5°	20193.3	17294.7	15301.1	14900.6	15974.4	17839.9	20426.9	23171.5	21600.7	21031.5
40°	20881.2	18179.2	16556.6	16200.5	17548.8	18926.6	21153.9	24721.8	23212.3	22496.5
42.5°	21569.2	19128.8	17841.7	17938.2	19512.7	20247.0	22092.2	26361.1	24803.4	24039.3
45°	22197.8	20107.9	19672.1	20117.1	21335.6	21695.4	23025.0	27308.8	26073.7	25335.7
47.5°	22757.9	21331.9	21491.4	22676.4	23408.9	23006.4	23722.2	28126.6	27019.4	26368.6
50°	23408.9	22915.6	23889.2	25565.6	25795.6	24193.3	24356.5	29094.7	28124.7	27601.8
52.5°	24120.9	24584.6	26544.7	28022.7	27948.6	25482.1	24994.4	30179.4	29639.8	29148.4
55°	24929.5	25932.8	28883.2	30322.2	30259.2	26921.2	26051.5	31520.2	31538.8	31093.8
57.5°	26129.4	27093.7	30470.6	32182.3	32288.0	28582.8	27842.8	33022.3	33256.1	32959.4
59°	26989.8	27846.6	31099.3	32959.4	33389.6	29867.9	29152.1	33894.0	33740.1	33469.3
60°	27627.7	28325.0	31410.9	33365.4	34029.3	30739.5	30118.3	34405.8	33797.6	33469.3
62.5°	29205.9	29367.2	31972.8	33825.3	34765.5	32675.6	32837.0	35277.4	33398.9	32862.9
65°	29942.1	30025.5	31965.3	33001.9	34053.5	34183.2	35303.3	35303.3	32425.2	31601.8
67.5°	29634.3	29231.9	30379.7	30272.2	31321.8	33287.5	36230.6	34008.9	30563.3	29498.9
70°	27130.8	25582.3	25072.3	25118.6	25921.6	28953.7	34394.7	30199.8	27039.8	25795.6
72.5°	22574.4	18859.8	17600.7	19037.9	19247.5	22251.7	29311.6	22743.1	19941.0	18774.6
75°	18157.0	13294.6	11247.3	12764.3	13120.3	16284.0	22674.5	14164.4	11647.9	10739.2
77.5°	13044.3	9543.1	8070.6	7964.9	8424.8	10327.5	16089.3	7128.6	5945.4	5548.6
80°	7410.5	6281.1	6763.2	6381.2	6613.0	6457.2	7644.1	3126.6	2561.0	2394.1
82.5°	4472.9	3712.6	4020.5	3347.3	4235.6	3688.6	2944.9	1001.4	869.8	827.1
85°	2909.7	2028.8	1057.0	708.4	1459.5	2357.0	658.3	272.6	209.6	166.9
87.5°	1003.3	517.4	51.9	22.3	155.8	439.5	24.1	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)