

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: P383508

Luminaire Tested: **GLEON-SA8A-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383508
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-SA8A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 25790.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

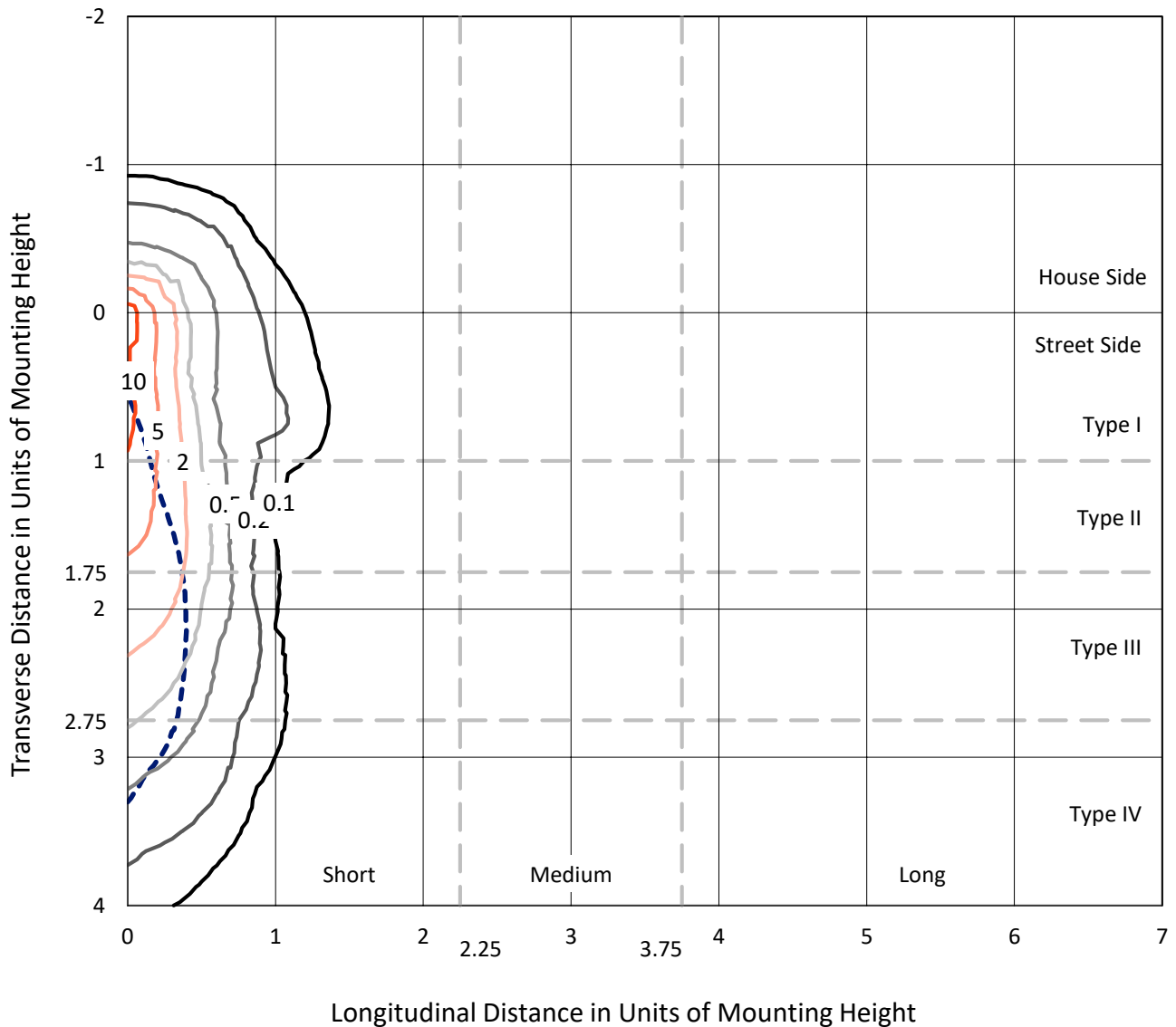
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

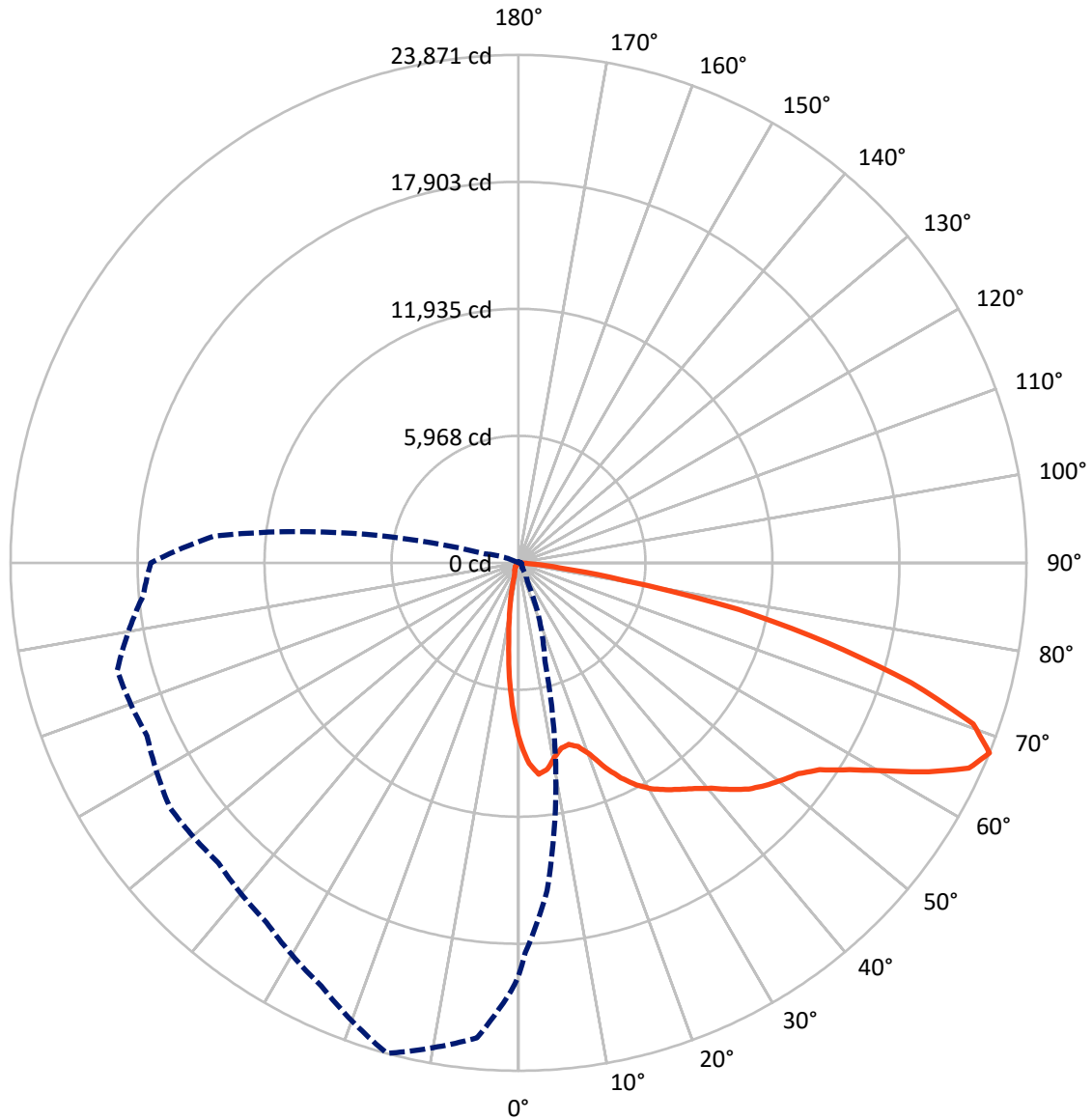
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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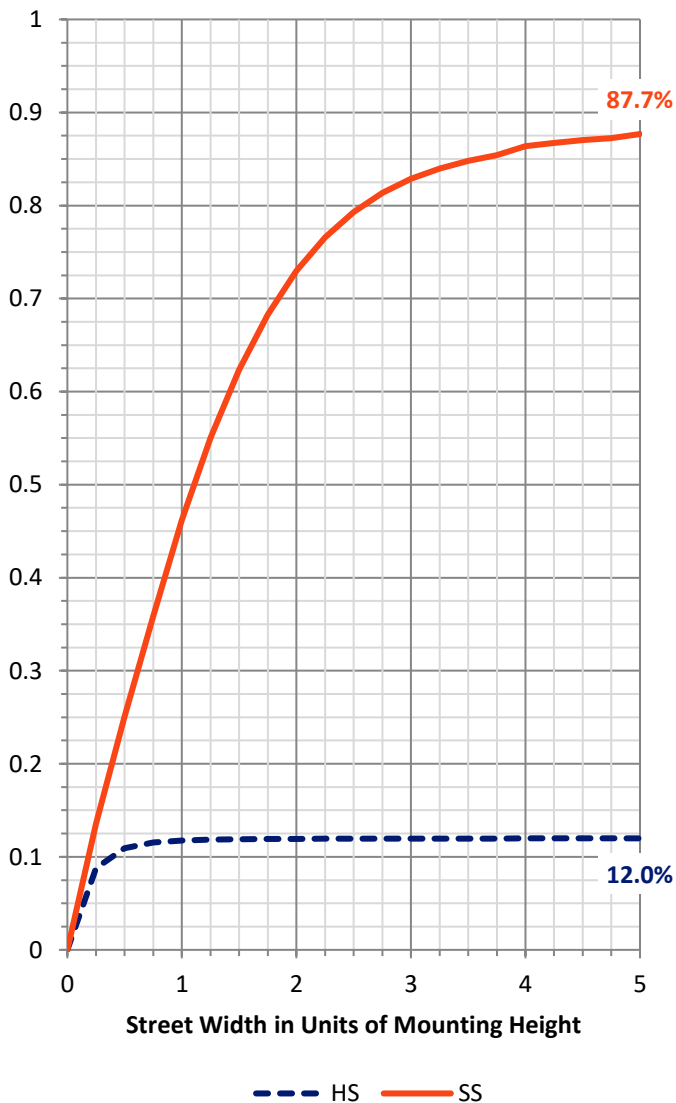
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3121.5	0.0	3121.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22669.3	0.0	22669.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	25790.8	0.0	25790.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.8	2.5
10°-20°	1283.4	5.0
20°-30°	1822.5	7.1
30°-40°	2691.9	10.4
40°-50°	3882.3	15.1
50°-60°	5450.0	21.1
60°-70°	6353.1	24.6
70°-80°	3247.9	12.6
80°-90°	414.8	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°	25790.8	100.0
0°-180°	25790.8	100.0

Coefficient of Utilization

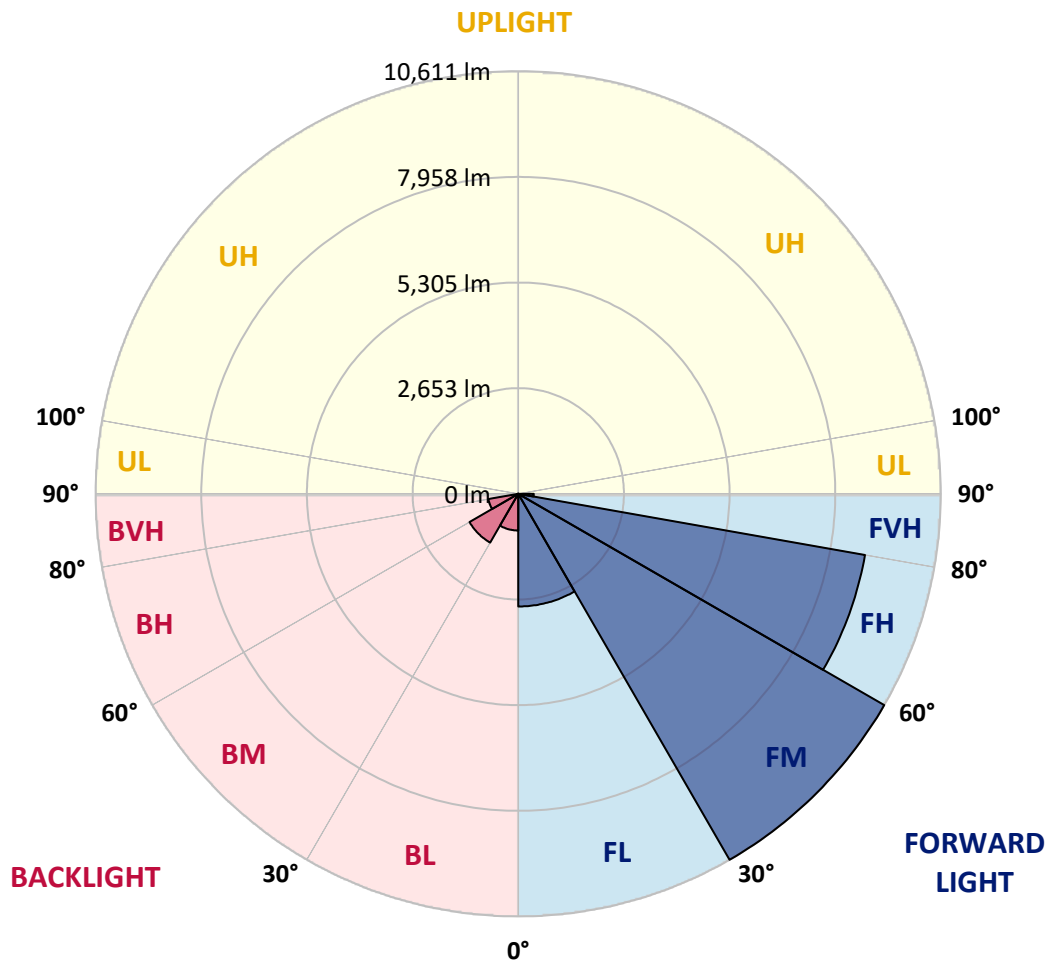


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2828.7	11.0			
FM (30°-60°)	10610.8	41.1			
FH (60°-80°)	8840.2	34.3			G4/12000
FVH (80°-90°)	389.6	1.5			G3/500
BL (0°-30°)	922.0	3.6	B2/1000		
BM (30°-60°)	1413.5	5.5	B2/2500		
BH (60°-80°)	760.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	25.2	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3
2.5°	9199.1	9128.3	9050.1	8794.7	8557.7	8286.5	8065.3	7911.4	7718.3	7467.8	7404.3
5°	9133.2	9057.4	8811.9	8243.7	7746.4	7262.5	6795.8	6522.1	6182.5	5837.9	5752.4
7.5°	8469.7	8390.4	8036.0	7257.7	6588.1	5889.2	5283.2	4908.1	4524.4	4209.2	4041.8
10°	7779.4	7692.6	7294.3	6349.9	5525.1	4893.4	4448.7	4090.7	3727.8	3390.6	3121.8
12.5°	7304.1	7190.5	6757.9	5687.7	4969.2	4540.4	4124.9	3696.0	3204.9	2843.2	2547.5
15°	7104.9	6975.4	6518.5	5432.2	4772.5	4269.1	3727.8	3201.2	2625.8	2211.5	1940.2
17.5°	7258.9	7090.3	6600.3	5415.2	4525.6	3840.2	3156.0	2537.7	1913.4	1494.3	1301.3
20°	7781.9	7560.7	6938.8	5410.2	4226.3	3330.7	2463.2	1764.4	1260.9	1014.1	912.7
22.5°	8605.4	8313.3	7425.1	5449.4	3917.2	2795.6	1779.0	1198.6	946.9	818.6	758.7
25°	9600.0	9261.4	8125.1	5587.4	3646.0	2275.0	1292.7	946.9	799.1	705.0	654.9
27.5°	10545.6	10270.7	9009.7	5786.6	3435.8	1854.7	1049.6	802.7	683.0	620.7	580.4
30°	11490.1	11144.3	9917.6	6023.7	3182.9	1570.0	922.5	731.9	612.1	546.2	520.5
32.5°	12176.8	11889.6	10628.7	6194.7	2912.9	1384.4	824.7	669.6	571.8	504.6	466.7
35°	12984.4	12659.4	11238.4	6232.5	2739.3	1267.0	741.7	602.3	496.0	436.2	395.9
37.5°	13856.8	13452.4	11942.2	6149.5	2603.8	1209.6	679.4	571.8	463.1	402.0	359.2
40°	14822.0	14365.1	12617.8	6029.7	2470.6	1190.1	631.7	548.6	437.5	375.1	331.1
42.5°	15838.6	15299.7	13203.1	5903.9	2386.3	1122.9	626.8	525.4	417.9	350.6	306.7
45°	16692.7	16146.5	13804.2	5862.3	2326.4	1049.6	647.6	509.5	404.4	331.1	288.3
47.5°	17373.3	16856.4	14420.1	5955.2	2292.2	982.3	590.1	530.2	397.1	314.0	272.5
50°	18185.8	17600.5	15287.5	6232.5	2242.0	915.2	534.0	607.3	397.1	303.0	259.1
52.5°	19204.8	18625.6	16255.2	6662.6	2141.9	822.3	480.2	608.5	400.8	288.3	241.9
55°	20486.4	20066.1	17637.2	7134.3	1981.8	685.4	415.4	523.0	386.1	261.5	226.0
57.5°	21715.6	21372.3	18896.8	7456.9	1768.0	535.2	361.6	421.5	353.1	229.7	201.6
59°	22051.6	21676.6	19358.7	7471.5	1607.9	466.7	334.8	348.2	345.8	215.0	187.0
60°	22051.6	21653.3	19491.9	7393.3	1491.9	428.9	317.7	310.4	360.4	205.3	178.4
62.5°	21652.1	21092.5	19059.4	6864.3	1217.0	365.4	277.3	256.5	323.8	184.5	157.6
65°	20821.2	20006.3	17585.8	5907.6	1085.0	334.8	239.5	210.2	224.8	162.5	138.1
67.5°	19435.7	18331.2	15461.1	4772.5	1032.4	326.2	206.5	178.4	169.8	139.3	120.9
70°	16995.7	15770.2	12881.8	3752.3	987.3	322.6	173.5	150.3	136.8	117.3	102.7
72.5°	12369.8	11091.8	9145.4	2933.6	960.3	329.9	139.3	125.9	112.4	91.7	79.5
75°	7075.7	6238.7	5140.3	1937.8	818.6	315.2	107.5	105.1	80.7	66.0	55.0
77.5°	3655.8	3544.5	3080.3	744.1	392.2	138.1	70.9	61.1	47.7	40.3	33.0
80°	1577.4	1560.2	1350.1	215.0	103.9	76.9	40.3	25.6	22.0	17.1	13.4
82.5°	545.0	545.0	480.2	72.1	46.4	37.9	4.8	0.0	0.0	0.0	0.0
85°	109.9	123.4	86.7	0.0	15.9	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°	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3
2.5°	7327.4	7179.4	7169.7	7076.9	6960.8	6908.3	6877.7	6931.5	6997.4	7004.8	7103.7
5°	5687.7	5532.5	5597.2	5432.2	5465.3	5432.2	5378.5	5388.3	5417.6	5325.9	5439.6
7.5°	3994.2	3876.9	3951.4	3907.4	3966.1	3989.3	3956.3	3907.4	3763.3	3746.1	3845.1
10°	3010.6	2877.5	2798.0	2714.9	2733.3	2771.1	2758.9	2723.5	2631.8	2636.7	2732.0
12.5°	2419.2	2270.2	2112.6	1908.5	1858.4	1886.5	1858.4	1837.7	1749.6	1757.0	1841.3
15°	1835.1	1713.0	1548.0	1384.4	1295.1	1303.7	1225.5	1170.5	1115.5	1049.6	1100.9
17.5°	1239.0	1164.4	1115.5	1066.6	960.3	935.9	837.0	730.6	689.2	658.6	680.6
20°	877.2	837.0	817.4	814.9	753.9	723.3	626.8	560.8	540.0	534.0	547.4
22.5°	733.1	703.8	675.7	659.8	629.3	593.8	520.5	487.5	472.9	465.5	475.3
25°	637.8	615.8	586.5	559.6	547.4	509.5	456.9	432.5	422.7	415.4	420.3
27.5°	566.9	547.4	513.2	496.0	486.3	453.3	408.1	388.5	380.0	377.6	376.3
30°	510.8	492.4	460.7	441.1	423.9	394.7	367.8	348.2	339.6	337.2	334.8
32.5°	454.5	439.9	419.1	399.5	381.2	354.4	331.1	315.2	301.8	299.3	298.1
35°	383.6	369.0	358.0	356.8	339.6	314.0	296.9	276.1	265.1	261.5	262.7
37.5°	340.9	321.4	296.9	305.5	300.6	282.3	259.1	238.3	227.3	224.8	224.8
40°	314.0	293.3	265.1	250.5	265.1	261.5	224.8	204.0	193.0	191.8	189.4
42.5°	288.3	267.5	235.8	211.4	218.7	229.7	194.2	174.8	163.8	161.3	157.6
45°	270.1	248.1	212.6	184.5	169.8	193.0	166.2	141.7	135.6	130.7	128.3
47.5°	252.9	232.1	191.8	160.0	135.6	139.3	133.2	116.1	108.7	103.9	102.7
50°	238.3	216.3	173.5	136.8	112.4	102.7	107.5	91.7	85.5	80.7	78.2
52.5°	221.1	200.4	154.0	118.5	94.1	80.7	81.9	72.1	66.0	62.3	61.1
55°	207.7	187.0	138.1	103.9	83.1	66.0	58.7	56.2	52.5	50.1	48.9
57.5°	189.4	169.8	122.2	87.9	70.9	53.8	45.2	45.2	44.0	41.5	40.3
59°	178.4	161.3	112.4	79.5	64.7	46.4	40.3	41.5	40.3	37.9	36.6
60°	169.8	154.0	105.1	73.3	61.1	42.8	36.6	39.1	37.9	35.4	34.2
62.5°	150.3	139.3	90.5	61.1	53.8	34.2	30.6	33.0	33.0	31.8	30.6
65°	132.0	119.7	76.9	51.3	50.1	29.3	24.4	29.3	30.6	28.1	25.6
67.5°	114.9	102.7	67.2	41.5	46.4	23.2	18.4	24.4	33.0	25.6	23.2
70°	97.7	85.5	52.5	33.0	48.9	15.9	14.6	22.0	39.1	28.1	22.0
72.5°	75.7	66.0	36.6	24.4	52.5	11.0	11.0	18.4	44.0	30.6	20.8
75°	52.5	42.8	22.0	14.6	42.8	7.4	7.4	17.1	41.5	28.1	19.6
77.5°	30.6	23.2	7.4	1.2	22.0	0.0	1.2	12.2	29.3	17.1	8.6
80°	11.0	4.8	0.0	0.0	13.4	0.0	0.0	0.0	2.4	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°	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3
2.5°	7129.4	7294.3	7442.1	7665.8	7930.9	8236.4	8499.1	8781.3	9046.4	9156.4	9232.2
5°	5462.8	5666.9	5905.1	6233.8	6671.2	7210.0	7714.6	8285.3	8898.6	9205.3	9493.6
7.5°	3862.2	4069.9	4365.6	4715.0	5244.1	5885.5	6545.3	7333.4	8164.3	8649.3	9127.1
10°	2777.2	3032.6	3308.8	3786.5	4324.1	4932.5	5611.8	6491.6	7417.7	7955.3	8530.8
12.5°	1890.2	2180.9	2598.8	3134.0	3765.7	4362.0	4952.1	5791.5	6866.7	7399.4	8016.4
15°	1133.9	1295.1	1737.4	2356.9	3131.6	3874.4	4520.8	5362.6	6508.7	7161.2	7802.6
17.5°	698.8	773.5	1014.1	1522.4	2336.1	3275.7	4161.6	5217.2	6560.1	7354.2	8040.8
20°	557.2	586.5	663.4	899.2	1548.0	2616.0	3757.1	5187.9	6979.1	7956.5	8693.3
22.5°	483.8	512.0	563.3	653.7	973.8	1958.6	3373.5	5214.8	7580.3	8859.5	9719.7
25°	426.5	450.9	499.8	574.3	713.6	1379.4	2963.0	5334.5	8363.4	9979.9	10893.9
27.5°	381.2	402.0	447.2	515.6	612.1	962.8	2497.4	5479.9	9292.0	11126.0	12027.7
30°	339.6	358.0	398.3	461.9	531.5	740.4	1986.7	5578.9	10221.9	12027.7	12837.8
32.5°	304.2	317.7	354.4	408.1	461.9	590.1	1510.2	5563.0	10912.1	12777.9	13420.6
35°	267.5	281.0	312.8	359.2	402.0	487.5	1187.6	5266.1	11513.3	13556.3	14087.7
37.5°	227.3	244.3	274.9	316.4	345.8	428.9	960.3	4908.1	12123.0	14445.7	14831.8
40°	193.0	210.2	237.1	282.3	300.6	406.9	738.0	4471.9	12808.5	15440.3	15648.0
42.5°	160.0	176.0	204.0	243.1	283.5	350.6	546.2	3973.4	13467.0	16290.7	16392.1
45°	129.5	145.4	174.8	213.8	303.0	290.8	422.7	3439.5	13998.6	16998.1	17031.1
47.5°	102.7	117.3	147.8	201.6	282.3	232.1	301.8	3020.4	14444.5	17550.4	17463.6
50°	79.5	91.7	123.4	230.9	246.8	191.8	228.5	2881.1	14844.0	17892.5	17667.6
52.5°	62.3	73.3	101.4	216.3	191.8	158.8	191.8	3011.8	15391.4	18176.0	17782.5
55°	50.1	61.1	79.5	123.4	130.7	134.4	163.8	3134.0	16335.9	18840.6	18460.7
57.5°	41.5	52.5	64.7	86.7	98.9	113.6	145.4	3147.4	17449.0	19945.2	19586.0
59°	37.9	47.7	58.7	76.9	86.7	103.9	136.8	3074.1	17841.2	20347.1	20167.5
60°	35.4	45.2	55.0	70.9	80.7	97.7	132.0	3004.5	17858.3	20332.5	20415.6
62.5°	30.6	40.3	48.9	59.9	68.5	83.1	118.5	2746.7	17135.0	19666.6	20266.6
65°	26.9	35.4	44.0	51.3	58.7	74.5	107.5	2276.2	15899.7	18592.6	19246.3
67.5°	24.4	30.6	40.3	45.2	52.5	66.0	95.3	1622.6	14356.5	17279.2	17703.1
70°	22.0	29.3	36.6	41.5	47.7	57.4	81.9	932.3	12123.0	15356.0	15657.7
72.5°	20.8	28.1	33.0	39.1	42.8	51.3	74.5	438.7	8876.6	12301.4	13089.5
75°	18.4	25.6	30.6	36.6	40.3	46.4	63.5	210.2	5903.9	8902.2	9797.8
77.5°	11.0	20.8	28.1	33.0	35.4	40.3	52.5	120.9	3768.1	6161.7	7257.7
80°	0.0	7.4	20.8	28.1	30.6	34.2	40.3	95.3	2016.1	3520.1	4225.1
82.5°	0.0	0.0	14.6	22.0	20.8	23.2	30.6	59.9	909.0	2300.7	2592.7
85°	0.0	0.0	4.8	17.1	14.6	11.0	20.8	20.8	199.2	1164.4	1452.7
87.5°	0.0	0.0	0.0	1.2	7.4	4.8	8.6	2.4	1.2	86.7	351.8
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: P383508

CATALOG NUMBER: GLEON-SA8A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3	8401.3
2.5°	9497.3	9587.7	9740.4	9812.5	9777.1	9626.8	9447.2	9264.0	9156.4	9199.1
5°	10081.3	10546.9	10815.6	10904.9	10755.7	10418.5	9977.4	9395.9	9189.4	9133.2
7.5°	10081.3	10957.4	11512.1	11609.9	11277.5	10616.5	9789.4	8881.5	8579.7	8469.7
10°	9727.0	10919.5	11693.0	11848.1	11383.8	10395.3	9287.2	8251.0	7893.0	7779.4
12.5°	9327.5	10611.6	11426.5	11640.4	11259.2	10175.4	8938.9	7824.6	7403.1	7304.1
15°	9081.8	10232.9	10907.3	11062.5	10901.2	10047.1	8855.9	7696.4	7200.2	7104.9
17.5°	9169.9	9939.6	10182.7	10273.2	10381.9	10001.9	9081.8	7977.3	7349.4	7258.9
20°	9500.9	9630.4	9504.7	9618.2	9911.5	10045.9	9620.7	8656.7	7902.8	7781.9
22.5°	10063.0	9470.4	9117.3	9162.5	9519.3	10191.3	10444.2	9626.8	8756.8	8605.4
25°	10717.9	9600.0	8902.2	8861.9	9228.5	10383.1	11196.8	10682.4	9767.3	9600.0
27.5°	11541.4	9890.7	8858.3	8817.9	9127.1	10562.7	11822.5	11725.9	10831.6	10545.6
30°	12176.8	10176.6	8989.0	8896.2	9228.5	10687.4	12324.7	12611.8	11679.5	11490.1
32.5°	12632.5	10513.8	9201.6	9067.2	9514.4	10902.4	12711.9	13423.0	12463.9	12176.8
35°	12979.5	10880.4	9544.9	9323.8	9907.8	11228.6	13074.8	14286.9	13298.4	12984.4
37.5°	13304.5	11394.8	10081.3	9817.4	10524.8	11754.0	13458.4	15266.8	14231.9	13856.8
40°	13757.8	11977.7	10908.5	10674.0	11562.2	12470.0	13937.4	16288.2	15293.7	14822.0
42.5°	14211.1	12603.2	11755.2	11818.7	12856.1	13339.9	14555.7	17368.3	16342.0	15838.6
45°	14625.3	13248.3	12961.2	13254.4	14057.1	14294.2	15170.3	17992.7	17178.9	16692.7
47.5°	14994.3	14054.7	14159.8	14940.5	15423.2	15158.0	15629.7	18531.6	17802.1	17373.3
50°	15423.2	15098.2	15739.6	16844.2	16995.7	15940.0	16047.5	19169.3	18530.3	18185.8
52.5°	15892.4	16197.8	17489.3	18463.1	18414.2	16789.2	16467.8	19884.1	19528.5	19204.8
55°	16425.0	17086.1	19030.0	19978.2	19936.6	17737.3	17164.3	20767.5	20779.7	20486.4
57.5°	17215.7	17851.0	20075.9	21203.7	21273.3	18832.1	18344.6	21757.1	21911.1	21715.6
59°	17782.5	18347.0	20490.1	21715.6	21999.1	19678.8	19207.2	22331.4	22230.0	22051.6
60°	18202.8	18662.3	20695.4	21983.2	22420.6	20253.1	19843.7	22668.7	22267.9	22051.6
62.5°	19242.6	19348.9	21065.6	22286.3	22905.6	21528.7	21635.0	23242.9	22005.2	21652.1
65°	19727.7	19782.7	21060.7	21743.7	22436.5	22522.0	23260.0	23260.0	21363.7	20821.2
67.5°	19524.9	19259.7	20016.1	19945.2	20636.8	21931.9	23870.9	22407.2	20137.0	19435.7
70°	17875.4	16855.1	16519.1	16549.7	17078.8	19076.4	22661.3	19897.5	17815.6	16995.7
72.5°	14873.4	12426.0	11596.4	12543.3	12681.3	14660.8	19312.3	14984.5	13138.4	12369.8
75°	11962.9	8759.3	7410.4	8409.8	8644.5	10728.9	14939.3	9332.3	7674.4	7075.7
77.5°	8594.4	6287.6	5317.4	5247.8	5550.8	6804.4	10600.6	4696.7	3917.2	3655.8
80°	4882.4	4138.3	4456.1	4204.4	4357.0	4254.4	5036.4	2060.0	1687.3	1577.4
82.5°	2947.0	2446.2	2648.9	2205.4	2790.6	2430.2	1940.2	659.8	573.0	545.0
85°	1917.0	1336.7	696.4	466.7	961.5	1553.0	433.7	179.6	138.1	109.9
87.5°	661.0	340.9	34.2	14.6	102.7	289.6	15.9	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)