

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: P383536

Luminaire Tested: **GLEON-SA8B-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383536
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-SA8B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 31626 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

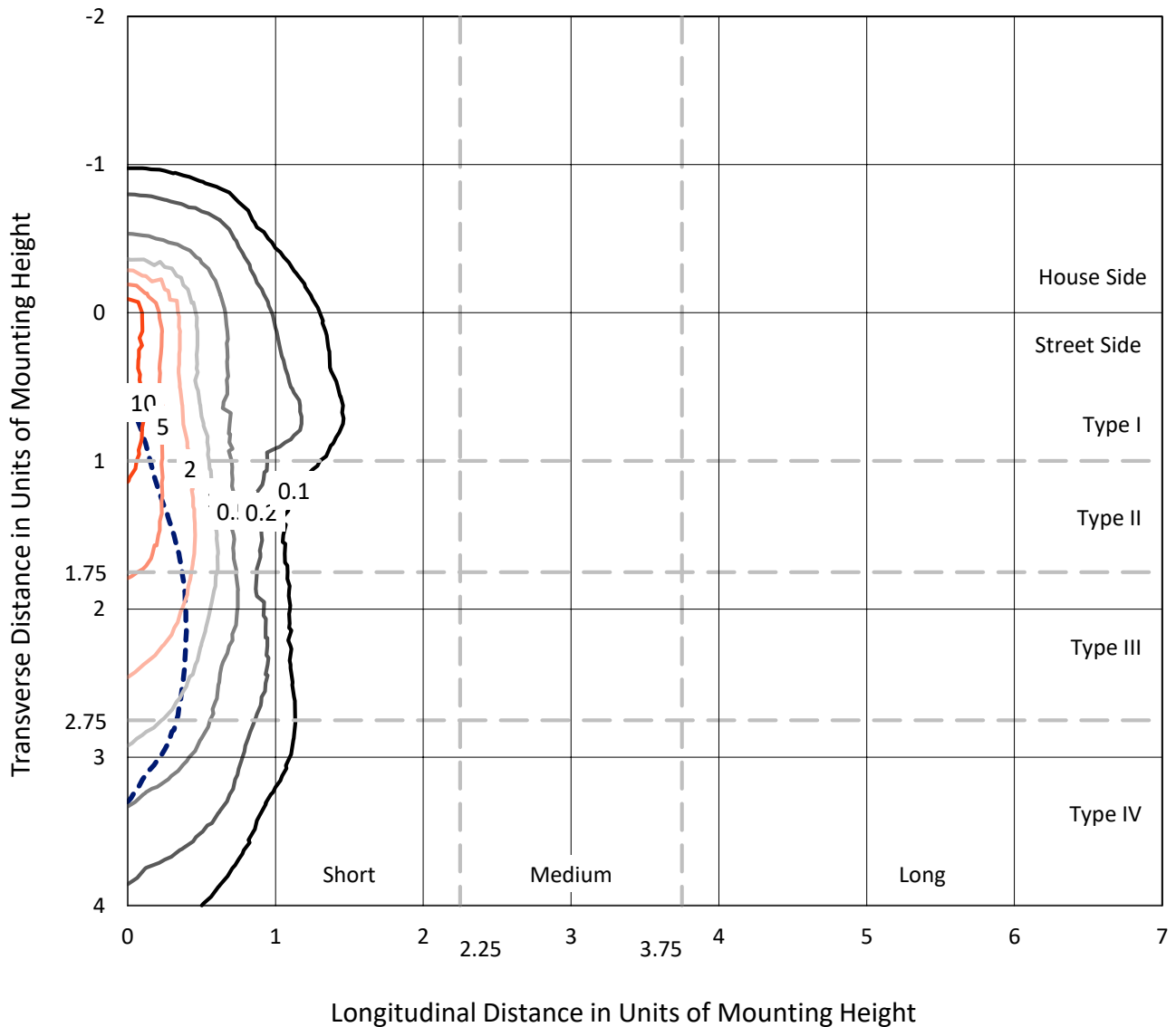
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

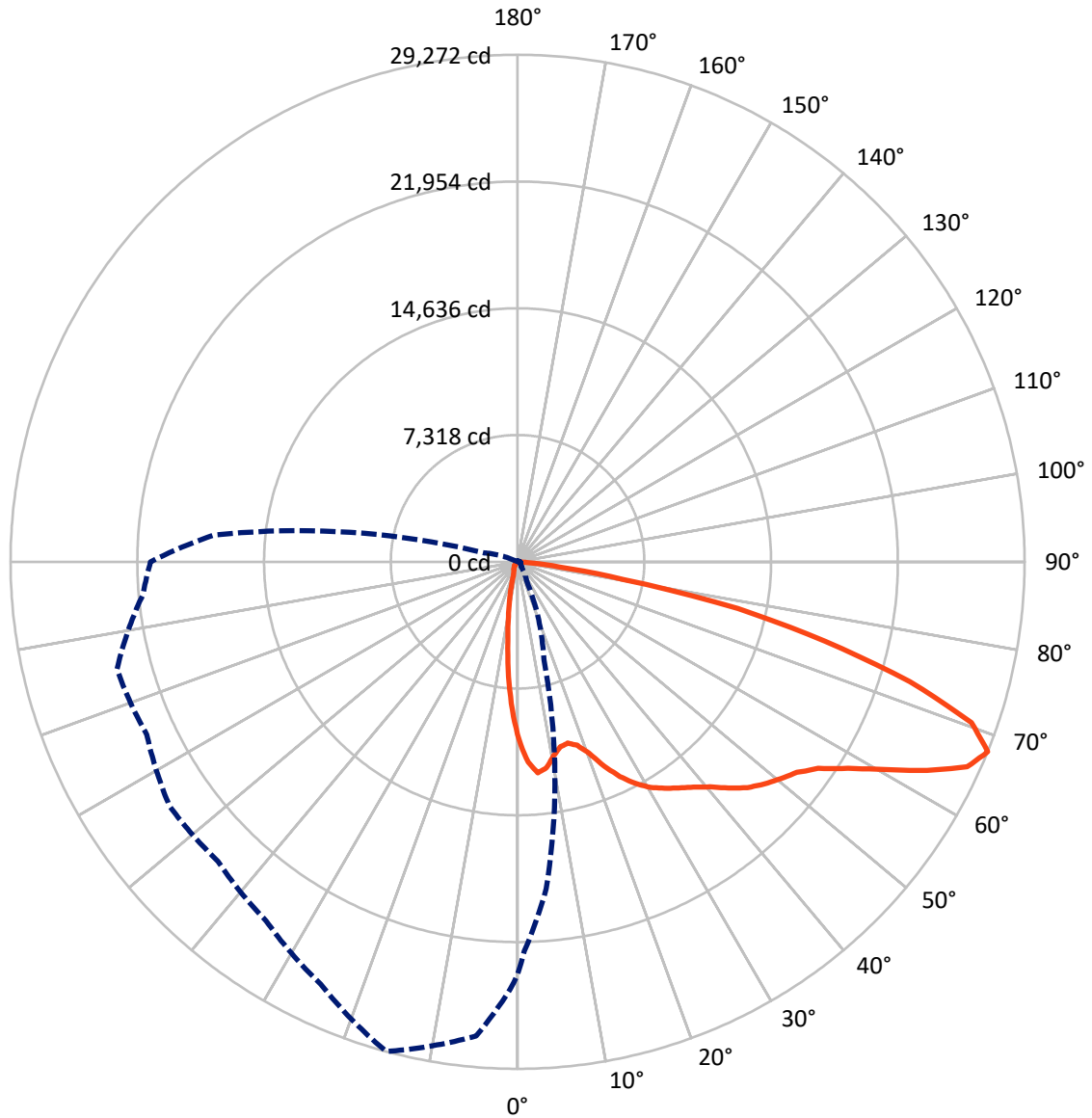
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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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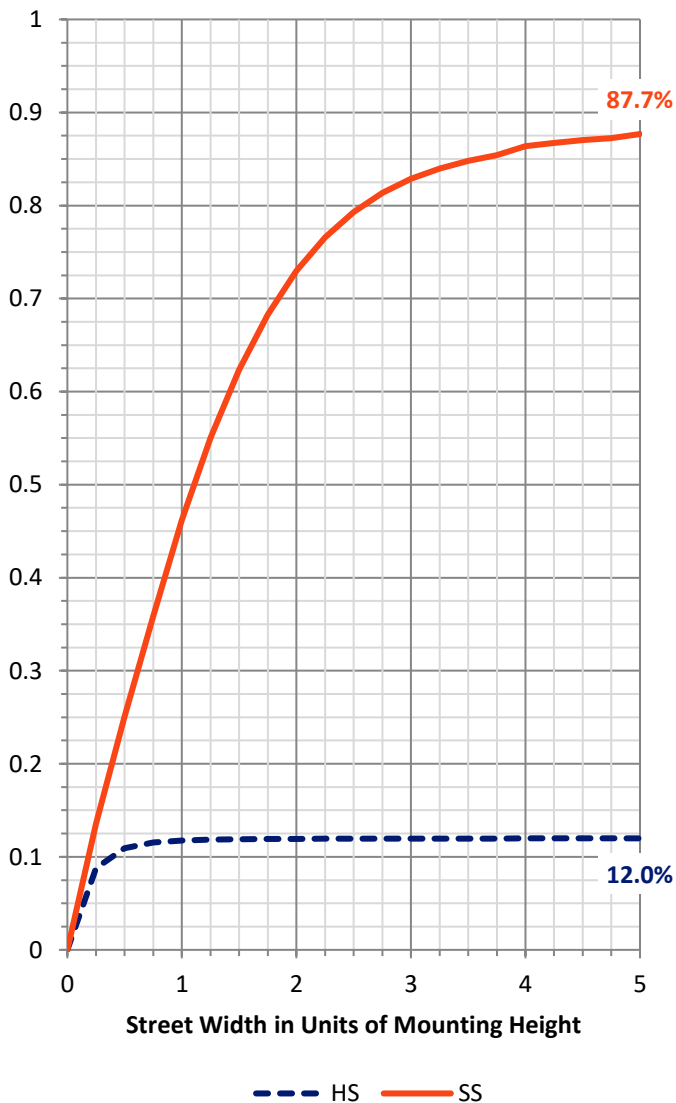
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3827.8	0.0	3827.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	27798.3	0.0	27798.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	31626.0	0.0	31626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.7	2.5
10°-20°	1573.8	5.0
20°-30°	2234.8	7.1
30°-40°	3301.0	10.4
40°-50°	4760.7	15.1
50°-60°	6683.1	21.1
60°-70°	7790.6	24.6
70°-80°	3982.7	12.6
80°-90°	508.6	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°	31626.0	100.0
0°-180°	31626.0	100.0

Coefficient of Utilization



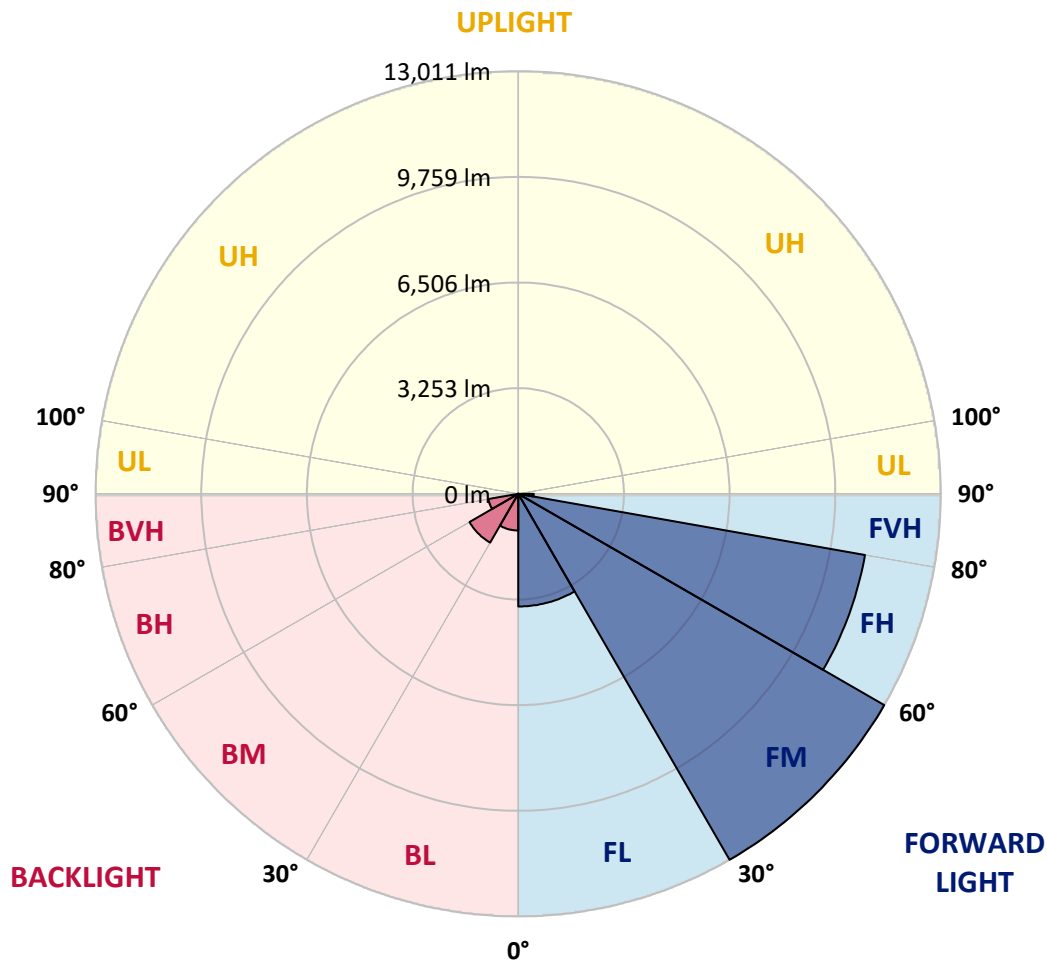
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3468.8	11.0			
FM (30°-60°)	13011.5	41.1			
FH (60°-80°)	10840.3	34.3			G4/12000
FVH (80°-90°)	477.7	1.5			G3/500
BL (0°-30°)	1130.6	3.6	B3/2500		
BM (30°-60°)	1733.3	5.5	B2/2500		
BH (60°-80°)	933.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	30.9	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1
2.5°	11280.5	11193.6	11097.7	10784.5	10493.9	10161.3	9890.1	9701.3	9464.6	9157.5	9079.5
5°	11199.6	11106.7	10805.6	10108.9	9499.1	8905.7	8333.4	7997.8	7581.3	7158.8	7053.9
7.5°	10386.0	10288.7	9854.1	8899.7	8078.7	7221.6	6478.5	6018.5	5548.1	5161.5	4956.3
10°	9539.5	9433.1	8944.7	7786.5	6775.1	6000.6	5455.2	5016.2	4571.2	4157.7	3828.1
12.5°	8956.6	8817.4	8287.0	6974.5	6093.4	5567.6	5058.2	4532.3	3930.0	3486.5	3123.9
15°	8712.5	8553.7	7993.3	6661.3	5852.3	5234.9	4571.2	3925.4	3219.8	2711.8	2379.3
17.5°	8901.2	8694.5	8093.7	6640.4	5549.6	4709.1	3870.0	3111.9	2346.3	1832.4	1595.6
20°	9542.5	9271.3	8508.7	6634.4	5182.6	4084.3	3020.5	2163.5	1546.2	1243.5	1119.3
22.5°	10552.3	10194.2	9105.0	6682.3	4803.4	3428.0	2181.5	1469.8	1161.2	1003.8	930.4
25°	11772.0	11356.9	9963.6	6851.6	4470.9	2789.8	1585.2	1161.2	979.9	864.5	803.1
27.5°	12931.6	12594.5	11048.2	7095.8	4213.1	2274.4	1287.0	984.4	837.6	761.2	711.7
30°	14089.8	13665.7	12161.4	7386.5	3903.0	1925.3	1131.2	897.5	750.6	669.7	638.3
32.5°	14931.8	14579.7	13033.5	7596.2	3571.9	1697.6	1011.3	821.1	701.2	618.8	572.3
35°	15922.1	15523.6	13781.1	7642.7	3359.2	1553.7	909.5	738.6	608.3	534.9	485.4
37.5°	16991.9	16495.9	14644.1	7540.8	3192.8	1483.3	833.1	701.2	567.9	493.0	440.5
40°	18175.5	17615.2	15472.6	7394.0	3029.5	1459.4	774.6	672.8	536.4	460.0	406.1
42.5°	19422.1	18761.4	16190.3	7239.6	2926.1	1376.9	768.6	644.3	512.4	430.0	376.1
45°	20469.4	19799.7	16927.5	7188.8	2852.7	1287.0	794.1	624.8	496.0	406.1	353.6
47.5°	21303.9	20670.2	17682.6	7302.6	2810.8	1204.6	723.6	650.2	486.9	385.1	334.1
50°	22300.3	21582.7	18746.4	7642.7	2749.4	1122.2	654.8	744.7	486.9	371.6	317.7
52.5°	23549.9	22839.7	19933.0	8170.0	2626.5	1008.3	588.8	746.2	491.4	353.6	296.7
55°	25121.5	24606.2	21627.6	8748.4	2430.2	840.5	509.4	641.3	473.4	320.6	277.1
57.5°	26628.8	26207.8	23172.2	9144.0	2168.0	656.3	443.5	516.9	433.0	281.7	247.2
59°	27040.9	26580.9	23738.6	9162.0	1971.7	572.3	410.5	427.0	424.0	263.7	229.3
60°	27040.9	26552.4	23901.9	9066.0	1829.4	525.9	389.6	380.5	442.0	251.7	218.7
62.5°	26550.9	25864.7	23371.6	8417.3	1492.2	448.0	340.1	314.7	397.0	226.3	193.3
65°	25532.0	24532.7	21564.7	7244.2	1330.4	410.5	293.6	257.7	275.6	199.3	169.3
67.5°	23833.0	22478.6	18959.1	5852.3	1266.1	400.0	253.2	218.7	208.3	170.8	148.3
70°	20841.0	19338.2	15796.3	4601.2	1210.6	395.5	212.8	184.3	167.8	143.8	125.9
72.5°	15168.5	13601.3	11214.5	3597.4	1177.7	404.6	170.8	154.4	137.9	112.3	97.3
75°	8676.5	7650.1	6303.2	2376.3	1003.8	386.6	131.8	128.8	98.9	81.0	67.4
77.5°	4482.8	4346.5	3777.1	912.5	481.0	169.3	86.9	74.9	58.4	49.5	40.4
80°	1934.3	1913.3	1655.5	263.7	127.3	94.4	49.5	31.5	27.0	21.0	16.5
82.5°	668.2	668.2	588.8	88.4	56.9	46.5	6.0	0.0	0.0	0.0	0.0
85°	134.9	151.3	106.4	0.0	19.5	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°	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1
2.5°	8985.1	8803.9	8791.9	8678.0	8535.7	8471.2	8433.8	8499.7	8580.6	8589.6	8711.0
5°	6974.5	6784.2	6863.5	6661.3	6701.7	6661.3	6595.4	6607.4	6643.3	6531.0	6670.3
7.5°	4897.9	4754.1	4845.4	4791.5	4863.4	4891.8	4851.4	4791.5	4614.7	4593.7	4715.0
10°	3691.7	3528.4	3431.1	3329.2	3351.6	3398.1	3383.1	3339.7	3227.3	3233.3	3350.1
12.5°	2966.6	2783.8	2590.5	2340.3	2278.8	2313.3	2278.8	2253.4	2145.5	2154.5	2257.9
15°	2250.4	2100.5	1898.3	1697.6	1588.2	1598.6	1502.8	1435.3	1367.9	1287.0	1349.9
17.5°	1519.3	1427.9	1367.9	1308.0	1177.7	1147.7	1026.3	896.0	845.0	807.6	834.6
20°	1075.8	1026.3	1002.3	999.4	924.5	887.0	768.6	687.7	662.2	654.8	671.2
22.5°	898.9	863.0	828.5	809.0	771.6	728.2	638.3	597.8	579.8	570.9	582.9
25°	782.1	755.1	719.2	686.2	671.2	624.8	560.3	530.4	518.4	509.4	515.4
27.5°	695.2	671.2	629.3	608.3	596.3	555.9	500.4	476.5	466.0	463.0	461.5
30°	626.3	603.8	564.9	540.9	519.9	483.9	451.0	427.0	416.5	413.5	410.5
32.5°	557.3	539.4	513.9	489.9	467.5	434.5	406.1	386.6	370.1	367.1	365.5
35°	470.4	452.5	439.0	437.5	416.5	385.1	364.0	338.6	325.1	320.6	322.1
37.5°	418.0	394.0	364.0	374.6	368.6	346.1	317.7	292.1	278.7	275.6	275.6
40°	385.1	359.6	325.1	307.1	325.1	320.6	275.6	250.2	236.7	235.2	232.2
42.5°	353.6	328.1	289.2	259.2	268.2	281.7	238.2	214.3	200.7	197.8	193.3
45°	331.1	304.2	260.7	226.3	208.3	236.7	203.7	173.8	166.3	160.3	157.3
47.5°	310.1	284.7	235.2	196.3	166.3	170.8	163.3	142.3	133.3	127.3	125.9
50°	292.1	265.2	212.8	167.8	137.9	125.9	131.8	112.3	104.9	98.9	95.9
52.5°	271.2	245.7	188.8	145.3	115.3	98.9	100.4	88.4	81.0	76.4	74.9
55°	254.7	229.3	169.3	127.3	101.9	81.0	71.9	68.9	64.5	61.4	59.9
57.5°	232.2	208.3	149.8	107.9	86.9	66.0	55.4	55.4	53.9	51.0	49.5
59°	218.7	197.8	137.9	97.3	79.4	56.9	49.5	51.0	49.5	46.5	45.0
60°	208.3	188.8	128.8	89.9	74.9	52.4	45.0	48.0	46.5	43.4	41.9
62.5°	184.3	170.8	110.9	74.9	66.0	41.9	37.4	40.4	40.4	38.9	37.4
65°	161.8	146.8	94.4	63.0	61.4	36.0	30.0	36.0	37.4	34.5	31.5
67.5°	140.8	125.9	82.4	51.0	56.9	28.5	22.5	30.0	40.4	31.5	28.5
70°	119.9	104.9	64.5	40.4	59.9	19.5	18.0	27.0	48.0	34.5	27.0
72.5°	92.9	81.0	45.0	30.0	64.5	13.5	13.5	22.5	53.9	37.4	25.4
75°	64.5	52.4	27.0	18.0	52.4	9.0	9.0	21.0	51.0	34.5	23.9
77.5°	37.4	28.5	9.0	1.5	27.0	0.0	1.5	15.0	36.0	21.0	10.5
80°	13.5	6.0	0.0	0.0	16.5	0.0	0.0	0.0	3.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1
2.5°	8742.4	8944.7	9126.0	9400.2	9725.3	10099.8	10422.0	10768.1	11093.2	11228.0	11320.9
5°	6698.8	6949.0	7241.2	7644.2	8180.6	8841.3	9460.1	10159.8	10912.0	11288.0	11641.6
7.5°	4736.1	4990.8	5353.3	5781.8	6430.6	7217.2	8026.2	8992.6	10011.4	10606.2	11192.1
10°	3405.6	3718.7	4057.4	4643.1	5302.4	6048.5	6881.5	7960.4	9096.0	9755.3	10460.9
12.5°	2317.8	2674.4	3186.8	3843.1	4617.7	5348.9	6072.5	7101.8	8420.3	9073.6	9830.2
15°	1390.4	1588.2	2130.5	2890.1	3840.1	4751.0	5543.6	6575.9	7981.3	8781.4	9567.9
17.5°	857.0	948.4	1243.5	1866.8	2864.7	4016.8	5103.1	6397.6	8044.2	9018.1	9860.2
20°	683.2	719.2	813.5	1102.8	1898.3	3207.8	4607.2	6361.6	8558.1	9756.8	10660.2
22.5°	593.3	627.8	690.7	801.6	1194.2	2401.7	4136.7	6394.6	9295.3	10864.0	11918.8
25°	522.9	552.9	612.8	704.2	875.0	1691.5	3633.3	6541.4	10255.7	12237.9	13358.6
27.5°	467.5	493.0	548.4	632.2	750.6	1180.6	3062.5	6719.7	11394.4	13643.3	14749.0
30°	416.5	439.0	488.4	566.4	651.7	908.0	2436.2	6841.1	12534.5	14749.0	15742.3
32.5°	373.1	389.6	434.5	500.4	566.4	723.6	1851.8	6821.6	13381.0	15668.9	16457.0
35°	328.1	344.6	383.5	440.5	493.0	597.8	1456.3	6457.6	14118.3	16623.4	17275.1
37.5°	278.7	299.7	337.1	388.1	424.0	525.9	1177.7	6018.5	14865.8	17714.1	18187.5
40°	236.7	257.7	290.6	346.1	368.6	498.9	905.0	5483.6	15706.4	18933.7	19188.4
42.5°	196.3	215.7	250.2	298.2	347.6	430.0	669.7	4872.4	16514.0	19976.5	20100.8
45°	158.8	178.3	214.3	262.2	371.6	356.6	518.4	4217.7	17165.7	20843.9	20884.5
47.5°	125.9	143.8	181.3	247.2	346.1	284.7	370.1	3703.7	17712.5	21521.2	21414.8
50°	97.3	112.3	151.3	283.2	302.7	235.2	280.2	3532.9	18202.5	21940.7	21665.0
52.5°	76.4	89.9	124.4	265.2	235.2	194.8	235.2	3693.2	18873.7	22288.3	21805.9
55°	61.4	74.9	97.3	151.3	160.3	164.8	200.7	3843.1	20031.9	23103.4	22637.4
57.5°	51.0	64.5	79.4	106.4	121.4	139.4	178.3	3859.6	21396.8	24457.8	24017.3
59°	46.5	58.4	71.9	94.4	106.4	127.3	167.8	3769.7	21877.8	24950.8	24730.4
60°	43.4	55.4	67.4	86.9	98.9	119.9	161.8	3684.3	21898.7	24932.8	25034.6
62.5°	37.4	49.5	59.9	73.4	83.9	101.9	145.3	3368.1	21011.8	24116.2	24851.8
65°	33.0	43.4	53.9	63.0	71.9	91.4	131.8	2791.3	19497.0	22799.3	23600.8
67.5°	30.0	37.4	49.5	55.4	64.5	81.0	116.9	1989.7	17604.7	21188.6	21708.5
70°	27.0	36.0	45.0	51.0	58.4	70.4	100.4	1143.2	14865.8	18830.3	19200.4
72.5°	25.4	34.5	40.4	48.0	52.4	63.0	91.4	537.9	10884.9	15084.6	16051.0
75°	22.5	31.5	37.4	45.0	49.5	56.9	77.9	257.7	7239.6	10916.4	12014.6
77.5°	13.5	25.4	34.5	40.4	43.4	49.5	64.5	148.3	4620.7	7555.8	8899.7
80°	0.0	9.0	25.4	34.5	37.4	41.9	49.5	116.9	2472.1	4316.5	5181.0
82.5°	0.0	0.0	18.0	27.0	25.4	28.5	37.4	73.4	1114.7	2821.3	3179.4
85°	0.0	0.0	6.0	21.0	18.0	13.5	25.4	25.4	244.3	1427.9	1781.5
87.5°	0.0	0.0	0.0	1.5	9.0	6.0	10.5	3.0	1.5	106.4	431.5
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: P383536

CATALOG NUMBER: GLEON-SA8B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1	10302.1
2.5°	11646.1	11757.0	11944.2	12032.6	11989.2	11804.9	11584.6	11359.9	11228.0	11280.5
5°	12362.3	12933.0	13262.7	13372.1	13189.3	12775.8	12234.9	11521.8	11268.5	11199.6
7.5°	12362.3	13436.5	14116.8	14236.6	13829.1	13018.5	12004.2	10890.9	10520.9	10386.0
10°	11927.7	13390.1	14338.5	14528.8	13959.4	12747.3	11388.4	10117.8	9678.9	9539.5
12.5°	11437.8	13012.5	14011.9	14274.0	13806.6	12477.6	10961.3	9594.9	9078.0	8956.6
15°	11136.7	12548.0	13375.1	13565.4	13367.6	12320.3	10859.5	9437.6	8829.3	8712.5
17.5°	11244.5	12188.5	12486.7	12597.5	12730.8	12264.8	11136.7	9782.2	9012.1	8901.2
20°	11650.6	11809.4	11655.1	11794.4	12154.0	12318.8	11797.4	10615.3	9690.8	9542.5
22.5°	12339.7	11613.1	11180.2	11235.6	11673.0	12497.1	12807.2	11804.9	10738.1	10552.3
25°	13142.8	11772.0	10916.4	10867.0	11316.4	12732.3	13730.2	13099.4	11977.2	11772.0
27.5°	14152.7	12128.6	10862.5	10813.0	11192.1	12952.6	14497.3	14378.9	13282.2	12931.6
30°	14931.8	12479.1	11022.8	10908.9	11316.4	13105.4	15113.1	15465.2	14322.0	14089.8
32.5°	15490.6	12892.6	11283.5	11118.7	11667.1	13369.1	15588.1	16460.0	15283.9	14931.8
35°	15916.1	13342.1	11704.5	11433.3	12149.5	13769.1	16033.1	17519.3	16307.2	15922.1
37.5°	16314.7	13972.9	12362.3	12038.6	12906.1	14413.4	16503.5	18720.9	17451.9	16991.9
40°	16870.5	14687.5	13376.6	13088.9	14178.2	15291.4	17090.8	19973.5	18753.9	18175.5
42.5°	17426.4	15454.7	14414.9	14492.8	15764.9	16358.2	17848.9	21298.0	20039.4	19422.1
45°	17934.3	16245.8	15893.7	16253.3	17237.6	17528.3	18602.5	22063.6	21065.7	20469.4
47.5°	18386.8	17234.7	17363.5	18320.8	18912.7	18587.5	19165.9	22724.3	21829.8	21303.9
50°	18912.7	18514.1	19300.7	20655.2	20841.0	19546.5	19678.3	23506.4	22722.8	22300.3
52.5°	19488.1	19862.6	21446.3	22640.4	22580.4	20587.8	20193.7	24382.9	23946.9	23549.9
55°	20141.3	20951.8	23335.6	24498.3	24447.3	21750.4	21047.8	25466.2	25481.1	25121.5
57.5°	21110.6	21889.8	24618.1	26001.0	26086.4	23092.9	22495.1	26679.7	26868.5	26628.8
59°	21805.9	22498.1	25126.1	26628.8	26976.4	24131.2	23552.9	27384.0	27259.6	27040.9
60°	22321.3	22884.6	25377.8	26956.9	27493.3	24835.3	24333.4	27797.5	27306.0	27040.9
62.5°	23596.3	23726.6	25831.7	27328.5	28088.1	26399.6	26529.9	28501.6	26983.9	26550.9
65°	24191.1	24258.5	25825.8	26663.2	27512.8	27617.7	28522.6	28522.6	26197.3	25532.0
67.5°	23942.4	23617.2	24544.7	24457.8	25305.9	26894.0	29271.7	27476.8	24693.0	23833.0
70°	21919.7	20668.7	20256.7	20294.1	20942.9	23392.6	27788.4	24399.4	21846.3	20841.0
72.5°	18238.5	15237.4	14220.1	15381.2	15550.6	17977.8	23681.7	18374.8	16110.9	15168.5
75°	14669.5	10741.1	9087.1	10312.6	10600.3	13156.3	18319.3	11443.8	9410.7	8676.5
77.5°	10538.9	7710.1	6520.5	6435.0	6806.6	8343.9	12999.0	5759.4	4803.4	4482.8
80°	5987.1	5074.6	5464.2	5155.6	5342.8	5216.9	6175.9	2526.1	2069.2	1934.3
82.5°	3613.8	2999.6	3248.2	2704.4	3422.0	2980.0	2379.3	809.0	702.7	668.2
85°	2350.8	1639.2	854.0	572.3	1179.2	1904.3	531.9	220.2	169.3	134.9
87.5°	810.5	418.0	41.9	18.0	125.9	355.1	19.5	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)