

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: P383590

Luminaire Tested: **GLEON-SA8D-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383590
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-SA8D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA 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: 42945.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

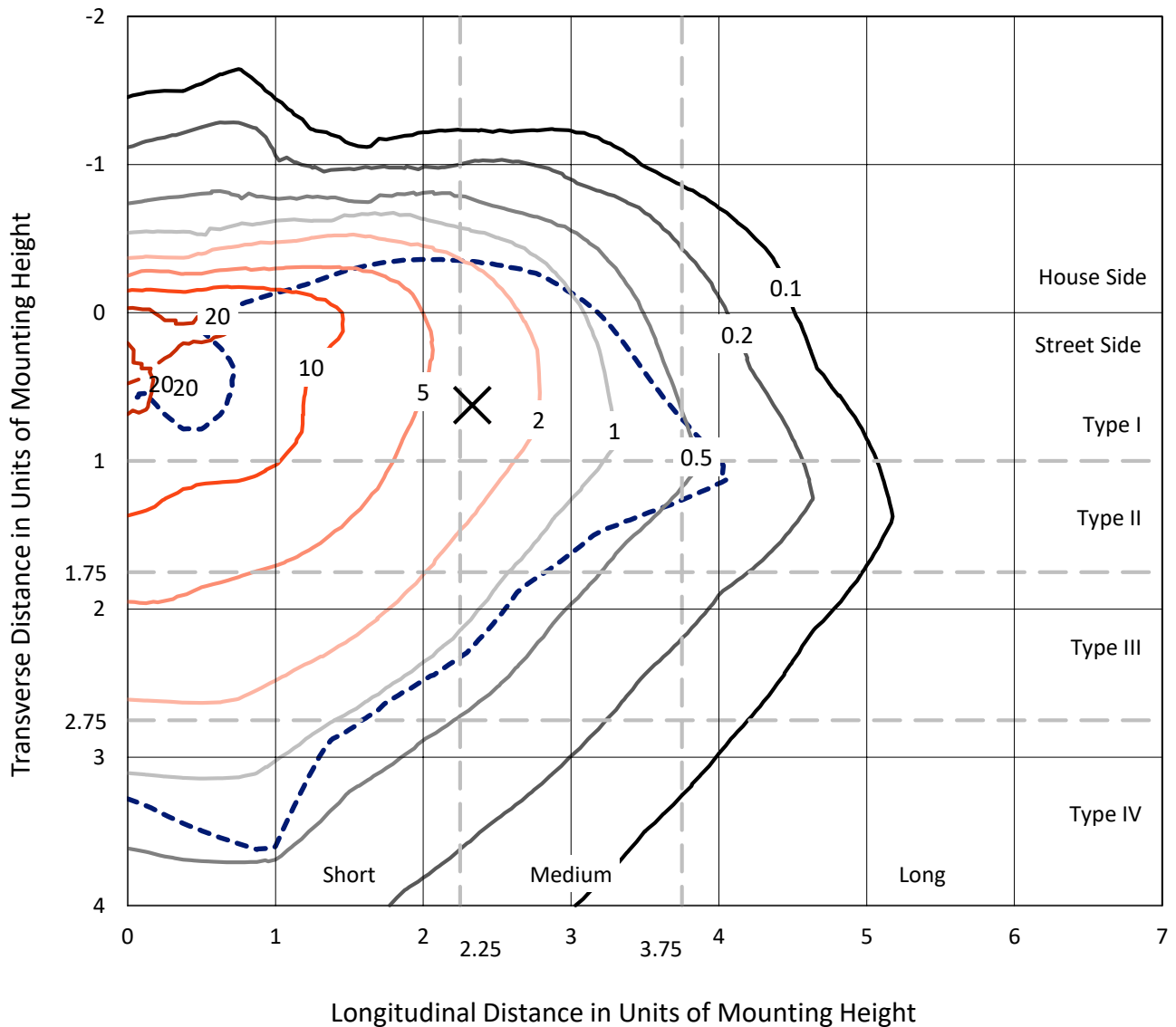
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383590
 CATALOG NUMBER: GLEON-SA8D-735-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

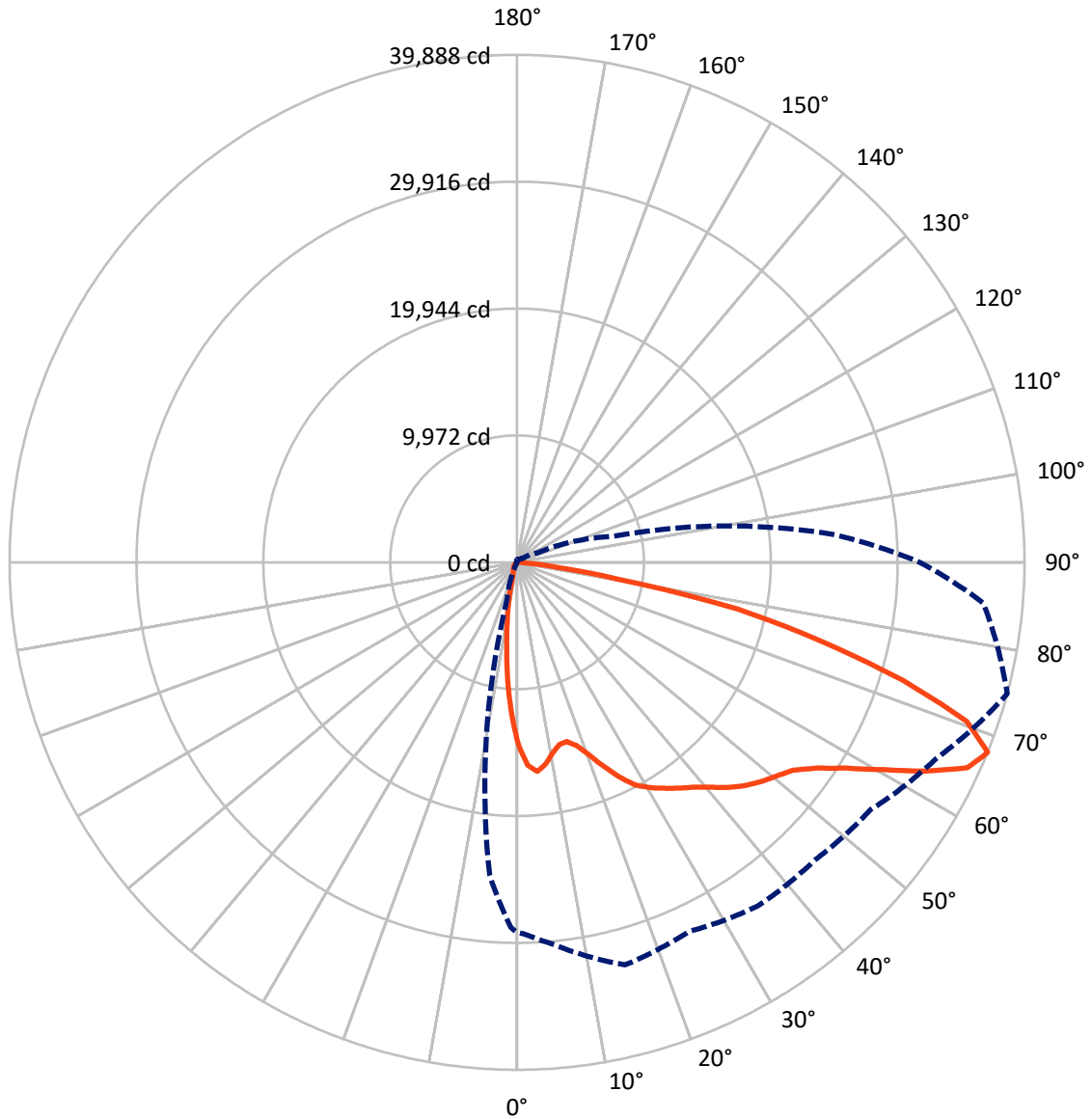
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P383590
CATALOG NUMBER: GLEON-SA8D-735-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P383590
 CATALOG NUMBER: GLEON-SA8D-735-U-SLL-HSS

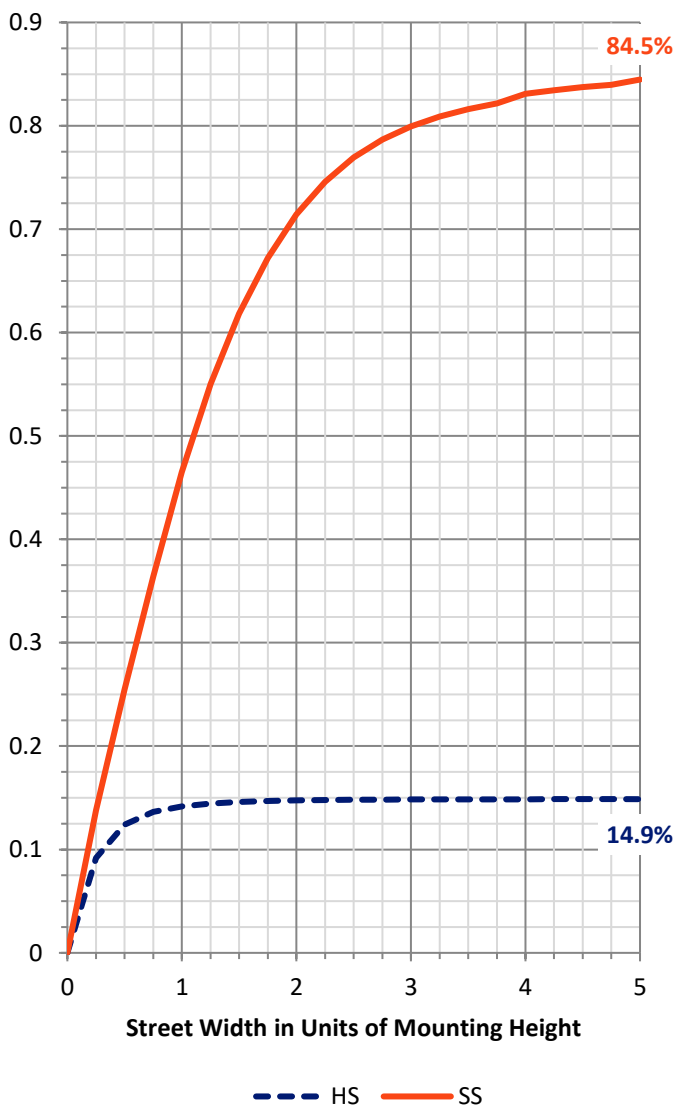
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6444.4	0.0	6444.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	36500.9	0.0	36500.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	42945.3	0.0	42945.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.9	2.5
10°-20°	2151.9	5.0
20°-30°	3044.3	7.1
30°-40°	4476.0	10.4
40°-50°	6433.4	15.0
50°-60°	9056.6	21.1
60°-70°	10577.3	24.6
70°-80°	5396.2	12.6
80°-90°	716.8	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°	42945.3	100.0
0°-180°	42945.3	100.0

Coefficient of Utilization

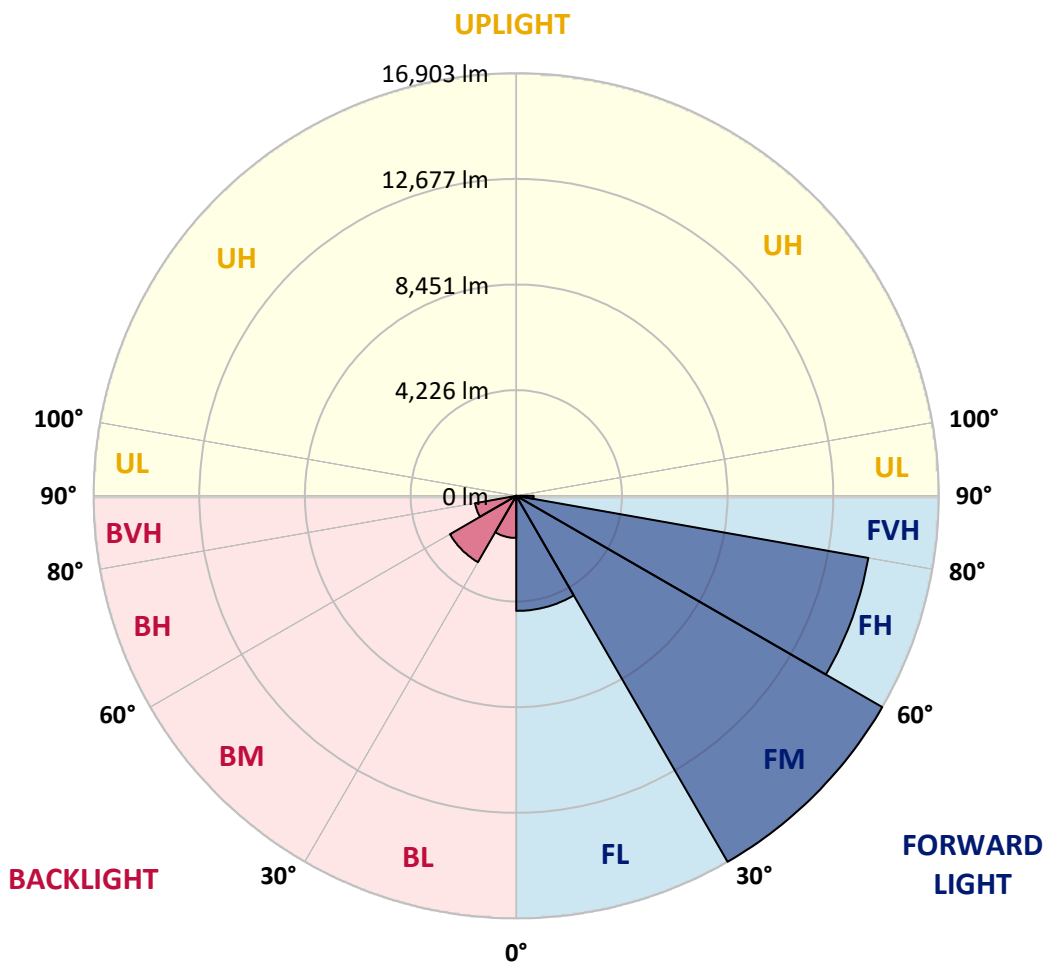


REPORT NUMBER: P383590
 CATALOG NUMBER: GLEON-SA8D-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4603.7	10.7			
FM (30°-60°)	16902.5	39.4			
FH (60°-80°)	14299.5	33.3			G5
FVH (80°-90°)	695.1	1.6			G4/750
BL (0°-30°)	1685.3	3.9	B3/2500		
BM (30°-60°)	3063.5	7.1	B3/5000		
BH (60°-80°)	1673.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	21.7	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 III Medium





REPORT NUMBER: P383590

CATALOG NUMBER: GLEON-SA8D-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4
2.5°	15617.9	15642.3	15768.4	16061.4	16380.7	16405.1	16620.8	16399.1	16323.8	15965.7	15595.5
5°	15735.9	15829.4	16262.8	17123.3	17869.9	18109.9	18280.9	17845.5	17387.8	16513.0	15579.2
7.5°	14785.8	14942.5	15623.9	17239.2	18573.8	19163.8	19275.7	18594.2	17473.2	16032.9	14629.1
10°	13569.2	13748.2	14570.1	16555.7	18388.7	19399.8	19554.4	18661.2	17050.0	15255.8	13601.8
12.5°	12584.6	12794.2	13634.3	15786.8	17751.9	18870.8	19176.0	18435.4	16683.8	14704.4	12900.0
15°	12131.0	12371.0	13253.9	15290.3	17046.0	17926.9	18179.2	17859.7	16480.5	14616.9	12737.1
17.5°	12391.4	12651.7	13563.1	15333.1	16382.8	16759.1	16962.6	17092.8	16480.5	15143.9	13213.3
20°	13459.4	13740.1	14704.4	15766.3	15833.5	15693.1	15910.8	16368.5	16671.6	16144.7	14356.5
22.5°	14936.3	15265.9	16354.3	16508.9	15564.9	15034.0	15062.5	15780.6	17019.6	17414.2	15943.3
25°	16736.7	17139.5	18246.2	17615.6	15676.8	14641.3	14631.2	15296.4	17359.3	18685.7	17711.2
27.5°	18524.9	18968.5	19940.9	18966.4	16138.7	14570.1	14549.8	15149.9	17690.8	19816.8	19641.9
30°	20024.3	20455.6	21293.8	19945.0	16637.1	14737.0	14639.4	15306.6	17888.2	20551.2	21049.6
32.5°	21245.0	21590.8	22268.2	20618.3	17170.1	15060.4	14848.9	15725.6	18223.9	21171.7	22343.4
35°	22587.6	22951.7	23222.4	21259.1	17768.2	15526.3	15223.2	16391.0	18740.6	21802.3	23761.5
37.5°	24119.4	24481.6	24449.0	21845.1	18527.0	16297.3	16104.0	17444.7	19544.1	22426.9	25344.1
40°	25618.8	25989.1	25724.6	22485.9	19418.0	17568.8	17426.4	19027.4	20620.4	23226.4	27199.5
42.5°	27022.5	27423.3	26857.7	23092.1	20480.0	19171.9	19416.1	21065.9	21967.1	24211.0	28798.5
45°	28153.6	28562.6	27807.8	23682.1	21598.9	21116.8	21851.1	23324.1	23586.5	25043.1	29878.8
47.5°	28975.5	29362.1	28467.0	24272.0	23031.1	23494.9	24774.5	25692.1	25049.2	25765.3	30645.8
50°	29500.4	29801.5	28660.2	25010.6	24910.9	26269.8	27820.0	28267.5	26426.4	26416.3	31577.5
52.5°	29834.0	29970.3	28802.6	25781.6	26872.0	29290.8	30802.4	30942.8	27844.4	27132.3	32832.7
55°	30983.5	31093.3	29811.7	26715.4	28493.3	31937.6	33499.9	33369.8	29449.6	28534.0	34313.7
57.5°	32944.6	33060.5	31896.8	28058.0	29805.5	33573.2	35455.0	35689.0	31331.3	30503.3	35900.5
60°	33929.2	34144.9	33729.8	29758.8	31077.0	34618.8	36787.5	37534.1	33683.1	33099.2	37438.5
62.5°	33036.1	33349.4	33951.6	31644.6	32340.4	35194.6	37202.5	38195.3	36091.8	36124.3	38386.6
65°	31254.0	31504.3	32525.5	32678.0	33072.7	35123.4	36177.2	37271.7	37566.7	38903.3	38335.7
67.5°	29101.6	29195.3	30061.9	32759.5	32010.8	32983.2	33097.1	33906.8	36401.0	39887.8	36795.7
70°	26003.3	26054.2	26811.0	30035.4	27508.8	27722.4	27553.5	27718.3	31294.7	37489.4	32907.9
72.5°	20927.6	21055.8	22131.9	24943.4	20040.6	19424.2	20750.6	20677.4	24101.2	31673.1	24440.9
75°	15408.4	15630.1	17255.5	20091.4	14065.6	12723.0	13691.3	13949.6	17133.5	24499.9	15284.2
77.5°	10788.3	10953.0	12527.6	14769.5	10180.0	9097.7	8747.8	9055.0	11309.1	17723.4	7700.1
80°	6215.0	6276.0	7281.0	8528.0	6859.9	7848.6	7110.1	7321.7	6776.4	7885.2	3311.9
82.5°	4066.7	4076.9	4469.5	5075.7	4272.2	4963.8	3674.1	4697.3	4168.4	3167.5	1078.2
85°	2197.1	2209.4	2591.8	3602.9	2418.9	1367.1	803.6	1649.9	2577.6	726.2	295.0
87.5°	242.1	221.7	781.2	1310.1	671.4	124.1	42.8	185.1	413.0	46.8	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: P383590

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4
2.5°	15406.3	15237.4	14816.4	14370.8	14012.7	13677.1	13339.4	12926.3	12607.0	12541.9	12436.1
5°	15076.7	14541.6	13658.7	12771.8	12057.7	11156.5	10584.8	10139.3	9703.9	9677.5	9590.0
7.5°	13925.2	13221.4	11978.4	10751.6	9746.7	8888.2	8021.6	7441.8	6986.0	6825.4	6729.7
10°	12818.6	12027.2	10475.0	9075.3	8178.1	7419.3	6809.1	6202.8	5653.5	5275.1	5104.2
12.5°	12045.5	11170.7	9459.8	8253.4	7610.6	6890.4	6145.8	5389.0	4756.4	4300.7	4022.0
15°	11746.4	10812.7	9120.0	7927.9	7134.5	6223.1	5271.1	4406.4	3704.6	3291.6	3041.4
17.5°	12102.5	11016.1	9093.7	7531.2	6422.5	5289.3	4237.6	3216.4	2555.1	2241.9	2081.2
20°	13005.7	11663.1	9083.4	7045.0	5576.2	4182.6	2870.5	2115.7	1715.0	1540.0	1464.8
22.5°	14283.3	12489.0	9164.8	6564.9	4695.3	2988.5	1981.5	1554.3	1348.8	1255.2	1212.5
25°	15927.0	13648.6	9394.8	6129.6	3867.3	2229.7	1544.0	1302.0	1157.5	1084.3	1053.8
27.5°	17678.6	14983.1	9752.7	5751.2	3194.0	1778.0	1322.3	1114.9	1011.1	960.2	931.7
30°	19123.1	16529.3	10114.9	5330.0	2705.7	1550.2	1210.5	1017.2	897.2	864.6	838.2
32.5°	20386.5	17699.0	10371.2	4949.6	2386.3	1377.3	1094.5	909.4	828.0	764.9	736.5
35°	21694.5	18673.5	10363.1	4683.1	2166.6	1247.1	996.8	813.7	716.1	642.9	620.5
37.5°	23110.5	19774.1	10186.1	4455.3	2071.0	1143.3	941.9	762.8	665.2	592.0	563.5
40°	24768.5	20929.6	10005.0	4241.6	2044.6	1059.9	903.2	722.2	618.5	547.3	518.8
42.5°	26383.8	21971.2	9846.4	4083.0	1930.6	1057.9	868.7	691.7	581.8	512.6	480.1
45°	27675.5	22941.6	9815.8	3987.4	1810.6	1094.5	850.4	671.4	553.3	484.2	453.7
47.5°	28749.7	23995.4	10011.2	3920.2	1696.6	998.9	895.1	657.1	526.9	459.8	425.2
50°	30027.3	25289.3	10470.9	3810.4	1576.6	899.2	1025.4	661.2	504.5	435.3	398.7
52.5°	31809.4	27079.5	11146.3	3625.2	1411.9	807.7	1009.1	665.2	480.1	408.9	372.2
55°	33807.2	29315.2	11872.6	3318.1	1181.9	687.6	864.6	636.7	433.4	380.4	345.9
57.5°	35906.6	31343.5	12303.9	2951.9	939.8	594.0	691.7	579.8	382.5	341.8	319.4
60°	36236.2	32114.5	12106.6	2502.2	746.6	516.7	512.6	589.9	341.8	301.1	284.8
62.5°	35416.3	31146.2	11152.4	2101.5	624.5	453.7	421.2	514.7	309.2	268.6	252.3
65°	33839.7	28528.0	9606.3	1894.0	579.8	388.5	349.9	362.1	270.6	233.9	219.8
67.5°	31646.6	25032.9	7887.2	1776.0	573.6	333.7	299.0	274.6	233.9	203.4	191.2
70°	27162.9	20854.3	6292.3	1710.9	557.4	280.8	252.3	223.8	195.3	172.9	162.7
72.5°	19991.8	14777.7	4894.7	1639.7	561.4	223.8	219.8	185.1	156.7	134.2	130.2
75°	11551.2	8442.6	3210.2	1328.5	535.1	172.9	183.0	130.2	109.8	93.6	93.6
77.5°	6156.0	5148.9	1222.7	553.3	195.3	109.8	103.8	77.3	69.2	56.9	55.0
80°	2683.3	2266.3	368.2	154.6	107.8	59.0	38.7	34.6	30.6	24.4	22.4
82.5°	950.1	819.9	120.0	75.3	46.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	215.7	154.6	0.0	18.4	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: P383590

CATALOG NUMBER: GLEON-SA8D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4
2.5°	12220.4	12175.7	11911.2	11921.4	11968.2	12035.3	11876.7	11949.9	12147.2	12336.4	12407.7
5°	9449.6	9459.8	9299.1	9398.8	9488.3	9549.3	9293.0	9297.0	9453.7	9667.3	9779.2
7.5°	6658.5	6642.2	6650.3	6888.4	7057.2	6935.2	7030.8	6699.2	6719.5	6872.1	6758.2
10°	4949.6	4725.8	4599.7	4778.7	4963.8	4896.8	4732.0	4624.1	4699.4	4868.3	4856.1
12.5°	3889.7	3568.3	3379.1	3250.9	3403.5	3277.4	3273.3	3179.7	3078.0	3096.3	3366.9
15°	2925.4	2691.4	2467.7	2262.3	2258.2	2215.4	1997.8	1753.6	1733.2	1745.5	1885.8
17.5°	2012.0	1932.7	1841.1	1664.1	1617.4	1438.3	1226.8	1129.0	1080.2	1102.7	1149.4
20°	1413.9	1383.3	1393.5	1297.9	1230.8	1059.9	935.8	897.2	889.0	911.4	933.8
22.5°	1171.8	1116.8	1110.8	1068.0	1000.9	876.8	809.7	787.3	777.1	797.5	813.7
25°	1025.4	970.4	948.0	921.6	850.4	764.9	724.3	703.9	693.7	705.9	716.1
27.5°	903.2	852.4	832.1	813.7	744.6	683.6	651.0	632.7	624.5	628.6	638.8
30°	811.8	766.9	740.5	718.1	659.2	616.4	587.9	569.6	561.4	561.4	571.7
32.5°	716.1	691.7	667.3	638.8	583.9	555.4	526.9	506.6	498.4	500.4	508.6
35°	596.1	587.9	594.0	567.6	520.8	496.4	467.9	445.6	439.4	441.5	449.6
37.5°	528.9	492.3	514.7	500.4	474.0	441.5	404.9	384.4	374.3	380.4	384.4
40°	486.2	441.5	425.2	439.4	435.3	382.5	349.9	329.6	321.4	323.4	327.5
42.5°	449.6	396.7	360.0	358.1	382.5	333.7	299.0	280.8	270.6	270.6	274.6
45°	415.0	358.1	313.3	278.7	321.4	282.8	250.2	233.9	221.7	221.7	223.8
47.5°	388.5	325.5	272.6	227.9	242.1	232.0	205.5	189.2	177.0	177.0	179.0
50°	364.1	293.0	236.0	191.2	181.1	191.2	166.8	148.5	140.4	138.3	142.4
52.5°	337.7	260.4	201.4	162.7	142.4	144.5	130.2	118.0	107.8	107.8	111.9
55°	311.2	233.9	174.9	138.3	118.0	107.8	103.8	95.6	87.5	87.5	91.6
57.5°	284.8	205.5	148.5	113.9	93.6	85.4	85.4	79.4	73.2	73.2	77.3
60°	260.4	177.0	122.0	93.6	73.2	71.2	73.2	67.2	63.1	63.1	67.2
62.5°	232.0	150.5	99.7	77.3	59.0	56.9	63.1	59.0	55.0	55.0	59.0
65°	197.3	128.2	79.4	59.0	44.7	44.7	52.9	48.8	44.7	44.7	48.8
67.5°	166.8	107.8	61.0	42.8	32.5	34.6	44.7	40.7	38.7	38.7	42.8
70°	138.3	83.4	42.8	26.5	18.4	26.5	34.6	34.6	34.6	34.6	38.7
72.5°	103.8	56.9	24.4	10.2	8.1	18.4	28.5	32.5	30.6	30.6	36.6
75°	67.2	32.5	8.1	0.0	0.0	10.2	22.4	26.5	26.5	24.4	30.6
77.5°	38.7	10.2	0.0	0.0	0.0	0.0	14.3	12.2	10.2	8.1	14.3
80°	10.2	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: P383590

CATALOG NUMBER: GLEON-SA8D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4	14407.4
2.5°	12694.5	12934.5	13272.2	13630.3	14181.6	14619.0	15048.2	15416.5	15558.9	15617.9
5°	10047.8	10399.7	10894.1	11528.7	12523.5	13418.7	14326.0	15239.5	15636.1	15735.9
7.5°	7209.8	7659.4	8288.0	9083.4	10249.2	11408.8	12676.1	14016.8	14631.2	14785.8
10°	5336.2	5885.4	6605.6	7443.7	8556.5	9748.7	11130.0	12661.9	13363.8	13569.2
12.5°	3786.0	4528.5	5492.8	6512.0	7476.3	8540.2	9937.9	11626.5	12362.8	12584.6
15°	2223.6	2941.7	4083.0	5448.1	6682.9	7761.1	9181.1	11095.5	11907.1	12131.0
17.5°	1275.6	1633.6	2496.2	4017.9	5694.2	7187.4	8943.0	11227.7	12183.8	12391.4
20°	974.5	1088.4	1438.3	2587.7	4538.7	6623.9	8943.0	11976.3	13154.2	13459.4
22.5°	852.4	935.8	1078.2	1544.0	3340.4	6019.7	9046.8	13058.6	14598.7	14936.3
25°	756.8	832.1	954.1	1161.6	2278.5	5301.5	9293.0	14387.1	16299.4	16736.7
27.5°	677.4	748.7	858.5	1017.2	1558.3	4434.9	9624.6	15945.4	18175.1	18524.9
30°	606.3	673.4	773.1	885.0	1202.3	3452.3	9907.4	17414.2	19647.9	20024.3
32.5°	539.1	600.1	689.6	773.1	984.6	2553.1	9937.9	18577.9	20870.6	21245.0
35°	476.0	531.0	612.3	677.4	815.8	2016.1	9463.9	19586.9	22093.2	22587.6
37.5°	415.0	467.9	539.1	587.9	718.1	1643.8	8739.7	20711.9	23661.8	24119.4
40°	358.1	404.9	478.1	510.6	679.5	1263.4	7952.3	21891.8	25199.8	25618.8
42.5°	305.2	349.9	421.2	484.2	596.1	943.9	7102.0	22998.5	26583.1	27022.5
45°	254.3	301.1	372.2	512.6	494.4	705.9	6192.6	23732.9	27675.5	28153.6
47.5°	205.5	258.4	356.0	488.2	394.7	518.8	5472.5	24428.7	28503.6	28975.5
50°	164.8	217.7	400.8	435.3	323.4	396.7	5171.4	25051.3	29046.8	29500.4
52.5°	134.2	183.0	378.4	333.7	270.6	327.5	5334.1	26060.2	29549.2	29834.0
55°	111.9	144.5	227.9	232.0	229.9	278.7	5535.5	27508.8	30849.2	30983.5
57.5°	97.6	116.0	158.6	179.0	193.3	248.2	5539.6	29587.9	32861.2	32944.6
60°	83.4	101.7	132.3	144.5	166.8	221.7	5338.1	30314.1	33652.5	33929.2
62.5°	73.2	89.5	109.8	120.0	140.4	199.4	4866.2	29262.3	32566.2	33036.1
65°	65.1	81.4	91.6	101.7	124.1	179.0	4089.1	27158.8	30763.7	31254.0
67.5°	56.9	71.2	81.4	91.6	111.9	158.6	3010.9	24715.5	28694.7	29101.6
70°	50.9	63.1	73.2	81.4	97.6	134.2	1826.9	20972.3	25834.4	26003.3
72.5°	48.8	56.9	67.2	73.2	85.4	118.0	925.7	15412.4	20652.9	20927.6
75°	42.8	50.9	61.0	65.1	75.3	101.7	376.3	10123.0	14966.9	15408.4
77.5°	34.6	46.8	55.0	59.0	65.1	83.4	191.2	6469.3	10503.5	10788.3
80°	12.2	34.6	46.8	48.8	55.0	61.0	126.1	3541.8	6093.0	6215.0
82.5°	0.0	22.4	36.6	34.6	38.7	46.8	81.4	1684.4	4022.0	4066.7
85°	0.0	10.2	28.5	22.4	16.3	32.5	28.5	368.2	2109.7	2197.1
87.5°	0.0	0.0	2.0	10.2	8.1	12.2	4.1	2.0	191.2	242.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)