

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: P383478

Luminaire Tested: **GLEON-SA7D-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383478
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-SA7D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 37901.9 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

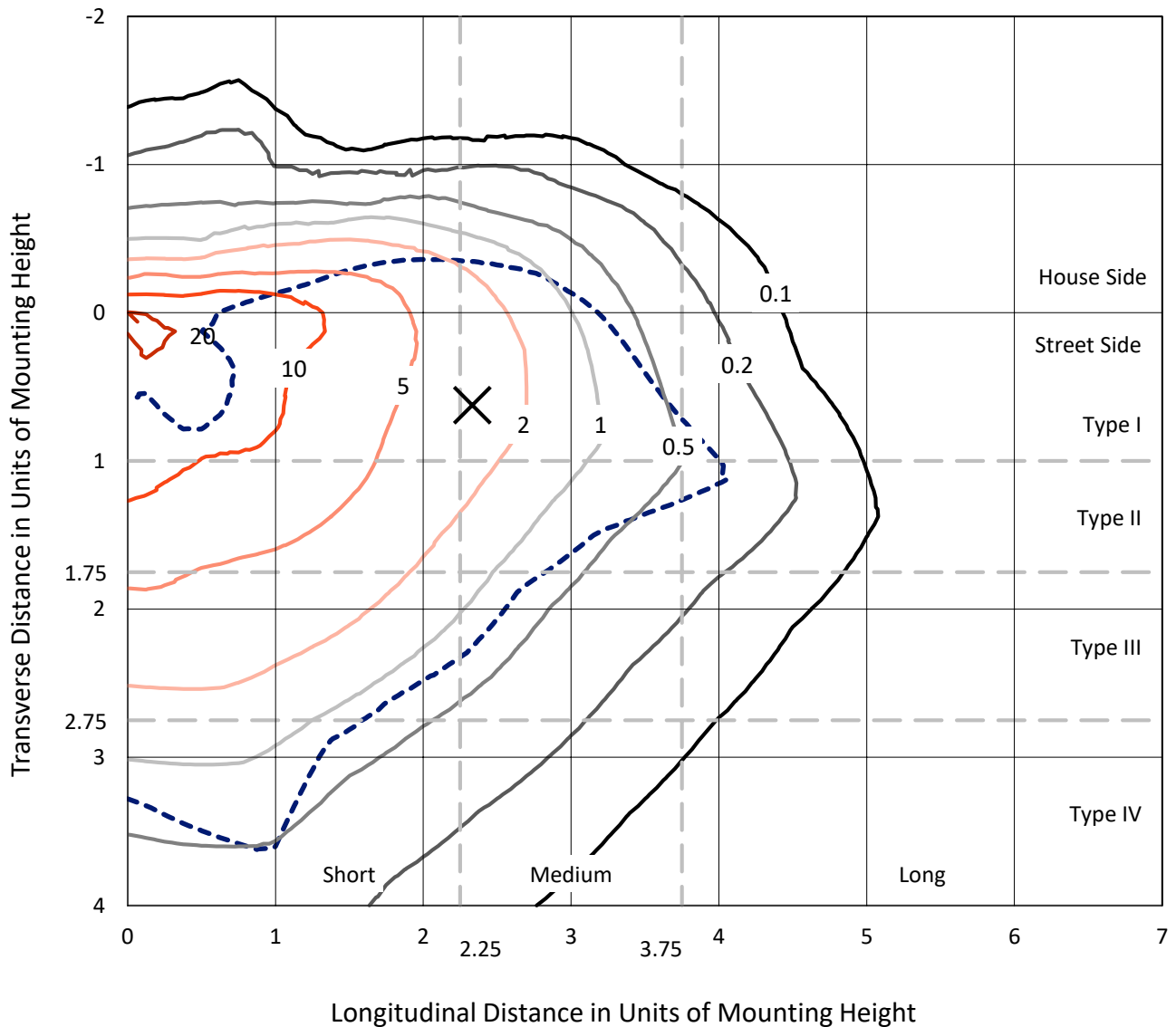
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383478
 CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

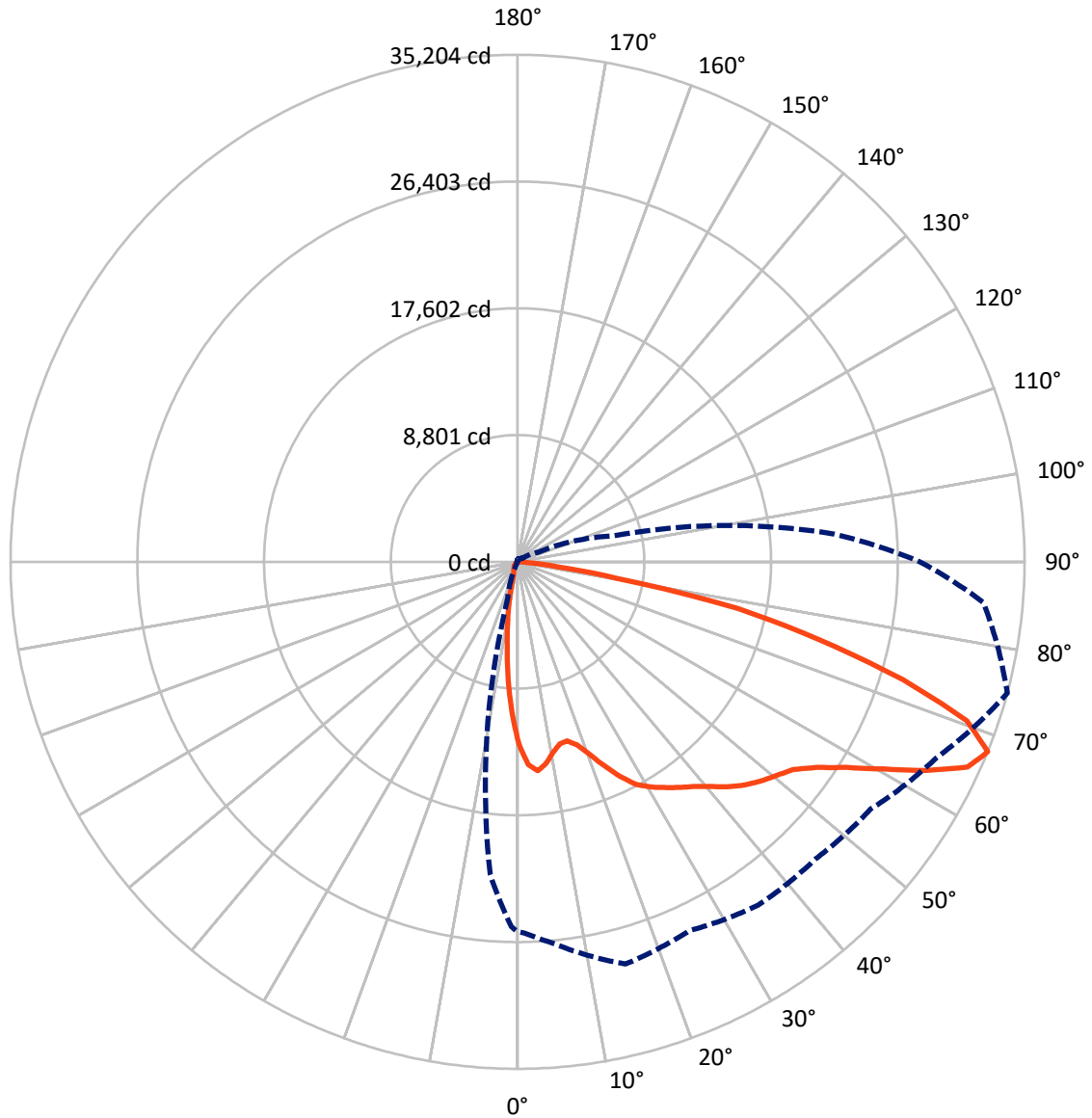
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P383478
CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383478
 CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

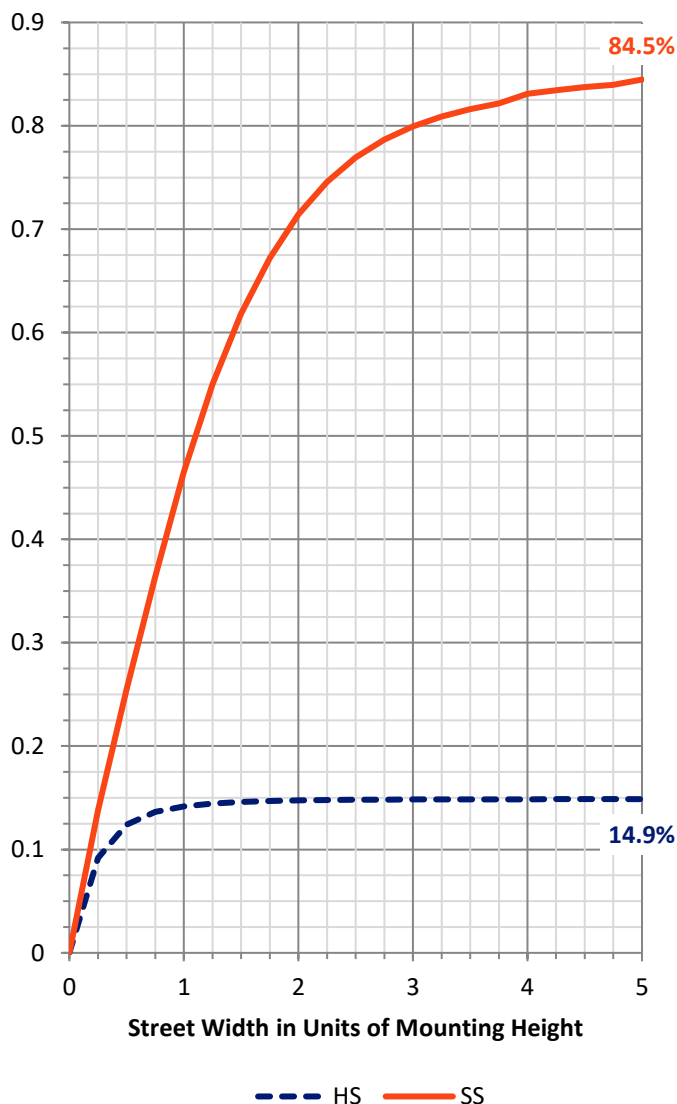
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5687.6	0.0	5687.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	32214.3	0.0	32214.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	37901.9	0.0	37901.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.5	2.5
10°-20°	1899.2	5.0
20°-30°	2686.8	7.1
30°-40°	3950.3	10.4
40°-50°	5677.9	15.0
50°-60°	7993.0	21.1
60°-70°	9335.1	24.6
70°-80°	4762.5	12.6
80°-90°	632.6	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°	37901.9	100.0
0°-180°	37901.9	100.0

Coefficient of Utilization

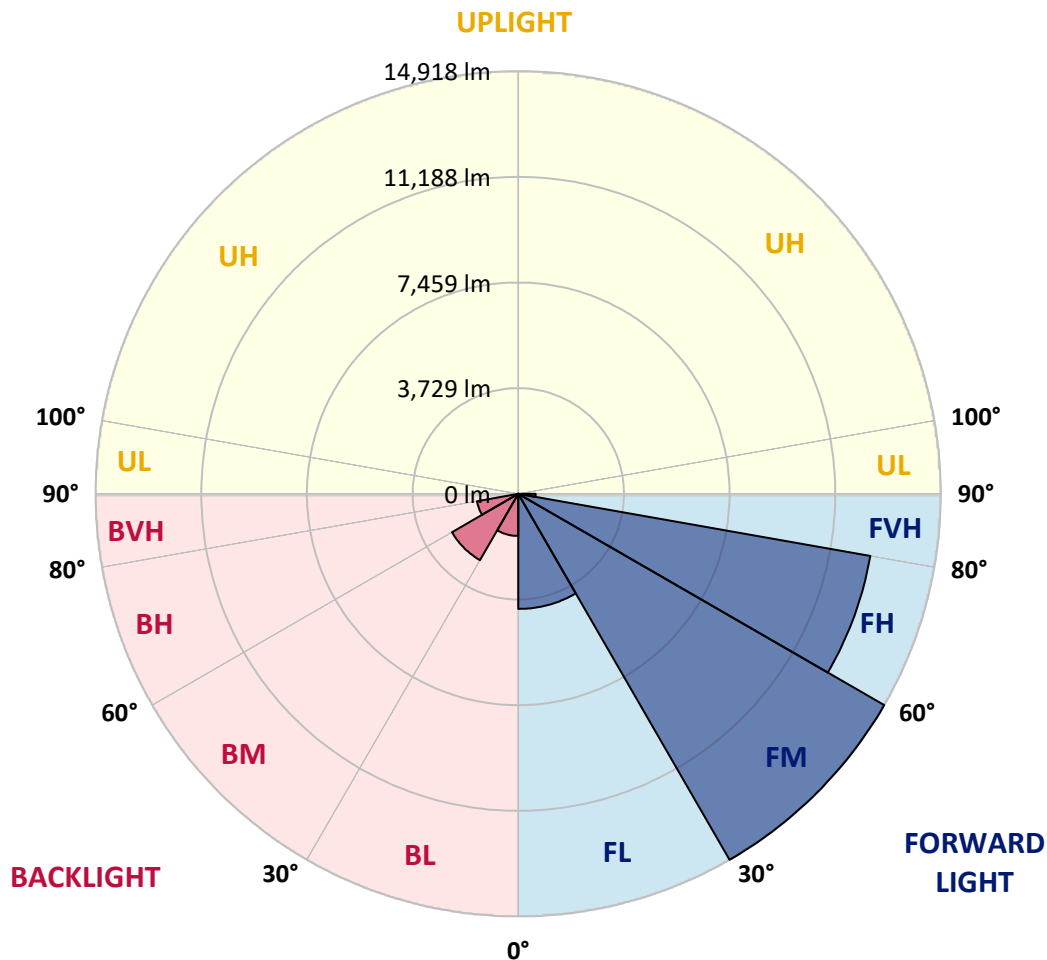


REPORT NUMBER: P383478
 CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4063.1	10.7			
FM (30°-60°)	14917.5	39.4			
FH (60°-80°)	12620.2	33.3			G5
FVH (80°-90°)	613.5	1.6			G4/750
BL (0°-30°)	1487.4	3.9	B3/2500		
BM (30°-60°)	2703.7	7.1	B3/5000		
BH (60°-80°)	1477.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	19.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P383478

CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4
2.5°	13783.7	13805.3	13916.6	14175.2	14457.1	14478.6	14668.9	14473.2	14406.8	14090.8	13764.0
5°	13887.9	13970.4	14352.9	15112.4	15771.3	15983.1	16133.9	15749.8	15345.8	14573.7	13749.6
7.5°	13049.4	13187.6	13789.1	15214.7	16392.5	16913.2	17011.9	16410.5	15421.2	14150.0	12911.2
10°	11975.7	12133.7	12859.1	14611.4	16229.1	17121.5	17257.9	16469.8	15047.8	13464.1	12004.4
12.5°	11106.7	11291.7	12033.2	13932.8	15667.1	16654.7	16924.0	16270.4	14724.5	12977.6	11385.0
15°	10706.3	10918.2	11697.4	13494.7	15044.1	15821.6	16044.2	15762.3	14545.0	12900.4	11241.4
17.5°	10936.1	11166.0	11970.3	13532.4	14458.8	14791.0	14970.5	15085.5	14545.0	13365.4	11661.5
20°	11878.7	12126.5	12977.6	13914.8	13974.1	13850.2	14042.2	14446.3	14713.8	14248.8	12670.5
22.5°	13182.2	13473.2	14433.7	14570.1	13737.1	13268.4	13293.6	13927.4	15020.8	15369.1	14071.0
25°	14771.3	15126.7	16103.5	15546.9	13835.8	12921.9	12912.9	13500.1	15320.6	16491.3	15631.3
27.5°	16349.4	16740.8	17599.1	16739.1	14243.4	12859.1	12841.1	13370.8	15613.3	17489.5	17335.2
30°	17672.7	18053.3	18793.0	17602.7	14683.2	13006.3	12920.1	13509.0	15787.5	18137.7	18577.6
32.5°	18750.0	19055.2	19653.0	18196.9	15153.7	13291.8	13105.0	13878.8	16083.7	18685.4	19719.6
35°	19934.9	20256.3	20495.2	18762.6	15681.5	13703.0	13435.4	14466.0	16539.7	19242.0	20970.9
37.5°	21287.0	21606.5	21577.8	19279.6	16351.3	14383.4	14212.8	15396.1	17249.0	19793.2	22367.9
40°	22610.2	22936.9	22703.6	19845.2	17137.7	15505.6	15379.9	16792.9	18198.7	20498.7	24005.2
42.5°	23849.1	24202.7	23703.6	20380.2	18074.9	16920.4	17135.8	18591.9	19387.4	21367.7	25416.5
45°	24847.4	25208.2	24542.1	20900.9	19062.4	18636.8	19285.0	20585.0	20816.5	22102.1	26369.9
47.5°	25572.7	25913.9	25123.8	21421.6	20326.4	20735.8	21865.1	22674.8	22107.5	22739.4	27046.7
50°	26035.9	26301.7	25294.4	22073.4	21985.4	23184.7	24552.9	24947.9	23323.0	23314.0	27869.1
52.5°	26330.4	26450.6	25420.1	22753.8	23716.2	25851.0	27185.0	27308.9	24574.4	23946.0	28976.9
55°	27344.8	27441.8	26310.6	23577.9	25147.2	28186.9	29565.8	29450.9	25991.0	25183.1	30284.0
57.5°	29075.7	29178.0	28151.0	24763.0	26305.2	29630.5	31291.2	31497.7	27651.9	26921.1	31684.4
60°	29944.6	30135.0	29768.7	26264.0	27427.4	30553.3	32467.2	33126.2	29727.4	29212.1	33041.8
62.5°	29156.4	29432.9	29964.4	27928.4	28542.4	31061.4	32833.5	33709.7	31853.2	31881.9	33878.5
65°	27583.6	27804.5	28705.7	28840.4	29188.7	30998.6	31928.6	32894.6	33154.9	34334.5	33833.6
67.5°	25684.0	25766.6	26531.5	28912.3	28251.5	29109.7	29210.3	29924.8	32126.1	35203.6	32474.4
70°	22949.5	22994.4	23662.3	26508.1	24278.2	24466.7	24317.7	24463.1	27619.5	33086.7	29043.3
72.5°	18469.9	18583.0	19532.8	22014.1	17687.0	17143.0	18313.7	18249.0	21270.8	27953.5	21570.6
75°	13598.8	13794.5	15229.0	17731.9	12413.8	11228.8	12083.5	12311.4	15121.3	21622.7	13489.3
77.5°	9521.3	9666.8	11056.4	13035.1	8984.5	8029.3	7720.5	7991.6	9981.0	15642.0	6795.8
80°	5485.1	5539.0	6425.9	7526.5	6054.3	6926.9	6275.1	6461.9	5980.6	6959.2	2923.0
82.5°	3589.2	3598.1	3944.6	4479.6	3770.4	4380.9	3242.6	4145.7	3678.9	2795.5	951.6
85°	1939.1	1949.8	2287.4	3179.7	2134.8	1206.5	709.2	1456.1	2274.8	641.0	260.4
87.5°	213.7	195.7	689.4	1156.2	592.5	109.5	37.7	163.4	364.5	41.3	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: P383478

CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4
2.5°	13597.0	13448.0	13076.3	12683.1	12367.1	12070.9	11772.8	11408.4	11126.5	11069.0	10975.6
5°	13306.1	12833.9	12054.7	11271.9	10641.7	9846.3	9341.7	8948.5	8564.4	8541.0	8463.8
7.5°	12289.9	11668.7	10571.7	9489.0	8602.0	7844.4	7079.5	6567.8	6165.6	6023.8	5939.4
10°	11313.2	10614.7	9244.8	8009.5	7217.7	6548.0	6009.4	5474.3	4989.6	4655.6	4504.8
12.5°	10630.9	9858.8	8348.9	7284.1	6716.8	6081.2	5424.1	4756.2	4197.7	3795.6	3549.7
15°	10367.0	9542.9	8049.0	6996.9	6296.7	5492.3	4652.1	3888.9	3269.5	2905.0	2684.3
17.5°	10681.2	9722.4	8025.7	6646.8	5668.3	4668.2	3740.0	2838.6	2255.1	1978.6	1836.7
20°	11478.3	10293.3	8016.7	6217.7	4921.4	3691.4	2533.4	1867.3	1513.6	1359.1	1292.7
22.5°	12605.9	11022.4	8088.5	5793.9	4143.9	2637.5	1748.8	1371.7	1190.4	1107.8	1070.1
25°	14056.7	12045.7	8291.4	5409.7	3413.2	1967.8	1362.8	1149.1	1021.6	957.0	930.1
27.5°	15602.5	13223.5	8607.4	5075.7	2818.9	1569.2	1167.0	983.9	892.3	847.4	822.3
30°	16877.3	14588.1	8927.0	4704.1	2387.9	1368.2	1068.3	897.7	791.8	763.0	739.7
32.5°	17992.3	15620.5	9153.2	4368.3	2106.0	1215.5	965.9	802.5	730.7	675.1	649.9
35°	19146.7	16480.5	9146.0	4133.2	1912.2	1100.6	879.8	718.2	632.0	567.4	547.7
37.5°	20396.4	17451.9	8989.9	3932.1	1827.8	1009.1	831.3	673.3	587.2	522.5	497.4
40°	21859.7	18471.7	8830.0	3743.5	1804.4	935.5	797.2	637.4	545.8	483.0	457.9
42.5°	23285.3	19390.9	8690.0	3603.5	1703.9	933.6	766.7	610.4	513.5	452.5	423.8
45°	24425.4	20247.4	8663.1	3519.1	1598.0	965.9	750.5	592.5	488.4	427.3	400.4
47.5°	25373.4	21177.4	8835.4	3459.9	1497.4	881.5	790.0	579.9	465.0	405.8	375.2
50°	26500.9	22319.3	9241.2	3362.9	1391.5	793.6	904.9	583.5	445.3	384.3	351.9
52.5°	28073.8	23899.3	9837.3	3199.5	1246.0	712.8	890.6	587.2	423.8	360.9	328.6
55°	29836.9	25872.5	10478.3	2928.4	1043.1	606.9	763.0	562.0	382.4	335.7	305.3
57.5°	31689.9	27662.6	10859.0	2605.2	829.5	524.3	610.4	511.7	337.5	301.6	281.9
60°	31980.7	28343.1	10684.8	2208.4	659.0	456.1	452.5	520.6	301.6	265.8	251.3
62.5°	31257.1	27488.5	9842.7	1854.7	551.2	400.4	371.7	454.2	272.9	237.0	222.6
65°	29865.6	25177.7	8478.1	1671.6	511.7	342.9	308.8	319.6	238.8	206.5	193.9
67.5°	27930.1	22093.1	6961.0	1567.4	506.3	294.5	263.9	242.4	206.5	179.5	168.8
70°	23972.9	18405.2	5553.3	1509.9	492.0	247.8	222.6	197.5	172.3	152.6	143.6
72.5°	17644.0	13042.2	4319.9	1447.2	495.6	197.5	193.9	163.4	138.2	118.5	115.0
75°	10194.6	7451.2	2833.2	1172.4	472.2	152.6	161.6	115.0	97.0	82.6	82.6
77.5°	5433.1	4544.3	1079.1	488.4	172.3	97.0	91.6	68.2	61.0	50.3	48.4
80°	2368.2	2000.1	325.0	136.5	95.2	52.1	34.1	30.6	26.9	21.5	19.7
82.5°	838.5	723.5	105.9	66.4	41.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	190.3	136.5	0.0	16.1	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: P383478

CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4
2.5°	10785.3	10745.8	10512.4	10521.4	10562.6	10622.0	10481.9	10546.5	10720.7	10887.6	10950.5
5°	8339.9	8348.9	8207.0	8295.1	8374.1	8427.9	8201.6	8205.3	8343.5	8532.0	8630.8
7.5°	5876.6	5862.1	5869.3	6079.5	6228.4	6120.7	6205.1	5912.4	5930.4	6065.0	5964.5
10°	4368.3	4170.8	4059.5	4217.5	4380.9	4321.6	4176.2	4081.1	4147.5	4296.5	4285.8
12.5°	3432.9	3149.2	2982.3	2869.2	3003.8	2892.5	2888.9	2806.3	2716.5	2732.7	2971.5
15°	2581.9	2375.4	2177.9	1996.6	1993.0	1955.2	1763.1	1547.7	1529.7	1540.5	1664.4
17.5°	1775.7	1705.7	1624.9	1468.7	1427.4	1269.4	1082.6	996.5	953.3	973.1	1014.5
20°	1247.8	1220.9	1229.9	1145.5	1086.3	935.5	825.9	791.8	784.6	804.4	824.1
22.5°	1034.2	985.7	980.4	942.6	883.4	773.8	714.6	694.8	685.9	703.8	718.2
25°	904.9	856.5	836.7	813.3	750.5	675.1	639.2	621.2	612.2	623.0	632.0
27.5°	797.2	752.3	734.3	718.2	657.1	603.3	574.6	558.4	551.2	554.8	563.8
30°	716.4	676.9	653.6	633.8	581.8	544.0	518.9	502.8	495.6	495.6	504.5
32.5°	632.0	610.4	588.9	563.8	515.3	490.2	465.0	447.0	439.9	441.6	448.8
35°	526.0	518.9	524.3	500.9	459.6	438.1	413.0	393.2	387.8	389.6	396.8
37.5°	466.8	434.5	454.2	441.6	418.4	389.6	357.3	339.4	330.3	335.7	339.4
40°	429.1	389.6	375.2	387.8	384.3	337.5	308.8	290.8	283.7	285.5	289.1
42.5°	396.8	350.1	317.8	316.0	337.5	294.5	263.9	247.8	238.8	238.8	242.4
45°	366.3	316.0	276.5	246.0	283.7	249.6	220.9	206.5	195.7	195.7	197.5
47.5°	342.9	287.3	240.6	201.1	213.7	204.7	181.4	166.9	156.2	156.2	158.0
50°	321.4	258.5	208.3	168.8	159.8	168.8	147.2	131.1	123.9	122.1	125.7
52.5°	298.0	229.8	177.7	143.6	125.7	127.4	115.0	104.1	95.2	95.2	98.7
55°	274.7	206.5	154.5	122.1	104.1	95.2	91.6	84.4	77.2	77.2	80.8
57.5°	251.3	181.4	131.1	100.5	82.6	75.5	75.5	70.1	64.6	64.6	68.2
60°	229.8	156.2	107.7	82.6	64.6	62.9	64.6	59.2	55.6	55.6	59.2
62.5°	204.7	132.8	87.9	68.2	52.1	50.3	55.6	52.1	48.4	48.4	52.1
65°	174.2	113.1	70.1	52.1	39.5	39.5	46.7	43.1	39.5	39.5	43.1
67.5°	147.2	95.2	53.8	37.7	28.7	30.6	39.5	35.9	34.1	34.1	37.7
70°	122.1	73.6	37.7	23.4	16.1	23.4	30.6	30.6	30.6	30.6	34.1
72.5°	91.6	50.3	21.5	8.9	7.2	16.1	25.2	28.7	26.9	26.9	32.3
75°	59.2	28.7	7.2	0.0	0.0	8.9	19.7	23.4	23.4	21.5	26.9
77.5°	34.1	8.9	0.0	0.0	0.0	0.0	12.6	10.8	8.9	7.2	12.6
80°	8.9	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: P383478

CATALOG NUMBER: GLEON-SA7D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4	12715.4
2.5°	11203.6	11415.6	11713.6	12029.5	12516.2	12902.1	13281.0	13606.0	13731.7	13783.7
5°	8867.8	9178.4	9614.7	10174.8	11052.8	11842.9	12643.6	13449.8	13799.9	13887.9
7.5°	6363.1	6759.9	7314.7	8016.7	9045.5	10068.9	11187.5	12370.7	12912.9	13049.4
10°	4709.5	5194.2	5829.8	6569.6	7551.7	8603.9	9823.0	11174.9	11794.3	11975.7
12.5°	3341.4	3996.7	4847.8	5747.3	6598.3	7537.3	8770.8	10261.0	10911.0	11106.7
15°	1962.4	2596.2	3603.5	4808.3	5898.1	6849.7	8102.9	9792.4	10508.8	10706.3
17.5°	1125.8	1441.8	2203.0	3546.0	5025.5	6343.4	7892.8	9909.2	10753.0	10936.1
20°	860.0	960.6	1269.4	2283.8	4005.7	5846.0	7892.8	10569.9	11609.4	11878.7
22.5°	752.3	825.9	951.6	1362.8	2948.2	5312.8	7984.4	11525.0	12884.2	13182.2
25°	667.9	734.3	842.0	1025.2	2010.9	4679.0	8201.6	12697.5	14385.2	14771.3
27.5°	597.9	660.7	757.7	897.7	1375.3	3914.1	8494.3	14072.8	16040.6	16349.4
30°	535.1	594.3	682.3	781.0	1061.1	3046.9	8743.9	15369.1	17340.6	17672.7
32.5°	475.8	529.7	608.7	682.3	869.0	2253.3	8770.8	16396.1	18419.6	18750.0
35°	420.1	468.6	540.4	597.9	720.0	1779.3	8352.4	17286.6	19498.7	19934.9
37.5°	366.3	413.0	475.8	518.9	633.8	1450.7	7713.3	18279.6	20883.0	21287.0
40°	316.0	357.3	421.9	450.7	599.6	1115.0	7018.5	19320.9	22240.3	22610.2
42.5°	269.3	308.8	371.7	427.3	526.0	833.1	6267.9	20297.7	23461.2	23849.1
45°	224.4	265.8	328.6	452.5	436.3	623.0	5465.4	20945.8	24425.4	24847.4
47.5°	181.4	228.0	314.2	430.9	348.3	457.9	4829.8	21559.8	25156.2	25572.7
50°	145.4	192.1	353.7	384.3	285.5	350.1	4564.0	22109.3	25635.5	26035.9
52.5°	118.5	161.6	334.0	294.5	238.8	289.1	4707.7	22999.8	26079.0	26330.4
55°	98.7	127.4	201.1	204.7	202.9	246.0	4885.4	24278.2	27226.3	27344.8
57.5°	86.2	102.4	140.0	158.0	170.6	219.0	4889.0	26113.1	29002.1	29075.7
60°	73.6	89.8	116.7	127.4	147.2	195.7	4711.3	26754.1	29700.4	29944.6
62.5°	64.6	79.0	97.0	105.9	123.9	176.0	4294.7	25825.9	28741.7	29156.4
65°	57.5	71.8	80.8	89.8	109.5	158.0	3608.9	23969.4	27150.9	27583.6
67.5°	50.3	62.9	71.8	80.8	98.7	140.0	2657.2	21813.0	25325.0	25684.0
70°	44.9	55.6	64.6	71.8	86.2	118.5	1612.3	18509.4	22800.6	22949.5
72.5°	43.1	50.3	59.2	64.6	75.5	104.1	817.0	13602.4	18227.5	18469.9
75°	37.7	44.9	53.8	57.5	66.4	89.8	332.2	8934.2	13209.2	13598.8
77.5°	30.6	41.3	48.4	52.1	57.5	73.6	168.8	5709.5	9269.9	9521.3
80°	10.8	30.6	41.3	43.1	48.4	53.8	111.3	3125.9	5377.4	5485.1
82.5°	0.0	19.7	32.3	30.6	34.1	41.3	71.8	1486.7	3549.7	3589.2
85°	0.0	8.9	25.2	19.7	14.3	28.7	25.2	325.0	1861.9	1939.1
87.5°	0.0	0.0	1.8	8.9	7.2	10.8	3.6	1.8	168.8	213.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)