

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: P383422

Luminaire Tested: **GLEON-SA7B-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383422
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-SA7B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 27914.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

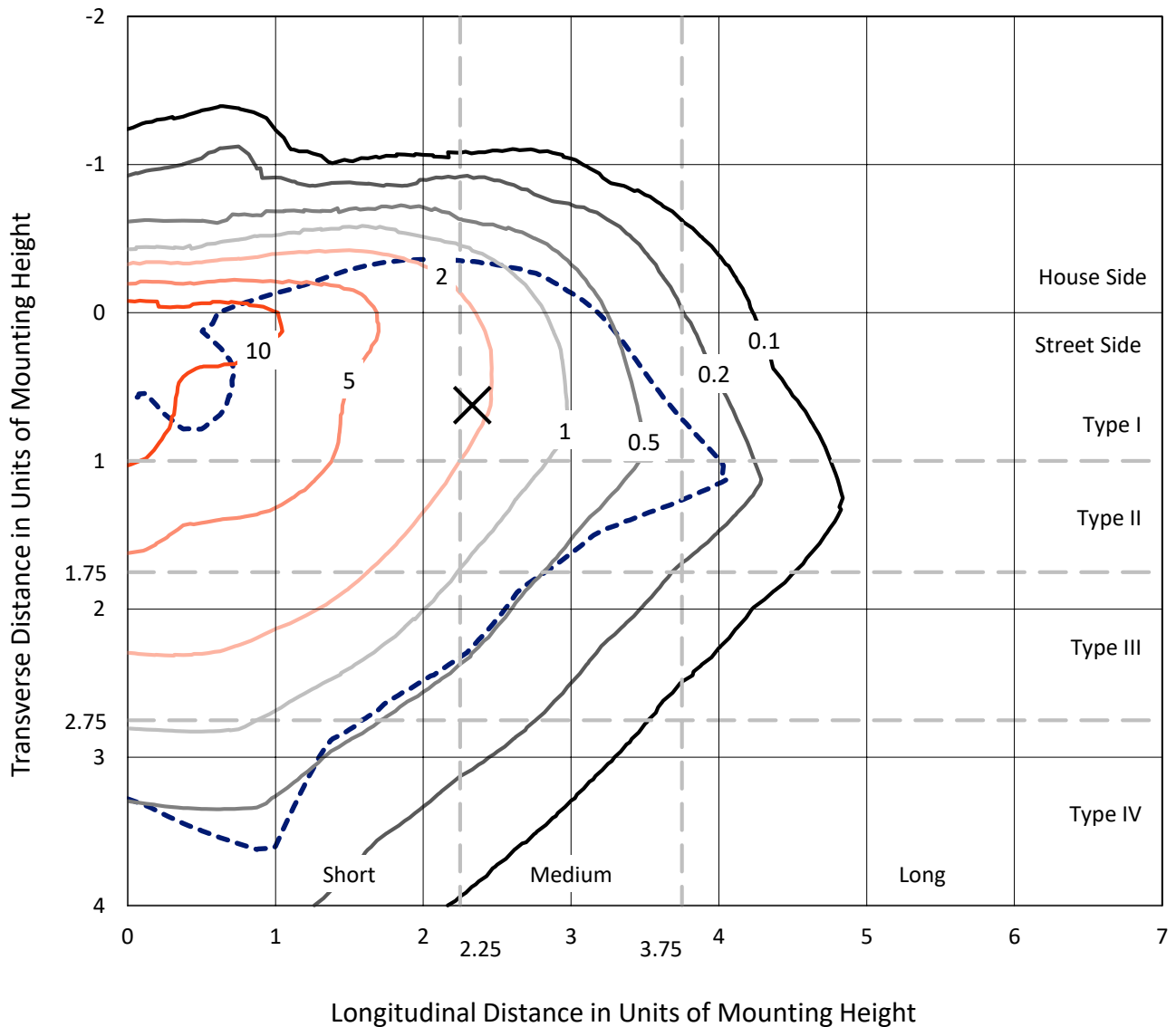
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383422
 CATALOG NUMBER: GLEON-SA7B-735-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

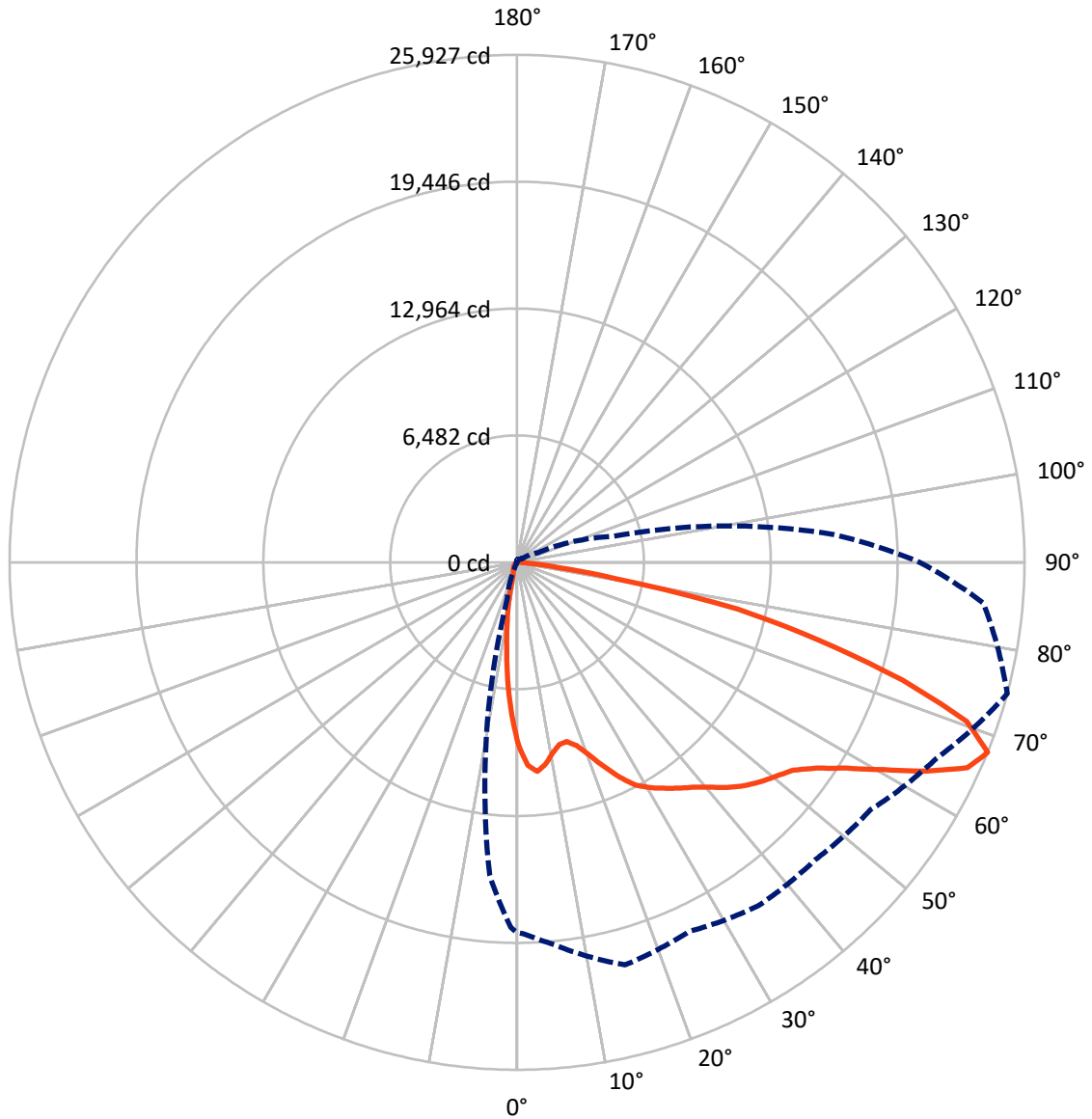
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P383422
CATALOG NUMBER: GLEON-SA7B-735-U-SLL-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P383422
 CATALOG NUMBER: GLEON-SA7B-735-U-SLL-HSS

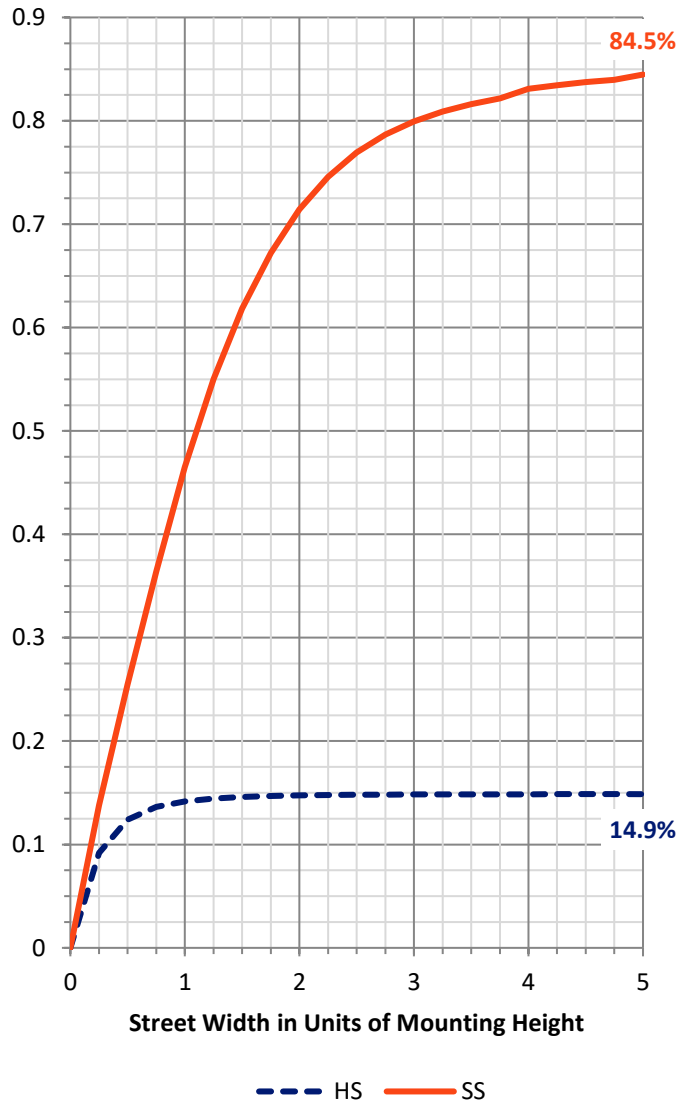
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4188.9	0.0	4188.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	23725.9	0.0	23725.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	27914.8	0.0	27914.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.4	2.5
10°-20°	1398.7	5.0
20°-30°	1978.8	7.1
30°-40°	2909.4	10.4
40°-50°	4181.8	15.0
50°-60°	5886.8	21.1
60°-70°	6875.3	24.6
70°-80°	3507.6	12.6
80°-90°	465.9	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°	27914.8	100.0
0°-180°	27914.8	100.0

Coefficient of Utilization

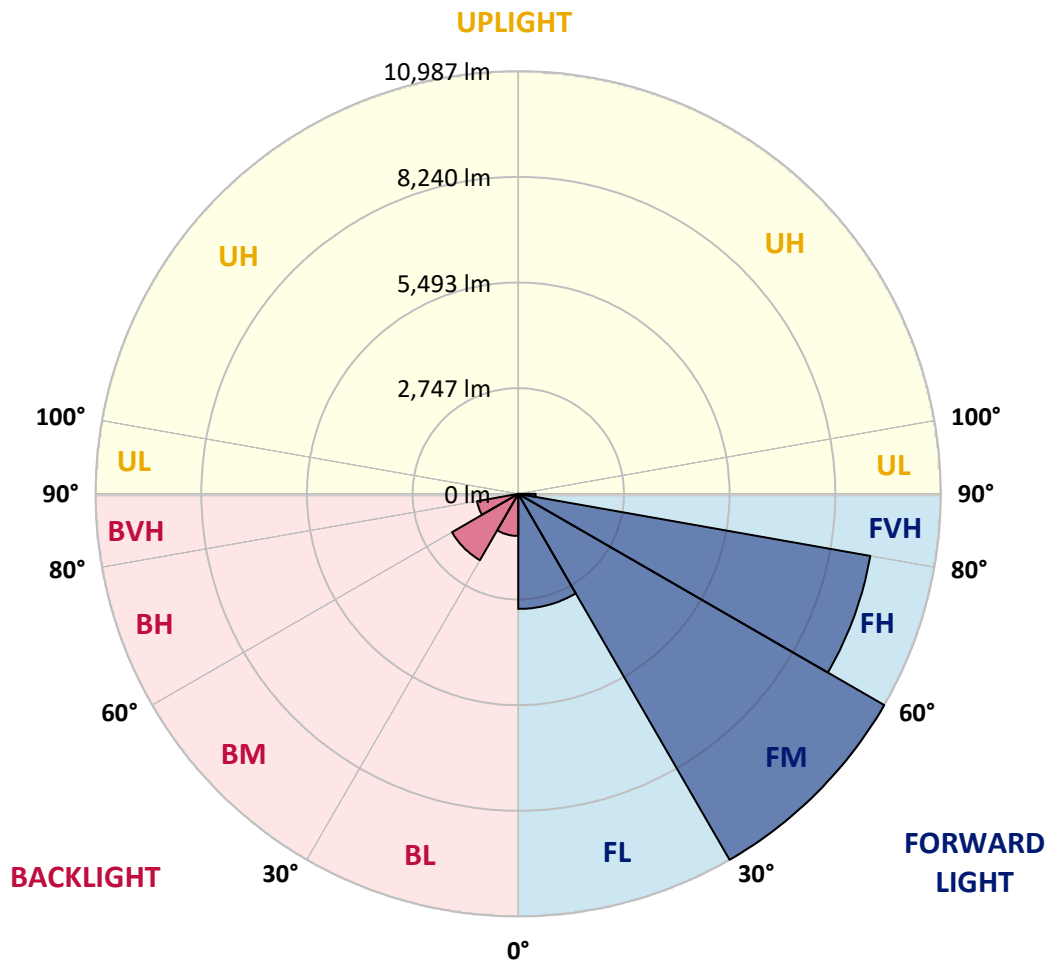


REPORT NUMBER: P383422
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2992.5	10.7			
FM (30°-60°)	10986.8	39.4			
FH (60°-80°)	9294.8	33.3			G4/12000
FVH (80°-90°)	451.8	1.6			G3/500
BL (0°-30°)	1095.4	3.9	B3/2500		
BM (30°-60°)	1991.3	7.1	B2/2500		
BH (60°-80°)	1088.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	14.1	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 III Medium





REPORT NUMBER: P383422

CATALOG NUMBER: GLEON-SA7B-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9
2.5°	10151.7	10167.6	10249.5	10440.0	10647.6	10663.5	10803.6	10659.5	10610.6	10377.8	10137.2
5°	10228.4	10289.2	10570.9	11130.2	11615.6	11771.6	11882.7	11599.7	11302.2	10733.6	10126.6
7.5°	9610.9	9712.7	10155.7	11205.7	12073.1	12456.6	12529.3	12086.4	11357.7	10421.5	9509.1
10°	8820.1	8936.5	9470.7	10761.3	11952.8	12610.0	12710.5	12130.0	11082.6	9916.3	8841.2
12.5°	8180.1	8316.3	8862.5	10261.5	11538.9	12266.2	12464.5	11983.1	10844.6	9558.0	8385.0
15°	7885.2	8041.2	8615.1	9938.9	11080.0	11652.6	11816.6	11608.9	10712.4	9501.1	8279.2
17.5°	8054.4	8223.7	8816.2	9966.6	10648.9	10893.6	11025.8	11110.5	10712.4	9843.6	8588.7
20°	8748.7	8931.2	9558.0	10248.2	10291.9	10200.6	10342.1	10639.7	10836.7	10494.3	9331.9
22.5°	9708.8	9922.9	10630.4	10731.0	10117.4	9772.2	9790.8	10257.6	11062.9	11319.3	10363.3
25°	10879.0	11140.8	11860.2	11450.3	10190.1	9517.0	9510.4	9942.8	11283.6	12145.8	11512.4
27.5°	12041.4	12329.7	12961.7	12328.3	10490.3	9470.7	9457.4	9847.6	11499.2	12881.1	12767.3
30°	13016.0	13296.3	13841.1	12964.3	10814.2	9579.1	9515.7	9949.4	11627.5	13358.4	13682.4
32.5°	13809.4	14034.1	14474.5	13402.1	11160.7	9789.4	9651.9	10221.8	11845.7	13761.8	14523.4
35°	14682.1	14918.8	15094.7	13818.6	11549.4	10092.2	9895.2	10654.2	12181.6	14171.7	15445.2
37.5°	15677.9	15913.3	15892.1	14199.5	12042.7	10593.4	10467.8	11339.2	12703.9	14577.7	16474.0
40°	16652.4	16893.1	16721.2	14616.0	12621.9	11419.8	11327.3	12368.0	13403.4	15097.3	17679.9
42.5°	17564.9	17825.3	17457.8	15010.0	13312.2	12461.9	12620.6	13693.0	14278.8	15737.4	18719.3
45°	18300.1	18565.8	18075.3	15393.5	14039.4	13726.1	14203.4	15160.8	15331.4	16278.2	19421.5
47.5°	18834.3	19085.5	18503.7	15777.1	14970.3	15271.9	16103.7	16700.0	16282.1	16747.6	19919.9
50°	19175.4	19371.2	18629.4	16257.0	16192.3	17075.5	18083.2	18374.1	17177.4	17170.8	20525.6
52.5°	19392.3	19481.0	18721.9	16758.2	17467.0	19039.2	20021.8	20113.0	18099.0	17636.2	21341.5
55°	20139.5	20210.9	19377.8	17365.2	18520.9	20759.6	21775.2	21690.6	19142.5	18547.4	22304.1
57.5°	21414.2	21489.6	20733.2	18237.9	19373.9	21822.8	23046.0	23198.1	20365.6	19827.4	23335.6
60°	22054.2	22194.4	21924.6	19343.4	20200.3	22502.6	23912.2	24397.4	21894.3	21514.7	24335.3
62.5°	21473.8	21677.4	22068.8	20569.2	21021.5	22876.8	24182.0	24827.2	23459.9	23481.1	24951.5
65°	20315.4	20478.0	21141.8	21241.0	21497.5	22830.5	23515.4	24226.9	24418.7	25287.4	24918.4
67.5°	18916.3	18977.1	19540.4	21293.9	20807.2	21439.4	21513.4	22039.7	23660.9	25927.4	23917.5
70°	16902.4	16935.4	17427.3	19523.3	17880.9	18019.8	17910.0	18017.1	20341.8	24368.4	21390.4
72.5°	13603.1	13686.4	14385.9	16213.4	13026.5	12625.8	13488.1	13440.5	15665.9	20587.8	15886.8
75°	10015.5	10159.6	11216.2	13059.6	9142.8	8270.0	8899.4	9067.4	11136.8	15925.1	9934.9
77.5°	7012.4	7119.5	8143.0	9600.3	6617.1	5913.6	5686.2	5885.8	7350.9	11520.4	5005.1
80°	4039.8	4079.4	4732.7	5543.4	4458.9	5101.6	4621.6	4759.2	4404.7	5125.5	2152.8
82.5°	2643.4	2650.0	2905.2	3299.3	2776.9	3226.5	2388.2	3053.3	2709.5	2058.9	700.8
85°	1428.2	1436.1	1684.7	2341.9	1572.3	888.6	522.3	1072.4	1675.4	472.1	191.7
87.5°	157.3	144.1	507.8	851.6	436.3	80.7	27.8	120.4	268.5	30.4	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: P383422

CATALOG NUMBER: GLEON-SA7B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9
2.5°	10014.2	9904.4	9630.7	9341.1	9108.4	8890.2	8670.7	8402.3	8194.6	8152.3	8083.6
5°	9800.0	9452.2	8878.3	8301.8	7837.6	7251.8	6880.2	6590.6	6307.6	6290.5	6233.5
7.5°	9051.6	8594.0	7786.1	6988.7	6335.4	5777.4	5214.1	4837.2	4541.0	4436.5	4374.4
10°	8332.1	7817.7	6808.8	5899.0	5315.9	4822.6	4426.0	4031.8	3674.9	3428.8	3317.8
12.5°	7829.7	7261.0	6149.0	5364.8	4946.9	4478.8	3994.8	3502.9	3091.7	2795.5	2614.3
15°	7635.2	7028.3	5928.1	5153.2	4637.5	4045.1	3426.2	2864.2	2408.1	2139.6	1976.9
17.5°	7866.7	7160.5	5910.9	4895.4	4174.6	3438.2	2754.5	2090.7	1660.9	1457.2	1352.8
20°	8453.8	7581.0	5904.3	4579.3	3624.6	2718.7	1865.9	1375.2	1114.8	1001.0	952.1
22.5°	9284.3	8118.0	5957.2	4267.2	3052.0	1942.6	1288.0	1010.3	876.7	815.8	788.1
25°	10352.8	8871.7	6106.7	3984.2	2513.8	1449.3	1003.6	846.3	752.4	704.8	685.0
27.5°	11491.3	9739.1	6339.4	3738.3	2076.1	1155.8	859.5	724.7	657.2	624.1	605.6
30°	12430.1	10744.1	6574.8	3464.6	1758.8	1007.7	786.8	661.2	583.1	562.0	544.8
32.5°	13251.4	11504.5	6741.3	3217.3	1551.1	895.2	711.4	591.1	538.2	497.2	478.7
35°	14101.6	12137.9	6736.1	3044.0	1408.3	810.6	648.0	528.9	465.5	417.9	403.4
37.5°	15022.0	12853.3	6621.1	2896.0	1346.2	743.2	612.2	495.9	432.4	384.8	366.3
40°	16099.7	13604.4	6503.3	2757.1	1328.9	689.0	587.2	469.4	402.0	355.8	337.2
42.5°	17149.6	14281.5	6400.2	2654.0	1254.9	687.7	564.6	449.6	378.2	333.2	312.1
45°	17989.3	14912.2	6380.4	2591.8	1176.9	711.4	552.8	436.3	359.7	314.7	294.9
47.5°	18687.5	15597.2	6507.3	2548.2	1102.9	649.3	581.8	427.1	342.5	298.8	276.4
50°	19518.0	16438.2	6806.2	2476.8	1024.8	584.5	666.4	429.7	327.9	283.0	259.2
52.5°	20676.4	17601.9	7245.2	2356.4	917.8	525.0	655.9	432.4	312.1	265.8	242.0
55°	21974.9	19055.2	7717.3	2156.7	768.2	447.0	562.0	413.9	281.7	247.3	224.8
57.5°	23339.6	20373.5	7997.6	1918.7	610.9	386.1	449.6	376.9	248.6	222.2	207.6
60°	23553.8	20874.7	7869.3	1626.5	485.3	335.9	333.2	383.5	222.2	195.7	185.1
62.5°	23020.9	20245.2	7249.1	1366.0	406.0	294.9	273.7	334.5	201.0	174.6	164.0
65°	21996.1	18543.4	6244.2	1231.1	376.9	252.5	227.5	235.4	175.9	152.0	142.8
67.5°	20570.5	16271.6	5126.8	1154.4	372.9	216.9	194.4	178.5	152.0	132.3	124.3
70°	17656.1	13555.5	4090.1	1112.1	362.4	182.5	164.0	145.4	127.0	112.4	105.8
72.5°	12994.8	9605.6	3181.6	1065.8	365.0	145.4	142.8	120.4	101.8	87.3	84.6
75°	7508.4	5487.7	2086.7	863.5	347.7	112.4	119.1	84.6	71.4	60.8	60.8
77.5°	4001.5	3346.9	794.7	359.7	127.0	71.4	67.4	50.2	45.0	37.0	35.7
80°	1744.2	1473.1	239.3	100.5	70.1	38.4	25.2	22.5	19.8	15.8	14.5
82.5°	617.5	532.9	78.1	48.9	30.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	140.2	100.5	0.0	11.9	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°	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9
2.5°	7943.4	7914.3	7742.4	7749.0	7779.4	7823.0	7719.9	7767.5	7895.8	8018.8	8065.1
5°	6142.3	6149.0	6044.5	6109.3	6167.5	6207.2	6040.5	6043.1	6145.0	6283.8	6356.6
7.5°	4328.1	4317.5	4322.8	4477.5	4587.2	4507.9	4570.1	4354.5	4367.7	4467.0	4392.9
10°	3217.3	3071.9	2989.8	3106.2	3226.5	3182.9	3075.8	3005.7	3054.6	3164.4	3156.5
12.5°	2528.3	2319.4	2196.4	2113.1	2212.3	2130.4	2127.7	2066.8	2000.7	2012.6	2188.5
15°	1901.6	1749.4	1604.0	1470.4	1467.8	1440.1	1298.6	1139.8	1126.6	1134.6	1225.8
17.5°	1307.8	1256.2	1196.8	1081.7	1051.3	934.9	797.4	733.9	702.2	716.7	747.1
20°	919.1	899.2	905.8	843.7	800.0	689.0	608.3	583.1	577.8	592.4	607.0
22.5°	761.6	726.0	722.0	694.3	650.6	569.9	526.3	511.8	505.2	518.4	528.9
25°	666.4	630.8	616.2	599.0	552.8	497.2	470.8	457.6	451.0	458.9	465.5
27.5°	587.2	554.1	540.9	528.9	483.9	444.3	423.1	411.3	406.0	408.6	415.2
30°	527.6	498.6	481.3	466.8	428.4	400.7	382.1	370.3	365.0	365.0	371.6
32.5°	465.5	449.6	433.7	415.2	379.5	361.0	342.5	329.3	324.0	325.3	330.6
35°	387.4	382.1	386.1	368.9	338.5	322.7	304.2	289.6	285.6	286.9	292.2
37.5°	343.8	320.0	334.5	325.3	308.1	286.9	263.2	249.9	243.3	247.3	249.9
40°	316.1	286.9	276.4	285.6	283.0	248.6	227.5	214.3	208.9	210.3	212.9
42.5°	292.2	257.9	234.1	232.7	248.6	216.9	194.4	182.5	175.9	175.9	178.5
45°	269.8	232.7	203.6	181.2	208.9	183.8	162.6	152.0	144.1	144.1	145.4
47.5°	252.5	211.6	177.2	148.1	157.3	150.7	133.6	123.0	115.0	115.0	116.4
50°	236.7	190.4	153.4	124.3	117.7	124.3	108.4	96.5	91.2	89.9	92.6
52.5°	219.5	169.3	130.9	105.8	92.6	93.9	84.6	76.7	70.1	70.1	72.8
55°	202.3	152.0	113.7	89.9	76.7	70.1	67.4	62.1	56.8	56.8	59.5
57.5°	185.1	133.6	96.5	74.1	60.8	55.5	55.5	51.6	47.6	47.6	50.2
60°	169.3	115.0	79.4	60.8	47.6	46.3	47.6	43.6	41.0	41.0	43.6
62.5°	150.7	97.8	64.8	50.2	38.4	37.0	41.0	38.4	35.7	35.7	38.4
65°	128.3	83.3	51.6	38.4	29.1	29.1	34.4	31.8	29.1	29.1	31.8
67.5°	108.4	70.1	39.7	27.8	21.1	22.5	29.1	26.5	25.2	25.2	27.8
70°	89.9	54.2	27.8	17.2	11.9	17.2	22.5	22.5	22.5	22.5	25.2
72.5°	67.4	37.0	15.8	6.6	5.3	11.9	18.5	21.1	19.8	19.8	23.8
75°	43.6	21.1	5.3	0.0	0.0	6.6	14.5	17.2	17.2	15.8	19.8
77.5°	25.2	6.6	0.0	0.0	0.0	0.0	9.2	7.9	6.6	5.3	9.2
80°	6.6	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: P383422

CATALOG NUMBER: GLEON-SA7B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9	9364.9
2.5°	8251.5	8407.5	8627.1	8859.8	9218.1	9502.4	9781.4	10020.8	10113.3	10151.7
5°	6531.1	6759.9	7081.3	7493.8	8140.4	8722.3	9312.0	9905.8	10163.7	10228.4
7.5°	4686.4	4978.7	5387.2	5904.3	6662.1	7415.8	8239.6	9111.0	9510.4	9610.9
10°	3468.5	3825.6	4293.7	4838.5	5561.8	6336.8	7234.6	8230.3	8686.6	8820.1
12.5°	2460.9	2943.6	3570.3	4232.9	4859.7	5551.3	6459.7	7557.3	8036.0	8180.1
15°	1445.3	1912.1	2654.0	3541.3	4343.9	5044.8	5967.8	7212.1	7739.8	7885.2
17.5°	829.1	1061.9	1622.6	2611.7	3701.3	4671.9	5813.0	7298.1	7919.6	8054.4
20°	633.5	707.4	934.9	1682.0	2950.2	4305.6	5813.0	7784.7	8550.4	8748.7
22.5°	554.1	608.3	700.8	1003.6	2171.3	3912.9	5880.5	8488.2	9489.2	9708.8
25°	492.0	540.9	620.2	755.0	1481.1	3446.1	6040.5	9351.7	10594.7	10879.0
27.5°	440.3	486.6	558.0	661.2	1013.0	2882.8	6256.1	10364.6	11813.9	12041.4
30°	394.0	437.7	502.5	575.2	781.5	2244.0	6439.9	11319.3	12771.3	13016.0
32.5°	350.4	390.1	448.3	502.5	640.1	1659.6	6459.7	12075.7	13566.0	13809.4
35°	309.5	345.1	398.1	440.3	530.2	1310.4	6151.6	12731.6	14360.7	14682.1
37.5°	269.8	304.2	350.4	382.1	466.8	1068.5	5680.9	13462.9	15380.3	15677.9
40°	232.7	263.2	310.8	331.9	441.6	821.2	5169.1	14229.9	16380.1	16652.4
42.5°	198.3	227.5	273.7	314.7	387.4	613.6	4616.4	14949.2	17279.2	17564.9
45°	165.3	195.7	242.0	333.2	321.3	458.9	4025.2	15426.6	17989.3	18300.1
47.5°	133.6	168.0	231.4	317.4	256.5	337.2	3557.1	15878.9	18527.6	18834.3
50°	107.1	141.5	260.5	283.0	210.3	257.9	3361.4	16283.5	18880.6	19175.4
52.5°	87.3	119.1	245.9	216.9	175.9	212.9	3467.2	16939.4	19207.2	19392.3
55°	72.8	93.9	148.1	150.7	149.4	181.2	3598.1	17880.9	20052.2	20139.5
57.5°	63.4	75.4	103.1	116.4	125.7	161.3	3600.8	19232.4	21360.0	21414.2
60°	54.2	66.1	86.0	93.9	108.4	144.1	3469.8	19704.5	21874.4	22054.2
62.5°	47.6	58.2	71.4	78.1	91.2	129.6	3163.1	19020.8	21168.3	21473.8
65°	42.3	52.9	59.5	66.1	80.7	116.4	2657.9	17653.5	19996.7	20315.4
67.5°	37.0	46.3	52.9	59.5	72.8	103.1	1957.1	16065.3	18651.8	18916.3
70°	33.1	41.0	47.6	52.9	63.4	87.3	1187.4	13632.2	16792.6	16902.4
72.5°	31.8	37.0	43.6	47.6	55.5	76.7	601.7	10018.1	13424.5	13603.1
75°	27.8	33.1	39.7	42.3	48.9	66.1	244.6	6580.1	9728.6	10015.5
77.5°	22.5	30.4	35.7	38.4	42.3	54.2	124.3	4205.1	6827.3	7012.4
80°	7.9	22.5	30.4	31.8	35.7	39.7	82.0	2302.2	3960.5	4039.8
82.5°	0.0	14.5	23.8	22.5	25.2	30.4	52.9	1094.9	2614.3	2643.4
85°	0.0	6.6	18.5	14.5	10.6	21.1	18.5	239.3	1371.2	1428.2
87.5°	0.0	0.0	1.3	6.6	5.3	7.9	2.6	1.3	124.3	157.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)