

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: P383254

Luminaire Tested: **GLEON-SA5D-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383254
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-SA5D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 26782 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

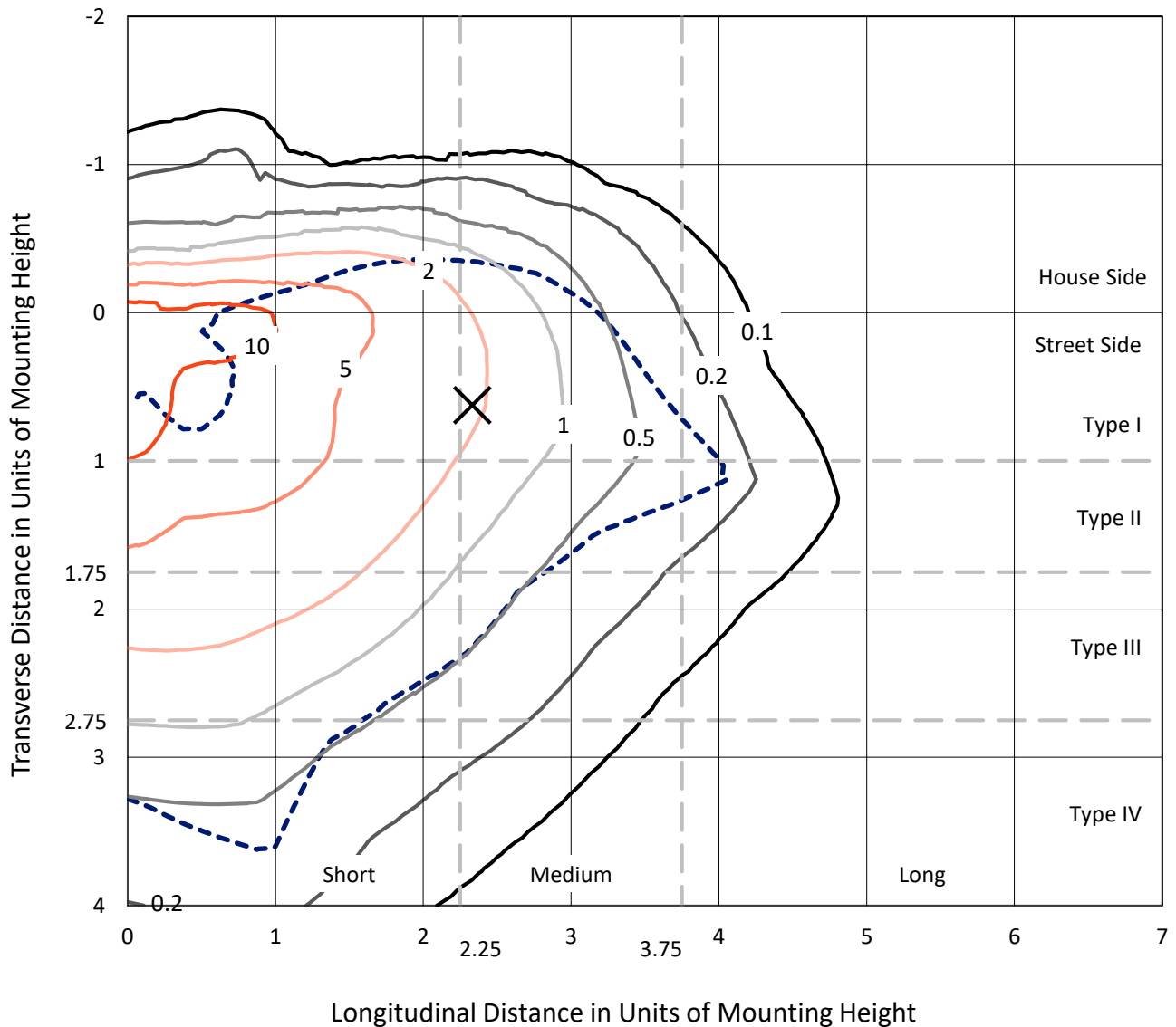
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

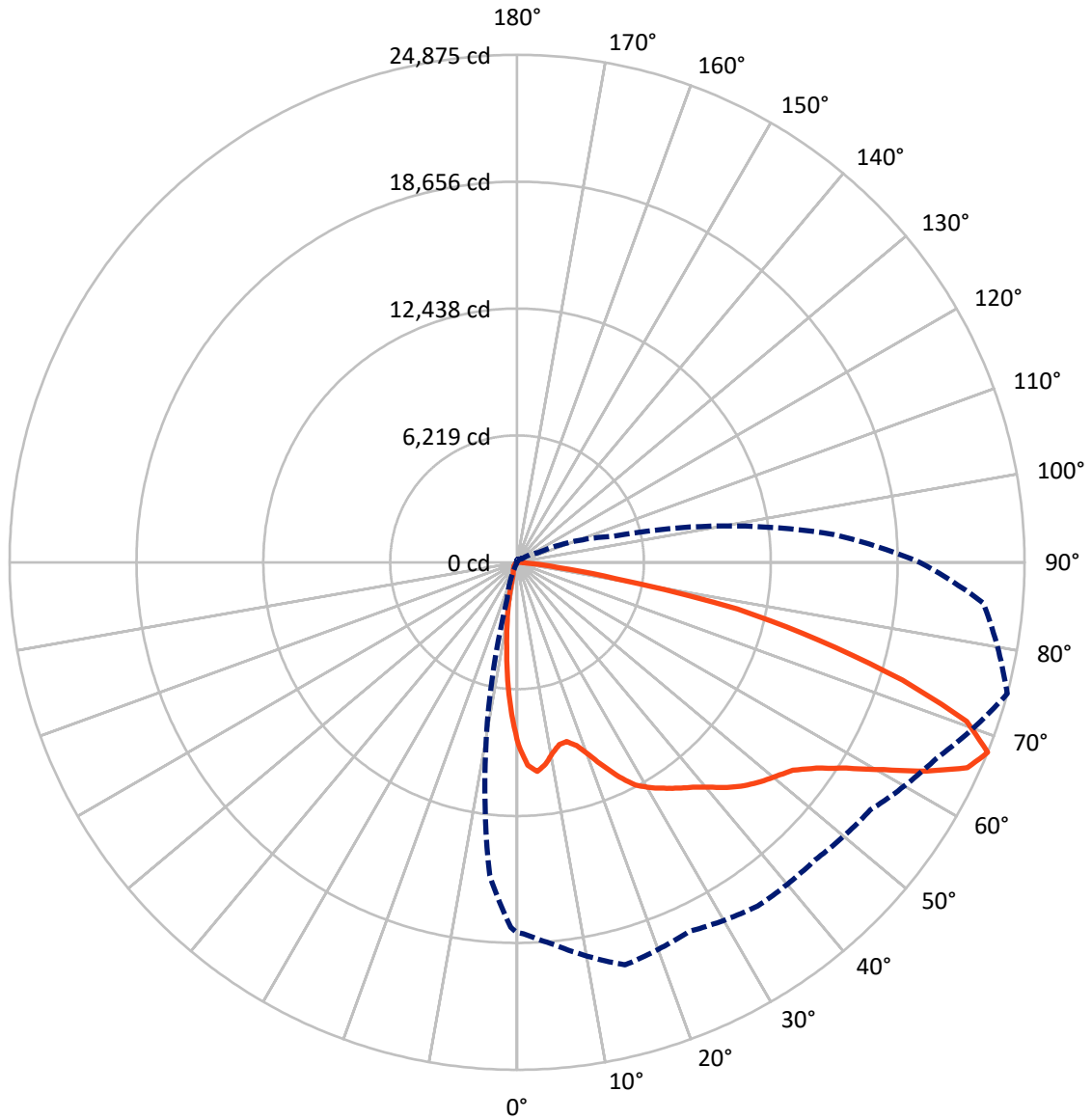
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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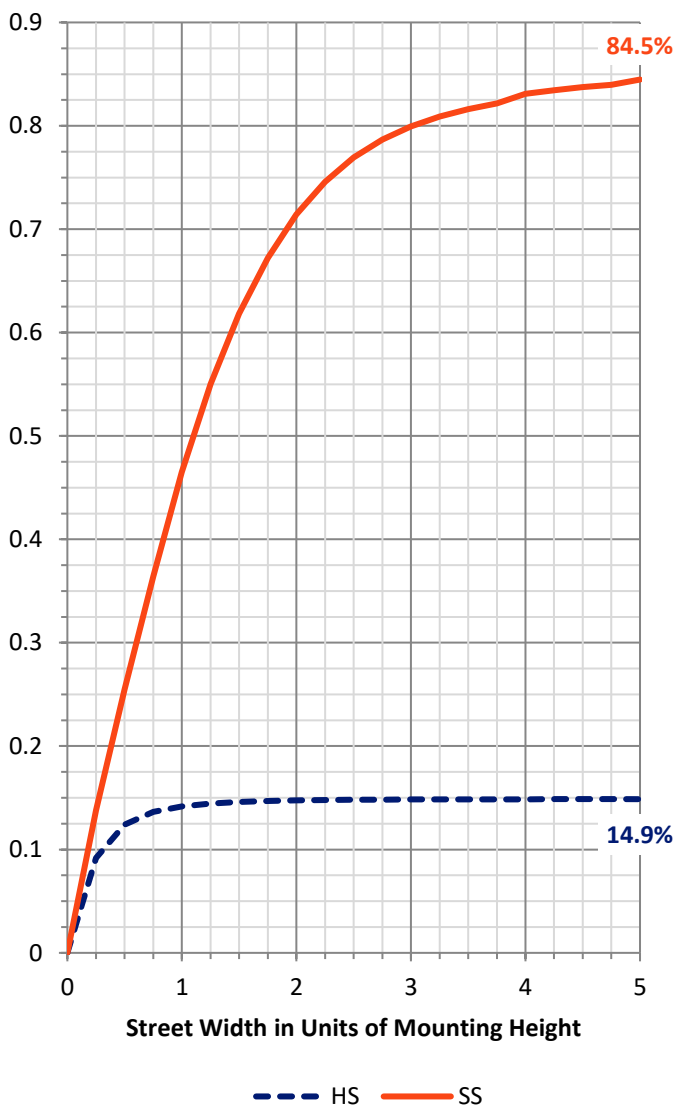
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4018.9	0.0	4018.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	22763.1	0.0	22763.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	26782.0	0.0	26782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.5	2.5
10°-20°	1342.0	5.0
20°-30°	1898.5	7.1
30°-40°	2791.3	10.4
40°-50°	4012.1	15.0
50°-60°	5648.0	21.1
60°-70°	6596.3	24.6
70°-80°	3365.2	12.6
80°-90°	447.0	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°	26782.0	100.0
0°-180°	26782.0	100.0

Coefficient of Utilization



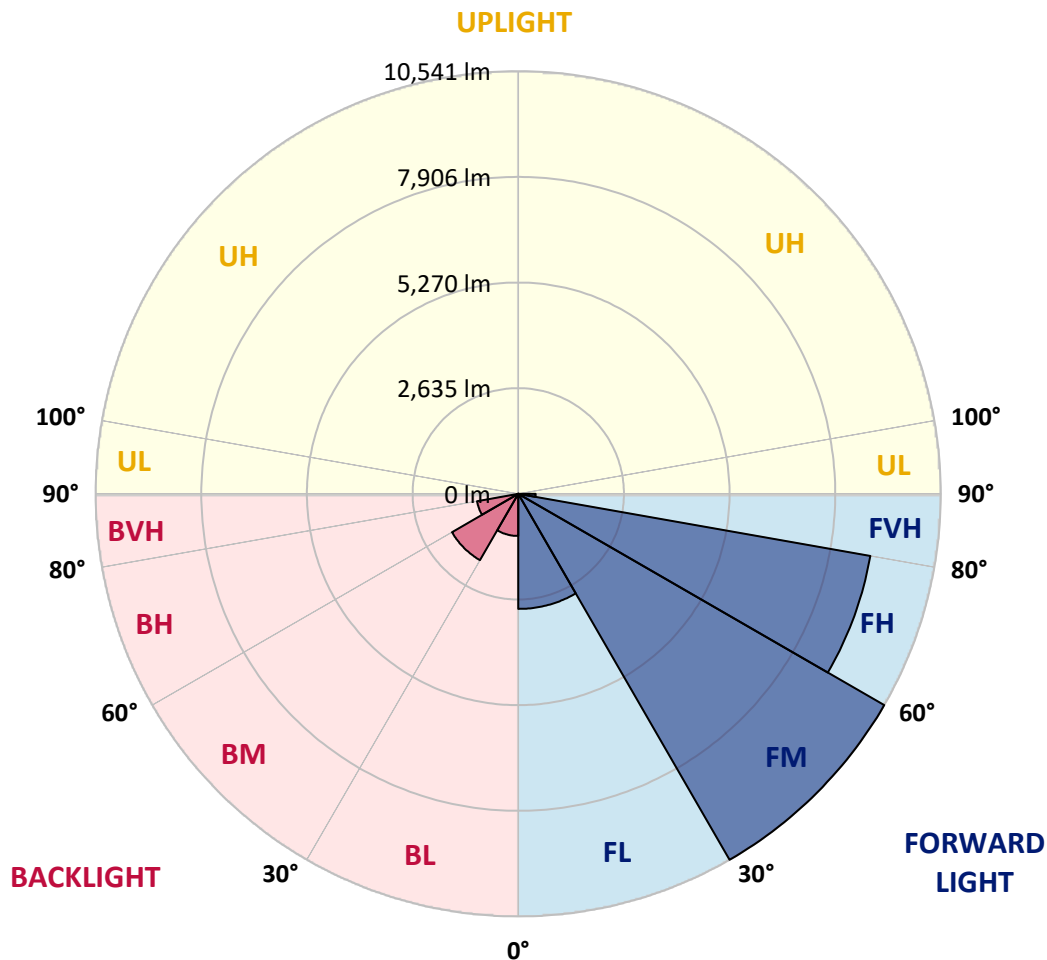
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.0	10.7			
FM (30°-60°)	10540.9	39.4			
FH (60°-80°)	8917.6	33.3			G4/12000
FVH (80°-90°)	433.5	1.6			G3/500
BL (0°-30°)	1051.0	3.9	B3/2500		
BM (30°-60°)	1910.5	7.1	B2/2500		
BH (60°-80°)	1043.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	13.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9
2.5°	9739.8	9755.0	9833.7	10016.4	10215.5	10230.7	10365.2	10227.0	10180.0	9956.8	9725.8
5°	9813.4	9871.7	10141.9	10678.6	11144.2	11293.9	11400.5	11129.0	10843.5	10298.0	9715.7
7.5°	9220.9	9318.6	9743.6	10750.9	11583.2	11951.1	12020.9	11595.9	10896.9	9998.6	9123.2
10°	8462.2	8573.9	9086.4	10324.6	11467.7	12098.3	12194.7	11637.7	10633.0	9514.0	8482.5
12.5°	7848.2	7978.8	8502.8	9845.1	11070.6	11768.4	11958.7	11496.9	10404.5	9170.2	8044.8
15°	7565.2	7714.9	8265.5	9535.5	10630.4	11179.8	11337.0	11137.9	10277.7	9115.6	7943.3
17.5°	7727.7	7890.0	8458.4	9562.1	10216.8	10451.5	10578.4	10659.6	10277.7	9444.1	8240.2
20°	8393.7	8568.7	9170.2	9832.4	9874.2	9786.7	9922.5	10207.9	10397.0	10068.4	8953.2
22.5°	9314.7	9520.3	10199.0	10295.5	9706.8	9375.7	9393.4	9841.2	10613.9	10860.1	9942.8
25°	10437.5	10688.8	11378.9	10985.6	9776.6	9130.8	9124.4	9539.3	10825.8	11653.0	11045.3
27.5°	11552.8	11829.4	12435.8	11828.0	10064.5	9086.4	9073.7	9447.9	11032.6	12358.4	12249.3
30°	12487.8	12756.7	13279.4	12438.3	10375.4	9190.5	9129.5	9545.7	11155.7	12816.3	13127.2
32.5°	13249.0	13464.7	13887.1	12858.2	10707.8	9392.1	9260.2	9807.1	11365.0	13203.3	13934.1
35°	14086.3	14313.4	14482.1	13257.9	11080.8	9682.7	9493.7	10221.9	11687.2	13596.6	14818.4
37.5°	15041.7	15267.5	15247.2	13623.2	11554.0	10163.6	10043.0	10879.1	12188.4	13986.1	15805.4
40°	15976.7	16207.6	16042.6	14022.9	12109.7	10956.5	10867.6	11866.1	12859.5	14484.7	16962.5
42.5°	16852.1	17102.0	16749.3	14401.0	12772.0	11956.2	12108.4	13137.3	13699.3	15098.7	17959.7
45°	17557.4	17812.5	17341.8	14768.8	13469.7	13169.1	13627.1	14545.6	14709.2	15617.7	18633.4
47.5°	18070.1	18311.1	17752.9	15136.8	14362.9	14652.1	15450.2	16022.3	15621.4	16068.0	19111.6
50°	18397.3	18585.1	17873.4	15597.4	15535.1	16382.7	17349.4	17628.5	16480.4	16474.0	19692.7
52.5°	18605.4	18690.4	17962.2	16078.1	16758.2	18266.7	19209.3	19296.8	17364.6	16920.6	20475.5
55°	19322.3	19390.7	18591.5	16660.5	17769.4	19917.2	20891.6	20810.4	18365.6	17794.7	21399.0
57.5°	20545.3	20617.6	19891.9	17497.8	18587.6	20937.3	22110.8	22256.7	19539.2	19022.9	22388.6
60°	21159.3	21293.8	21035.0	18558.5	19380.6	21589.4	22941.8	23407.5	21005.7	20641.7	23347.8
62.5°	20602.4	20797.7	21173.2	19734.6	20168.5	21948.5	23200.7	23819.8	22508.0	22528.3	23939.0
65°	19491.0	19647.0	20283.9	20379.1	20625.2	21904.0	22561.2	23243.8	23427.8	24261.2	23907.3
67.5°	18148.7	18207.0	18747.5	20429.8	19962.9	20569.3	20640.4	21145.4	22700.8	24875.3	22946.9
70°	16216.5	16248.1	16720.2	18731.0	17155.3	17288.5	17183.2	17286.0	19516.3	23379.5	20522.5
72.5°	13051.1	13131.0	13802.2	15555.4	12497.9	12113.5	12940.7	12895.0	15030.2	19752.3	15242.1
75°	9609.1	9747.3	10761.1	12529.6	8771.7	7934.5	8538.3	8699.4	10684.9	15278.9	9531.7
77.5°	6727.9	6830.7	7812.6	9210.8	6348.6	5673.6	5455.4	5646.9	7052.7	11052.9	4802.0
80°	3875.9	3913.9	4540.6	5318.4	4278.0	4894.6	4434.1	4566.1	4226.1	4917.5	2065.4
82.5°	2536.1	2542.5	2787.3	3165.4	2664.2	3095.6	2291.2	2929.4	2599.6	1975.3	672.4
85°	1370.2	1377.8	1616.3	2246.9	1508.5	852.6	501.2	1028.9	1607.5	452.9	184.0
87.5°	151.0	138.2	487.2	817.1	418.6	77.4	26.6	115.4	257.6	29.2	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°	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9
2.5°	9607.8	9502.5	9239.9	8962.0	8738.8	8529.4	8318.8	8061.3	7862.1	7821.6	7755.5
5°	9402.3	9068.6	8518.0	7964.8	7519.5	6957.5	6601.0	6323.2	6051.7	6035.2	5980.6
7.5°	8684.3	8245.2	7470.1	6705.1	6078.3	5542.9	5002.5	4640.9	4356.7	4256.4	4196.8
10°	7994.1	7500.5	6532.5	5659.6	5100.1	4626.9	4246.4	3868.3	3525.7	3289.8	3183.2
12.5°	7511.9	6966.4	5899.4	5147.1	4746.2	4297.0	3832.8	3360.7	2966.2	2682.0	2508.2
15°	7325.4	6743.1	5687.6	4944.1	4449.4	3880.9	3287.2	2748.0	2310.3	2052.8	1896.7
17.5°	7547.5	6870.0	5671.1	4696.7	4005.3	3298.6	2642.7	2005.8	1593.5	1398.1	1297.8
20°	8110.8	7273.4	5664.7	4393.5	3477.5	2608.4	1790.2	1319.4	1069.5	960.4	913.5
22.5°	8907.6	7788.5	5715.5	4094.1	2928.1	1863.7	1235.7	969.3	841.2	782.8	756.1
25°	9932.6	8511.6	5858.9	3822.6	2411.8	1390.5	962.9	811.9	721.9	676.2	657.2
27.5°	11025.0	9344.0	6082.2	3586.6	1991.8	1108.8	824.6	695.2	630.6	598.8	581.1
30°	11925.8	10308.1	6308.0	3323.9	1687.4	966.8	754.8	634.4	559.5	539.2	522.7
32.5°	12713.6	11037.6	6467.8	3086.8	1488.1	858.9	682.5	567.1	516.4	477.0	459.3
35°	13529.3	11645.4	6462.7	2920.5	1351.1	777.7	621.6	507.5	446.6	400.9	387.0
37.5°	14412.3	12331.7	6352.3	2778.4	1291.5	713.0	587.4	475.7	414.8	369.2	351.5
40°	15446.4	13052.4	6239.4	2645.2	1275.0	661.0	563.3	450.4	385.7	341.3	323.5
42.5°	16453.7	13701.9	6140.5	2546.3	1204.0	659.7	541.7	431.4	362.8	319.7	299.4
45°	17259.3	14307.1	6121.5	2486.7	1129.1	682.5	530.3	418.6	345.0	301.9	282.9
47.5°	17929.2	14964.3	6243.2	2444.8	1058.1	622.9	558.2	409.8	328.6	286.7	265.1
50°	18726.0	15771.2	6530.0	2376.3	983.2	560.8	639.4	412.3	314.7	271.5	248.6
52.5°	19837.3	16887.6	6951.2	2260.8	880.5	503.7	629.3	414.8	299.4	255.0	232.1
55°	21083.2	18281.9	7404.1	2069.2	737.1	428.8	539.2	397.1	270.2	237.3	215.7
57.5°	22392.4	19546.8	7673.1	1840.8	586.1	370.5	431.4	361.5	238.5	213.1	199.2
60°	22598.0	20027.6	7550.0	1560.5	465.6	322.2	319.7	368.0	213.1	187.8	177.6
62.5°	22086.7	19423.7	6955.0	1310.6	389.5	282.9	262.6	321.0	192.8	167.5	157.3
65°	21103.5	17790.9	5990.8	1181.1	361.5	242.3	218.3	225.8	168.7	145.9	137.0
67.5°	19735.9	15611.3	4918.8	1107.6	357.8	208.1	186.5	171.3	145.9	126.9	119.2
70°	16939.6	13005.4	3924.1	1067.0	347.7	175.0	157.3	139.5	121.8	107.9	101.5
72.5°	12467.5	9215.8	3052.5	1022.6	350.2	139.5	137.0	115.4	97.7	83.7	81.2
75°	7203.7	5265.1	2002.0	828.4	333.7	107.9	114.2	81.2	68.5	58.3	58.3
77.5°	3839.1	3211.0	762.5	345.0	121.8	68.5	64.7	48.3	43.1	35.5	34.3
80°	1673.4	1413.3	229.6	96.4	67.3	36.8	24.1	21.6	19.0	15.2	14.0
82.5°	592.5	511.3	74.9	46.9	29.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	134.5	96.4	0.0	11.5	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°	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9
2.5°	7621.1	7593.1	7428.3	7434.6	7463.7	7505.6	7406.6	7452.3	7575.3	7693.4	7737.8
5°	5893.1	5899.4	5799.2	5861.4	5917.2	5955.3	5795.4	5798.0	5895.7	6028.9	6098.7
7.5°	4152.5	4142.3	4147.3	4295.8	4401.1	4325.0	4384.6	4177.8	4190.5	4285.7	4214.6
10°	3086.8	2947.1	2868.5	2980.2	3095.6	3053.7	2951.0	2883.7	2930.6	3036.0	3028.4
12.5°	2425.7	2225.3	2107.3	2027.4	2122.5	2043.9	2041.3	1983.0	1919.5	1930.9	2099.7
15°	1824.3	1678.5	1538.9	1410.8	1408.2	1381.6	1245.9	1093.6	1081.0	1088.5	1176.1
17.5°	1254.7	1205.2	1148.1	1037.8	1008.6	897.0	765.0	704.2	673.7	687.7	716.8
20°	881.7	862.7	869.0	809.4	767.6	661.0	583.6	559.5	554.5	568.3	582.3
22.5°	730.8	696.5	692.7	666.1	624.2	546.8	504.9	491.0	484.7	497.4	507.5
25°	639.4	605.1	591.3	574.8	530.3	477.0	451.6	438.9	432.6	440.2	446.6
27.5°	563.3	531.5	518.9	507.5	464.4	426.3	406.0	394.6	389.5	392.0	398.3
30°	506.2	478.3	461.8	447.9	411.1	384.4	366.7	355.2	350.2	350.2	356.5
32.5°	446.6	431.4	416.1	398.3	364.1	346.3	328.6	315.9	310.9	312.1	317.2
35°	371.7	366.7	370.5	354.0	324.8	309.6	291.8	277.9	274.1	275.3	280.4
37.5°	329.9	307.0	321.0	312.1	295.6	275.3	252.4	239.8	233.4	237.3	239.8
40°	303.2	275.3	265.1	274.1	271.5	238.5	218.3	205.5	200.5	201.7	204.3
42.5°	280.4	247.4	224.6	223.3	238.5	208.1	186.5	175.0	168.7	168.7	171.3
45°	258.8	223.3	195.3	173.8	200.5	176.3	156.0	145.9	138.2	138.2	139.5
47.5°	242.3	203.0	170.0	142.1	151.0	144.7	128.2	118.0	110.4	110.4	111.6
50°	227.1	182.7	147.2	119.2	112.9	119.2	104.1	92.6	87.6	86.3	88.8
52.5°	210.6	162.4	125.6	101.5	88.8	90.1	81.2	73.6	67.3	67.3	69.8
55°	194.1	145.9	109.1	86.3	73.6	67.3	64.7	59.6	54.6	54.6	57.1
57.5°	177.6	128.2	92.6	71.1	58.3	53.3	53.3	49.5	45.6	45.6	48.3
60°	162.4	110.4	76.1	58.3	45.6	44.4	45.6	41.8	39.3	39.3	41.8
62.5°	144.7	93.9	62.1	48.3	36.8	35.5	39.3	36.8	34.3	34.3	36.8
65°	123.1	79.9	49.5	36.8	27.9	27.9	33.0	30.5	27.9	27.9	30.5
67.5°	104.1	67.3	38.1	26.6	20.3	21.6	27.9	25.3	24.1	24.1	26.6
70°	86.3	52.0	26.6	16.5	11.5	16.5	21.6	21.6	21.6	21.6	24.1
72.5°	64.7	35.5	15.2	6.3	5.0	11.5	17.8	20.3	19.0	19.0	22.8
75°	41.8	20.3	5.0	0.0	0.0	6.3	14.0	16.5	16.5	15.2	19.0
77.5°	24.1	6.3	0.0	0.0	0.0	0.0	8.8	7.6	6.3	5.0	8.8
80°	6.3	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: P383254

CATALOG NUMBER: GLEON-SA5D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9	8984.9
2.5°	7916.7	8066.4	8277.0	8500.3	8844.1	9116.9	9384.5	9614.1	9703.0	9739.8
5°	6266.1	6485.5	6793.9	7189.7	7810.1	8368.3	8934.2	9503.8	9751.2	9813.4
7.5°	4496.3	4776.6	5168.7	5664.7	6391.7	7114.9	7905.2	8741.3	9124.4	9220.9
10°	3327.8	3670.3	4119.5	4642.2	5336.1	6079.6	6941.1	7896.4	8334.1	8462.2
12.5°	2361.0	2824.1	3425.5	4061.1	4662.5	5325.9	6197.6	7250.6	7709.9	7848.2
15°	1386.7	1834.5	2546.3	3397.5	4167.7	4840.0	5725.7	6919.4	7425.6	7565.2
17.5°	795.4	1018.7	1556.7	2505.7	3551.1	4482.3	5577.2	7001.9	7598.3	7727.7
20°	607.7	678.7	897.0	1613.8	2830.4	4130.9	5577.2	7468.8	8203.4	8393.7
22.5°	531.5	583.6	672.4	962.9	2083.2	3754.0	5641.9	8143.8	9104.2	9314.7
25°	471.9	518.9	595.0	724.5	1421.0	3306.2	5795.4	8972.2	10164.8	10437.5
27.5°	422.5	466.9	535.4	634.4	971.8	2765.8	6002.2	9944.0	11334.5	11552.8
30°	378.1	419.9	482.1	551.8	749.8	2153.0	6178.6	10860.1	12253.0	12487.8
32.5°	336.2	374.3	430.1	482.1	614.1	1592.2	6197.6	11585.8	13015.6	13249.0
35°	296.9	331.2	381.8	422.5	508.7	1257.3	5902.0	12215.0	13778.1	14086.3
37.5°	258.8	291.8	336.2	366.7	447.9	1025.1	5450.3	12916.6	14756.2	15041.7
40°	223.3	252.4	298.2	318.4	423.8	787.9	4959.4	13652.4	15715.3	15976.7
42.5°	190.3	218.3	262.6	301.9	371.7	588.6	4429.0	14342.6	16578.0	16852.1
45°	158.5	187.8	232.1	319.7	308.2	440.2	3861.9	14800.6	17259.3	17557.4
47.5°	128.2	161.2	222.0	304.5	246.1	323.5	3412.8	15234.5	17775.7	18070.1
50°	102.7	135.7	249.9	271.5	201.7	247.4	3225.0	15622.7	18114.4	18397.3
52.5°	83.7	114.2	236.0	208.1	168.7	204.3	3326.6	16252.0	18427.8	18605.4
55°	69.8	90.1	142.1	144.7	143.4	173.8	3452.1	17155.3	19238.5	19322.3
57.5°	60.9	72.3	98.9	111.6	120.5	154.8	3454.6	18451.9	20493.2	20545.3
60°	52.0	63.4	82.4	90.1	104.1	138.2	3329.1	18904.8	20986.7	21159.3
62.5°	45.6	55.8	68.5	74.9	87.6	124.4	3034.7	18248.9	20309.3	20602.4
65°	40.6	50.8	57.1	63.4	77.4	111.6	2550.1	16937.1	19185.2	19491.0
67.5°	35.5	44.4	50.8	57.1	69.8	98.9	1877.6	15413.4	17894.9	18148.7
70°	31.7	39.3	45.6	50.8	60.9	83.7	1139.3	13079.0	16111.2	16216.5
72.5°	30.5	35.5	41.8	45.6	53.3	73.6	577.3	9611.6	12879.8	13051.1
75°	26.6	31.7	38.1	40.6	46.9	63.4	234.7	6313.0	9333.8	9609.1
77.5°	21.6	29.2	34.3	36.8	40.6	52.0	119.2	4034.4	6550.3	6727.9
80°	7.6	21.6	29.2	30.5	34.3	38.1	78.6	2208.8	3799.8	3875.9
82.5°	0.0	14.0	22.8	21.6	24.1	29.2	50.8	1050.5	2508.2	2536.1
85°	0.0	6.3	17.8	14.0	10.2	20.3	17.8	229.6	1315.6	1370.2
87.5°	0.0	0.0	1.3	6.3	5.0	7.6	2.5	1.3	119.2	151.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)