

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: P383198

Luminaire Tested: **GLEON-SA5B-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383198
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-SA5B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19725.5 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

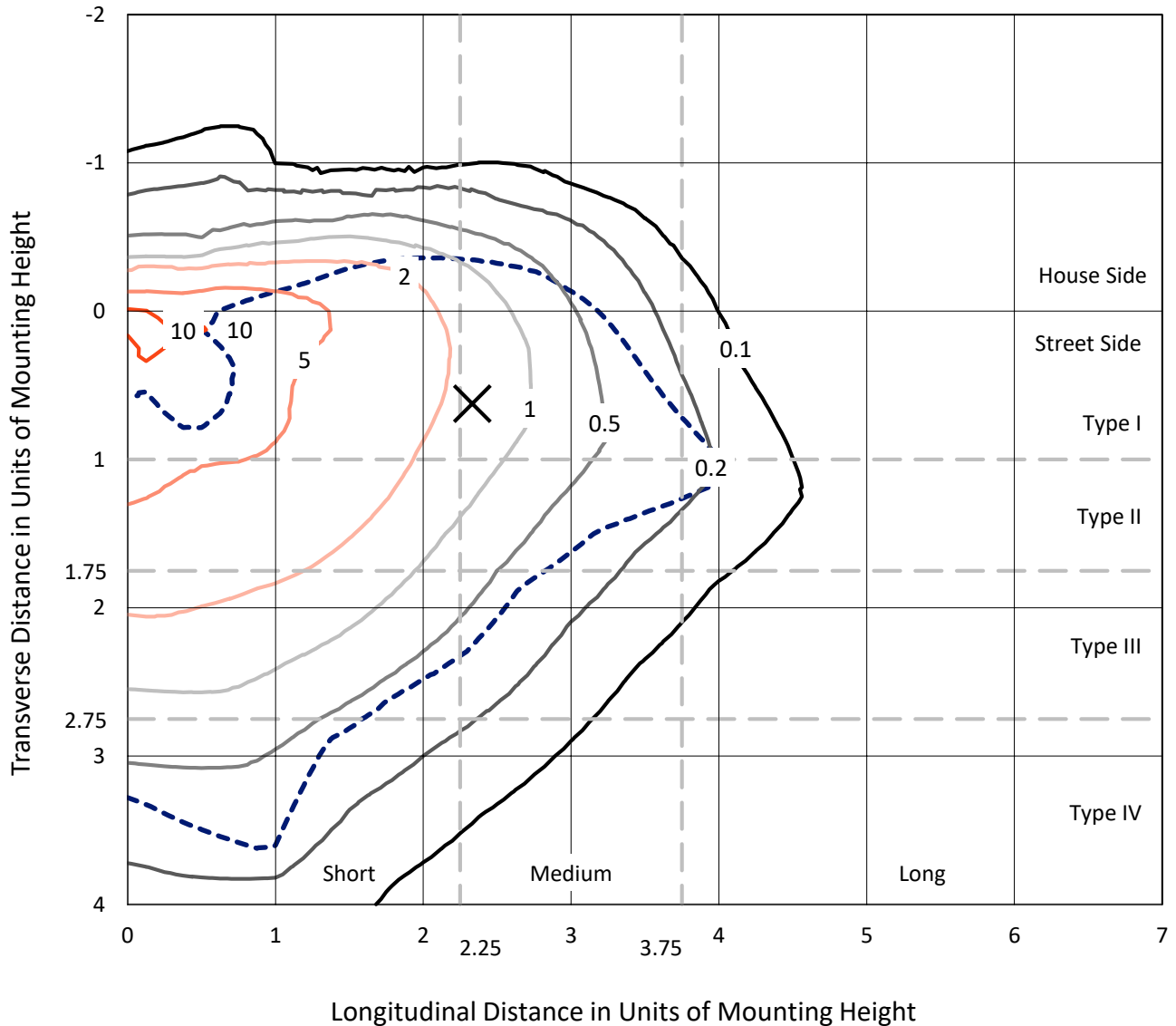
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

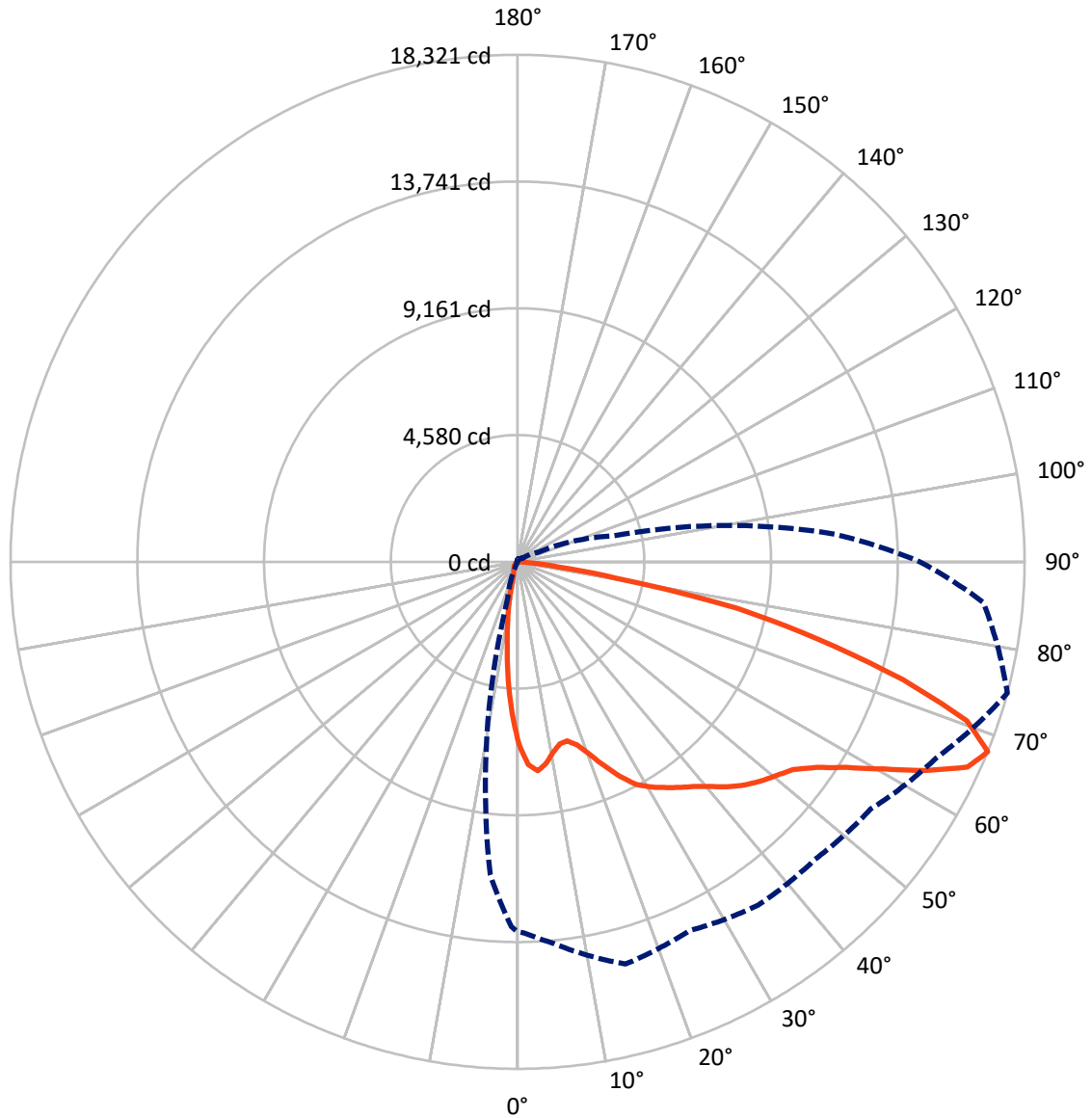
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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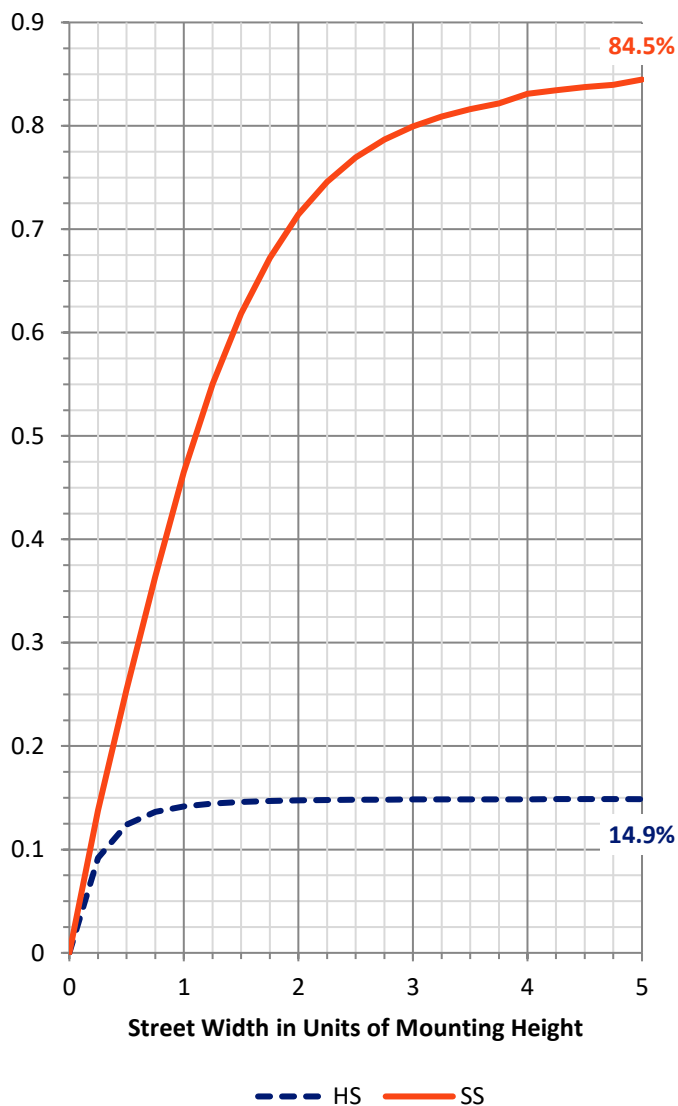
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2960.0	0.0	2960.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	16765.5	0.0	16765.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	19725.5	0.0	19725.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.0	2.5
10°-20°	988.4	5.0
20°-30°	1398.3	7.1
30°-40°	2055.9	10.4
40°-50°	2955.0	15.0
50°-60°	4159.8	21.1
60°-70°	4858.3	24.6
70°-80°	2478.6	12.6
80°-90°	329.3	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°	19725.5	100.0
0°-180°	19725.5	100.0

Coefficient of Utilization

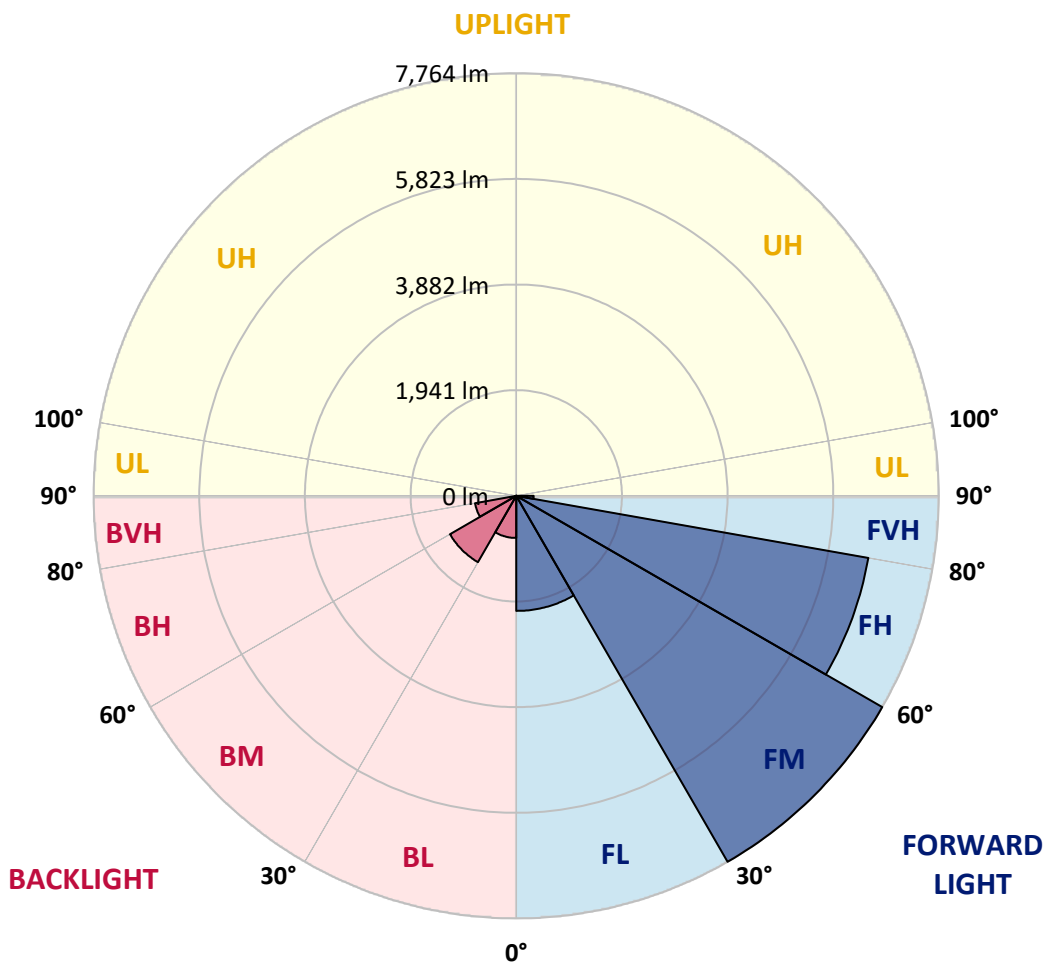


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.6	10.7			
FM (30°-60°)	7763.6	39.4			
FH (60°-80°)	6568.0	33.3			G3/7500
FVH (80°-90°)	319.3	1.6			G3/500
BL (0°-30°)	774.1	3.9	B2/1000		
BM (30°-60°)	1407.1	7.1	B2/2500		
BH (60°-80°)	768.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6
2.5°	7173.6	7184.7	7242.7	7377.3	7523.9	7535.2	7634.2	7532.4	7497.8	7333.3	7163.3
5°	7227.8	7270.7	7469.8	7865.1	8208.0	8318.3	8396.7	8196.8	7986.5	7584.7	7155.8
7.5°	6791.4	6863.4	7176.4	7918.2	8531.3	8802.3	8853.6	8540.6	8025.7	7364.2	6719.4
10°	6232.6	6314.9	6692.3	7604.3	8446.2	8910.6	8981.7	8571.4	7831.4	7007.2	6247.5
12.5°	5780.3	5876.6	6262.5	7251.1	8153.7	8667.7	8807.9	8467.8	7663.2	6754.0	5925.2
15°	5572.0	5682.3	6087.8	7023.1	7829.6	8234.1	8350.0	8203.3	7569.8	6713.8	5850.4
17.5°	5691.6	5811.2	6229.8	7042.8	7524.9	7697.8	7791.2	7851.0	7569.8	6955.9	6069.0
20°	6182.1	6311.0	6754.0	7241.8	7272.6	7208.1	7308.1	7518.3	7657.6	7415.6	6594.2
22.5°	6860.6	7011.9	7511.8	7582.8	7149.3	6905.4	6918.4	7248.3	7817.4	7998.6	7323.1
25°	7687.5	7872.5	8380.9	8091.1	7200.7	6725.0	6720.4	7025.9	7973.4	8582.6	8135.1
27.5°	8508.8	8712.6	9159.2	8711.6	7412.8	6692.3	6683.0	6958.7	8125.7	9102.2	9021.9
30°	9197.5	9395.6	9780.6	9161.0	7641.7	6769.0	6724.1	7030.6	8216.3	9439.6	9668.4
32.5°	9758.1	9917.0	10228.2	9470.4	7886.5	6917.5	6820.3	7223.0	8370.5	9724.5	10262.8
35°	10374.9	10542.1	10666.4	9764.7	8161.2	7131.5	6992.3	7528.7	8607.9	10014.2	10914.0
37.5°	11078.5	11244.8	11229.9	10033.8	8509.8	7485.6	7396.9	8012.7	8977.0	10301.1	11641.0
40°	11767.2	11937.2	11815.7	10328.2	8919.0	8069.6	8004.2	8739.7	9471.3	10668.3	12493.3
42.5°	12411.9	12596.0	12336.2	10606.6	9406.9	8806.0	8918.1	9675.9	10089.9	11120.5	13227.7
45°	12931.5	13119.3	12772.6	10877.6	9920.8	9699.3	10036.6	10713.2	10833.7	11502.7	13723.8
47.5°	13308.9	13486.5	13075.4	11148.6	10578.6	10791.6	11379.4	11800.8	11505.5	11834.5	14076.2
50°	13550.0	13688.3	13164.2	11487.8	11442.0	12066.1	12778.2	12983.8	12138.2	12133.5	14504.1
52.5°	13703.3	13765.9	13229.6	11841.9	12342.8	13453.8	14148.1	14212.5	12789.4	12462.3	15080.6
55°	14231.3	14281.7	13693.0	12270.8	13087.5	14669.5	15387.1	15327.3	13526.7	13106.2	15760.9
57.5°	15132.1	15185.3	14650.8	12887.6	13690.2	15420.7	16285.1	16392.5	14391.0	14010.8	16489.7
60°	15584.3	15683.3	15492.8	13668.7	14274.2	15901.1	16897.2	17240.1	15471.2	15203.0	17196.2
62.5°	15174.1	15318.0	15594.6	14534.9	14854.5	16165.5	17087.8	17543.7	16577.5	16592.5	17631.6
65°	14355.5	14470.5	14939.5	15009.7	15190.9	16132.8	16616.9	17119.5	17255.1	17868.9	17608.2
67.5°	13366.9	13409.9	13808.0	15047.0	14703.1	15149.8	15202.1	15574.0	16719.6	18321.2	16900.9
70°	11943.7	11967.1	12314.8	13795.8	12635.2	12733.3	12655.8	12731.5	14374.2	17219.6	15115.2
72.5°	9612.4	9671.2	10165.6	11456.9	9205.0	8921.9	9531.1	9497.5	11070.1	14548.0	11226.2
75°	7077.3	7179.2	7925.8	9228.4	6460.6	5843.9	6288.7	6407.4	7869.7	11253.3	7020.3
77.5°	4955.3	5030.9	5754.2	6783.9	4675.8	4178.7	4018.0	4159.1	5194.5	8140.7	3536.8
80°	2854.6	2882.7	3344.3	3917.1	3150.9	3605.0	3265.8	3363.0	3112.6	3621.9	1521.2
82.5°	1867.9	1872.6	2052.9	2331.4	1962.3	2280.0	1687.6	2157.6	1914.6	1454.9	495.2
85°	1009.1	1014.8	1190.4	1654.9	1111.1	628.0	369.1	757.8	1183.9	333.6	135.4
87.5°	111.2	101.8	358.8	601.8	308.3	57.0	19.7	85.1	189.7	21.5	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°	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6
2.5°	7076.4	6998.8	6805.4	6600.8	6436.3	6282.1	6127.0	5937.3	5790.6	5760.7	5712.2
5°	6925.0	6679.3	6273.7	5866.3	5538.3	5124.4	4861.8	4657.2	4457.2	4445.1	4404.8
7.5°	6396.1	6072.9	5501.9	4938.4	4476.8	4082.5	3684.5	3418.1	3208.8	3135.0	3091.1
10°	5887.8	5524.3	4811.4	4168.5	3756.4	3407.9	3127.5	2849.0	2596.8	2423.0	2344.4
12.5°	5532.7	5130.9	4345.0	3790.9	3495.6	3164.9	2822.9	2475.3	2184.7	1975.3	1847.4
15°	5395.3	4966.5	4189.0	3641.4	3277.0	2858.4	2421.1	2024.0	1701.6	1511.9	1396.9
17.5°	5558.9	5059.9	4176.9	3459.2	2949.9	2429.5	1946.4	1477.3	1173.7	1029.7	956.0
20°	5973.7	5357.1	4172.2	3235.9	2561.3	1921.1	1318.5	971.8	787.7	707.3	672.8
22.5°	6560.6	5736.4	4209.6	3015.4	2156.6	1372.6	910.1	713.9	619.5	576.5	556.9
25°	7315.6	6269.0	4315.1	2815.4	1776.4	1024.1	709.2	598.1	531.7	498.0	484.0
27.5°	8120.1	6882.0	4479.6	2641.6	1467.0	816.7	607.4	512.1	464.4	441.1	428.0
30°	8783.6	7592.2	4645.9	2448.2	1242.8	712.1	555.9	467.2	412.1	397.1	385.0
32.5°	9363.8	8129.4	4763.7	2273.4	1096.1	632.6	502.8	417.7	380.4	351.4	338.2
35°	9964.7	8577.0	4759.9	2151.0	995.2	572.8	457.9	373.7	328.9	295.3	285.0
37.5°	10615.0	9082.6	4678.6	2046.4	951.2	525.1	432.6	350.4	305.5	271.9	258.9
40°	11376.6	9613.3	4595.5	1948.2	939.1	486.8	414.9	331.7	284.0	251.3	238.3
42.5°	12118.5	10091.7	4522.6	1875.4	886.7	485.9	399.0	317.7	267.3	235.5	220.5
45°	12711.9	10537.5	4508.6	1831.4	831.6	502.8	390.6	308.3	254.1	222.4	208.4
47.5°	13205.2	11021.5	4598.3	1800.6	779.3	458.8	411.2	301.8	242.0	211.2	195.3
50°	13792.0	11615.8	4809.5	1750.2	724.2	413.0	471.0	303.7	231.8	200.0	183.1
52.5°	14610.6	12438.1	5119.7	1665.1	648.5	370.9	463.4	305.5	220.5	187.8	171.0
55°	15528.2	13465.1	5453.3	1524.0	542.9	315.8	397.1	292.5	199.1	174.8	158.8
57.5°	16492.6	14396.6	5651.4	1355.9	431.7	272.9	317.7	266.3	175.7	157.0	146.7
60°	16644.0	14750.8	5560.8	1149.3	342.9	237.4	235.5	271.0	157.0	138.3	130.8
62.5°	16267.3	14306.0	5122.5	965.3	286.8	208.4	193.4	236.4	142.1	123.3	115.9
65°	15543.2	13103.4	4412.4	870.0	266.3	178.5	160.7	166.3	124.3	107.5	100.9
67.5°	14535.9	11498.1	3622.8	815.8	263.5	153.2	137.4	126.1	107.5	93.4	87.8
70°	12476.4	9578.7	2890.1	785.9	256.0	128.9	115.9	102.7	89.7	79.5	74.7
72.5°	9182.5	6787.6	2248.2	753.2	257.9	102.7	100.9	85.1	71.9	61.7	59.8
75°	5305.6	3877.8	1474.5	610.2	245.7	79.5	84.1	59.8	50.5	42.9	42.9
77.5°	2827.5	2365.0	561.6	254.1	89.7	50.5	47.7	35.5	31.8	26.2	25.2
80°	1232.5	1040.9	169.2	71.0	49.6	27.1	17.8	15.9	14.0	11.2	10.2
82.5°	436.3	376.5	55.1	34.6	21.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	99.0	71.0	0.0	8.4	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6
2.5°	5613.0	5592.5	5471.1	5475.7	5497.2	5528.1	5455.1	5488.8	5579.4	5666.3	5699.0
5°	4340.4	4345.0	4271.2	4317.1	4358.2	4386.2	4268.4	4270.3	4342.2	4440.4	4491.7
7.5°	3058.4	3050.9	3054.6	3163.9	3241.5	3185.4	3229.4	3077.1	3086.4	3156.5	3104.1
10°	2273.4	2170.7	2112.7	2194.9	2280.0	2249.1	2173.5	2123.9	2158.5	2236.1	2230.5
12.5°	1786.6	1639.0	1552.1	1493.2	1563.3	1505.4	1503.5	1460.5	1413.8	1422.2	1546.5
15°	1343.7	1236.3	1133.4	1039.0	1037.2	1017.6	917.6	805.5	796.1	801.7	866.2
17.5°	924.2	887.7	845.7	764.3	742.9	660.7	563.5	518.6	496.1	506.5	527.9
20°	649.4	635.4	640.1	596.2	565.4	486.8	429.8	412.1	408.3	418.6	428.9
22.5°	538.2	513.0	510.2	490.6	459.7	402.7	371.9	361.6	357.0	366.3	373.7
25°	471.0	445.7	435.4	423.3	390.6	351.4	332.7	323.3	318.7	324.3	328.9
27.5°	414.9	391.5	382.2	373.7	342.0	313.9	299.0	290.6	286.8	288.8	293.4
30°	372.8	352.3	340.1	329.9	302.8	283.1	270.1	261.7	257.9	257.9	262.6
32.5°	328.9	317.7	306.5	293.4	268.2	255.1	242.0	232.7	229.0	229.9	233.6
35°	273.8	270.1	272.9	260.7	239.2	228.0	214.9	204.7	201.9	202.8	206.5
37.5°	242.9	226.1	236.4	229.9	217.7	202.8	185.9	176.6	172.0	174.8	176.6
40°	223.3	202.8	195.3	201.9	200.0	175.7	160.7	151.4	147.7	148.6	150.4
42.5°	206.5	182.2	165.3	164.4	175.7	153.2	137.4	128.9	124.3	124.3	126.1
45°	190.6	164.4	143.9	128.0	147.7	129.9	115.0	107.5	101.8	101.8	102.7
47.5°	178.5	149.5	125.2	104.6	111.2	106.6	94.4	86.9	81.3	81.3	82.3
50°	167.3	134.5	108.4	87.8	83.2	87.8	76.7	68.2	64.5	63.5	65.4
52.5°	155.1	119.6	92.5	74.7	65.4	66.3	59.8	54.2	49.6	49.6	51.4
55°	143.0	107.5	80.4	63.5	54.2	49.6	47.7	43.9	40.1	40.1	42.0
57.5°	130.8	94.4	68.2	52.4	42.9	39.2	39.2	36.4	33.6	33.6	35.5
60°	119.6	81.3	56.1	42.9	33.6	32.7	33.6	30.8	29.0	29.0	30.8
62.5°	106.6	69.1	45.8	35.5	27.1	26.2	29.0	27.1	25.2	25.2	27.1
65°	90.6	58.9	36.4	27.1	20.6	20.6	24.3	22.5	20.6	20.6	22.5
67.5°	76.7	49.6	28.0	19.7	14.9	15.9	20.6	18.7	17.8	17.8	19.7
70°	63.5	38.3	19.7	12.1	8.4	12.1	15.9	15.9	15.9	15.9	17.8
72.5°	47.7	26.2	11.2	4.7	3.7	8.4	13.0	14.9	14.0	14.0	16.9
75°	30.8	14.9	3.7	0.0	0.0	4.7	10.2	12.1	12.1	11.2	14.0
77.5°	17.8	4.7	0.0	0.0	0.0	0.0	6.5	5.6	4.7	3.7	6.5
80°	4.7	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: P383198

CATALOG NUMBER: GLEON-SA5B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6	6617.6
2.5°	5830.8	5941.0	6096.1	6260.7	6513.8	6714.8	6911.9	7081.1	7146.5	7173.6
5°	4615.1	4776.8	5003.8	5295.4	5752.3	6163.5	6580.2	6999.7	7182.0	7227.8
7.5°	3311.6	3518.1	3806.9	4172.2	4707.6	5240.2	5822.4	6438.2	6720.4	6791.4
10°	2451.0	2703.3	3034.1	3419.1	3930.2	4477.8	5112.2	5815.8	6138.2	6232.6
12.5°	1738.9	2080.1	2522.9	2991.1	3434.0	3922.7	4564.7	5340.2	5678.4	5780.3
15°	1021.3	1351.2	1875.4	2502.4	3069.5	3564.8	4217.0	5096.3	5469.2	5572.0
17.5°	585.9	750.4	1146.5	1845.5	2615.4	3301.3	4107.8	5157.0	5596.3	5691.6
20°	447.6	500.0	660.7	1188.6	2084.7	3042.4	4107.8	5501.0	6041.9	6182.1
22.5°	391.5	429.8	495.2	709.2	1534.4	2764.9	4155.4	5998.0	6705.4	6860.6
25°	347.6	382.2	438.2	533.6	1046.6	2435.1	4268.4	6608.2	7486.6	7687.5
27.5°	311.1	343.8	394.3	467.2	715.8	2037.0	4420.8	7324.0	8348.2	8508.8
30°	278.4	309.3	355.1	406.4	552.2	1585.7	4550.6	7998.6	9024.6	9197.5
32.5°	247.6	275.6	316.7	355.1	452.3	1172.7	4564.7	8533.2	9586.3	9758.1
35°	218.6	243.9	281.2	311.1	374.7	926.1	4347.0	8996.6	10147.8	10374.9
37.5°	190.6	214.9	247.6	270.1	329.9	755.0	4014.3	9513.3	10868.3	11078.5
40°	164.4	185.9	219.6	234.6	312.1	580.3	3652.7	10055.3	11574.7	11767.2
42.5°	140.2	160.7	193.4	222.4	273.8	433.5	3262.1	10563.7	12210.1	12411.9
45°	116.8	138.3	171.0	235.5	227.0	324.3	2844.4	10901.0	12711.9	12931.5
47.5°	94.4	118.7	163.5	224.2	181.3	238.3	2513.6	11220.5	13092.2	13308.9
50°	75.6	100.0	184.1	200.0	148.6	182.2	2375.3	11506.5	13341.7	13550.0
52.5°	61.7	84.1	173.8	153.2	124.3	150.4	2450.1	11969.9	13572.5	13703.3
55°	51.4	66.3	104.6	106.6	105.5	128.0	2542.6	12635.2	14169.6	14231.3
57.5°	44.8	53.3	72.8	82.3	88.8	114.0	2544.4	13590.3	15093.7	15132.1
60°	38.3	46.8	60.7	66.3	76.7	101.8	2451.9	13923.8	15457.2	15584.3
62.5°	33.6	41.1	50.5	55.1	64.5	91.6	2235.2	13440.7	14958.2	15174.1
65°	29.9	37.4	42.0	46.8	57.0	82.3	1878.2	12474.5	14130.4	14355.5
67.5°	26.2	32.7	37.4	42.0	51.4	72.8	1383.0	11352.3	13180.0	13366.9
70°	23.4	29.0	33.6	37.4	44.8	61.7	839.1	9632.9	11866.2	11943.7
72.5°	22.5	26.2	30.8	33.6	39.2	54.2	425.2	7079.2	9486.2	9612.4
75°	19.7	23.4	28.0	29.9	34.6	46.8	172.9	4649.7	6874.5	7077.3
77.5°	15.9	21.5	25.2	27.1	29.9	38.3	87.8	2971.5	4824.4	4955.3
80°	5.6	15.9	21.5	22.5	25.2	28.0	57.9	1626.9	2798.6	2854.6
82.5°	0.0	10.2	16.9	15.9	17.8	21.5	37.4	773.7	1847.4	1867.9
85°	0.0	4.7	13.0	10.2	7.5	14.9	13.0	169.2	969.0	1009.1
87.5°	0.0	0.0	0.9	4.7	3.7	5.6	1.9	0.9	87.8	111.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)