

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: P383256

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
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-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26780.1 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

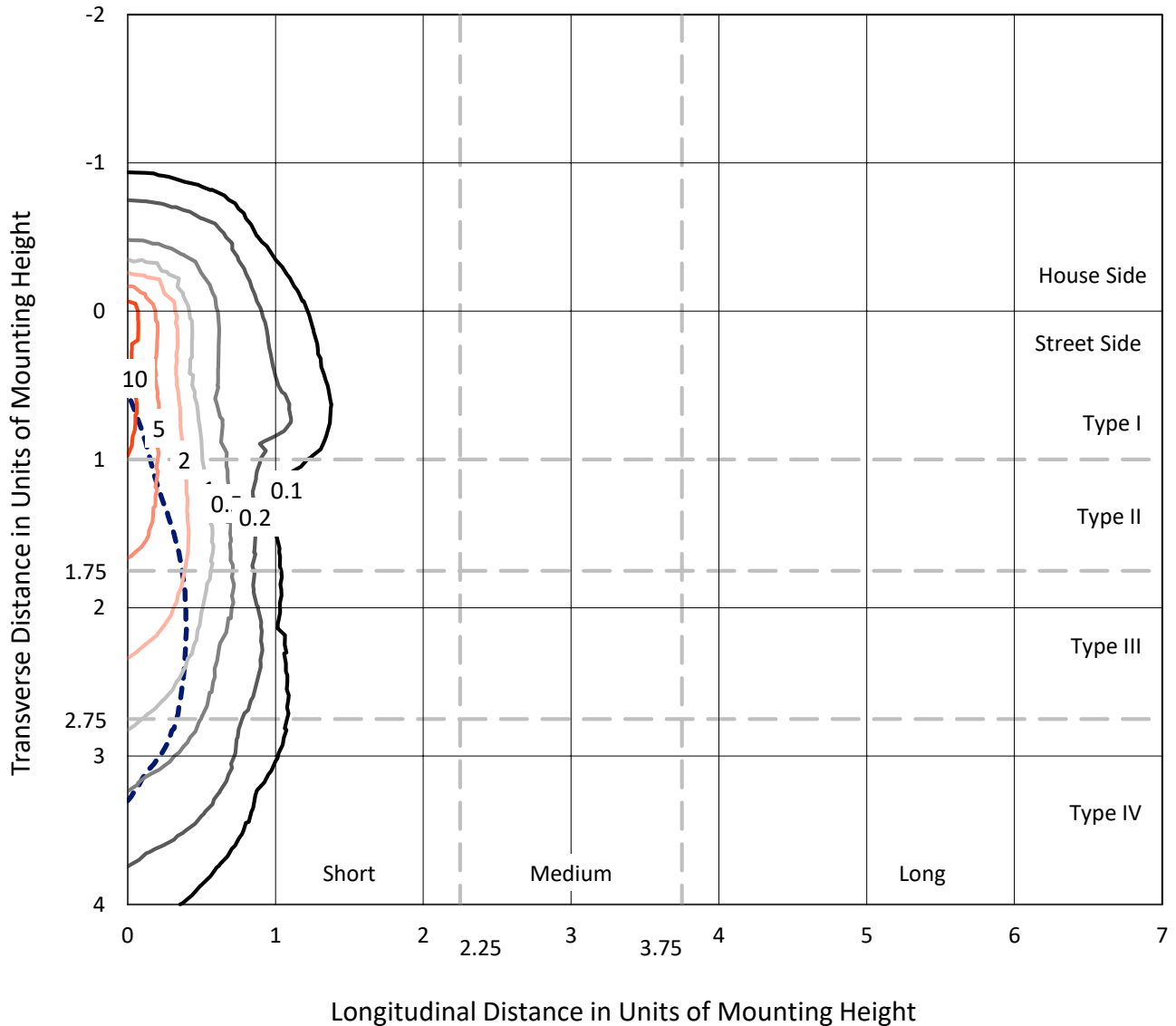
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

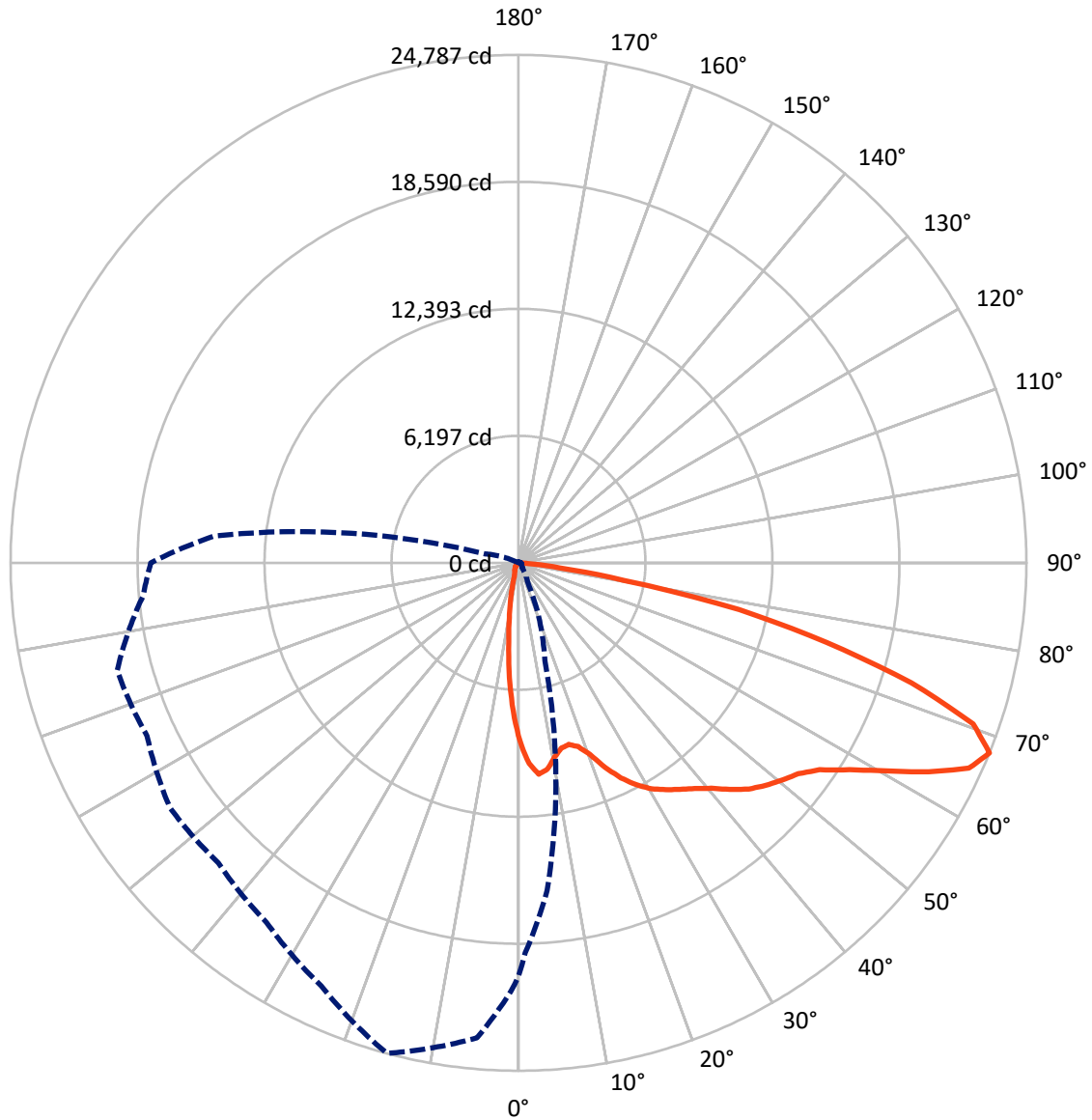
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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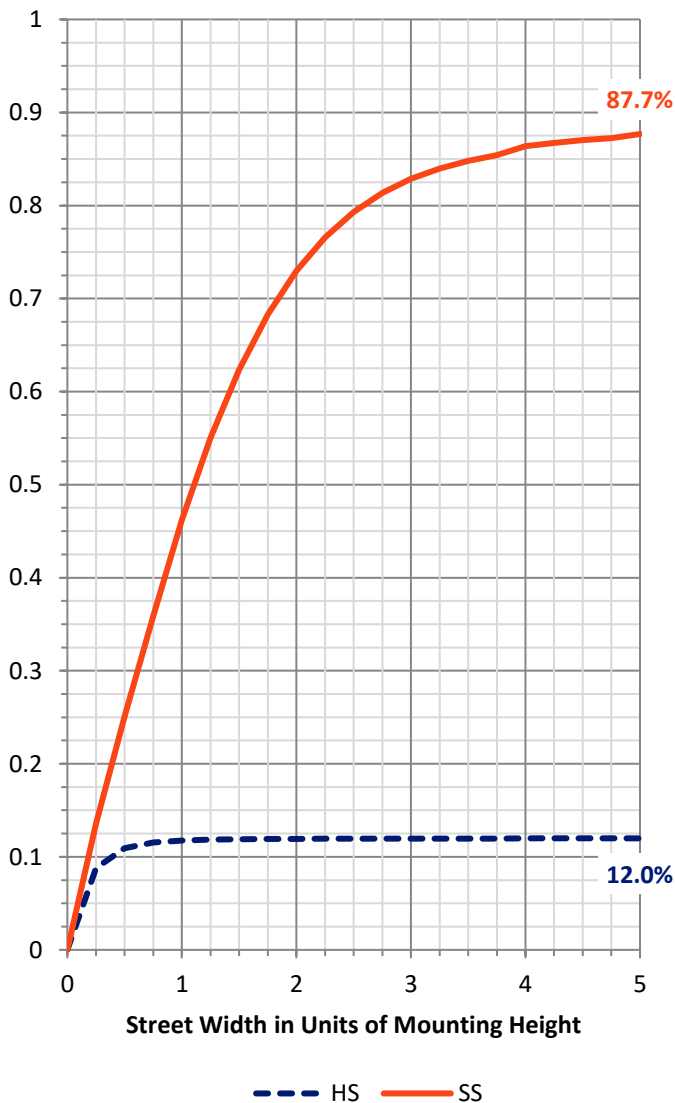
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3241.3	0.0	3241.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23538.9	0.0	23538.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	26780.1	0.0	26780.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.5	2.5
10°-20°	1332.7	5.0
20°-30°	1892.4	7.1
30°-40°	2795.2	10.4
40°-50°	4031.3	15.1
50°-60°	5659.1	21.1
60°-70°	6596.8	24.6
70°-80°	3372.4	12.6
80°-90°	430.7	1.6
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°	26780.1	100.0
0°-180°	26780.1	100.0

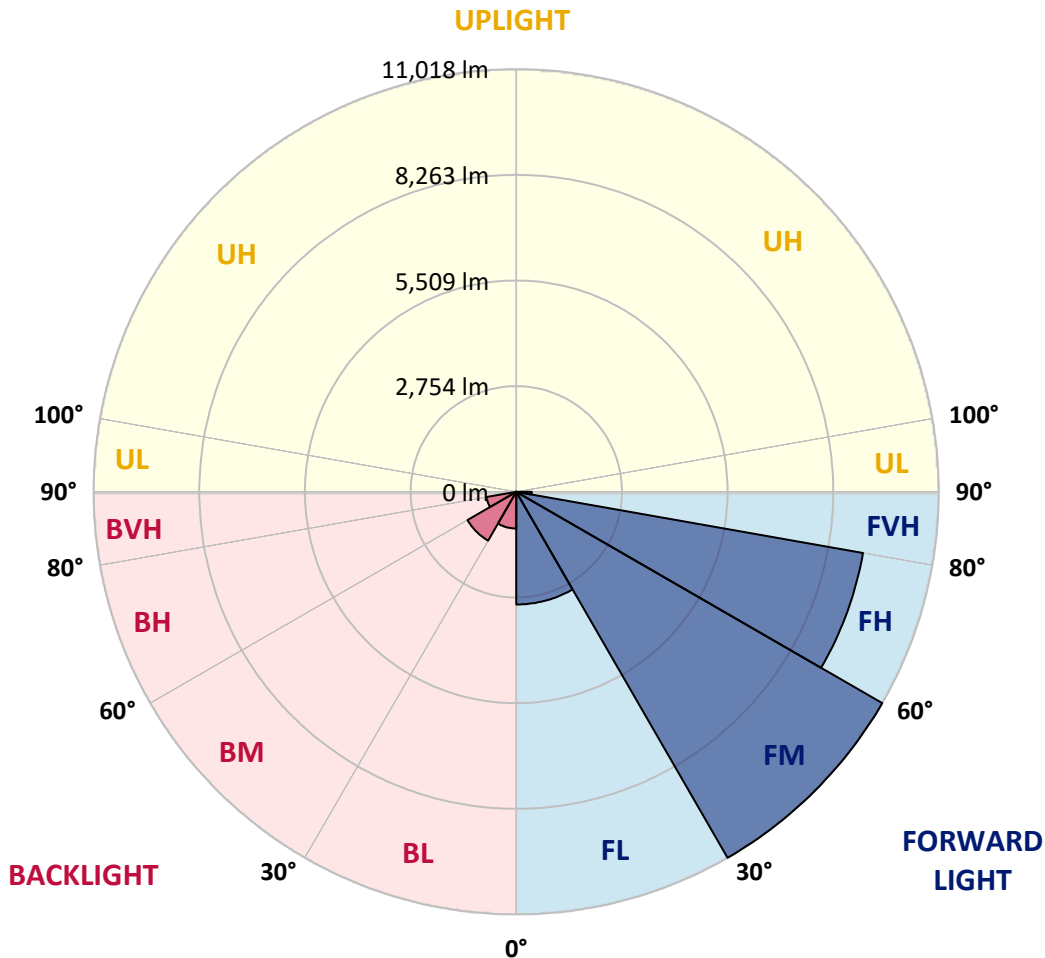


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2937.3	11.0			
FM (30°-60°)	11017.8	41.1			
FH (60°-80°)	9179.3	34.3			G4/12000
FVH (80°-90°)	404.5	1.5			G3/500
BL (0°-30°)	957.4	3.6	B2/1000		
BM (30°-60°)	1467.8	5.5	B2/2500		
BH (60°-80°)	790.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6
2.5°	9552.0	9478.5	9397.3	9132.1	8885.9	8604.3	8374.7	8214.9	8014.4	7754.3	7688.3
5°	9483.5	9404.9	9149.8	8559.9	8043.5	7541.2	7056.5	6772.4	6419.6	6061.9	5973.1
7.5°	8794.6	8712.2	8344.2	7536.0	6840.8	6115.1	5485.9	5096.4	4698.0	4370.6	4196.9
10°	8077.8	7987.7	7574.1	6593.4	5737.0	5081.1	4619.4	4247.6	3870.8	3520.6	3241.5
12.5°	7584.3	7466.3	7017.2	5905.8	5159.8	4714.5	4283.2	3837.8	3327.8	2952.3	2645.2
15°	7377.5	7243.0	6768.5	5640.6	4955.6	4432.9	3870.8	3323.9	2726.5	2296.4	2014.7
17.5°	7537.3	7362.3	6853.5	5622.9	4699.3	3987.5	3277.1	2635.1	1986.8	1551.6	1351.2
20°	8080.3	7850.7	7205.0	5617.8	4388.4	3458.5	2557.7	1832.0	1309.3	1053.0	947.8
22.5°	8935.4	8632.2	7709.9	5658.4	4067.4	2902.8	1847.3	1244.6	983.2	850.0	787.9
25°	9968.2	9616.7	8436.8	5801.8	3785.8	2362.3	1342.3	983.2	829.7	732.0	680.0
27.5°	10950.2	10664.7	9355.3	6008.6	3567.5	1925.9	1089.8	833.5	709.2	644.5	602.6
30°	11930.9	11571.8	10298.1	6254.7	3304.9	1630.3	957.9	760.0	635.6	567.1	540.5
32.5°	12643.9	12345.7	11036.4	6432.3	3024.5	1437.5	856.4	695.2	593.8	524.0	484.7
35°	13482.5	13145.0	11669.5	6471.6	2844.4	1315.6	770.1	625.4	515.1	452.9	411.1
37.5°	14388.3	13968.4	12400.3	6385.4	2703.6	1256.0	705.4	593.8	480.9	417.4	373.0
40°	15390.6	14916.1	13101.8	6261.0	2565.3	1235.7	655.9	569.6	454.2	389.5	343.8
42.5°	16446.2	15886.6	13709.6	6130.3	2477.7	1165.9	650.9	545.5	433.9	364.1	318.4
45°	17332.9	16765.9	14333.7	6087.2	2415.6	1089.8	672.4	529.0	419.9	343.8	299.4
47.5°	18039.6	17502.9	14973.2	6183.6	2380.1	1020.0	612.8	550.6	412.3	326.0	282.9
50°	18883.3	18275.7	15873.9	6471.6	2328.0	950.3	554.5	630.6	412.3	314.7	268.9
52.5°	19941.5	19340.0	16878.8	6918.2	2224.1	853.9	498.6	631.8	416.1	299.4	251.2
55°	21272.3	20835.8	18313.7	7407.9	2057.8	711.7	431.4	543.0	400.9	271.5	234.7
57.5°	22548.6	22192.1	19621.7	7742.8	1835.8	555.7	375.5	437.7	366.7	238.5	209.3
59°	22897.5	22508.0	20101.3	7758.1	1669.6	484.7	347.7	361.5	359.0	223.3	194.1
60°	22897.5	22483.9	20239.5	7676.9	1549.1	445.3	329.9	322.2	374.3	213.1	185.2
62.5°	22482.6	21901.5	19790.4	7127.6	1263.6	379.3	288.0	266.4	336.2	191.6	163.7
65°	21619.9	20773.7	18260.4	6134.1	1126.6	347.7	248.6	218.3	233.4	168.7	143.4
67.5°	20181.2	19034.3	16054.1	4955.6	1072.0	338.7	214.4	185.2	176.3	144.7	125.6
70°	17647.6	16375.1	13375.9	3896.2	1025.1	334.9	180.2	156.0	142.1	121.8	106.6
72.5°	12844.3	11517.3	9496.2	3046.2	997.2	342.5	144.7	130.7	116.7	95.1	82.4
75°	7347.0	6478.0	5337.4	2012.1	850.0	327.3	111.6	109.1	83.7	68.5	57.1
77.5°	3796.0	3680.5	3198.4	772.6	407.3	143.4	73.6	63.4	49.5	41.8	34.3
80°	1637.8	1620.1	1401.9	223.3	107.9	79.9	41.8	26.6	22.8	17.8	14.0
82.5°	565.8	565.8	498.6	74.9	48.3	39.3	5.0	0.0	0.0	0.0	0.0
85°	114.2	128.2	90.1	0.0	16.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6
2.5°	7608.4	7454.9	7444.7	7348.3	7227.8	7173.2	7141.5	7197.3	7265.9	7273.4	7376.2
5°	5905.8	5744.7	5811.9	5640.6	5674.9	5640.6	5584.8	5595.0	5625.4	5530.2	5648.3
7.5°	4147.3	4025.6	4103.0	4057.3	4118.2	4142.3	4108.0	4057.3	3907.6	3889.9	3992.6
10°	3126.1	2987.8	2905.3	2819.0	2838.1	2877.4	2864.7	2827.9	2732.8	2737.8	2836.8
12.5°	2512.0	2357.3	2193.6	1981.7	1929.7	1958.9	1929.7	1908.1	1816.8	1824.4	1911.9
15°	1905.6	1778.7	1607.5	1437.5	1344.8	1353.7	1272.5	1215.4	1158.3	1089.8	1143.1
17.5°	1286.5	1209.1	1158.3	1107.6	997.2	971.8	869.0	758.7	715.5	683.8	706.7
20°	911.0	869.0	848.7	846.2	782.8	751.1	650.9	582.3	560.8	554.5	568.3
22.5°	761.3	730.8	701.5	685.1	653.4	616.6	540.5	506.2	491.0	483.4	493.5
25°	662.2	639.4	609.0	581.1	568.3	529.0	474.5	449.1	438.9	431.4	436.4
27.5°	588.6	568.3	532.8	515.1	504.9	470.7	423.8	403.5	394.6	392.0	390.8
30°	530.3	511.3	478.3	458.0	440.2	409.8	381.8	361.5	352.7	350.2	347.7
32.5°	471.9	456.7	435.1	414.9	395.8	368.0	343.8	327.3	313.4	310.9	309.6
35°	398.3	383.1	371.7	370.5	352.7	326.0	308.2	286.7	275.3	271.5	272.8
37.5°	354.0	333.7	308.2	317.2	312.1	293.1	268.9	247.4	236.0	233.4	233.4
40°	326.0	304.5	275.3	260.1	275.3	271.5	233.4	211.8	200.5	199.2	196.6
42.5°	299.4	277.9	244.9	219.5	227.1	238.5	201.7	181.5	170.0	167.5	163.7
45°	280.4	257.6	220.8	191.6	176.3	200.5	172.5	147.2	140.8	135.7	133.2
47.5°	262.6	241.1	199.2	166.2	140.8	144.7	138.3	120.5	112.9	107.9	106.6
50°	247.4	224.6	180.2	142.1	116.7	106.6	111.6	95.1	88.8	83.7	81.2
52.5°	229.6	208.1	159.9	123.1	97.7	83.7	85.0	74.9	68.5	64.7	63.4
55°	215.7	194.1	143.4	107.9	86.3	68.5	60.9	58.3	54.6	52.0	50.8
57.5°	196.6	176.3	126.9	91.4	73.6	55.8	46.9	46.9	45.6	43.1	41.8
59°	185.2	167.5	116.7	82.4	67.3	48.3	41.8	43.1	41.8	39.3	38.1
60°	176.3	159.9	109.1	76.1	63.4	44.4	38.1	40.6	39.3	36.8	35.5
62.5°	156.0	144.7	93.9	63.4	55.8	35.5	31.7	34.3	34.3	33.0	31.7
65°	137.0	124.4	79.9	53.3	52.0	30.5	25.3	30.5	31.7	29.2	26.6
67.5°	119.2	106.6	69.8	43.1	48.3	24.1	19.0	25.3	34.3	26.6	24.1
70°	101.5	88.8	54.6	34.3	50.8	16.5	15.2	22.8	40.6	29.2	22.8
72.5°	78.6	68.5	38.1	25.3	54.6	11.5	11.5	19.0	45.6	31.7	21.6
75°	54.6	44.4	22.8	15.2	44.4	7.6	7.6	17.8	43.1	29.2	20.3
77.5°	31.7	24.1	7.6	1.3	22.8	0.0	1.3	12.7	30.5	17.8	8.8
80°	11.5	5.0	0.0	0.0	14.0	0.0	0.0	0.0	2.5	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6
2.5°	7402.8	7574.1	7727.7	7959.8	8235.2	8552.3	8825.1	9118.2	9393.4	9507.7	9586.3
5°	5672.4	5884.2	6131.6	6472.9	6927.1	7486.6	8010.6	8603.0	9239.9	9558.4	9857.8
7.5°	4010.4	4226.1	4533.1	4895.9	5445.3	6111.3	6796.4	7614.7	8477.5	8981.1	9477.2
10°	2883.8	3148.9	3435.6	3931.7	4490.0	5121.7	5827.1	6740.6	7702.3	8260.5	8858.1
12.5°	1962.7	2264.6	2698.5	3254.2	3910.2	4529.3	5142.0	6013.6	7130.1	7683.2	8323.9
15°	1177.4	1344.8	1804.1	2447.4	3251.7	4023.1	4694.2	5568.3	6758.4	7435.9	8101.9
17.5°	725.7	803.1	1053.0	1580.8	2425.7	3401.4	4321.2	5417.3	6811.7	7636.3	8349.3
20°	578.5	609.0	688.9	933.8	1607.5	2716.3	3901.2	5386.9	7246.8	8261.8	9026.8
22.5°	502.4	531.5	584.8	678.7	1011.2	2033.8	3502.9	5414.8	7871.0	9199.3	10092.5
25°	442.8	468.2	518.9	596.3	741.0	1432.3	3076.6	5539.2	8684.3	10362.7	11311.7
27.5°	395.8	417.4	464.4	535.4	635.6	999.7	2593.2	5690.1	9648.5	11552.8	12489.1
30°	352.7	371.7	413.6	479.6	551.8	768.8	2062.9	5792.9	10614.0	12489.1	13330.3
32.5°	315.9	329.9	368.0	423.8	479.6	612.8	1568.1	5776.4	11330.8	13268.0	13935.4
35°	277.9	291.8	324.8	373.0	417.4	506.2	1233.2	5468.1	11954.9	14076.2	14628.1
37.5°	236.0	253.8	285.4	328.6	359.0	445.3	997.2	5096.4	12588.0	14999.9	15400.7
40°	200.5	218.3	246.1	293.1	312.1	422.5	766.3	4643.5	13299.8	16032.6	16248.2
42.5°	166.2	182.7	211.8	252.4	294.4	364.1	567.1	4125.8	13983.6	16915.6	17020.9
45°	134.5	151.0	181.5	222.0	314.7	301.9	438.9	3571.4	14535.5	17650.1	17684.4
47.5°	106.6	121.8	153.5	209.3	293.1	241.1	313.4	3136.2	14998.6	18223.6	18133.5
50°	82.4	95.1	128.2	239.8	256.3	199.2	237.3	2991.6	15413.4	18578.9	18345.4
52.5°	64.7	76.1	105.3	224.6	199.2	165.0	199.2	3127.3	15981.8	18873.2	18464.7
55°	52.0	63.4	82.4	128.2	135.7	139.5	170.0	3254.2	16962.6	19563.3	19168.7
57.5°	43.1	54.6	67.3	90.1	102.7	118.0	151.0	3268.1	18118.3	20710.3	20337.3
59°	39.3	49.5	60.9	79.9	90.1	107.9	142.1	3192.0	18525.6	21127.7	20941.2
60°	36.8	46.9	57.1	73.6	83.7	101.5	137.0	3119.8	18543.3	21112.4	21198.7
62.5°	31.7	41.8	50.8	62.1	71.1	86.3	123.1	2852.0	17792.3	20421.0	21043.9
65°	27.9	36.8	45.6	53.3	60.9	77.4	111.6	2363.6	16509.6	19305.8	19984.6
67.5°	25.3	31.7	41.8	46.9	54.6	68.5	98.9	1684.8	14907.2	17942.0	18382.2
70°	22.8	30.5	38.1	43.1	49.5	59.6	85.0	968.1	12588.0	15945.0	16258.4
72.5°	21.6	29.2	34.3	40.6	44.4	53.3	77.4	455.4	9217.1	12773.3	13591.6
75°	19.0	26.6	31.7	38.1	41.8	48.3	66.0	218.3	6130.3	9243.7	10173.7
77.5°	11.5	21.6	29.2	34.3	36.8	41.8	54.6	125.6	3912.7	6398.1	7536.0
80°	0.0	7.6	21.6	29.2	31.7	35.5	41.8	98.9	2093.4	3655.1	4387.1
82.5°	0.0	0.0	15.2	22.8	21.6	24.1	31.7	62.1	943.9	2389.0	2692.2
85°	0.0	0.0	5.0	17.8	15.2	11.5	21.6	21.6	206.8	1209.1	1508.5
87.5°	0.0	0.0	0.0	1.3	7.6	5.0	8.8	2.5	1.3	90.1	365.4
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: P383256

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6	8723.6
2.5°	9861.6	9955.4	10114.1	10188.9	10152.1	9996.1	9809.6	9619.3	9507.7	9552.0
5°	10468.1	10951.5	11230.6	11323.1	11168.3	10818.2	10360.2	9756.3	9541.9	9483.5
7.5°	10468.1	11377.7	11953.7	12055.2	11710.1	11023.7	10164.9	9222.1	8908.8	8794.6
10°	10100.1	11338.3	12141.4	12302.6	11820.5	10794.1	9643.4	8567.5	8195.8	8077.8
12.5°	9685.2	11018.6	11864.8	12086.9	11691.1	10565.7	9281.8	8124.8	7687.0	7584.3
15°	9430.2	10625.3	11325.7	11486.8	11319.3	10432.5	9195.5	7991.6	7476.4	7377.5
17.5°	9521.6	10320.9	10573.3	10667.2	10780.1	10385.5	9430.2	8283.3	7631.2	7537.3
20°	9865.4	9999.9	9869.2	9987.2	10291.6	10431.3	9989.7	8988.8	8205.9	8080.3
22.5°	10449.0	9833.7	9467.0	9514.0	9884.5	10582.2	10844.8	9996.1	9092.7	8935.4
25°	11129.0	9968.2	9243.7	9201.9	9582.5	10781.5	11626.4	11092.2	10141.9	9968.2
27.5°	11984.2	10270.1	9198.1	9156.2	9477.2	10967.9	12275.9	12175.7	11247.0	10950.2
30°	12643.9	10567.0	9333.8	9237.4	9582.5	11097.3	12797.4	13095.5	12127.5	11930.9
32.5°	13117.1	10917.2	9554.6	9415.1	9879.3	11320.6	13199.6	13937.9	12942.0	12643.9
35°	13477.4	11297.8	9911.1	9681.5	10287.9	11659.3	13576.4	14834.9	13808.5	13482.5
37.5°	13814.9	11831.9	10468.1	10194.0	10928.5	12204.9	13974.7	15852.4	14777.8	14388.3
40°	14285.6	12437.1	11327.0	11083.4	12005.7	12948.3	14472.1	16913.0	15880.3	15390.6
42.5°	14756.3	13086.7	12206.2	12272.1	13349.3	13851.6	15114.0	18034.6	16968.9	16446.2
45°	15186.4	13756.5	13458.3	13762.9	14596.4	14842.5	15752.2	18682.8	17837.9	17332.9
47.5°	15569.5	14593.8	14703.0	15513.6	16014.8	15739.5	16229.2	19242.3	18485.0	18039.6
50°	16014.8	15677.3	16343.4	17490.3	17647.6	16551.5	16663.1	19904.7	19241.1	18883.3
52.5°	16502.0	16819.2	18160.1	19171.3	19120.6	17433.2	17099.5	20646.8	20277.6	19941.5
55°	17055.1	17741.5	19760.0	20744.5	20701.4	18417.7	17822.6	21564.1	21576.8	21272.3
57.5°	17875.9	18535.7	20846.0	22017.0	22089.3	19554.5	19048.3	22591.7	22751.6	22548.6
59°	18464.7	19050.8	21276.1	22548.6	22842.9	20433.7	19944.0	23188.0	23082.7	22897.5
60°	18901.1	19378.1	21489.2	22826.5	23280.7	21030.0	20605.0	23538.2	23122.0	22897.5
62.5°	19980.8	20091.2	21873.7	23141.0	23784.3	22354.4	22464.8	24134.4	22849.3	22482.6
65°	20484.5	20541.6	21868.5	22577.7	23297.2	23385.9	24152.2	24152.2	22183.2	21619.9
67.5°	20273.8	19998.5	20783.9	20710.3	21428.3	22773.2	24786.6	23266.7	20909.4	20181.2
70°	18561.1	17501.7	17152.8	17184.5	17733.9	19808.2	23530.6	20660.8	18499.0	17647.6
72.5°	15443.8	12902.7	12041.2	13024.4	13167.8	15223.2	20053.1	15559.4	13642.3	12844.3
75°	12421.8	9095.4	7694.7	8732.4	8976.0	11140.5	15512.4	9690.3	7968.7	7347.0
77.5°	8924.0	6528.8	5521.4	5449.1	5763.7	7065.4	11007.3	4876.8	4067.4	3796.0
80°	5069.8	4297.0	4626.9	4365.6	4524.2	4417.6	5229.6	2139.0	1752.1	1637.8
82.5°	3060.1	2540.0	2750.6	2290.0	2897.7	2523.5	2014.7	685.1	595.0	565.8
85°	1990.6	1387.9	723.2	484.7	998.4	1612.5	450.4	186.5	143.4	114.2
87.5°	686.4	354.0	35.5	15.2	106.6	300.7	16.5	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

(END OF REPORT)