

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: P382920

Luminaire Tested: **GLEON-SA2D-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382920
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-SA2D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 10962.4 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

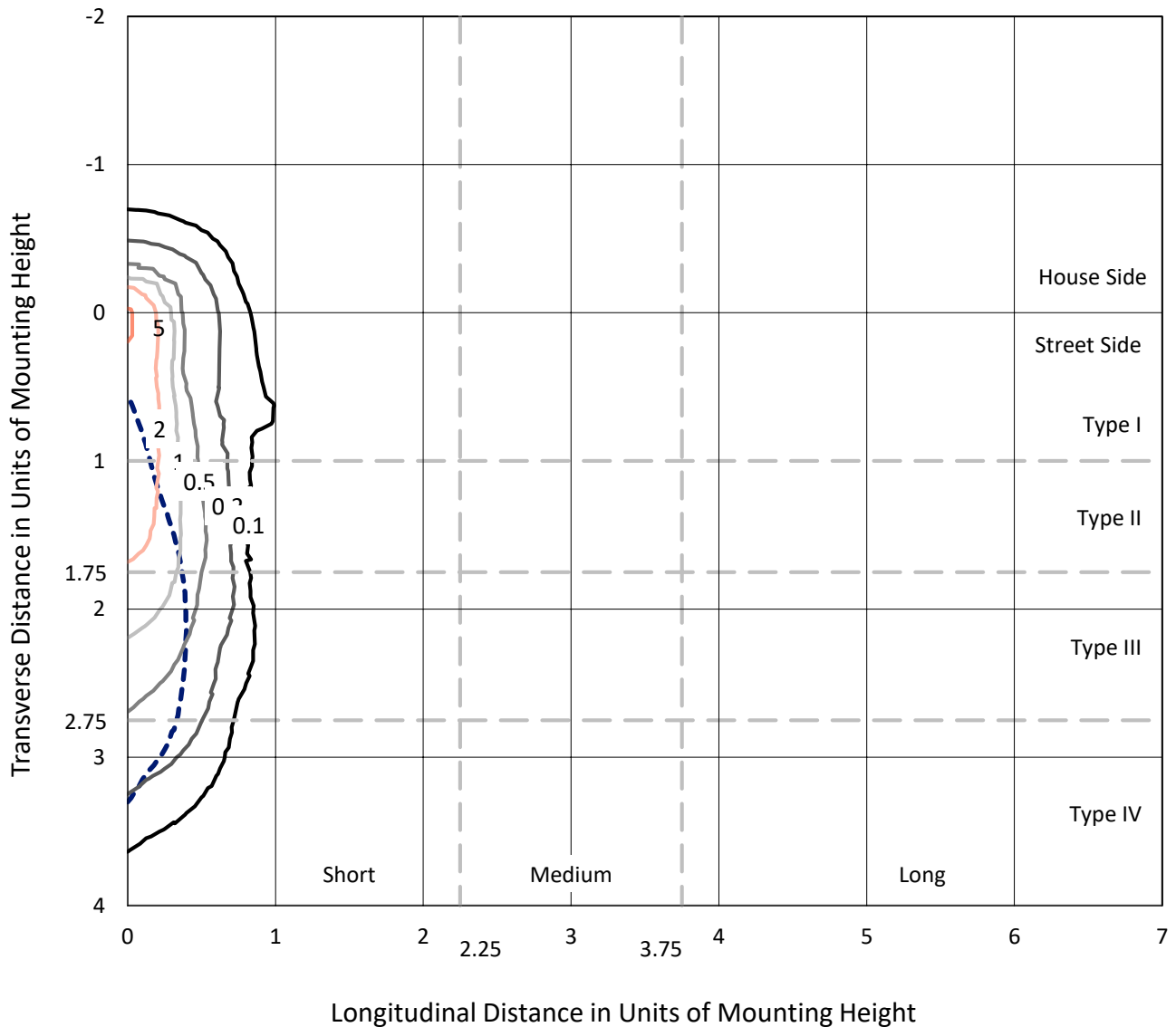
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

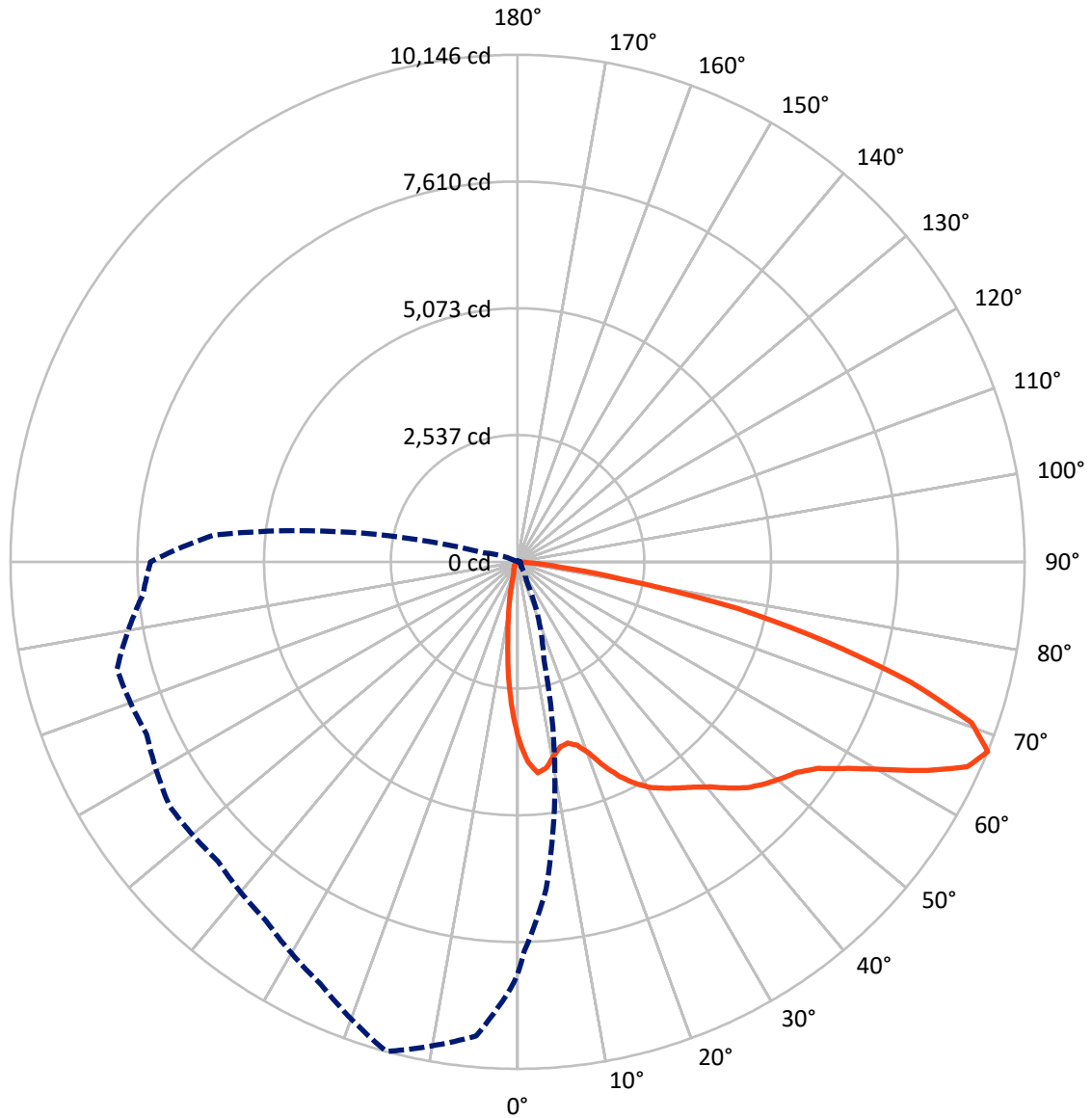
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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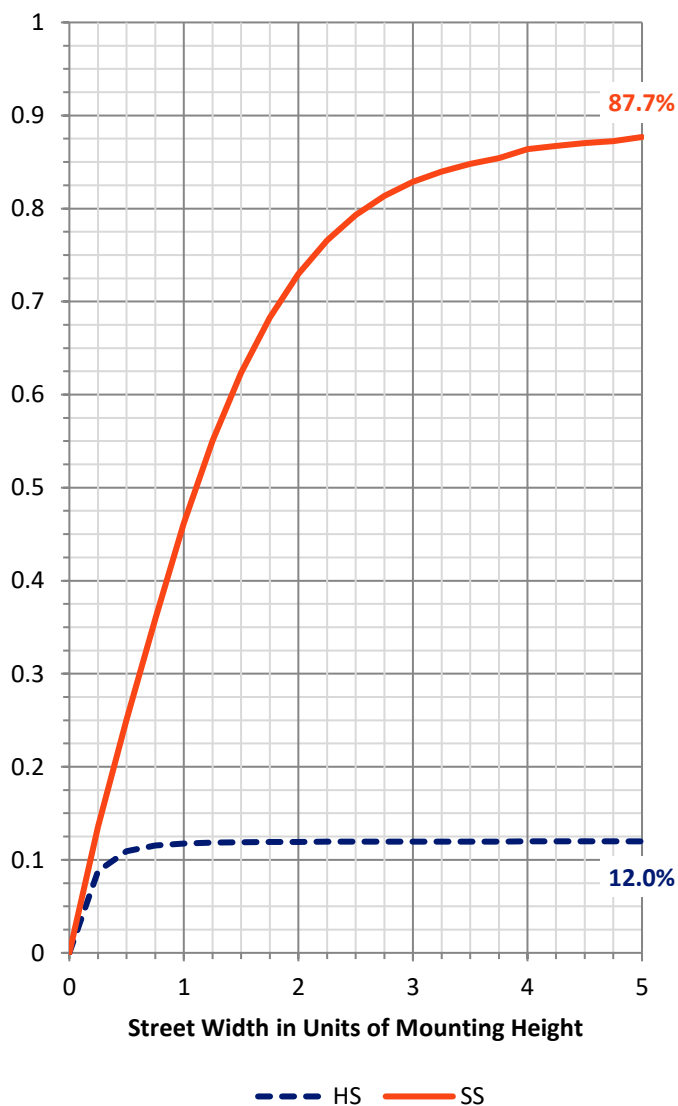
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1326.8	0.0	1326.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9635.6	0.0	9635.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	10962.4	0.0	10962.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	2.5
10°-20°	545.5	5.0
20°-30°	774.7	7.1
30°-40°	1144.2	10.4
40°-50°	1650.2	15.1
50°-60°	2316.5	21.1
60°-70°	2700.4	24.6
70°-80°	1380.5	12.6
80°-90°	176.3	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°	10962.4	100.0
0°-180°	10962.4	100.0

Coefficient of Utilization

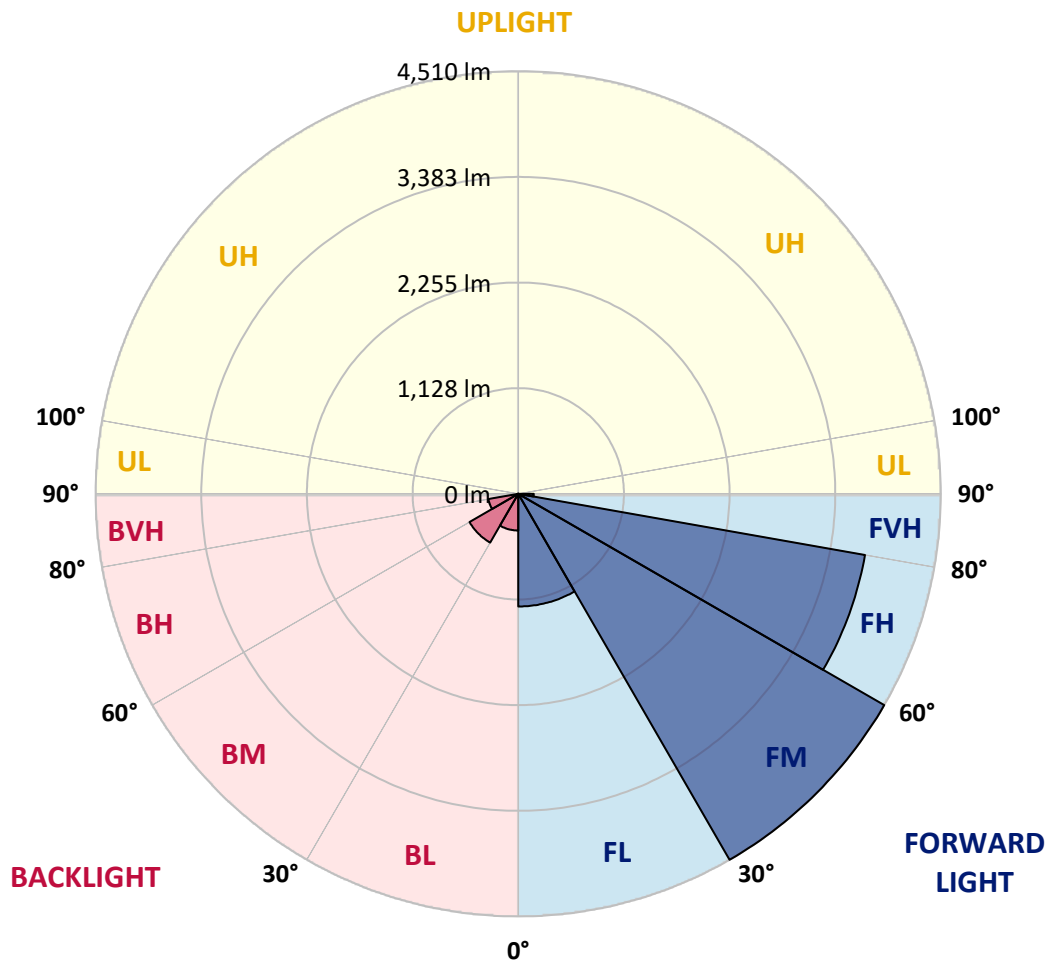


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.4	11.0			
FM (30°-60°)	4510.1	41.1			
FH (60°-80°)	3757.5	34.3			G2/5000
FVH (80°-90°)	165.6	1.5			G2/225
BL (0°-30°)	391.9	3.6	B1/500		
BM (30°-60°)	600.8	5.5	B1/1000		
BH (60°-80°)	323.4	2.9	B1/500		G1/500
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0
2.5°	3910.2	3880.0	3846.7	3738.2	3637.5	3522.2	3428.2	3362.7	3280.7	3174.2	3147.2
5°	3882.0	3849.9	3745.5	3504.0	3292.6	3087.0	2888.5	2772.3	2627.9	2481.5	2445.0
7.5°	3600.1	3566.3	3415.7	3084.9	2800.3	2503.3	2245.7	2086.2	1923.1	1789.1	1718.0
10°	3306.6	3269.8	3100.5	2699.1	2348.4	2080.0	1890.9	1738.7	1584.5	1441.2	1326.9
12.5°	3104.7	3056.3	2872.5	2417.6	2112.2	1929.9	1753.3	1571.1	1362.2	1208.5	1082.8
15°	3020.0	2964.9	2770.7	2309.0	2028.5	1814.6	1584.5	1360.7	1116.1	940.0	824.7
17.5°	3085.4	3013.7	2805.4	2301.8	1923.6	1632.3	1341.4	1078.6	813.3	635.1	553.1
20°	3307.6	3213.7	2949.4	2299.6	1796.4	1415.8	1047.0	749.9	535.9	431.0	388.0
22.5°	3657.7	3533.6	3156.1	2316.3	1665.0	1188.3	756.1	509.5	402.5	347.9	322.5
25°	4080.5	3936.6	3453.6	2375.0	1549.7	967.0	549.4	402.5	339.6	299.7	278.3
27.5°	4482.4	4365.6	3829.6	2459.6	1460.4	788.4	446.1	341.2	290.3	263.8	246.7
30°	4883.9	4736.9	4215.5	2560.4	1352.9	667.4	392.1	311.0	260.2	232.1	221.2
32.5°	5175.8	5053.7	4517.7	2633.1	1238.1	588.5	350.5	284.6	243.0	214.4	198.4
35°	5519.0	5380.9	4776.9	2649.1	1164.3	538.5	315.2	256.0	210.8	185.4	168.2
37.5°	5889.9	5717.9	5076.1	2613.8	1106.7	514.1	288.8	243.0	196.8	170.8	152.7
40°	6300.1	6105.9	5363.3	2563.0	1050.1	505.8	268.5	233.2	185.9	159.5	140.8
42.5°	6732.2	6503.2	5612.0	2509.5	1014.3	477.2	266.4	223.3	177.6	149.0	130.3
45°	7095.2	6863.1	5867.5	2491.8	988.8	446.1	275.3	216.6	171.9	140.8	122.6
47.5°	7384.6	7164.8	6129.3	2531.3	974.3	417.5	250.9	225.4	168.8	133.5	115.8
50°	7729.9	7481.2	6498.0	2649.1	953.0	389.0	226.9	258.1	168.8	128.8	110.1
52.5°	8163.1	7916.9	6909.3	2832.0	910.4	349.5	204.1	258.6	170.4	122.6	102.8
55°	8707.8	8529.2	7496.7	3032.5	842.4	291.4	176.6	222.3	164.1	111.1	96.0
57.5°	9230.2	9084.4	8032.2	3169.6	751.5	227.5	153.7	179.1	150.1	97.6	85.7
59°	9373.0	9213.7	8228.5	3175.7	683.5	198.4	142.3	148.0	147.0	91.4	79.5
60°	9373.0	9203.8	8285.1	3142.6	634.1	182.3	135.1	131.9	153.2	87.3	75.8
62.5°	9203.2	8965.4	8101.2	2917.7	517.3	155.3	117.9	109.1	137.6	78.4	67.0
65°	8850.1	8503.7	7474.9	2511.0	461.2	142.3	101.8	89.3	95.6	69.0	58.7
67.5°	8261.2	7791.7	6571.8	2028.5	438.9	138.7	87.8	75.8	72.2	59.2	51.4
70°	7224.1	6703.1	5475.5	1594.9	419.7	137.1	73.8	63.9	58.1	49.8	43.6
72.5°	5257.8	4714.6	3887.3	1247.0	408.2	140.2	59.2	53.5	47.8	38.9	33.7
75°	3007.5	2651.7	2184.9	823.7	347.9	134.0	45.7	44.6	34.3	28.0	23.4
77.5°	1553.9	1506.6	1309.3	316.3	166.7	58.7	30.1	26.0	20.2	17.1	14.1
80°	670.4	663.2	573.8	91.4	44.2	32.7	17.1	10.9	9.3	7.3	5.7
82.5°	231.6	231.6	204.1	30.6	19.7	16.1	2.0	0.0	0.0	0.0	0.0
85°	46.8	52.4	36.9	0.0	6.7	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°	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0
2.5°	3114.5	3051.7	3047.5	3008.1	2958.7	2936.3	2923.4	2946.2	2974.2	2977.4	3019.4
5°	2417.6	2351.6	2379.1	2309.0	2323.0	2309.0	2286.1	2290.3	2302.8	2263.8	2312.1
7.5°	1697.7	1647.9	1679.6	1660.9	1685.8	1695.7	1681.6	1660.9	1599.6	1592.3	1634.4
10°	1279.7	1223.0	1189.3	1154.0	1161.7	1177.8	1172.6	1157.6	1118.7	1120.7	1161.3
12.5°	1028.3	964.9	897.9	811.2	790.0	801.9	790.0	781.1	743.7	746.8	782.7
15°	780.1	728.1	658.0	588.5	550.5	554.2	520.9	497.5	474.2	446.1	467.9
17.5°	526.6	494.9	474.2	453.4	408.2	397.8	355.8	310.6	292.9	279.9	289.2
20°	372.9	355.8	347.5	346.4	320.5	307.4	266.4	238.4	229.5	226.9	232.7
22.5°	311.6	299.1	287.2	280.5	267.4	252.4	221.2	207.2	201.0	197.9	202.1
25°	271.1	261.8	249.3	237.8	232.7	216.6	194.2	183.9	179.7	176.6	178.7
27.5°	241.0	232.7	218.2	210.8	206.7	192.6	173.5	165.2	161.5	160.5	159.9
30°	217.1	209.3	195.8	187.5	180.3	167.8	156.3	148.0	144.4	143.4	142.3
32.5°	193.2	187.0	178.1	169.8	162.0	150.6	140.8	134.0	128.3	127.2	126.7
35°	163.1	156.9	152.1	151.7	144.4	133.5	126.2	117.4	112.7	111.1	111.7
37.5°	144.9	136.6	126.2	129.9	127.7	120.0	110.1	101.3	96.6	95.6	95.6
40°	133.5	124.6	112.7	106.5	112.7	111.1	95.6	86.7	82.1	81.5	80.5
42.5°	122.6	113.7	100.2	89.8	93.0	97.6	82.5	74.2	69.6	68.6	67.0
45°	114.8	105.5	90.4	78.4	72.2	82.1	70.6	60.3	57.7	55.6	54.5
47.5°	107.5	98.7	81.5	68.0	57.7	59.2	56.6	49.4	46.2	44.2	43.6
50°	101.3	91.9	73.8	58.1	47.8	43.6	45.7	38.9	36.3	34.3	33.3
52.5°	94.0	85.1	65.4	50.4	40.0	34.3	34.8	30.6	28.0	26.5	26.0
55°	88.3	79.5	58.7	44.2	35.3	28.0	25.0	23.8	22.4	21.3	20.8
57.5°	80.5	72.2	52.0	37.4	30.1	22.8	19.2	19.2	18.7	17.7	17.1
59°	75.8	68.6	47.8	33.7	27.5	19.7	17.1	17.7	17.1	16.1	15.6
60°	72.2	65.4	44.6	31.2	26.0	18.2	15.6	16.6	16.1	15.1	14.5
62.5°	63.9	59.2	38.5	26.0	22.8	14.5	12.9	14.1	14.1	13.5	12.9
65°	56.1	50.9	32.7	21.8	21.3	12.5	10.4	12.5	12.9	11.9	10.9
67.5°	48.8	43.6	28.6	17.7	19.7	9.9	7.8	10.4	14.1	10.9	9.9
70°	41.5	36.3	22.4	14.1	20.8	6.7	6.2	9.3	16.6	11.9	9.3
72.5°	32.2	28.0	15.6	10.4	22.4	4.7	4.7	7.8	18.7	12.9	8.8
75°	22.4	18.2	9.3	6.2	18.2	3.1	3.1	7.3	17.7	11.9	8.3
77.5°	12.9	9.9	3.1	0.6	9.3	0.0	0.6	5.2	12.5	7.3	3.6
80°	4.7	2.0	0.0	0.0	5.7	0.0	0.0	0.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0
2.5°	3030.3	3100.5	3163.3	3258.4	3371.1	3500.8	3612.5	3732.5	3845.2	3891.9	3924.1
5°	2322.0	2408.7	2510.0	2649.7	2835.6	3064.6	3279.1	3521.6	3782.4	3912.7	4035.3
7.5°	1641.7	1729.9	1855.6	2004.1	2229.0	2501.7	2782.2	3117.1	3470.2	3676.4	3879.5
10°	1180.5	1289.0	1406.4	1609.4	1837.9	2096.5	2385.3	2759.2	3152.9	3381.4	3626.0
12.5°	803.5	927.0	1104.6	1332.1	1600.6	1854.1	2104.9	2461.7	2918.7	3145.2	3407.4
15°	482.0	550.5	738.5	1001.8	1331.1	1646.8	1921.6	2279.4	2766.5	3043.8	3316.5
17.5°	297.1	328.7	431.0	647.1	992.9	1392.4	1768.9	2217.5	2788.3	3125.9	3417.8
20°	236.8	249.3	282.0	382.2	658.0	1111.9	1597.0	2205.2	2966.5	3382.0	3695.1
22.5°	205.7	217.6	239.4	277.9	413.9	832.5	1433.9	2216.5	3222.0	3765.8	4131.4
25°	181.3	191.6	212.4	244.1	303.3	586.3	1259.4	2267.5	3554.9	4242.0	4630.4
27.5°	162.0	170.8	190.0	219.2	260.2	409.2	1061.5	2329.2	3949.6	4729.1	5112.4
30°	144.4	152.1	169.3	196.3	225.9	314.7	844.4	2371.3	4344.8	5112.4	5456.7
32.5°	129.3	135.1	150.6	173.5	196.3	250.9	641.9	2364.5	4638.3	5431.3	5704.4
35°	113.7	119.4	132.9	152.7	170.8	207.2	504.8	2238.3	4893.8	5762.1	5988.0
37.5°	96.6	103.9	116.8	134.5	147.0	182.3	408.2	2086.2	5152.9	6140.2	6304.3
40°	82.1	89.3	100.8	120.0	127.7	172.9	313.7	1900.8	5444.2	6562.9	6651.2
42.5°	68.0	74.8	86.7	103.3	120.4	149.0	232.1	1688.9	5724.2	6924.4	6967.5
45°	55.1	61.8	74.2	90.9	128.8	123.6	179.7	1462.0	5950.1	7225.1	7239.1
47.5°	43.6	49.8	62.9	85.7	120.0	98.7	128.3	1283.9	6139.6	7459.8	7422.9
50°	33.7	38.9	52.4	98.2	104.9	81.5	97.2	1224.6	6309.5	7605.2	7509.7
52.5°	26.5	31.2	43.1	91.9	81.5	67.5	81.5	1280.1	6542.2	7725.7	7558.5
55°	21.3	26.0	33.7	52.4	55.6	57.1	69.6	1332.1	6943.6	8008.2	7846.7
57.5°	17.7	22.4	27.5	36.9	42.1	48.3	61.8	1337.8	7416.7	8477.7	8325.1
59°	16.1	20.2	25.0	32.7	36.9	44.2	58.1	1306.7	7583.4	8648.6	8572.3
60°	15.1	19.2	23.4	30.1	34.3	41.5	56.1	1277.1	7590.7	8642.3	8677.7
62.5°	12.9	17.1	20.8	25.4	29.1	35.3	50.4	1167.5	7283.2	8359.3	8614.3
65°	11.5	15.1	18.7	21.8	25.0	31.7	45.7	967.5	6758.2	7902.9	8180.7
67.5°	10.4	12.9	17.1	19.2	22.4	28.0	40.5	689.7	6102.3	7344.5	7524.8
70°	9.3	12.5	15.6	17.7	20.2	24.4	34.8	396.3	5152.9	6527.1	6655.3
72.5°	8.8	11.9	14.1	16.6	18.2	21.8	31.7	186.4	3773.0	5228.8	5563.8
75°	7.8	10.9	12.9	15.6	17.1	19.7	27.0	89.3	2509.5	3783.9	4164.6
77.5°	4.7	8.8	11.9	14.1	15.1	17.1	22.4	51.4	1601.6	2619.0	3084.9
80°	0.0	3.1	8.8	11.9	12.9	14.5	17.1	40.5	856.9	1496.3	1795.9
82.5°	0.0	0.0	6.2	9.3	8.8	9.9	12.9	25.4	386.4	977.9	1102.0
85°	0.0	0.0	2.0	7.3	6.2	4.7	8.8	8.8	84.7	494.9	617.5
87.5°	0.0	0.0	0.0	0.6	3.1	2.0	3.6	1.0	0.6	36.9	149.6
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: P382920

CATALOG NUMBER: GLEON-SA2D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0	3571.0
2.5°	4036.9	4075.2	4140.2	4170.8	4155.8	4091.9	4015.5	3937.7	3891.9	3910.2
5°	4285.1	4483.0	4597.2	4635.1	4571.8	4428.4	4241.0	3993.7	3906.0	3882.0
7.5°	4285.1	4657.5	4893.2	4934.8	4793.6	4512.6	4160.9	3775.1	3646.8	3600.1
10°	4134.5	4641.3	4970.1	5036.0	4838.7	4418.6	3947.5	3507.1	3355.0	3306.6
12.5°	3964.7	4510.5	4856.9	4947.7	4785.7	4325.1	3799.5	3325.9	3146.7	3104.7
15°	3860.2	4349.5	4636.1	4702.2	4633.6	4270.6	3764.2	3271.3	3060.5	3020.0
17.5°	3897.7	4224.8	4328.2	4366.6	4412.8	4251.3	3860.2	3390.7	3123.9	3085.4
20°	4038.4	4093.5	4039.9	4088.3	4212.9	4270.0	4089.3	3679.5	3359.1	3307.6
22.5°	4277.3	4025.4	3875.3	3894.5	4046.2	4331.8	4439.4	4091.9	3722.1	3657.7
25°	4555.6	4080.5	3783.9	3766.8	3922.6	4413.4	4759.3	4540.6	4151.6	4080.5
27.5°	4905.7	4204.1	3765.2	3748.1	3879.5	4489.7	5025.1	4984.2	4604.0	4482.4
30°	5175.8	4325.6	3820.8	3781.3	3922.6	4542.7	5238.7	5360.7	4964.4	4883.9
32.5°	5369.4	4468.9	3911.2	3854.0	4044.1	4634.1	5403.3	5705.4	5297.8	5175.8
35°	5517.0	4624.8	4057.1	3963.1	4211.3	4772.8	5557.5	6072.7	5652.5	5519.0
37.5°	5655.1	4843.4	4285.1	4173.0	4473.6	4996.1	5720.5	6489.2	6049.3	5889.9
40°	5847.8	5091.1	4636.7	4537.0	4914.6	5300.4	5924.2	6923.4	6500.6	6300.1
42.5°	6040.4	5357.1	4996.6	5023.6	5464.6	5670.1	6187.0	7382.4	6946.2	6732.2
45°	6216.5	5631.2	5509.2	5633.8	5975.0	6075.8	6448.2	7647.8	7301.9	7095.2
47.5°	6373.4	5974.0	6018.6	6350.5	6555.7	6443.0	6643.4	7876.9	7566.8	7384.6
50°	6555.7	6417.5	6690.2	7159.7	7224.1	6775.3	6821.1	8148.0	7876.3	7729.9
52.5°	6755.1	6884.9	7433.8	7847.8	7827.0	7136.3	6999.7	8451.7	8300.6	8163.1
55°	6981.5	7262.4	8088.7	8491.8	8474.1	7539.3	7295.7	8827.3	8832.5	8707.8
57.5°	7317.5	7587.5	8533.3	9012.6	9042.3	8004.6	7797.4	9247.9	9313.3	9230.2
59°	7558.5	7798.5	8709.4	9230.2	9350.8	8364.6	8164.1	9492.0	9448.9	9373.0
60°	7737.2	7932.4	8796.6	9344.0	9529.9	8608.6	8434.6	9635.4	9465.0	9373.0
62.5°	8179.1	8224.3	8953.9	9472.8	9736.1	9150.8	9196.0	9879.4	9353.4	9203.2
65°	8385.3	8408.7	8951.9	9242.3	9536.7	9573.0	9886.7	9886.7	9080.7	8850.1
67.5°	8299.1	8186.4	8507.8	8477.7	8771.7	9322.2	10146.4	9524.2	8559.2	8261.2
70°	7598.0	7164.3	7021.5	7034.5	7259.4	8108.5	9632.2	8457.5	7572.6	7224.1
72.5°	6321.9	5281.7	4929.1	5331.5	5390.2	6231.6	8208.7	6369.2	5584.5	5257.8
75°	5084.9	3723.2	3149.8	3574.6	3674.3	4560.4	6350.0	3966.7	3262.0	3007.5
77.5°	3653.1	2672.5	2260.2	2230.6	2359.3	2892.2	4505.8	1996.3	1665.0	1553.9
80°	2075.3	1759.0	1894.0	1787.1	1852.0	1808.3	2140.7	875.7	717.2	670.4
82.5°	1252.7	1039.7	1126.0	937.4	1186.1	1033.0	824.7	280.5	243.6	231.6
85°	814.8	568.2	296.0	198.4	408.8	660.1	184.4	76.4	58.7	46.8
87.5°	281.0	144.9	14.5	6.2	43.6	123.1	6.7	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)