

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: P382610

Luminaire Tested: **GLEON-SA0A-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382610  
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-SA0A-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA 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: 31855.2 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

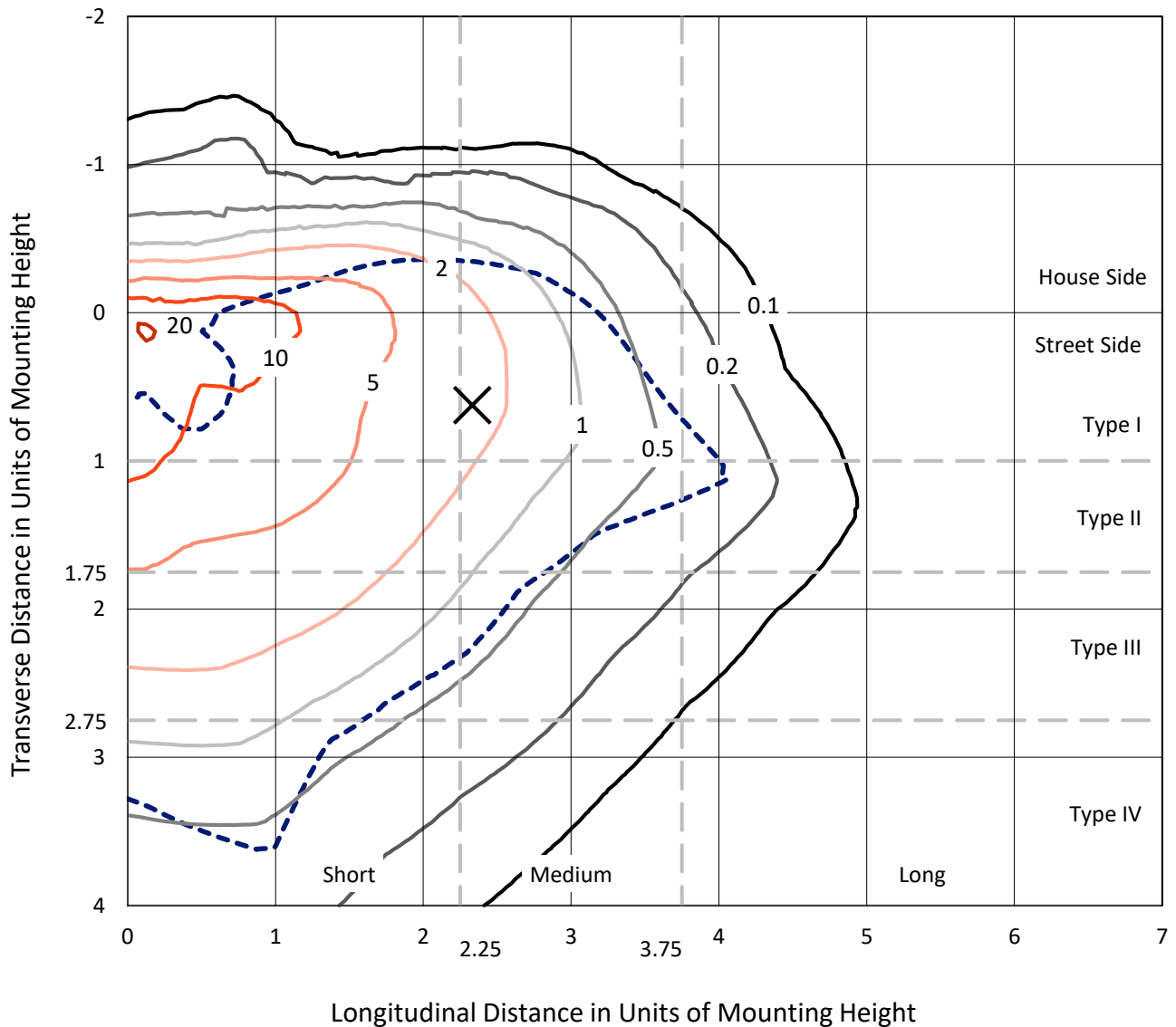
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

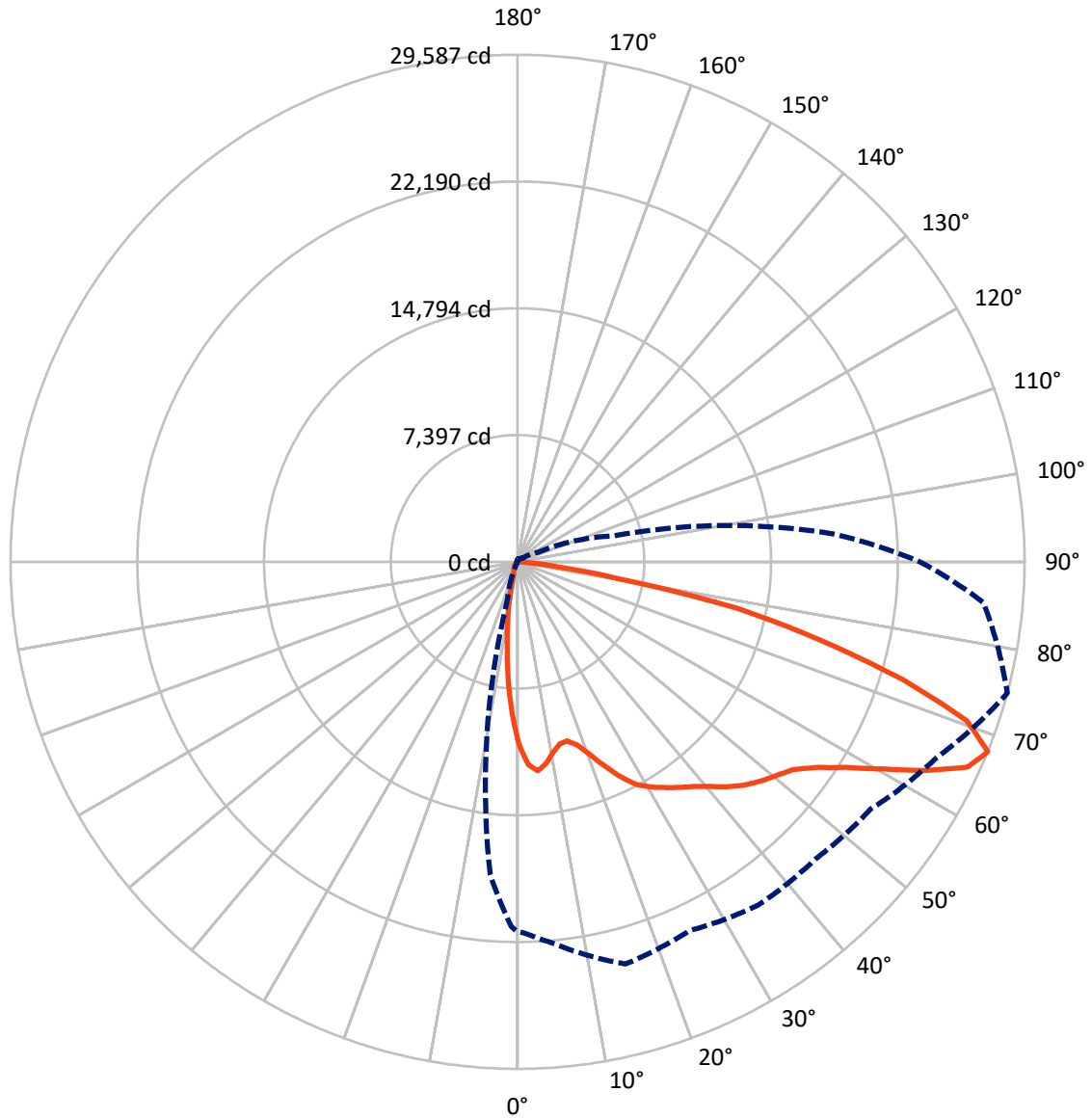
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 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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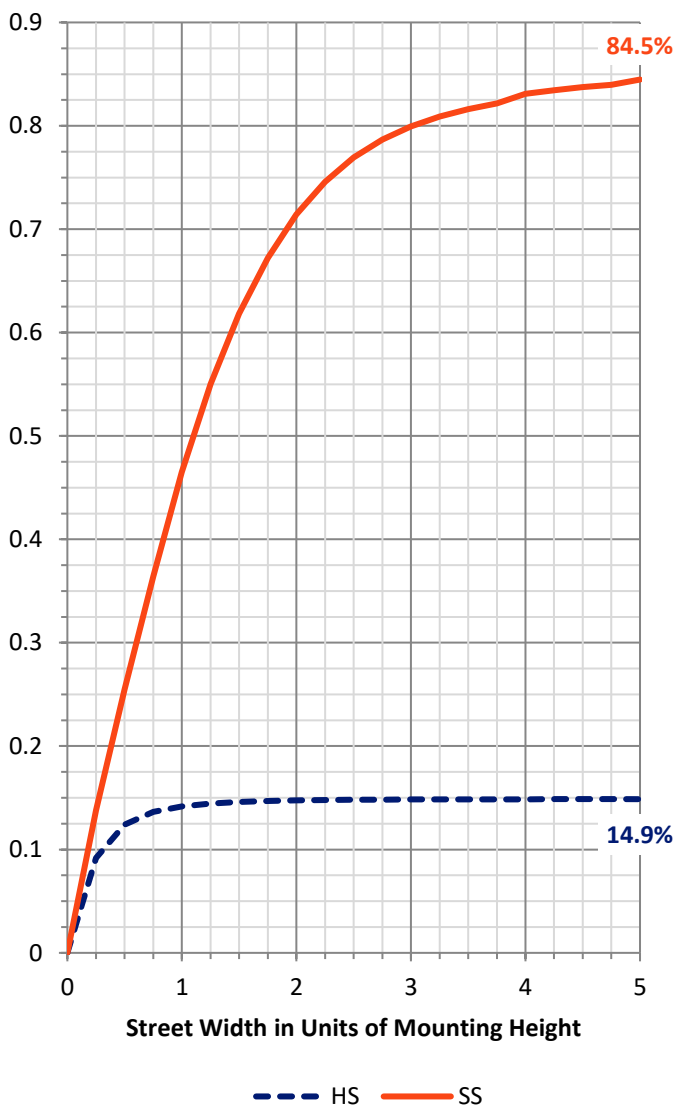
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4780.2	0.0	4780.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	27075.0	0.0	27075.0
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	31855.2	0.0	31855.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	810.6	2.5
10°-20°	1596.2	5.0
20°-30°	2258.1	7.1
30°-40°	3320.1	10.4
40°-50°	4772.1	15.0
50°-60°	6717.8	21.1
60°-70°	7845.8	24.6
70°-80°	4002.7	12.6
80°-90°	531.7	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°	31855.2	100.0
0°-180°	31855.2	100.0

**Coefficient of Utilization**

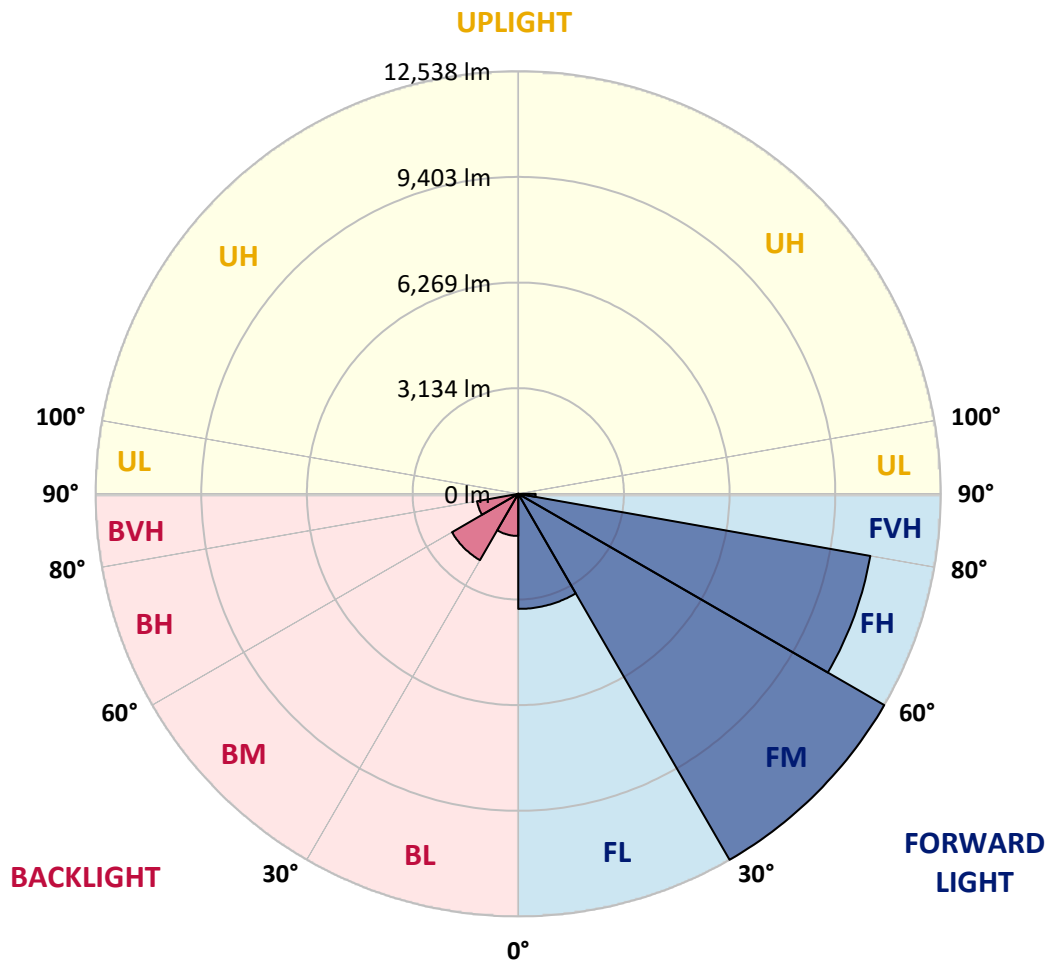


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3414.9	10.7			
FM (30°-60°)	12537.6	39.4			
FH (60°-80°)	10606.9	33.3			G4/12000
FVH (80°-90°)	515.6	1.6			G4/750
BL (0°-30°)	1250.1	3.9	B3/2500		
BM (30°-60°)	2272.4	7.1	B2/2500		
BH (60°-80°)	1241.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	16.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9
2.5°	11584.7	11602.9	11696.4	11913.7	12150.6	12168.7	12328.7	12164.2	12108.3	11842.8	11568.1
5°	11672.3	11741.7	12063.1	12701.4	13255.3	13433.3	13560.1	13237.1	12897.6	12248.7	11556.0
7.5°	10967.6	11083.7	11589.3	12787.4	13777.3	14215.0	14298.0	13792.4	12961.0	11892.6	10851.3
10°	10065.2	10197.9	10807.6	12280.4	13640.0	14390.0	14504.7	13842.2	12647.1	11316.2	10089.3
12.5°	9334.8	9490.2	10113.4	11710.0	13167.7	13997.6	14224.0	13674.7	12375.4	10907.2	9568.7
15°	8998.3	9176.3	9831.3	11341.8	12644.1	13297.5	13484.6	13247.7	12224.6	10842.3	9447.9
17.5°	9191.4	9384.6	10060.6	11373.5	12152.1	12431.3	12582.2	12678.7	12224.6	11233.2	9801.1
20°	9983.7	10191.9	10907.2	11694.9	11744.7	11640.6	11802.1	12141.6	12366.4	11975.6	10649.2
22.5°	11079.2	11323.7	12131.0	12245.7	11545.5	11151.6	11172.8	11705.5	12624.4	12917.2	11826.2
25°	12414.7	12713.5	13534.4	13066.6	11628.5	10860.4	10852.9	11346.3	12876.5	13860.3	13137.5
27.5°	13741.2	14070.1	14791.4	14068.6	11971.0	10807.6	10792.5	11237.6	13122.4	14699.4	14569.6
30°	14853.2	15173.2	15794.9	14794.5	12340.8	10931.3	10858.9	11353.9	13268.8	15244.1	15613.9
32.5°	15758.7	16015.3	16517.7	15293.9	12736.1	11171.3	11014.3	11664.7	13517.8	15704.4	16573.5
35°	16754.6	17024.8	17225.4	15769.2	13179.8	11516.8	11292.0	12158.2	13901.1	16172.1	17625.3
37.5°	17890.9	18159.5	18135.4	16203.8	13742.7	12088.8	11945.4	12939.8	14497.1	16635.4	18799.4
40°	19003.1	19277.7	19081.5	16679.2	14403.6	13031.9	12926.2	14113.9	15295.5	17228.5	20175.6
42.5°	20044.3	20341.6	19922.1	17128.9	15191.3	14221.0	14402.1	15625.9	16294.4	17958.8	21361.7
45°	20883.3	21186.7	20626.8	17566.5	16021.2	15663.6	16208.4	17300.9	17495.6	18576.0	22163.0
47.5°	21492.9	21779.7	21115.7	18004.1	17083.7	17427.7	18376.8	19057.4	18580.6	19111.7	22731.9
50°	21882.3	22105.6	21259.0	18551.9	18477.9	19485.9	20635.8	20967.8	19602.2	19594.6	23423.0
52.5°	22129.8	22230.9	21364.7	19123.8	19932.6	21726.9	22848.1	22952.2	20654.0	20125.8	24354.1
55°	22982.4	23063.8	22113.2	19816.4	21135.3	23690.1	24849.0	24752.4	21844.6	21165.5	25452.7
57.5°	24437.1	24523.1	23659.9	20812.4	22108.6	24903.3	26299.2	26472.7	23240.4	22626.3	26629.7
60°	25167.4	25327.4	25019.5	22074.0	23051.8	25678.9	27287.6	27841.4	24984.9	24551.8	27770.5
62.5°	24505.0	24737.3	25184.0	23472.8	23988.8	26106.1	27595.4	28331.8	26771.5	26795.7	28473.7
65°	23183.1	23368.7	24126.2	24239.3	24532.1	26053.2	26834.9	27646.7	27865.6	28857.0	28436.0
67.5°	21586.6	21656.0	22298.7	24299.7	23744.4	24465.7	24550.2	25150.9	27000.9	29587.3	27293.6
70°	19288.3	19326.0	19887.3	22279.2	20405.0	20563.4	20438.2	20560.4	23213.2	27808.2	24409.9
72.5°	15523.3	15618.3	16416.7	18502.1	14865.4	14408.2	15392.0	15337.7	17877.3	23493.9	18129.3
75°	11429.3	11593.8	12799.5	14903.1	10433.3	9437.4	10155.7	10347.4	12708.9	18173.1	11337.3
77.5°	8002.4	8124.6	9292.6	10955.5	7551.1	6748.3	6488.8	6716.6	8388.7	13146.6	5711.6
80°	4610.0	4655.3	5400.7	6325.8	5088.4	5821.8	5274.0	5430.9	5026.5	5849.0	2456.7
82.5°	3016.5	3024.1	3315.3	3765.0	3168.9	3682.0	2725.2	3484.4	3092.0	2349.5	799.8
85°	1629.7	1638.8	1922.5	2672.5	1794.3	1014.1	596.1	1223.8	1911.9	538.7	218.8
87.5°	179.6	164.5	579.4	971.8	498.0	92.0	31.7	137.3	306.3	34.7	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°	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9
2.5°	11427.8	11302.6	10990.2	10659.7	10394.1	10145.1	9894.6	9588.3	9351.4	9303.1	9224.7
5°	11183.3	10786.5	10131.5	9473.7	8944.0	8275.5	7851.5	7520.9	7198.1	7178.4	7113.5
7.5°	10329.3	9807.1	8885.1	7975.2	7229.7	6592.9	5950.1	5520.0	5182.0	5062.8	4991.8
10°	9508.3	8921.3	7769.9	6731.7	6066.2	5503.4	5050.7	4601.0	4193.5	3912.9	3786.1
12.5°	8934.9	8286.0	7017.0	6122.1	5645.3	5111.0	4558.7	3997.4	3528.1	3190.1	2983.4
15°	8713.0	8020.4	6764.9	5880.7	5292.1	4616.1	3909.9	3268.5	2747.9	2441.6	2256.0
17.5°	8977.1	8171.3	6745.3	5586.4	4763.9	3923.5	3143.3	2385.8	1895.3	1662.9	1543.8
20°	9647.2	8651.2	6737.8	5225.7	4136.3	3102.5	2129.2	1569.4	1272.1	1142.4	1086.5
22.5°	10594.9	9263.9	6798.2	4869.6	3482.8	2216.7	1469.8	1152.9	1000.5	931.1	899.4
25°	11814.1	10124.0	6968.6	4546.7	2868.6	1653.9	1145.3	965.7	858.6	804.3	781.7
27.5°	13113.4	11113.9	7234.2	4266.0	2369.2	1318.9	980.8	826.9	750.0	712.3	691.1
30°	14184.8	12260.8	7502.9	3953.7	2007.0	1149.9	897.8	754.6	665.5	641.4	621.7
32.5°	15121.9	13128.5	7693.0	3671.4	1770.0	1021.6	811.8	674.5	614.2	567.4	546.3
35°	16092.2	13851.3	7686.9	3473.7	1607.1	925.0	739.5	603.6	531.2	476.9	460.3
37.5°	17142.4	14667.7	7555.7	3304.8	1536.2	848.1	698.7	565.9	493.4	439.1	418.0
40°	18372.4	15524.8	7421.4	3146.3	1516.6	786.2	670.0	535.7	458.8	406.0	384.8
42.5°	19570.5	16297.4	7303.6	3028.6	1432.1	784.7	644.4	513.1	431.6	380.3	356.1
45°	20528.7	17017.2	7281.0	2957.7	1343.0	811.8	630.8	498.0	410.4	359.1	336.5
47.5°	21325.5	17798.9	7425.9	2907.9	1258.5	741.0	664.0	487.4	390.9	341.0	315.4
50°	22273.1	18758.6	7767.0	2826.4	1169.5	667.0	760.5	490.5	374.2	323.0	295.8
52.5°	23595.0	20086.6	8268.0	2689.1	1047.2	599.1	748.5	493.4	356.1	303.3	276.1
55°	25076.9	21744.9	8806.7	2461.2	876.8	510.0	641.4	472.3	321.4	282.2	256.5
57.5°	26634.2	23249.5	9126.6	2189.6	697.2	440.6	513.1	430.1	283.7	253.5	236.9
60°	26878.7	23821.3	8980.2	1856.1	553.8	383.3	380.3	437.6	253.5	223.3	211.3
62.5°	26270.5	23103.1	8272.4	1558.9	463.3	336.5	312.3	381.7	229.3	199.2	187.1
65°	25101.0	21160.9	7125.6	1404.9	430.1	288.2	259.5	268.6	200.7	173.5	162.9
67.5°	23474.3	18568.4	5850.5	1317.4	425.5	247.5	221.8	203.7	173.5	150.9	141.9
70°	20148.4	15469.0	4667.4	1269.0	413.5	208.2	187.1	166.0	144.9	128.3	120.7
72.5°	14829.1	10961.5	3630.7	1216.2	416.5	166.0	162.9	137.3	116.2	99.6	96.6
75°	8568.2	6262.4	2381.2	985.4	396.8	128.3	135.8	96.6	81.5	69.4	69.4
77.5°	4566.3	3819.3	907.0	410.4	144.9	81.5	76.9	57.4	51.3	42.3	40.7
80°	1990.4	1681.1	273.1	114.7	80.0	43.8	28.7	25.6	22.6	18.1	16.6
82.5°	704.7	608.1	89.1	55.8	34.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	159.9	114.7	0.0	13.6	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°	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9
2.5°	9064.7	9031.4	8835.3	8842.8	8877.6	8927.4	8809.6	8864.0	9010.4	9150.7	9203.5
5°	7009.4	7017.0	6897.7	6971.7	7038.0	7083.3	6893.2	6896.2	7012.4	7170.9	7253.9
7.5°	4939.1	4927.0	4933.0	5109.5	5234.8	5144.3	5215.2	4969.2	4984.2	5097.4	5012.9
10°	3671.4	3505.4	3411.9	3544.7	3682.0	3632.2	3510.0	3430.0	3485.9	3611.1	3602.0
12.5°	2885.3	2646.8	2506.5	2411.4	2524.6	2431.1	2428.0	2358.6	2283.1	2296.7	2497.4
15°	2169.9	1996.4	1830.4	1678.0	1675.0	1643.3	1481.8	1300.8	1285.7	1294.8	1398.9
17.5°	1492.4	1433.6	1365.6	1234.4	1199.6	1066.9	909.9	837.5	801.3	817.9	852.6
20°	1048.7	1026.1	1033.6	962.8	912.9	786.2	694.2	665.5	659.4	676.0	692.6
22.5°	869.2	828.4	824.0	792.3	742.4	650.4	600.6	584.0	576.4	591.5	603.6
25°	760.5	719.8	703.2	683.6	630.8	567.4	537.2	522.1	514.6	523.6	531.2
27.5°	670.0	632.2	617.2	603.6	552.3	507.0	482.9	469.3	463.3	466.3	473.9
30°	602.1	568.9	549.2	532.7	488.9	457.2	436.2	422.5	416.5	416.5	424.0
32.5°	531.2	513.1	494.9	473.9	433.1	411.9	390.9	375.8	369.7	371.2	377.3
35°	442.1	436.2	440.6	421.1	386.3	368.2	347.1	330.5	325.9	327.4	333.5
37.5°	392.4	365.2	381.7	371.2	351.6	327.4	300.3	285.2	277.7	282.2	285.2
40°	360.7	327.4	315.4	325.9	323.0	283.7	259.5	244.4	238.4	240.0	242.9
42.5°	333.5	294.3	267.1	265.6	283.7	247.5	221.8	208.2	200.7	200.7	203.7
45°	307.9	265.6	232.4	206.7	238.4	209.8	185.6	173.5	164.5	164.5	166.0
47.5°	288.2	241.5	202.2	169.0	179.6	172.1	152.4	140.4	131.3	131.3	132.8
50°	270.1	217.3	175.0	141.9	134.3	141.9	123.7	110.2	104.1	102.7	105.6
52.5°	250.5	193.1	149.4	120.7	105.6	107.1	96.6	87.6	80.0	80.0	83.0
55°	230.8	173.5	129.8	102.7	87.6	80.0	76.9	70.9	64.9	64.9	67.9
57.5°	211.3	152.4	110.2	84.5	69.4	63.3	63.3	58.9	54.3	54.3	57.4
60°	193.1	131.3	90.5	69.4	54.3	52.8	54.3	49.8	46.8	46.8	49.8
62.5°	172.1	111.7	74.0	57.4	43.8	42.3	46.8	43.8	40.7	40.7	43.8
65°	146.3	95.1	58.9	43.8	33.2	33.2	39.2	36.2	33.2	33.2	36.2
67.5°	123.7	80.0	45.3	31.7	24.1	25.6	33.2	30.2	28.7	28.7	31.7
70°	102.7	61.9	31.7	19.7	13.6	19.7	25.6	25.6	25.6	25.6	28.7
72.5°	76.9	42.3	18.1	7.5	6.1	13.6	21.1	24.1	22.6	22.6	27.2
75°	49.8	24.1	6.1	0.0	0.0	7.5	16.6	19.7	19.7	18.1	22.6
77.5°	28.7	7.5	0.0	0.0	0.0	0.0	10.5	9.0	7.5	6.1	10.5
80°	7.5	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: P382610

CATALOG NUMBER: GLEON-SA0A-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9	10686.9
2.5°	9416.3	9594.4	9844.9	10110.5	10519.4	10843.8	11162.2	11435.3	11540.9	11584.7
5°	7453.0	7714.1	8080.8	8551.6	9289.5	9953.5	10626.5	11304.1	11598.3	11672.3
7.5°	5347.9	5681.4	6147.7	6737.8	7602.5	8462.6	9402.7	10397.2	10852.9	10967.6
10°	3958.1	4365.6	4899.8	5521.5	6346.9	7231.2	8255.8	9392.1	9912.8	10065.2
12.5°	2808.2	3359.1	4074.3	4830.4	5545.7	6334.9	7371.5	8624.1	9170.3	9334.8
15°	1649.4	2182.1	3028.6	4041.1	4957.1	5756.9	6810.2	8230.2	8832.3	8998.3
17.5°	946.2	1211.8	1851.5	2980.3	4223.7	5331.3	6633.6	8328.3	9037.5	9191.4
20°	722.8	807.3	1066.9	1919.5	3366.6	4913.4	6633.6	8883.6	9757.3	9983.7
22.5°	632.2	694.2	799.8	1145.3	2477.8	4465.2	6710.6	9686.4	10828.7	11079.2
25°	561.4	617.2	707.7	861.7	1690.1	3932.5	6893.2	10671.8	12090.3	12414.7
27.5°	502.5	555.3	636.8	754.6	1155.9	3289.7	7139.2	11827.7	13481.5	13741.2
30°	449.7	499.5	573.5	656.5	891.9	2560.8	7348.9	12917.2	14574.2	14853.2
32.5°	399.9	445.2	511.5	573.5	730.3	1893.8	7371.5	13780.4	15481.0	15758.7
35°	353.1	393.9	454.2	502.5	605.1	1495.4	7020.0	14528.9	16388.0	16754.6
37.5°	307.9	347.1	399.9	436.2	532.7	1219.3	6482.7	15363.4	17551.4	17890.9
40°	265.6	300.3	354.6	378.8	504.0	937.1	5898.7	16238.6	18692.2	19003.1
42.5°	226.4	259.5	312.3	359.1	442.1	700.2	5268.0	17059.4	19718.3	20044.3
45°	188.6	223.3	276.1	380.3	366.7	523.6	4593.5	17604.2	20528.7	20883.3
47.5°	152.4	191.6	264.1	362.2	292.8	384.8	4059.2	18120.3	21142.9	21492.9
50°	122.2	161.4	297.3	323.0	240.0	294.3	3835.9	18582.0	21545.8	21882.3
52.5°	99.6	135.8	280.7	247.5	200.7	242.9	3956.7	19330.5	21918.5	22129.8
55°	83.0	107.1	169.0	172.1	170.5	206.7	4106.1	20405.0	22882.8	22982.4
57.5°	72.5	86.0	117.7	132.8	143.4	184.1	4109.1	21947.2	24375.2	24437.1
60°	61.9	75.5	98.1	107.1	123.7	164.5	3959.6	22485.9	24962.2	25167.4
62.5°	54.3	66.4	81.5	89.1	104.1	147.9	3609.6	21705.7	24156.4	24505.0
65°	48.3	60.4	67.9	75.5	92.0	132.8	3033.1	20145.4	22819.4	23183.1
67.5°	42.3	52.8	60.4	67.9	83.0	117.7	2233.4	18333.0	21284.7	21586.6
70°	37.7	46.8	54.3	60.4	72.5	99.6	1355.1	15556.5	19163.1	19288.3
72.5°	36.2	42.3	49.8	54.3	63.3	87.6	686.6	11432.3	15319.6	15523.3
75°	31.7	37.7	45.3	48.3	55.8	75.5	279.2	7508.9	11101.8	11429.3
77.5°	25.6	34.7	40.7	43.8	48.3	61.9	141.9	4798.7	7791.1	8002.4
80°	9.0	25.6	34.7	36.2	40.7	45.3	93.5	2627.2	4519.5	4610.0
82.5°	0.0	16.6	27.2	25.6	28.7	34.7	60.4	1249.5	2983.4	3016.5
85°	0.0	7.5	21.1	16.6	12.1	24.1	21.1	273.1	1564.8	1629.7
87.5°	0.0	0.0	1.5	7.5	6.1	9.0	3.0	1.5	141.9	179.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)