

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: P383419

Luminaire Tested: **GLEON-SA7B-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37656.9 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

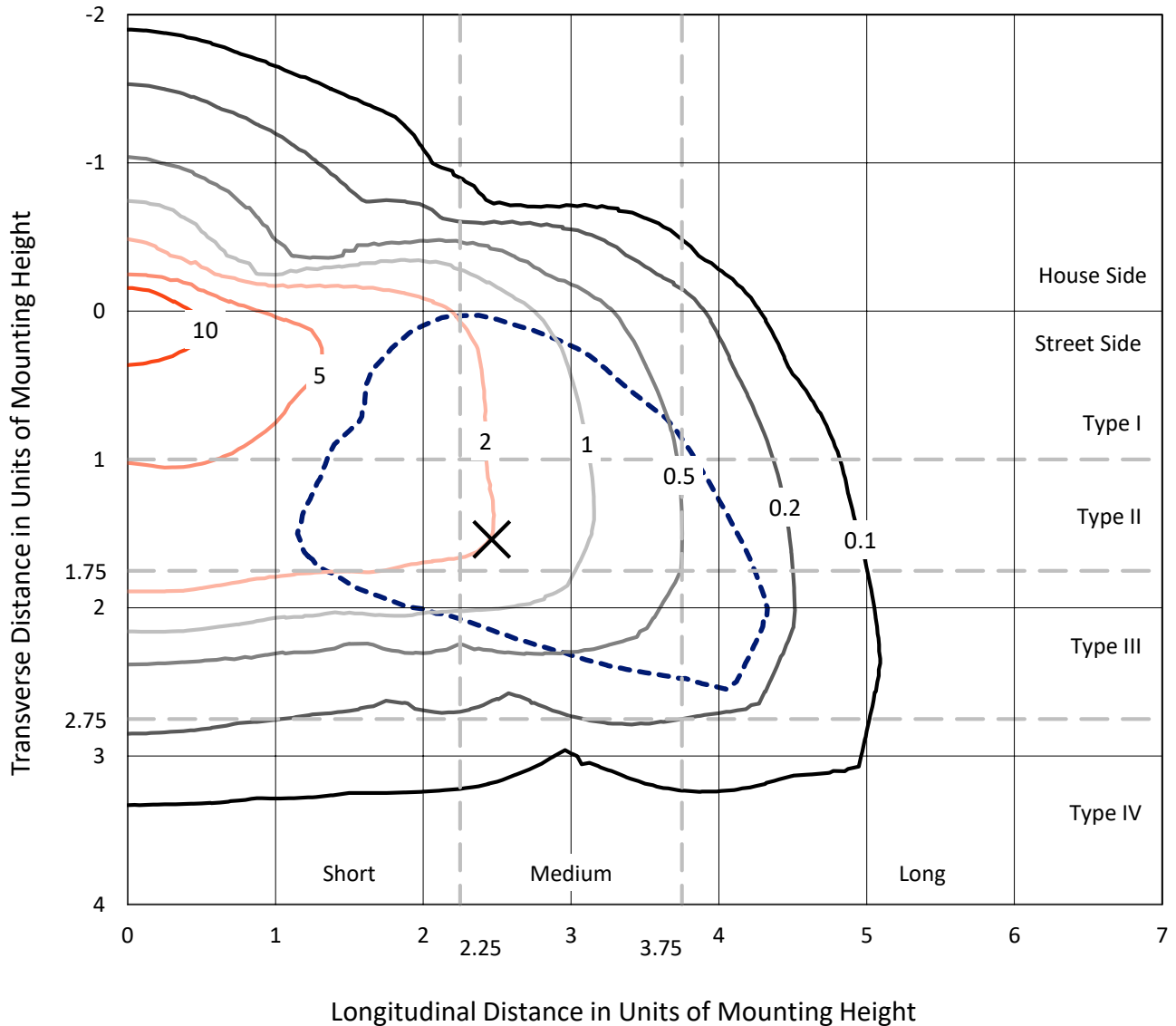
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383419  
 CATALOG NUMBER: GLEON-SA7B-735-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

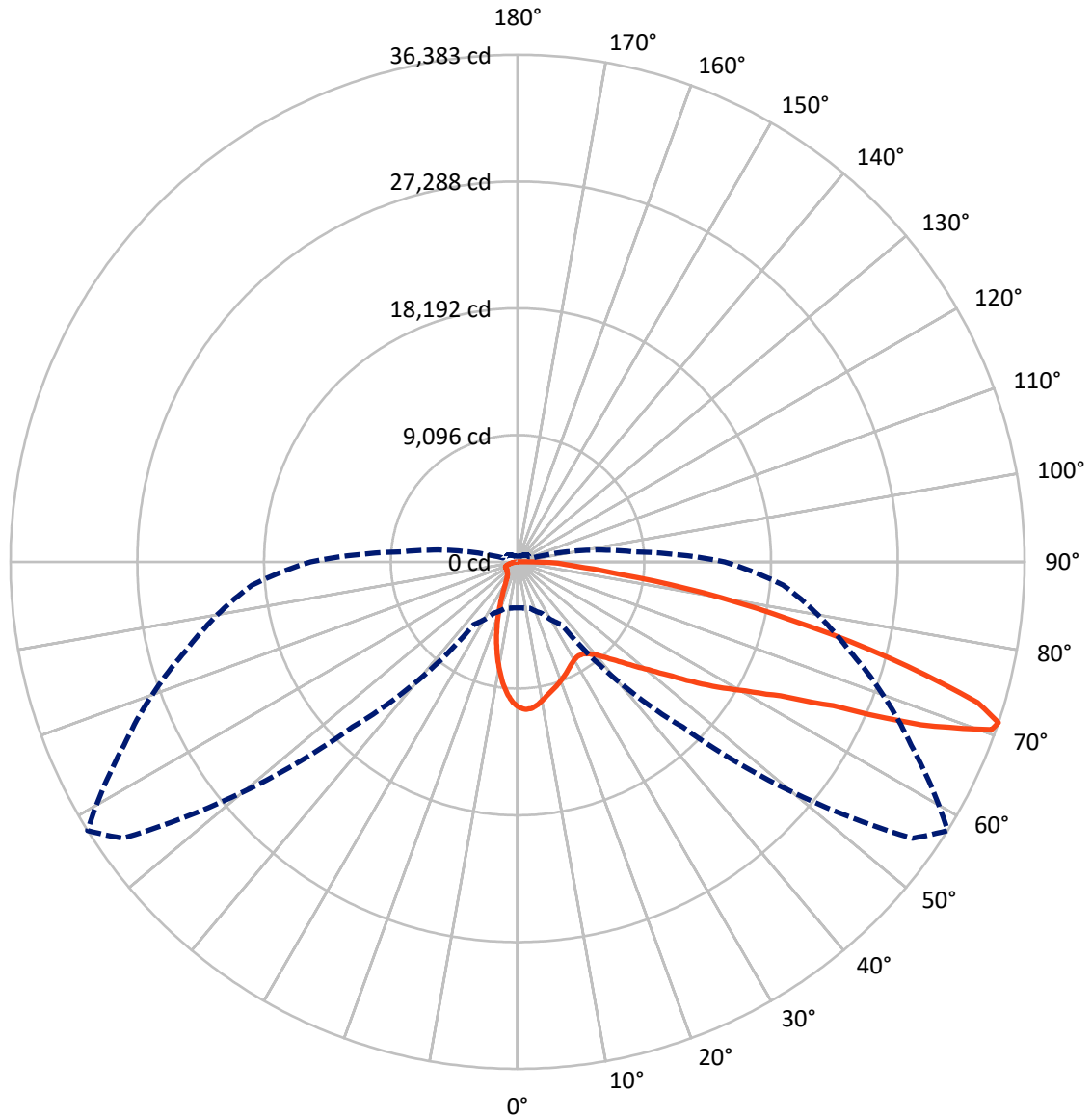
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383419  
CATALOG NUMBER: GLEON-SA7B-735-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P383419  
 CATALOG NUMBER: GLEON-SA7B-735-U-SL3

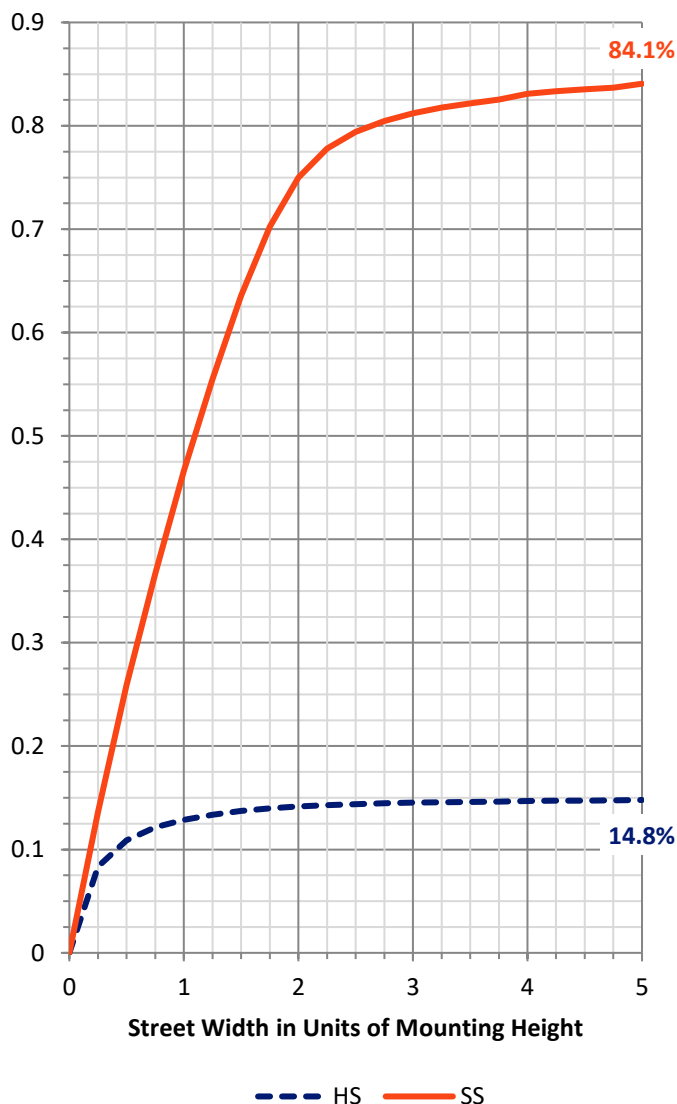
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5630.0	0.0	5630.0
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	32026.9	0.0	32026.9
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	37656.9	0.0	37656.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	900.1	2.4
10°-20°	2001.5	5.3
20°-30°	2543.7	6.8
30°-40°	3240.1	8.6
40°-50°	4594.6	12.2
50°-60°	7110.4	18.9
60°-70°	9679.9	25.7
70°-80°	6457.6	17.1
80°-90°	1129.0	3.0
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°	37656.9	100.0
0°-180°	37656.9	100.0

**Coefficient of Utilization**

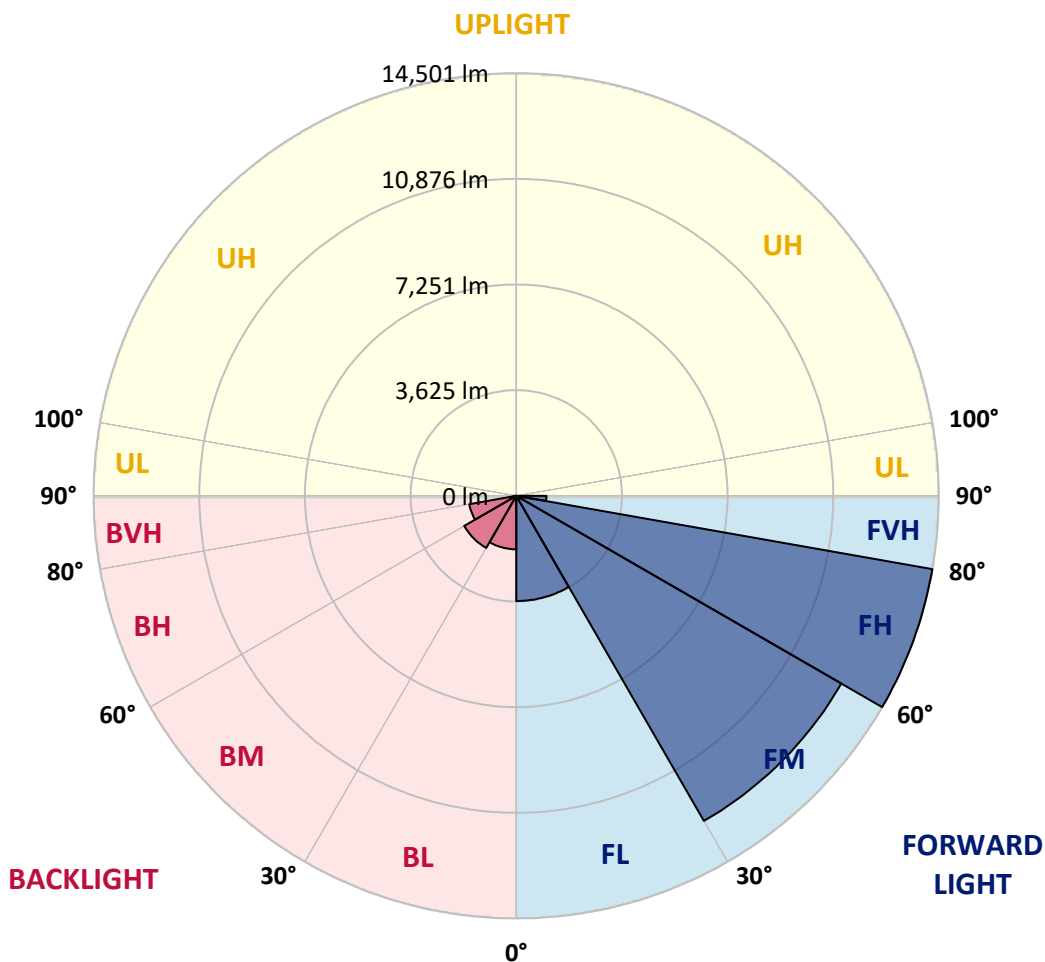


REPORT NUMBER: P383419  
 CATALOG NUMBER: GLEON-SA7B-735-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3610.0	9.6			
FM (30°-60°)	12880.5	34.2			
FH (60°-80°)	14501.2	38.5			G5
FVH (80°-90°)	1035.2	2.7			G5
BL (0°-30°)	1835.2	4.9	B3/2500		
BM (30°-60°)	2064.7	5.5	B2/2500		
BH (60°-80°)	1636.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	93.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





REPORT NUMBER: P383419

CATALOG NUMBER: GLEON-SA7B-735-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5
2.5°	10710.3	10695.8	10701.1	10690.5	10665.7	10640.7	10604.0	10610.5	10559.4	10483.4	10388.9
5°	10508.2	10503.0	10542.3	10564.7	10583.0	10568.6	10558.1	10571.2	10496.4	10391.5	10227.6
7.5°	10084.6	10026.8	10076.6	10151.4	10222.2	10276.1	10346.9	10356.1	10308.9	10198.7	9983.6
10°	9482.5	9427.4	9500.9	9617.6	9759.3	9887.8	10030.8	10057.0	10066.2	9966.5	9705.4
12.5°	8858.1	8816.1	8889.6	9053.5	9288.4	9486.4	9714.6	9754.0	9835.3	9768.4	9448.4
15°	8299.3	8283.5	8372.7	8534.1	8804.3	9107.3	9436.6	9508.7	9646.5	9624.1	9247.7
17.5°	7816.6	7812.6	7880.9	8050.1	8349.2	8732.1	9159.8	9281.8	9486.4	9512.7	9082.4
20°	7457.1	7449.3	7496.5	7621.2	7929.4	8363.5	8860.7	9028.7	9323.8	9415.6	8911.8
22.5°	7264.3	7263.0	7264.3	7323.4	7575.3	7979.3	8569.5	8774.2	9165.0	9338.2	8723.0
25°	7231.5	7227.6	7198.7	7192.2	7335.2	7657.9	8280.9	8506.5	9014.2	9284.4	8543.3
27.5°	7316.8	7322.1	7284.1	7222.4	7251.3	7446.7	8030.4	8271.8	8893.5	9273.9	8418.7
30°	7493.9	7491.2	7458.4	7394.2	7337.8	7368.0	7852.0	8093.4	8812.2	9319.9	8333.4
32.5°	7689.4	7703.8	7697.2	7661.8	7577.9	7457.1	7798.2	8034.3	8788.6	9430.0	8296.6
35°	7924.1	7939.9	7987.1	8014.7	7916.3	7722.2	7913.7	8118.3	8856.8	9637.2	8355.7
37.5°	8147.1	8187.8	8320.3	8437.0	8353.1	8136.6	8220.6	8366.2	9068.0	9963.8	8514.4
40°	8404.2	8439.6	8656.1	8904.0	8890.9	8666.6	8715.1	8812.2	9440.5	10432.1	8801.7
42.5°	8657.4	8728.2	9041.7	9393.3	9494.2	9296.2	9373.6	9424.7	9965.2	11052.6	9302.8
45°	8994.5	9070.6	9506.1	9929.7	10165.9	10054.4	10177.7	10197.4	10625.0	11897.4	10030.8
47.5°	9504.8	9591.3	10099.0	10543.6	10904.4	10916.2	11119.5	11111.6	11448.7	12864.1	10947.6
50°	10299.7	10424.3	10840.1	11255.9	11694.0	11938.1	12209.5	12171.5	12436.4	13893.8	12003.6
52.5°	11341.2	11398.9	11707.1	12014.1	12558.5	13105.5	13495.1	13461.0	13556.7	14952.4	13202.5
55°	12420.7	12464.0	12591.3	12759.1	13491.1	14383.1	15206.9	15153.0	14910.4	16051.6	14387.0
57.5°	13391.5	13479.3	13567.2	13636.7	14430.3	15718.4	16958.0	16961.9	16379.5	17237.4	15610.9
60°	13542.3	13619.7	14200.8	14749.1	16037.2	17499.8	18832.4	18793.1	17899.8	18524.2	16975.0
62.5°	11970.9	12145.2	13115.9	14574.6	17585.0	20758.0	21223.7	21175.2	19717.9	20110.1	18563.5
65°	8578.7	8776.8	9948.1	12140.0	16834.7	24348.2	25539.3	24886.1	22197.0	22060.6	20423.6
67.5°	4949.1	4996.4	5504.0	7264.3	12818.2	24535.8	32122.8	31208.6	26046.9	24273.5	21333.9
70°	3659.7	3658.4	3779.1	4470.4	6936.4	20024.8	35254.0	36073.8	30100.2	25001.5	20047.1
71°	3309.5	3313.4	3448.5	4069.0	5493.5	16761.2	34588.9	36383.4	31167.9	24642.1	19115.8
72.5°	2830.7	2843.8	3031.4	3649.2	4621.2	11558.9	31724.1	34525.9	31674.3	23755.4	17658.5
75°	2147.3	2177.5	2437.2	3076.0	4223.7	5862.1	23283.1	27569.9	28137.9	20961.4	13121.2
77.5°	1532.1	1566.2	1860.0	2586.7	4015.2	4417.9	15592.5	20110.1	20706.9	13433.4	5918.5
80°	968.1	1008.7	1230.4	2058.1	3772.5	4194.9	9798.6	13517.3	11291.4	4298.5	1505.8
82.5°	568.0	599.5	763.4	1344.5	3081.3	4040.1	5765.1	7492.6	4394.3	1298.6	684.7
85°	329.2	343.6	476.1	856.6	2237.8	3813.2	4235.6	4188.3	1907.3	634.8	324.0
87.5°	153.4	170.6	282.0	447.3	1242.2	2763.8	3347.5	2892.4	1185.8	297.7	152.1
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: P383419

CATALOG NUMBER: GLEON-SA7B-735-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5	10433.5
2.5°	10343.0	10320.7	10227.6	10144.9	10058.3	9945.5	9820.9	9805.2	9729.1	9743.5	9717.3
5°	10138.3	10082.0	9857.6	9654.3	9414.2	9199.1	8965.7	8858.1	8703.3	8692.8	8653.4
7.5°	9845.8	9740.9	9393.3	9007.6	8621.9	8254.7	7891.3	7652.6	7408.6	7305.0	7295.8
10°	9516.6	9338.2	8826.6	8256.0	7699.8	7163.3	6643.9	6259.5	5913.3	5749.3	5742.7
12.5°	9204.3	8940.7	8239.0	7462.4	6701.6	6006.4	5294.2	4789.1	4354.9	4209.3	4147.7
15°	8939.4	8568.2	7667.0	6674.1	5750.6	4785.2	3974.5	3443.3	3041.9	2902.9	2876.6
17.5°	8682.3	8204.9	7080.7	5877.9	4761.6	3700.4	2888.4	2493.6	2279.8	2223.4	2222.0
20°	8426.5	7831.0	6468.1	5063.2	3805.3	2767.7	2220.7	2043.6	1971.5	1965.0	1954.5
22.5°	8136.6	7434.9	5824.0	4246.1	2969.8	2176.2	1887.6	1816.7	1807.6	1831.1	1831.1
25°	7865.1	7041.4	5170.8	3445.9	2310.0	1815.4	1685.5	1671.1	1696.1	1738.1	1742.0
27.5°	7612.0	6662.2	4533.3	2734.9	1850.9	1599.0	1545.3	1562.3	1606.8	1655.4	1656.7
30°	7403.4	6304.2	3914.2	2155.1	1563.6	1437.7	1428.4	1462.5	1511.1	1549.2	1558.3
32.5°	7242.0	5998.5	3316.0	1732.8	1376.0	1316.9	1324.8	1353.7	1383.9	1404.9	1419.3
35°	7167.2	5736.2	2763.8	1461.2	1256.7	1223.9	1234.3	1250.0	1263.2	1278.9	1290.8
37.5°	7180.4	5532.8	2270.6	1292.1	1176.6	1159.6	1159.6	1159.6	1159.6	1167.4	1168.7
40°	7302.4	5416.1	1869.2	1184.5	1122.8	1104.4	1090.0	1077.0	1066.4	1071.7	1069.0
42.5°	7614.6	5405.6	1575.3	1116.3	1079.6	1049.4	1020.5	1002.2	989.0	994.3	996.9
45°	8144.5	5536.8	1377.3	1067.7	1038.9	992.9	956.2	936.6	927.4	944.4	947.1
47.5°	8830.5	5822.7	1256.7	1032.3	1000.9	940.5	901.2	882.8	885.4	910.3	916.9
50°	9714.6	6287.1	1198.9	1010.0	974.6	895.9	855.3	839.5	847.3	882.8	890.7
52.5°	10685.3	6956.1	1205.5	1003.5	957.5	863.1	819.9	801.5	814.5	847.3	853.9
55°	11805.5	7760.2	1314.3	1012.7	932.7	842.1	791.0	759.5	770.0	800.2	805.4
57.5°	13050.3	8681.0	1533.4	1010.0	901.2	822.5	760.8	713.6	721.5	739.8	745.1
60°	14346.4	9793.4	1873.2	1017.9	886.7	798.8	720.2	661.1	658.5	674.3	676.9
62.5°	15902.1	11080.2	2261.4	1023.1	895.9	768.7	666.3	608.7	600.8	604.7	607.4
65°	17505.0	12011.5	2115.8	1002.2	924.7	743.7	619.1	557.4	543.1	540.4	541.8
67.5°	17554.8	11013.2	1483.6	960.1	936.6	730.6	583.7	514.2	490.6	481.4	480.1
70°	15743.3	8947.3	1155.6	915.6	889.3	709.7	550.9	478.8	443.3	429.0	427.6
71°	14859.2	8236.4	1095.3	893.3	853.9	688.7	536.5	463.1	426.3	410.5	407.9
72.5°	13472.8	7383.7	1021.8	857.9	785.8	634.8	508.9	440.7	402.7	384.4	380.4
75°	9668.7	4828.5	877.5	764.7	650.6	506.3	446.0	396.2	363.3	341.0	338.4
77.5°	3725.3	1921.7	663.7	636.2	498.5	396.2	367.3	342.3	318.8	296.4	295.1
80°	1151.7	859.2	484.0	478.8	360.7	295.1	286.0	279.4	270.2	246.6	241.4
82.5°	615.2	493.3	333.2	309.6	236.1	196.7	207.3	209.9	211.2	186.3	183.6
85°	293.8	261.0	187.6	175.8	137.8	110.2	127.2	137.8	139.1	114.1	106.3
87.5°	140.4	136.4	87.8	66.9	51.1	36.7	44.6	55.1	60.4	43.3	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)