

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: P383030

Luminaire Tested: **GLEON-SA3D-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383030  
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-SA3D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA 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: 16358.9 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

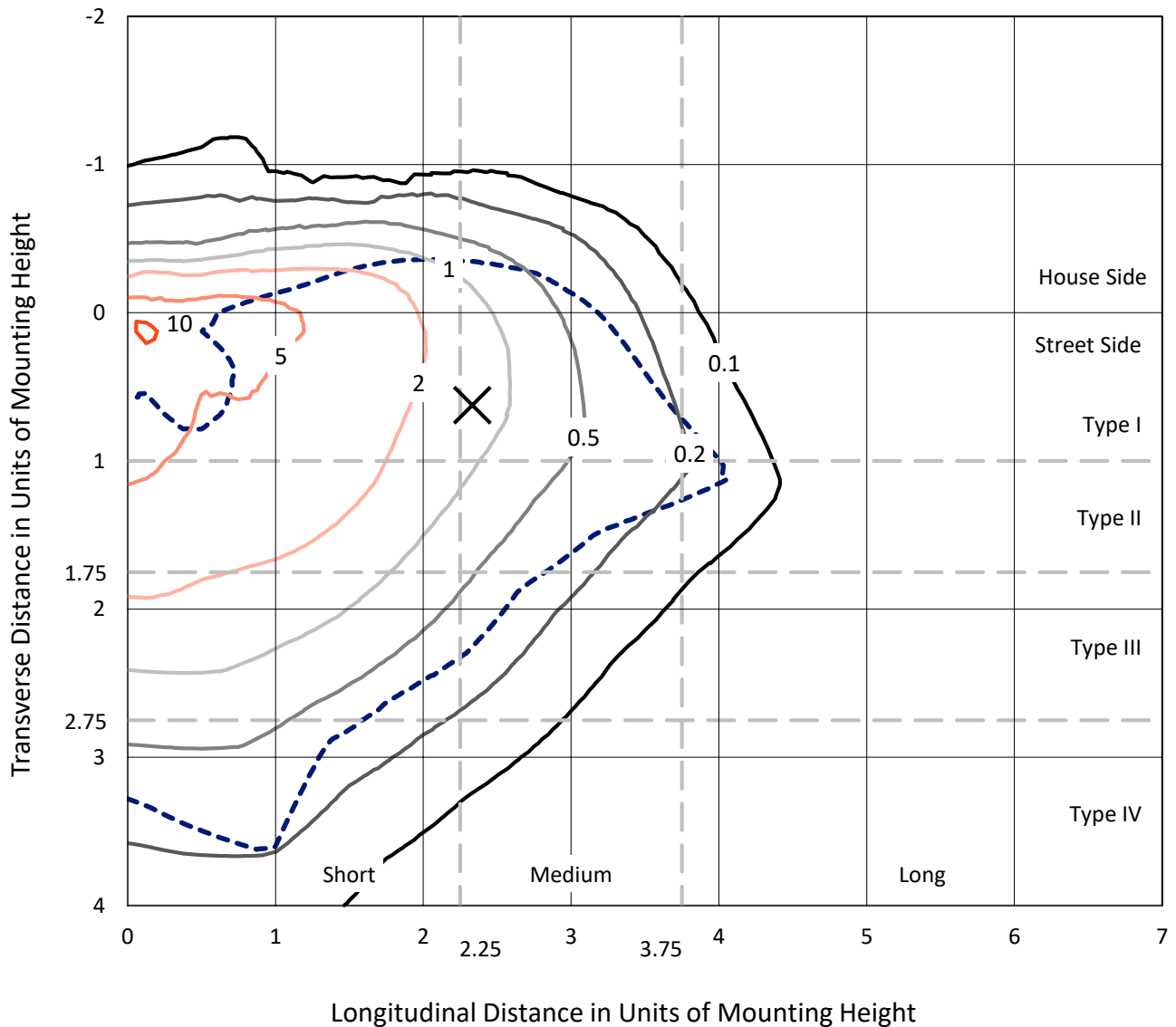
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

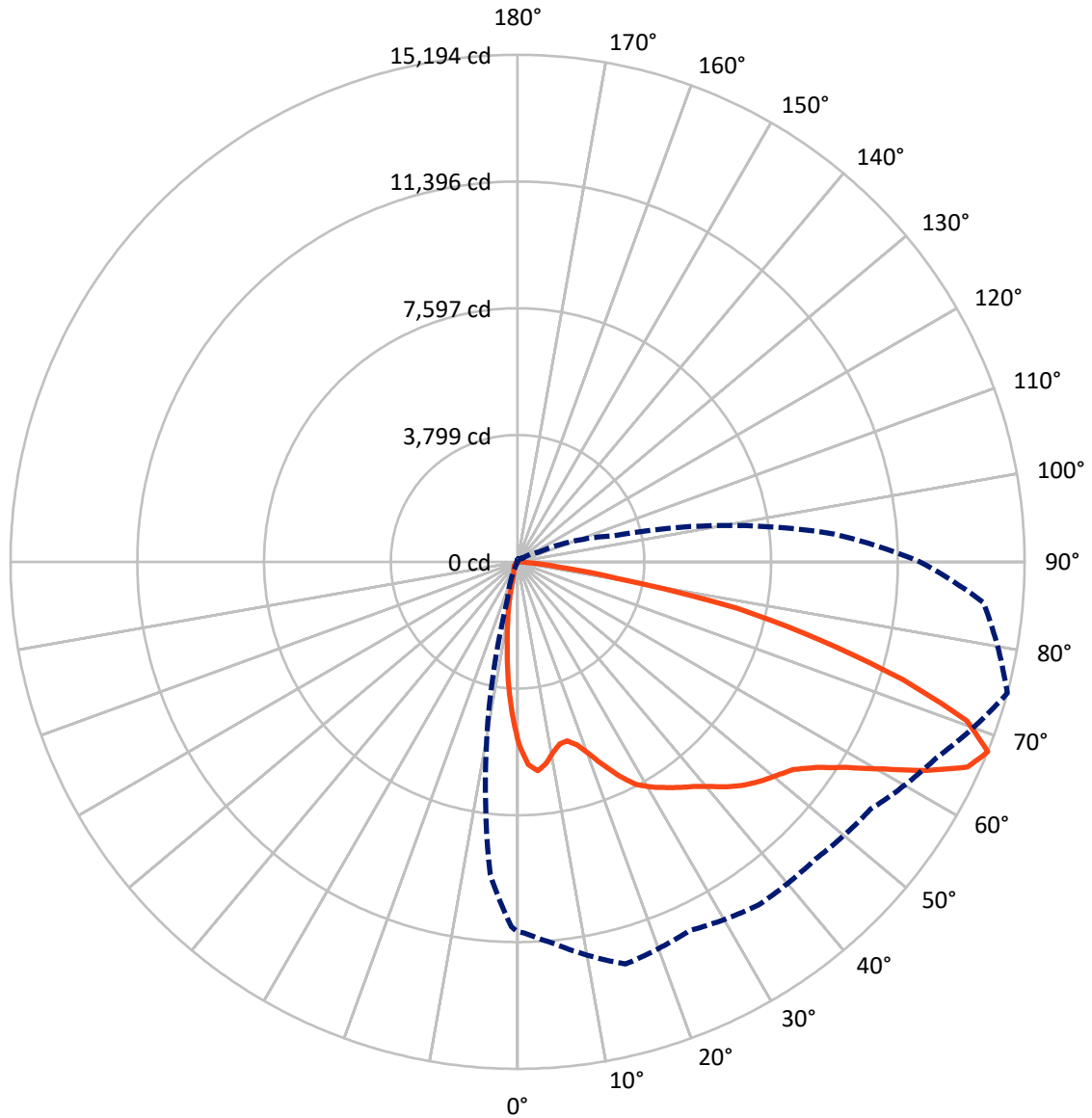
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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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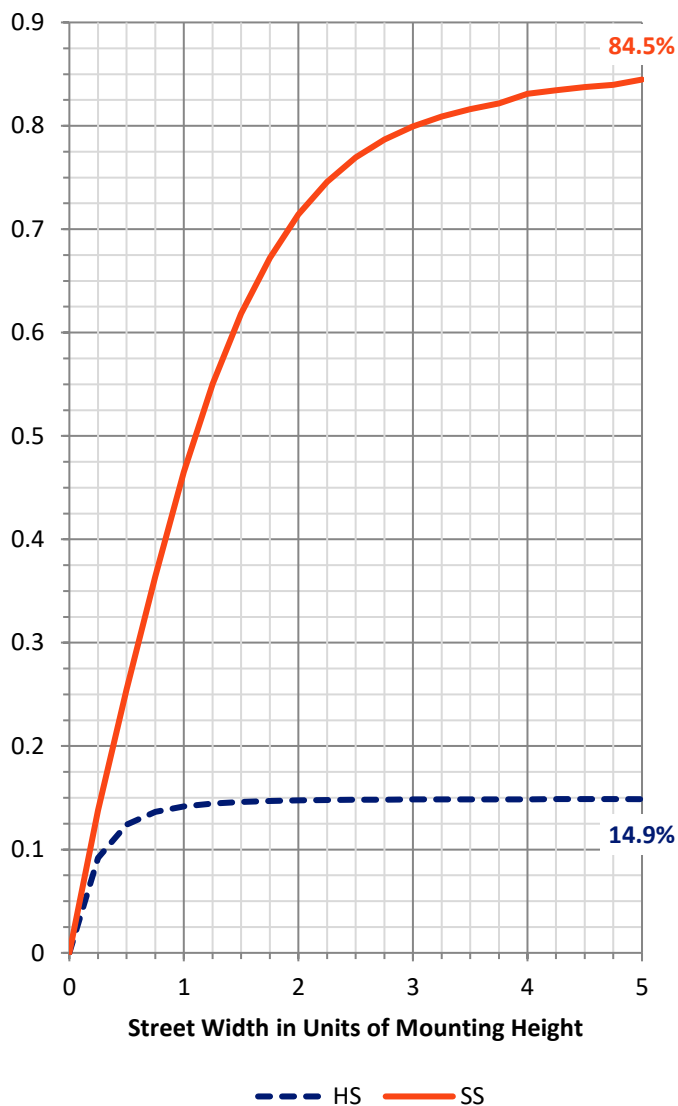
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2454.8	0.0	2454.8
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	13904.1	0.0	13904.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	16358.9	0.0	16358.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.3	2.5
10°-20°	819.7	5.0
20°-30°	1159.6	7.1
30°-40°	1705.0	10.4
40°-50°	2450.6	15.0
50°-60°	3449.9	21.1
60°-70°	4029.1	24.6
70°-80°	2055.5	12.6
80°-90°	273.1	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°	16358.9	100.0
0°-180°	16358.9	100.0

**Coefficient of Utilization**



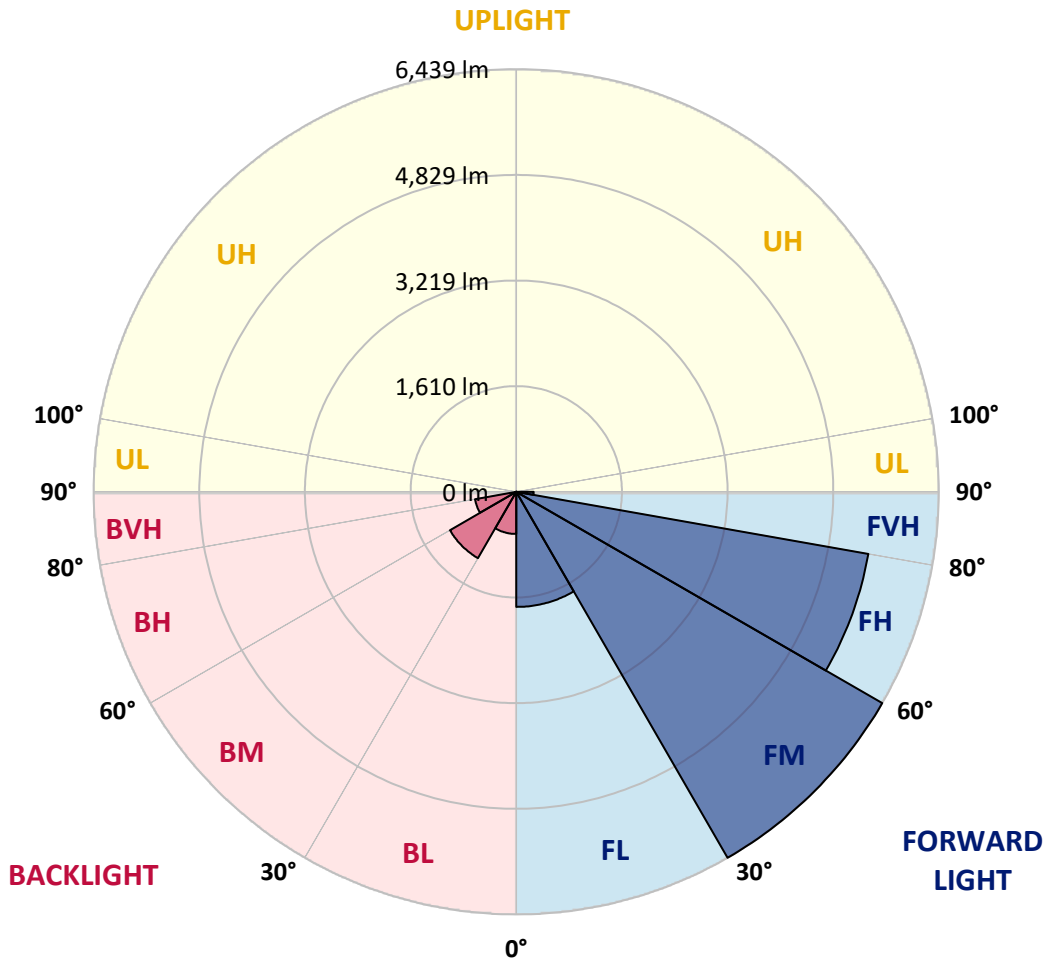
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1753.7	10.7			
FM (30°-60°)	6438.6	39.4			
FH (60°-80°)	5447.1	33.3			G3/7500
FVH (80°-90°)	264.8	1.6			G3/500
BL (0°-30°)	642.0	3.9	B2/1000		
BM (30°-60°)	1166.9	7.1	B2/2500		
BH (60°-80°)	637.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.3	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°	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1
2.5°	5949.2	5958.6	6006.5	6118.1	6239.8	6249.1	6331.3	6246.8	6218.2	6081.7	5940.7
5°	5994.1	6029.8	6194.9	6522.7	6807.1	6898.5	6963.6	6797.8	6623.4	6290.2	5934.5
7.5°	5632.2	5691.9	5951.6	6566.9	7075.2	7300.0	7342.6	7082.9	6656.0	6107.3	5572.6
10°	5168.9	5237.1	5550.2	6306.5	7004.7	7389.9	7448.7	7108.5	6494.7	5811.3	5181.3
12.5°	4793.7	4873.6	5193.7	6013.5	6762.1	7188.4	7304.6	7022.5	6355.3	5601.3	4913.9
15°	4620.9	4712.4	5048.7	5824.5	6493.3	6828.8	6924.8	6803.2	6277.8	5568.0	4851.9
17.5°	4720.2	4819.4	5166.5	5840.7	6240.6	6384.0	6461.5	6511.1	6277.8	5768.7	5033.2
20°	5127.1	5234.0	5601.3	6005.8	6031.4	5977.9	6060.8	6235.2	6350.6	6149.9	5468.7
22.5°	5689.6	5815.2	6229.7	6288.7	5929.1	5726.8	5737.7	6011.2	6483.2	6633.5	6073.2
25°	6375.4	6528.8	6950.5	6710.2	5971.7	5577.3	5573.4	5826.7	6612.6	7117.9	6746.6
27.5°	7056.7	7225.5	7595.9	7224.8	6147.6	5550.2	5542.3	5771.0	6738.9	7548.7	7482.1
30°	7627.8	7792.0	8111.3	7597.5	6337.5	5613.7	5576.5	5830.6	6814.1	7828.4	8018.3
32.5°	8092.7	8224.4	8482.5	7854.1	6540.5	5736.9	5656.3	5990.3	6941.9	8064.8	8511.2
35°	8604.1	8742.9	8846.0	8098.1	6768.3	5914.4	5798.9	6243.7	7138.7	8305.0	9051.3
37.5°	9187.7	9325.6	9313.2	8321.3	7057.4	6208.0	6134.4	6645.1	7444.8	8542.9	9654.2
40°	9758.8	9899.8	9799.1	8565.4	7396.8	6692.4	6638.1	7248.0	7854.8	8847.5	10361.0
42.5°	10293.5	10446.2	10230.8	8796.3	7801.3	7303.1	7396.0	8024.5	8367.8	9222.6	10970.1
45°	10724.4	10880.2	10592.6	9021.1	8227.5	8043.9	8323.7	8884.7	8984.7	9539.5	11381.6
47.5°	11037.4	11184.7	10843.8	9245.8	8773.1	8949.8	9437.2	9786.7	9541.8	9814.6	11673.7
50°	11237.4	11352.1	10917.4	9527.1	9489.1	10006.8	10597.3	10767.9	10066.5	10062.6	12028.6
52.5°	11364.5	11416.4	10971.6	9820.8	10236.2	11157.6	11733.4	11786.9	10606.6	10335.4	12506.8
55°	11802.3	11844.2	11356.0	10176.5	10853.8	12165.8	12761.0	12711.3	11218.1	10869.3	13070.9
57.5°	12549.4	12593.6	12150.3	10688.0	11353.7	12788.8	13505.7	13594.8	11934.9	11619.5	13675.4
60°	12924.5	13006.6	12848.6	11335.8	11838.0	13187.2	14013.3	14297.7	12830.7	12608.3	14261.2
62.5°	12584.3	12703.6	12933.0	12054.2	12319.3	13406.5	14171.4	14549.6	13748.2	13760.6	14622.4
65°	11905.5	12000.8	12389.8	12447.9	12598.2	13379.4	13780.8	14197.7	14310.1	14819.2	14603.0
67.5°	11085.5	11121.2	11451.3	12478.9	12193.7	12564.2	12607.5	12915.9	13866.0	15194.3	14016.3
70°	9905.3	9924.7	10212.9	11441.3	10478.8	10560.1	10495.8	10558.5	11920.9	14280.6	12535.5
72.5°	7971.8	8020.6	8430.6	9501.6	7633.9	7399.1	7904.4	7876.5	9180.8	12065.0	9310.2
75°	5869.4	5953.9	6573.1	7653.3	5358.0	4846.5	5215.4	5313.7	6526.5	9332.6	5822.2
77.5°	4109.5	4172.3	4772.1	5626.1	3877.8	3465.5	3332.2	3449.2	4307.9	6751.3	2933.2
80°	2367.4	2390.7	2773.5	3248.6	2613.1	2989.7	2708.4	2789.1	2581.3	3003.7	1261.6
82.5°	1549.1	1553.0	1702.6	1933.5	1627.4	1890.9	1399.6	1789.3	1587.8	1206.5	410.7
85°	836.9	841.6	987.3	1372.4	921.4	520.7	306.1	628.5	981.9	276.7	112.3
87.5°	92.2	84.5	297.5	499.0	255.7	47.2	16.3	70.5	157.3	17.8	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°	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1
2.5°	5868.7	5804.3	5643.9	5474.1	5337.8	5210.0	5081.3	4924.0	4802.3	4777.5	4737.2
5°	5743.1	5539.3	5203.0	4865.1	4593.1	4249.8	4032.0	3862.3	3696.5	3686.4	3653.1
7.5°	5304.5	5036.3	4562.8	4095.5	3712.8	3385.7	3055.6	2834.7	2661.2	2599.9	2563.5
10°	4882.9	4581.4	3990.2	3457.0	3115.3	2826.2	2593.7	2362.8	2153.6	2009.4	1944.3
12.5°	4588.4	4255.2	3603.5	3144.0	2899.1	2624.7	2341.1	2052.9	1811.8	1638.2	1532.0
15°	4474.5	4118.8	3474.0	3020.0	2717.7	2370.5	2007.9	1678.6	1411.2	1253.9	1158.6
17.5°	4610.1	4196.3	3464.0	2868.8	2446.5	2014.8	1614.2	1225.2	973.3	853.9	792.7
20°	4954.2	4442.7	3460.1	2683.6	2124.1	1593.3	1093.5	806.0	653.3	586.6	558.0
22.5°	5440.9	4757.3	3491.1	2500.7	1788.6	1138.4	754.8	592.1	513.7	478.2	461.9
25°	6067.0	5199.1	3578.6	2334.9	1473.1	849.3	588.2	496.0	440.9	413.0	401.4
27.5°	6734.3	5707.4	3715.1	2190.7	1216.7	677.3	503.7	424.7	385.1	365.8	354.9
30°	7284.4	6296.4	3853.0	2030.3	1030.7	590.5	461.1	387.4	341.8	329.4	319.2
32.5°	7765.7	6742.0	3950.7	1885.5	909.0	524.6	417.0	346.4	315.4	291.4	280.5
35°	8263.9	7113.2	3947.5	1783.9	825.4	475.0	379.7	310.0	272.8	244.9	236.3
37.5°	8803.3	7532.4	3880.2	1697.1	788.9	435.5	358.8	290.6	253.4	225.5	214.6
40°	9434.9	7972.6	3811.1	1615.8	778.8	403.7	344.1	275.1	235.6	208.5	197.6
42.5°	10050.2	8369.4	3750.7	1555.3	735.5	403.0	330.9	263.4	221.6	195.3	182.9
45°	10542.3	8739.0	3739.0	1518.9	689.7	417.0	323.9	255.7	210.8	184.4	172.8
47.5°	10951.5	9140.4	3813.5	1493.3	646.3	380.5	340.9	250.3	200.7	175.1	162.0
50°	11438.1	9633.3	3988.6	1451.4	600.6	342.5	390.6	251.9	192.2	165.8	151.8
52.5°	12117.0	10315.2	4245.9	1380.9	537.8	307.7	384.4	253.4	182.9	155.8	141.8
55°	12878.0	11166.9	4522.6	1263.9	450.2	262.0	329.4	242.6	165.1	144.9	131.7
57.5°	13677.7	11939.6	4686.8	1124.5	358.0	226.3	263.4	220.9	145.7	130.2	121.7
60°	13803.2	12233.2	4611.7	953.2	284.4	196.8	195.3	224.7	130.2	114.7	108.5
62.5°	13491.0	11864.4	4248.2	800.5	237.9	172.8	160.4	196.1	117.7	102.3	96.1
65°	12890.4	10867.0	3659.3	721.5	220.9	148.0	133.3	138.0	103.0	89.1	83.7
67.5°	12055.0	9535.7	3004.4	676.5	218.5	127.1	113.9	104.6	89.1	77.5	72.8
70°	10347.0	7944.0	2396.9	651.7	212.3	106.9	96.1	85.2	74.4	65.9	62.0
72.5°	7615.3	5629.2	1864.5	624.6	213.9	85.2	83.7	70.5	59.7	51.1	49.6
75°	4400.1	3216.0	1222.8	506.0	203.8	65.9	69.8	49.6	41.8	35.7	35.7
77.5°	2345.0	1961.4	465.8	210.8	74.4	41.8	39.5	29.4	26.4	21.7	21.0
80°	1022.2	863.3	140.3	58.9	41.1	22.5	14.7	13.1	11.6	9.3	8.6
82.5°	361.9	312.3	45.7	28.7	17.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	82.2	58.9	0.0	7.0	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°	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1
2.5°	4655.0	4638.0	4537.3	4541.2	4559.0	4584.5	4524.1	4552.0	4627.2	4699.3	4726.4
5°	3599.6	3603.5	3542.2	3580.2	3614.3	3637.6	3540.0	3541.5	3601.2	3682.5	3725.2
7.5°	2536.4	2530.2	2533.3	2624.0	2688.3	2641.8	2678.2	2551.9	2559.6	2617.7	2574.3
10°	1885.5	1800.2	1752.1	1820.3	1890.9	1865.2	1802.5	1761.5	1790.2	1854.4	1849.8
12.5°	1481.7	1359.2	1287.2	1238.4	1296.4	1248.5	1246.9	1211.2	1172.4	1179.4	1282.6
15°	1114.4	1025.3	940.0	861.8	860.2	843.9	761.0	668.0	660.3	664.9	718.4
17.5°	766.4	736.2	701.4	633.9	616.0	547.8	467.3	430.1	411.5	420.0	437.8
20°	538.6	527.0	530.8	494.4	468.8	403.7	356.5	341.8	338.6	347.2	355.7
22.5°	446.4	425.4	423.1	406.8	381.3	334.0	308.4	299.9	296.0	303.8	310.0
25°	390.6	369.6	361.2	351.0	323.9	291.4	275.9	268.1	264.3	268.9	272.8
27.5°	344.1	324.7	316.9	310.0	283.7	260.4	248.0	241.0	237.9	239.5	243.3
30°	309.2	292.1	282.1	273.6	251.1	234.8	223.9	217.0	213.9	213.9	217.8
32.5°	272.8	263.4	254.2	243.3	222.5	211.6	200.7	192.9	189.8	190.6	193.8
35°	227.0	223.9	226.3	216.2	198.4	189.1	178.2	169.7	167.4	168.1	171.2
37.5°	201.5	187.5	196.1	190.6	180.5	168.1	154.2	146.4	142.6	144.9	146.4
40°	185.2	168.1	162.0	167.4	165.8	145.7	133.3	125.6	122.4	123.2	124.7
42.5°	171.2	151.1	137.1	136.4	145.7	127.1	113.9	106.9	103.0	103.0	104.6
45°	158.1	136.4	119.3	106.2	122.4	107.7	95.3	89.1	84.5	84.5	85.2
47.5°	148.0	124.0	103.9	86.8	92.2	88.3	78.2	72.1	67.4	67.4	68.2
50°	138.7	111.6	89.9	72.8	68.9	72.8	63.5	56.5	53.5	52.7	54.2
52.5°	128.6	99.2	76.8	62.0	54.2	55.1	49.6	44.9	41.1	41.1	42.7
55°	118.6	89.1	66.6	52.7	44.9	41.1	39.5	36.4	33.3	33.3	34.8
57.5°	108.5	78.2	56.5	43.4	35.7	32.5	32.5	30.2	27.9	27.9	29.4
60°	99.2	67.4	46.5	35.7	27.9	27.1	27.9	25.6	24.0	24.0	25.6
62.5°	88.3	57.4	38.0	29.4	22.5	21.7	24.0	22.5	21.0	21.0	22.5
65°	75.2	48.8	30.2	22.5	17.0	17.0	20.1	18.6	17.0	17.0	18.6
67.5°	63.5	41.1	23.3	16.3	12.4	13.1	17.0	15.5	14.7	14.7	16.3
70°	52.7	31.8	16.3	10.1	7.0	10.1	13.1	13.1	13.1	13.1	14.7
72.5°	39.5	21.7	9.3	3.9	3.1	7.0	10.8	12.4	11.6	11.6	14.0
75°	25.6	12.4	3.1	0.0	0.0	3.9	8.6	10.1	10.1	9.3	11.6
77.5°	14.7	3.9	0.0	0.0	0.0	0.0	5.4	4.7	3.9	3.1	5.4
80°	3.9	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: P383030

CATALOG NUMBER: GLEON-SA3D-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1	5488.1
2.5°	4835.7	4927.0	5055.7	5192.1	5402.1	5568.7	5732.3	5872.5	5926.8	5949.2
5°	3827.4	3961.5	4149.8	4391.6	4770.5	5111.5	5457.1	5805.1	5956.2	5994.1
7.5°	2746.4	2917.6	3157.1	3460.1	3904.1	4345.9	4828.7	5339.4	5573.4	5632.2
10°	2032.6	2241.9	2516.2	2835.5	3259.4	3713.5	4239.7	4823.3	5090.6	5168.9
12.5°	1442.1	1725.0	2092.3	2480.6	2847.9	3253.2	3785.6	4428.8	4709.3	4793.7
15°	847.1	1120.6	1555.3	2075.3	2545.6	2956.4	3497.3	4226.5	4535.7	4620.9
17.5°	485.9	622.3	950.8	1530.5	2169.0	2737.9	3406.7	4276.9	4641.2	4720.2
20°	371.2	414.6	547.8	985.8	1728.9	2523.2	3406.7	4562.1	5010.8	5127.1
22.5°	324.7	356.5	410.7	588.2	1272.5	2293.1	3446.2	4974.4	5561.0	5689.6
25°	288.3	316.9	363.5	442.5	867.9	2019.5	3540.0	5480.4	6208.9	6375.4
27.5°	258.0	285.1	327.1	387.4	593.6	1689.4	3666.3	6074.0	6923.4	7056.7
30°	230.9	256.5	294.5	337.1	457.9	1315.1	3774.0	6633.5	7484.4	7627.8
32.5°	205.3	228.6	262.7	294.5	375.0	972.5	3785.6	7076.8	7950.1	8092.7
35°	181.4	202.2	233.3	258.0	310.8	768.0	3605.0	7461.1	8415.9	8604.1
37.5°	158.1	178.2	205.3	223.9	273.6	626.2	3329.2	7889.6	9013.4	9187.7
40°	136.4	154.2	182.1	194.5	258.8	481.2	3029.2	8339.1	9599.2	9758.8
42.5°	116.3	133.3	160.4	184.4	227.0	359.6	2705.3	8760.7	10126.2	10293.5
45°	96.9	114.7	141.8	195.3	188.3	268.9	2359.0	9040.5	10542.3	10724.4
47.5°	78.2	98.4	135.6	186.0	150.4	197.6	2084.6	9305.5	10857.7	11037.4
50°	62.8	82.9	152.7	165.8	123.2	151.1	1969.9	9542.6	11064.6	11237.4
52.5°	51.1	69.8	144.1	127.1	103.0	124.7	2031.9	9927.0	11256.0	11364.5
55°	42.7	55.1	86.8	88.3	87.6	106.2	2108.7	10478.8	11751.2	11802.3
57.5°	37.2	44.2	60.5	68.2	73.6	94.6	2110.1	11270.7	12517.7	12549.4
60°	31.8	38.8	50.4	55.1	63.5	84.5	2033.5	11547.4	12819.1	12924.5
62.5°	27.9	34.1	41.8	45.7	53.5	75.9	1853.7	11146.7	12405.2	12584.3
65°	24.8	31.0	34.8	38.8	47.2	68.2	1557.6	10345.5	11718.7	11905.5
67.5°	21.7	27.1	31.0	34.8	42.7	60.5	1146.9	9414.8	10930.5	11085.5
70°	19.4	24.0	27.9	31.0	37.2	51.1	695.9	7988.9	9841.0	9905.3
72.5°	18.6	21.7	25.6	27.9	32.5	44.9	352.6	5871.0	7867.2	7971.8
75°	16.3	19.4	23.3	24.8	28.7	38.8	143.4	3856.1	5701.3	5869.4
77.5°	13.1	17.8	21.0	22.5	24.8	31.8	72.8	2464.3	4001.0	4109.5
80°	4.7	13.1	17.8	18.6	21.0	23.3	48.1	1349.2	2321.0	2367.4
82.5°	0.0	8.6	14.0	13.1	14.7	17.8	31.0	641.6	1532.0	1549.1
85°	0.0	3.9	10.8	8.6	6.2	12.4	10.8	140.3	803.6	836.9
87.5°	0.0	0.0	0.7	3.9	3.1	4.7	1.6	0.7	72.8	92.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)