

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: P383366

Luminaire Tested: **GLEON-SA6D-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383366  
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-SA6D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 32049 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

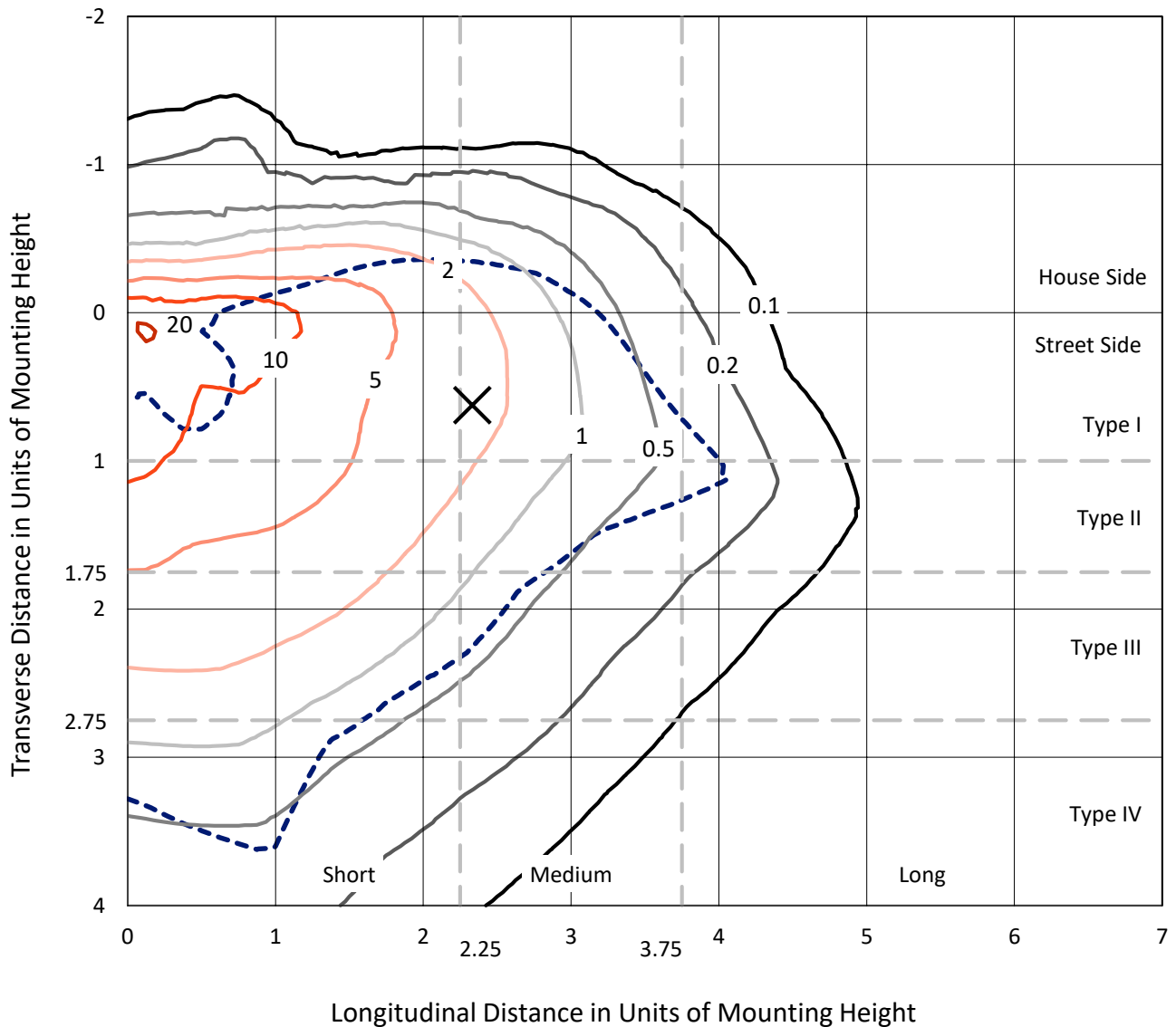
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

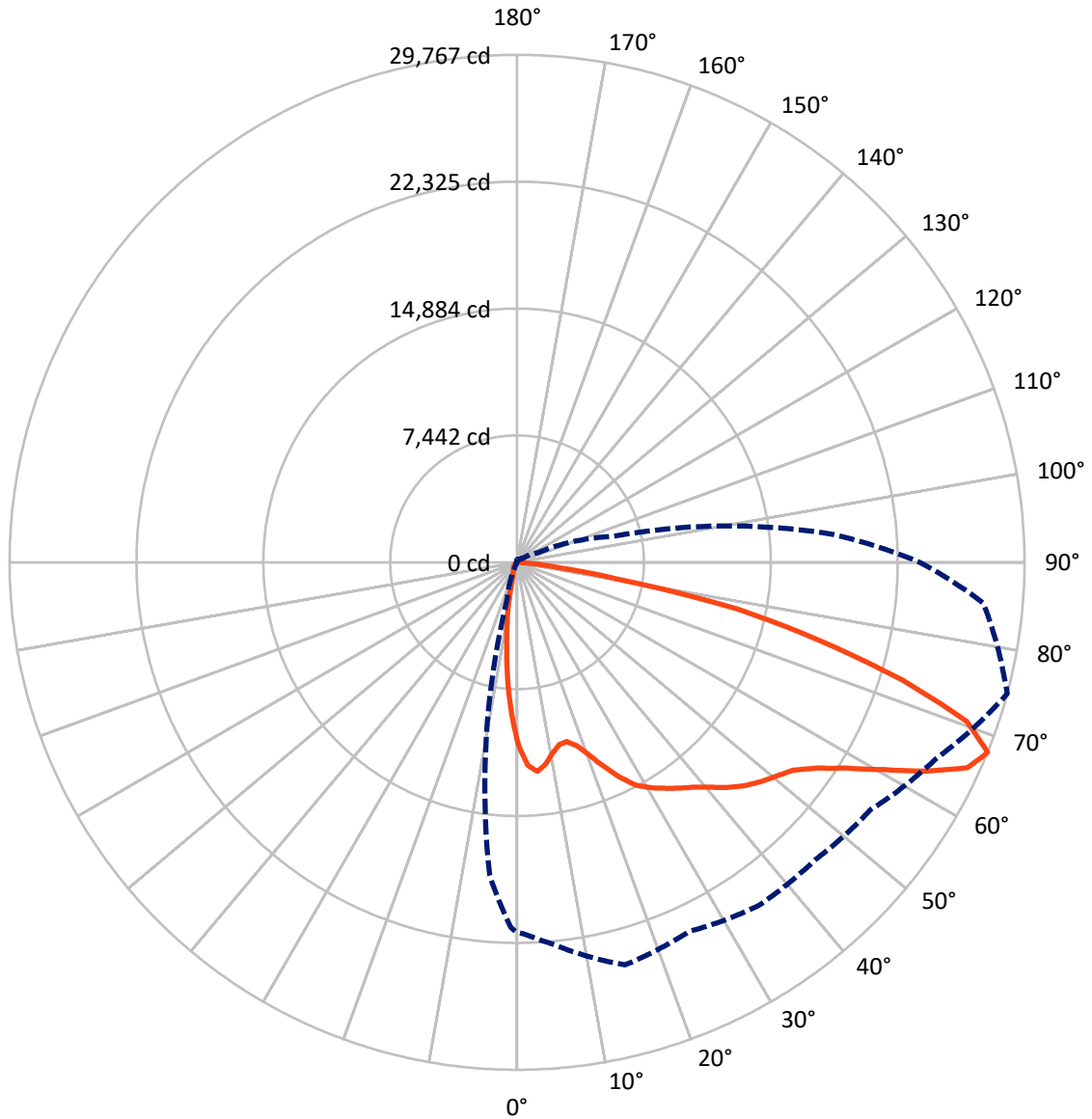
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 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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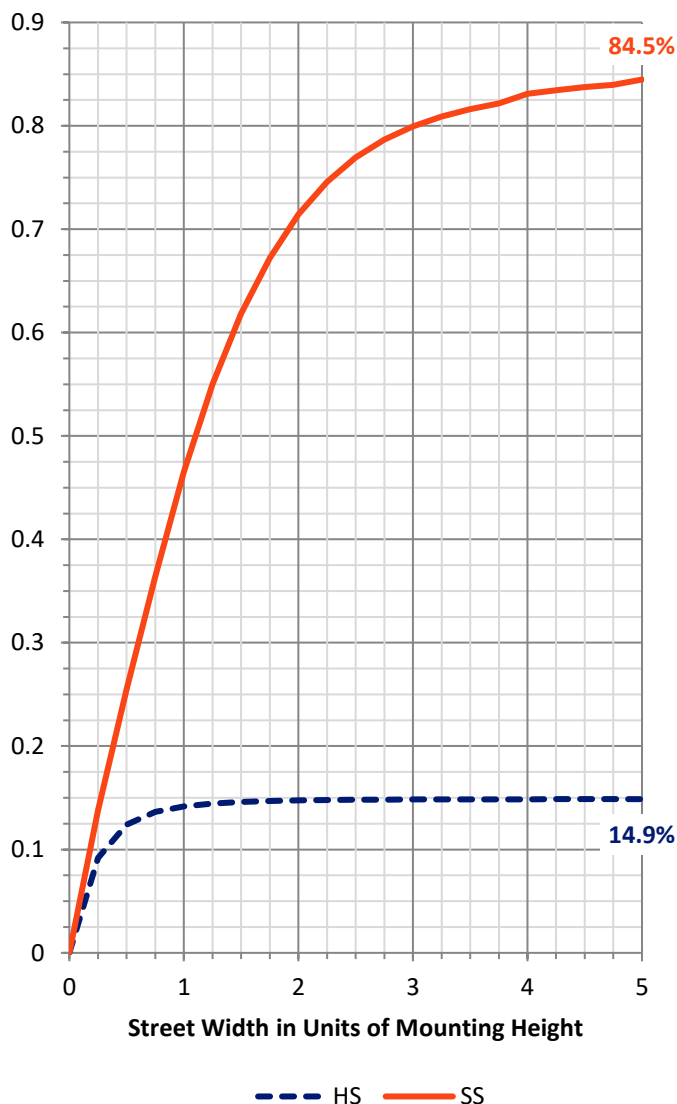
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4809.3	0.0	4809.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	27239.7	0.0	27239.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	32049.0	0.0	32049.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	815.6	2.5
10°-20°	1605.9	5.0
20°-30°	2271.9	7.1
30°-40°	3340.3	10.4
40°-50°	4801.1	15.0
50°-60°	6758.7	21.1
60°-70°	7893.6	24.6
70°-80°	4027.0	12.6
80°-90°	535.0	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°	32049.0	100.0
0°-180°	32049.0	100.0

**Coefficient of Utilization**

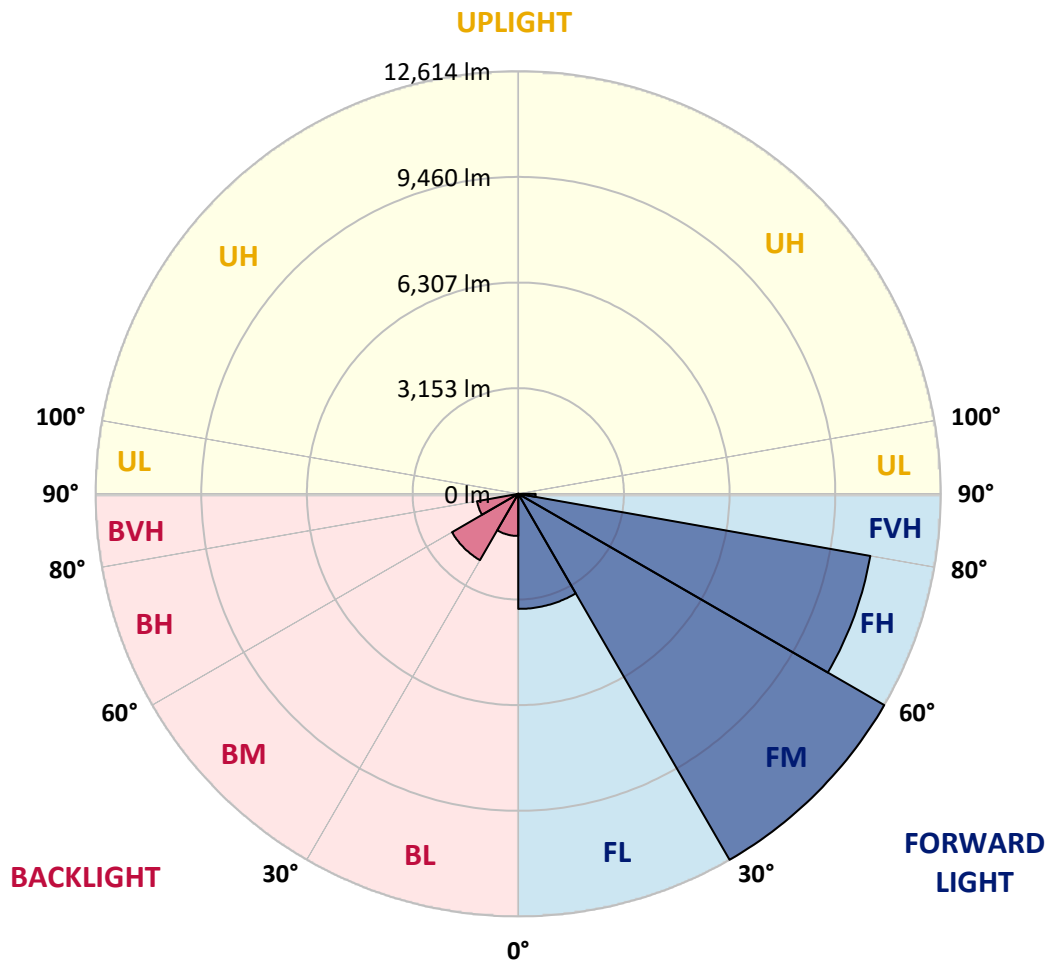


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3435.7	10.7			
FM (30°-60°)	12613.9	39.4			
FH (60°-80°)	10671.4	33.3			G4/12000
FVH (80°-90°)	518.7	1.6			G4/750
BL (0°-30°)	1257.7	3.9	B3/2500		
BM (30°-60°)	2286.2	7.1	B2/2500		
BH (60°-80°)	1249.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	16.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9
2.5°	11655.2	11673.4	11767.6	11986.1	12224.5	12242.8	12403.6	12238.2	12182.0	11914.8	11638.5
5°	11743.3	11813.1	12136.5	12778.7	13335.8	13515.0	13642.5	13317.6	12976.1	12323.3	11626.4
7.5°	11034.3	11151.2	11659.7	12865.2	13861.1	14301.4	14385.0	13876.3	13039.8	11964.9	10917.4
10°	10126.4	10260.0	10873.3	12355.1	13723.0	14477.6	14592.9	13926.5	12724.0	11385.0	10150.7
12.5°	9391.6	9548.0	10174.9	11781.2	13247.8	14082.8	14310.5	13757.9	12450.8	10973.5	9626.9
15°	9053.1	9232.2	9891.1	11410.8	12721.0	13378.3	13566.6	13328.3	12298.9	10908.2	9505.4
17.5°	9247.4	9441.7	10121.8	11442.7	12226.0	12507.0	12658.7	12755.9	12298.9	11301.4	9860.7
20°	10044.4	10253.9	10973.5	11766.0	11816.1	11711.4	11873.8	12215.4	12441.7	12048.5	10713.9
22.5°	11146.6	11392.5	12204.8	12320.2	11615.7	11219.5	11240.7	11776.6	12701.3	12995.7	11898.1
25°	12490.2	12790.8	13616.7	13146.1	11699.2	10926.5	10918.9	11415.4	12954.8	13944.6	13217.4
27.5°	13824.7	14155.7	14881.4	14154.1	12043.9	10873.3	10858.1	11306.0	13202.3	14788.8	14658.2
30°	14943.6	15265.5	15891.0	14884.5	12415.9	10997.9	10924.9	11422.9	13349.5	15336.8	15708.8
32.5°	15854.6	16112.6	16618.2	15386.9	12813.6	11239.2	11081.3	11735.6	13600.0	15799.9	16674.3
35°	16856.5	17128.3	17330.2	15865.2	13259.9	11586.9	11360.7	12232.2	13985.6	16270.5	17732.6
37.5°	17999.7	18270.0	18245.7	16302.5	13826.2	12162.3	12018.1	13018.6	14585.3	16736.6	18913.7
40°	19118.7	19395.0	19197.6	16780.6	14491.2	13111.2	13004.9	14199.7	15388.4	17333.3	20298.3
42.5°	20166.2	20465.4	20043.3	17233.1	15283.7	14307.5	14489.7	15721.0	16393.5	18068.1	21491.6
45°	21010.3	21315.5	20752.3	17673.3	16118.8	15758.9	16306.9	17406.2	17602.0	18689.0	22297.8
47.5°	21623.7	21912.1	21244.1	18113.7	17187.5	17533.7	18488.6	19173.3	18693.6	19228.0	22870.1
50°	22015.4	22240.0	21388.3	18664.8	18590.3	19604.5	20761.4	21095.4	19721.4	19713.8	23565.5
52.5°	22264.4	22366.1	21494.6	19240.1	20053.9	21859.0	22987.1	23091.8	20779.6	20248.2	24502.2
55°	23122.1	23204.1	22247.7	19937.0	21263.9	23834.2	25000.1	24903.0	21977.4	21294.2	25607.4
57.5°	24585.7	24672.2	23803.8	20939.0	22243.1	25054.8	26459.1	26633.8	23381.8	22763.9	26791.7
60°	25320.5	25481.5	25171.7	22208.2	23192.0	25835.2	27453.5	28010.8	25136.8	24701.1	27939.4
62.5°	24654.1	24887.8	25337.2	23615.6	24134.8	26264.8	27763.3	28504.1	26934.4	26958.6	28646.9
65°	23324.1	23510.8	24273.0	24386.8	24681.4	26211.7	26998.1	27814.9	28035.0	29032.5	28608.9
67.5°	21717.8	21787.7	22434.4	24447.5	23888.9	24614.6	24699.5	25303.8	27165.1	29767.3	27459.7
70°	19405.6	19443.5	20008.3	22414.7	20529.1	20688.5	20562.5	20685.5	23354.5	27977.4	24558.4
72.5°	15617.7	15713.3	16516.4	18614.6	14955.8	14495.7	15485.6	15431.0	17986.1	23636.8	18239.6
75°	11498.8	11664.3	12877.3	14993.7	10496.9	9494.8	10217.5	10410.3	12786.2	18283.7	11406.2
77.5°	8051.0	8174.0	9349.1	11022.2	7597.1	6789.4	6528.3	6757.5	8439.6	13226.6	5746.3
80°	4638.1	4683.6	5433.6	6364.2	5119.3	5857.2	5306.1	5464.0	5057.1	5884.5	2471.6
82.5°	3034.9	3042.4	3335.5	3787.9	3188.2	3704.4	2741.8	3505.5	3110.8	2363.8	804.7
85°	1639.6	1648.7	1934.2	2688.7	1805.2	1020.2	599.7	1231.2	1923.6	542.0	220.1
87.5°	180.6	165.4	583.0	977.8	501.0	92.6	31.9	138.1	308.2	34.9	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°	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9
2.5°	11497.3	11371.3	11057.0	10724.5	10457.4	10206.9	9954.8	9646.6	9408.3	9359.7	9280.7
5°	11251.3	10852.1	10193.2	9531.2	8998.4	8325.8	7899.2	7566.7	7241.9	7222.1	7156.8
7.5°	10392.1	9866.8	8939.1	8023.7	7273.7	6633.0	5986.2	5553.6	5213.5	5093.5	5022.2
10°	9566.2	8975.6	7817.2	6772.7	6103.1	5536.8	5081.4	4629.0	4219.1	3936.7	3809.2
12.5°	8989.2	8336.4	7059.6	6159.3	5679.6	5142.1	4586.5	4021.7	3549.6	3209.5	3001.4
15°	8766.0	8069.3	6806.1	5916.4	5324.4	4644.1	3933.6	3288.5	2764.6	2456.5	2269.7
17.5°	9031.7	8221.0	6786.3	5620.4	4792.9	3947.3	3162.4	2400.2	1906.9	1673.1	1553.1
20°	9705.8	8703.8	6778.8	5257.6	4161.4	3121.4	2142.2	1578.9	1279.9	1149.3	1093.1
22.5°	10659.2	9320.2	6839.5	4899.2	3504.0	2230.2	1478.7	1159.9	1006.5	936.8	904.8
25°	11886.0	10185.6	7011.0	4574.4	2886.1	1663.9	1152.3	971.6	863.8	809.2	786.4
27.5°	13193.1	11181.6	7278.3	4291.9	2383.6	1326.9	986.8	832.0	754.6	716.5	695.3
30°	14271.0	12335.4	7548.5	3977.7	2019.2	1156.9	903.3	759.1	669.5	645.2	625.5
32.5°	15213.8	13208.3	7739.8	3693.8	1780.8	1027.8	816.8	678.6	617.9	570.9	549.6
35°	16190.1	13935.6	7733.7	3494.9	1616.9	930.6	743.9	607.3	534.4	479.7	463.1
37.5°	17246.8	14756.9	7601.6	3324.9	1545.5	853.2	702.9	569.4	496.4	441.8	420.5
40°	18484.0	15619.3	7466.5	3165.4	1525.8	791.0	674.1	539.0	461.5	408.4	387.2
42.5°	19689.5	16396.5	7348.0	3047.0	1440.7	789.5	648.3	516.2	434.2	382.6	358.3
45°	20653.5	17120.7	7325.3	2975.6	1351.2	816.8	634.6	501.0	413.0	361.3	338.5
47.5°	21455.2	17907.1	7471.0	2925.5	1266.2	745.4	668.0	490.4	393.2	343.1	317.3
50°	22408.6	18872.7	7814.2	2843.5	1176.6	671.1	765.2	493.4	376.5	324.9	297.5
52.5°	23738.5	20208.7	8318.2	2705.4	1053.7	602.7	753.1	496.4	358.3	305.2	277.8
55°	25229.4	21877.2	8860.2	2476.1	882.1	513.2	645.2	475.2	323.3	283.9	258.1
57.5°	26796.2	23390.9	9182.1	2202.9	701.4	443.3	516.2	432.7	285.4	255.1	238.4
60°	27042.2	23966.3	9034.8	1867.4	557.2	385.7	382.6	440.2	255.1	224.7	212.6
62.5°	26430.3	23243.6	8322.7	1568.3	466.1	338.5	314.3	384.1	230.7	200.4	188.3
65°	25253.7	21289.7	7168.9	1413.4	432.7	290.0	261.1	270.2	202.0	174.6	164.0
67.5°	23617.1	18681.4	5886.1	1325.4	428.1	249.0	223.2	204.9	174.6	151.8	142.7
70°	20270.9	15563.1	4695.7	1276.8	416.0	209.5	188.3	167.0	145.8	129.0	121.5
72.5°	14919.3	11028.2	3652.8	1223.7	419.0	167.0	164.0	138.1	116.9	100.2	97.2
75°	8620.4	6300.5	2395.8	991.4	399.3	129.0	136.7	97.2	82.0	69.9	69.9
77.5°	4594.1	3842.5	912.5	413.0	145.8	82.0	77.4	57.7	51.6	42.5	41.0
80°	2002.5	1691.3	274.8	115.4	80.5	44.1	28.9	25.8	22.7	18.3	16.7
82.5°	709.0	611.8	89.6	56.2	34.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	161.0	115.4	0.0	13.7	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°	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9
2.5°	9119.9	9086.4	8889.0	8896.7	8931.6	8981.7	8863.2	8917.9	9065.2	9206.4	9259.5
5°	7052.0	7059.6	6939.7	7014.1	7080.9	7126.4	6935.1	6938.2	7055.1	7214.5	7298.0
7.5°	4969.1	4957.0	4963.0	5140.7	5266.6	5175.5	5246.8	4999.4	5014.6	5128.4	5043.5
10°	3693.8	3526.7	3432.7	3566.2	3704.4	3654.3	3531.3	3450.8	3507.0	3633.0	3623.9
12.5°	2902.8	2662.9	2521.7	2426.1	2540.0	2445.8	2442.8	2372.9	2297.0	2310.7	2512.7
15°	2183.2	2008.6	1841.6	1688.2	1685.2	1653.3	1490.8	1308.7	1293.5	1302.6	1407.4
17.5°	1501.5	1442.3	1373.9	1241.8	1207.0	1073.3	915.4	842.6	806.2	822.8	857.8
20°	1055.2	1032.3	1040.0	968.6	918.5	791.0	698.4	669.5	663.4	680.1	696.9
22.5°	874.4	833.5	828.9	797.0	746.9	654.3	604.2	587.5	580.0	595.2	607.3
25°	765.2	724.2	707.5	687.8	634.6	570.9	540.5	525.3	517.7	526.8	534.4
27.5°	674.1	636.2	621.0	607.3	555.7	510.1	485.8	472.2	466.1	469.1	476.7
30°	605.8	572.3	552.6	535.9	491.9	460.0	438.8	425.1	419.0	419.0	426.6
32.5°	534.4	516.2	498.0	476.7	435.7	414.4	393.2	378.0	372.0	373.5	379.5
35°	444.8	438.8	443.3	423.6	388.6	370.5	349.1	332.5	327.9	329.5	335.5
37.5°	394.7	367.4	384.1	373.5	353.7	329.5	302.1	286.9	279.4	283.9	286.9
40°	362.8	329.5	317.3	327.9	324.9	285.4	261.1	245.9	239.9	241.4	244.4
42.5°	335.5	296.0	268.8	267.2	285.4	249.0	223.2	209.5	202.0	202.0	204.9
45°	309.7	267.2	233.8	208.0	239.9	211.0	186.8	174.6	165.4	165.4	167.0
47.5°	290.0	242.9	203.4	170.0	180.6	173.1	153.3	141.2	132.1	132.1	133.6
50°	271.7	218.6	176.2	142.7	135.1	142.7	124.5	110.9	104.8	103.2	106.3
52.5°	252.0	194.3	150.3	121.5	106.3	107.8	97.2	88.0	80.5	80.5	83.5
55°	232.3	174.6	130.6	103.2	88.0	80.5	77.4	71.4	65.3	65.3	68.3
57.5°	212.6	153.3	110.9	85.1	69.9	63.7	63.7	59.2	54.7	54.7	57.7
60°	194.3	132.1	91.1	69.9	54.7	53.1	54.7	50.1	47.0	47.0	50.1
62.5°	173.1	112.3	74.4	57.7	44.1	42.5	47.0	44.1	41.0	41.0	44.1
65°	147.3	95.7	59.2	44.1	33.4	33.4	39.5	36.4	33.4	33.4	36.4
67.5°	124.5	80.5	45.6	31.9	24.3	25.8	33.4	30.4	28.9	28.9	31.9
70°	103.2	62.2	31.9	19.7	13.7	19.7	25.8	25.8	25.8	25.8	28.9
72.5°	77.4	42.5	18.3	7.5	6.1	13.7	21.2	24.3	22.7	22.7	27.3
75°	50.1	24.3	6.1	0.0	0.0	7.5	16.7	19.7	19.7	18.3	22.7
77.5°	28.9	7.5	0.0	0.0	0.0	0.0	10.6	9.1	7.5	6.1	10.6
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: P383366

CATALOG NUMBER: GLEON-SA6D-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9	10751.9
2.5°	9473.6	9652.7	9904.7	10171.9	10583.4	10909.7	11230.1	11504.9	11611.2	11655.2
5°	7498.4	7761.0	8130.0	8603.6	9346.0	10014.0	10691.2	11372.8	11668.8	11743.3
7.5°	5380.5	5716.0	6185.1	6778.8	7648.7	8514.1	9459.9	10460.3	10918.9	11034.3
10°	3982.3	4392.2	4929.6	5555.1	6385.6	7275.2	8306.1	9449.2	9973.1	10126.4
12.5°	2825.4	3379.5	4099.1	4859.8	5579.4	6373.4	7416.4	8676.5	9226.0	9391.6
15°	1659.4	2195.3	3047.0	4065.7	4987.3	5791.9	6851.6	8280.2	8886.0	9053.1
17.5°	951.9	1219.1	1862.8	2998.5	4249.4	5363.8	6674.0	8378.9	9092.5	9247.4
20°	727.3	812.2	1073.3	1931.2	3387.1	4943.3	6674.0	8937.6	9816.6	10044.4
22.5°	636.2	698.4	804.7	1152.3	2492.9	4492.4	6751.4	9745.3	10894.6	11146.6
25°	564.8	621.0	712.1	866.9	1700.4	3956.5	6935.1	10736.7	12163.8	12490.2
27.5°	505.6	558.7	640.7	759.1	1162.9	3309.7	7182.6	11899.7	13563.6	13824.7
30°	452.5	502.6	576.9	660.4	897.3	2576.4	7393.6	12995.7	14662.7	14943.6
32.5°	402.3	447.9	514.7	576.9	734.8	1905.3	7416.4	13864.2	15575.2	15854.6
35°	355.3	396.3	457.0	505.6	608.8	1504.5	7062.6	14617.2	16487.6	16856.5
37.5°	309.7	349.1	402.3	438.8	535.9	1226.7	6522.1	15456.8	17658.1	17999.7
40°	267.2	302.1	356.8	381.1	507.0	942.8	5934.6	16337.3	18805.9	19118.7
42.5°	227.8	261.1	314.3	361.3	444.8	704.4	5300.0	17163.2	19838.3	20166.2
45°	189.8	224.7	277.8	382.6	368.9	526.8	4621.4	17711.3	20653.5	21010.3
47.5°	153.3	192.8	265.7	364.3	294.6	387.2	4084.0	18230.5	21271.5	21623.7
50°	123.0	162.5	299.1	324.9	241.4	296.0	3859.2	18695.1	21676.8	22015.4
52.5°	100.2	136.7	282.4	249.0	202.0	244.4	3980.7	19448.1	22051.9	22264.4
55°	83.5	107.8	170.0	173.1	171.6	208.0	4131.0	20529.1	23022.0	23122.1
57.5°	72.8	86.5	118.4	133.6	144.2	185.2	4134.0	22080.7	24523.5	24585.7
60°	62.2	75.9	98.7	107.8	124.5	165.4	3983.8	22622.6	25114.1	25320.5
62.5°	54.7	66.8	82.0	89.6	104.8	148.8	3631.5	21837.8	24303.3	24654.1
65°	48.6	60.7	68.3	75.9	92.6	133.6	3051.6	20268.0	22958.2	23324.1
67.5°	42.5	53.1	60.7	68.3	83.5	118.4	2246.9	18444.5	21414.2	21717.8
70°	37.9	47.0	54.7	60.7	72.8	100.2	1363.3	15651.1	19279.6	19405.6
72.5°	36.4	42.5	50.1	54.7	63.7	88.0	690.7	11501.9	15412.7	15617.7
75°	31.9	37.9	45.6	48.6	56.2	75.9	280.9	7554.6	11169.3	11498.8
77.5°	25.8	34.9	41.0	44.1	48.6	62.2	142.7	4827.8	7838.4	8051.0
80°	9.1	25.8	34.9	36.4	41.0	45.6	94.1	2643.2	4547.0	4638.1
82.5°	0.0	16.7	27.3	25.8	28.9	34.9	60.7	1257.0	3001.4	3034.9
85°	0.0	7.5	21.2	16.7	12.1	24.3	21.2	274.8	1574.4	1639.6
87.5°	0.0	0.0	1.5	7.5	6.1	9.1	3.1	1.5	142.7	180.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)