

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: P324300

Luminaire Tested: **GLEON-SA6D-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324300
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 25291 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

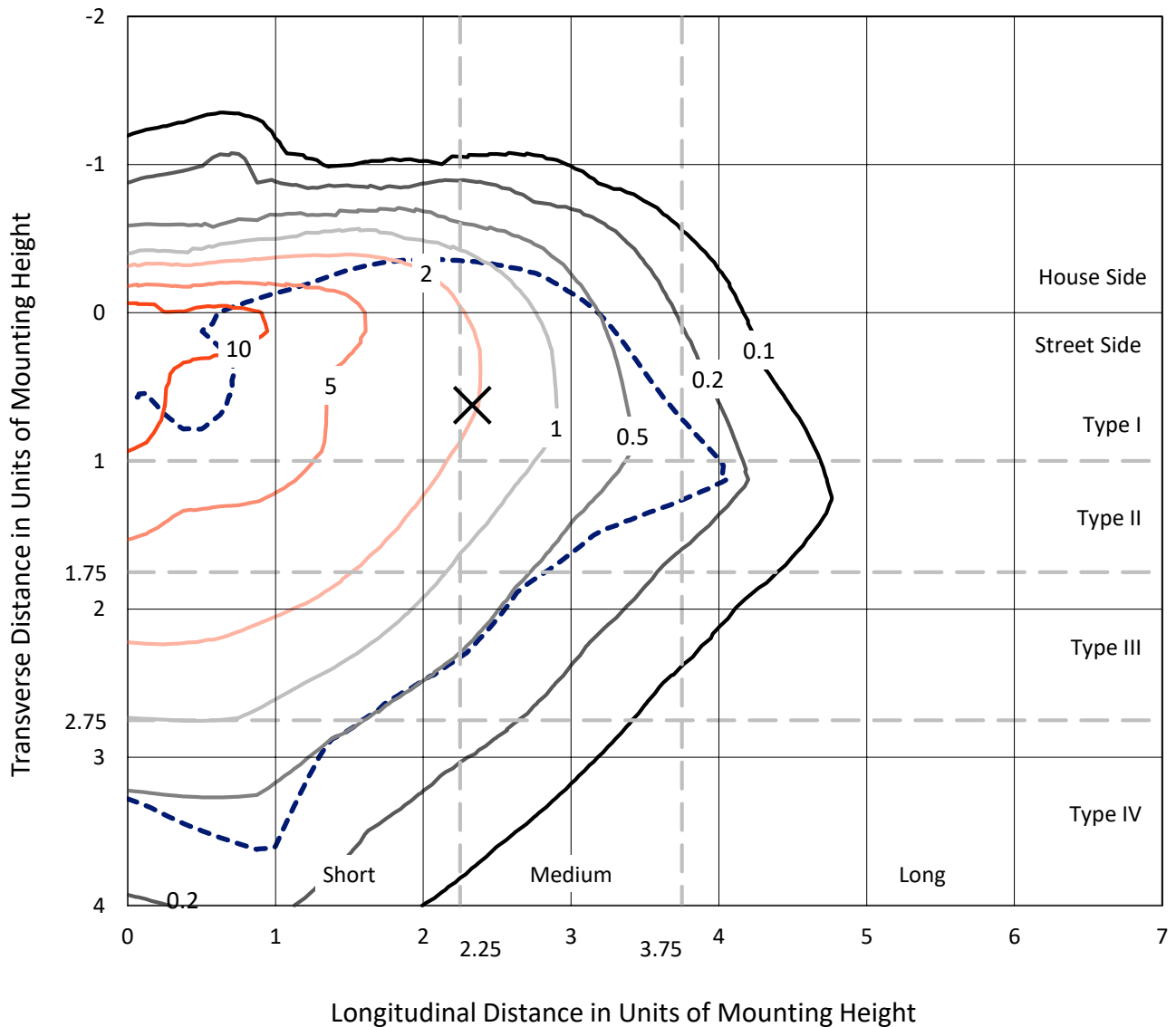
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324300
 CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

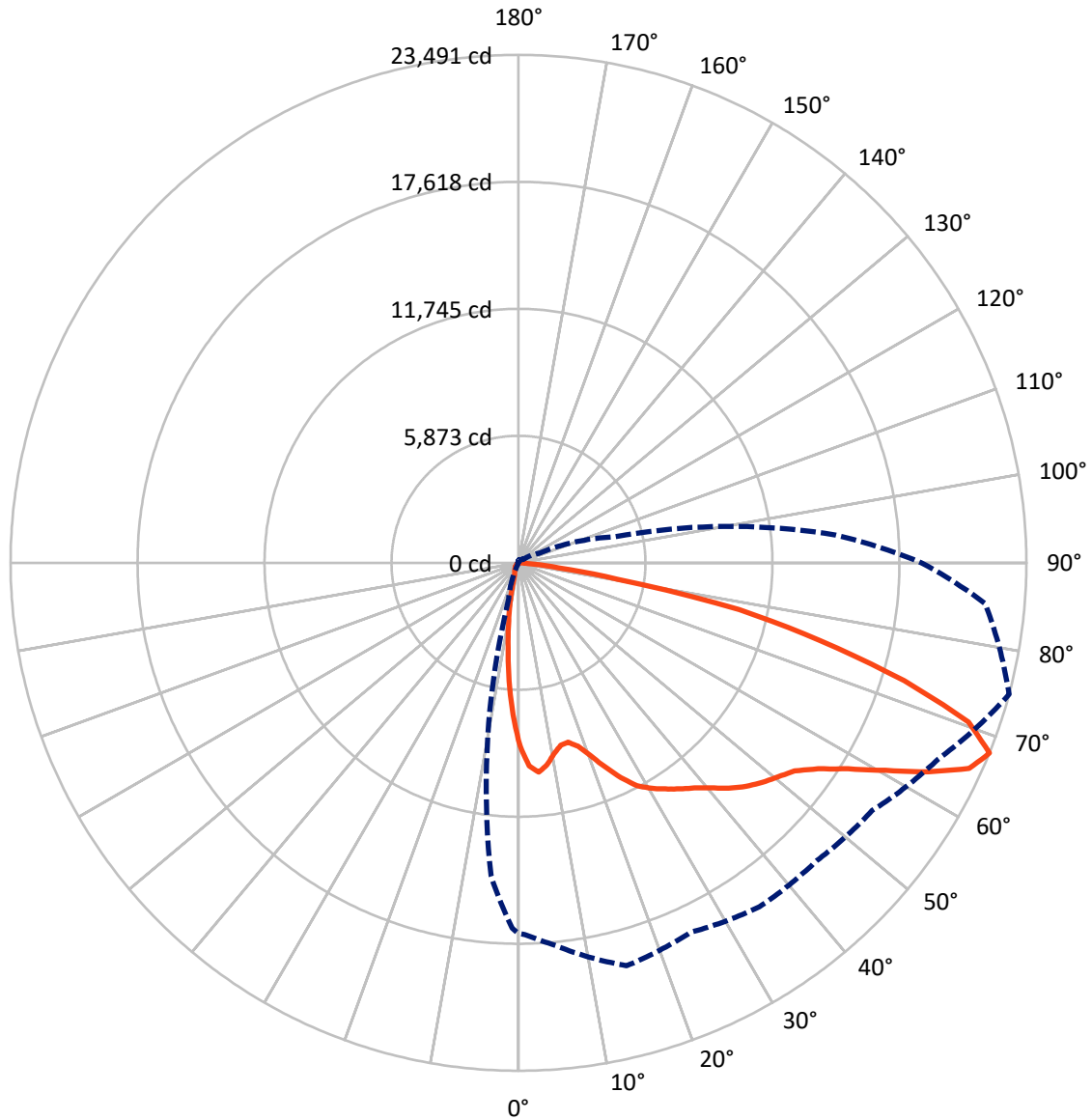
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P324300
CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P324300
 CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

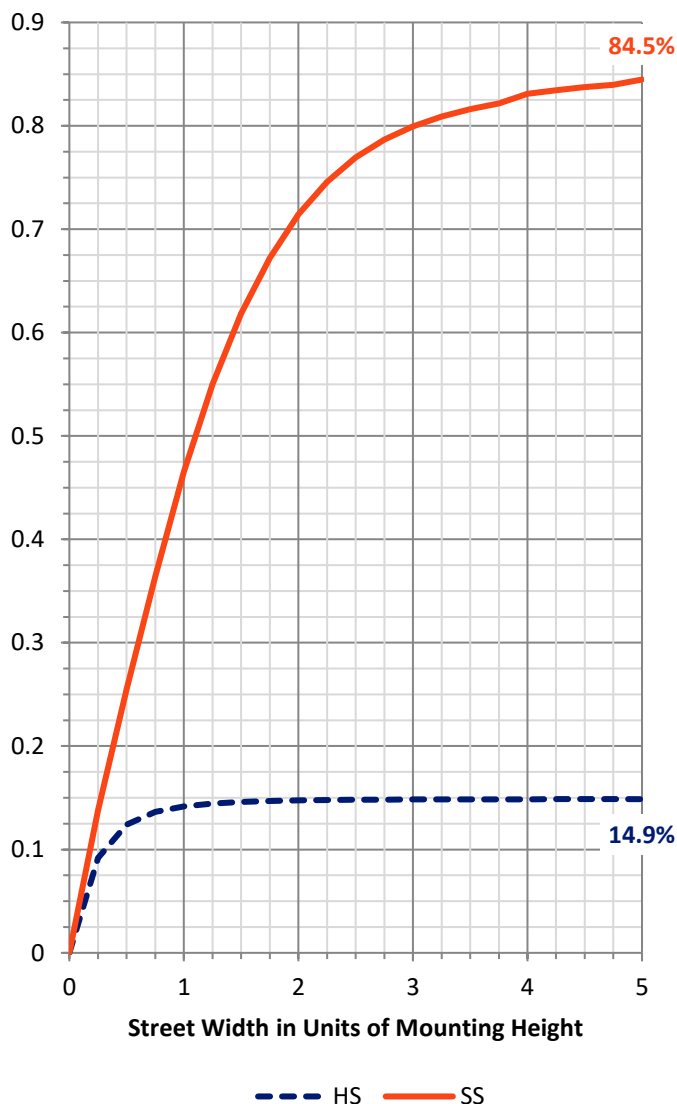
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3795.2	0.0	3795.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	21495.8	0.0	21495.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	25291.0	0.0	25291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.6	2.5
10°-20°	1267.3	5.0
20°-30°	1792.8	7.1
30°-40°	2635.9	10.4
40°-50°	3788.7	15.0
50°-60°	5333.5	21.1
60°-70°	6229.1	24.6
70°-80°	3177.9	12.6
80°-90°	422.2	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°	25291.0	100.0
0°-180°	25291.0	100.0

Coefficient of Utilization

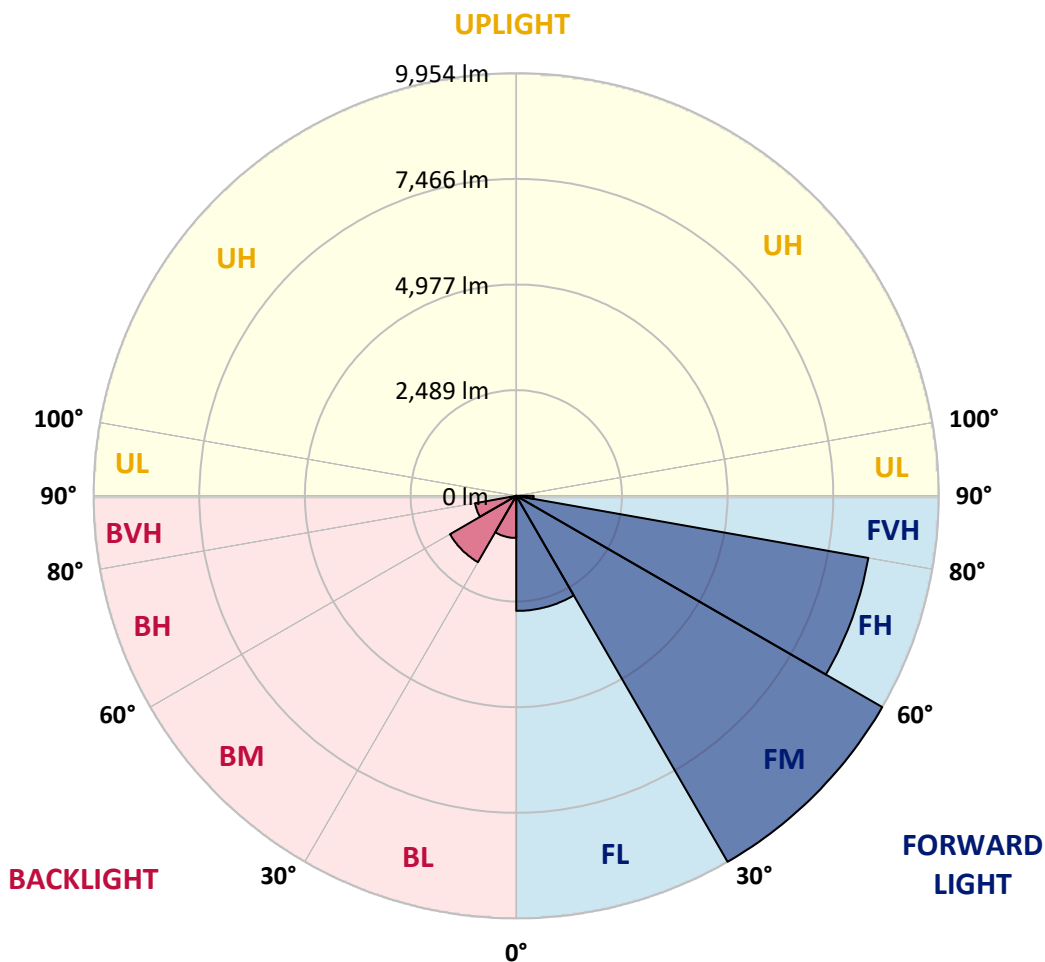


REPORT NUMBER: P324300
 CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2711.2	10.7			
FM (30°-60°)	9954.1	39.4			
FH (60°-80°)	8421.2	33.3			G4/12000
FVH (80°-90°)	409.4	1.6			G3/500
BL (0°-30°)	992.5	3.9	B2/1000		
BM (30°-60°)	1804.1	7.1	B2/2500		
BH (60°-80°)	985.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	12.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P324300

CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7
2.5°	9197.5	9211.9	9286.2	9458.7	9646.8	9661.2	9788.2	9657.6	9613.3	9402.4	9184.4
5°	9267.0	9322.1	9577.3	10084.1	10523.8	10665.2	10765.8	10509.4	10239.9	9724.7	9174.8
7.5°	8707.5	8799.8	9201.1	10152.4	10938.3	11285.8	11351.7	10950.3	10290.2	9442.0	8615.3
10°	7991.1	8096.5	8580.5	9749.9	10829.3	11424.8	11515.8	10989.9	10041.0	8984.3	8010.3
12.5°	7411.2	7534.6	8029.4	9297.0	10454.3	11113.3	11293.0	10856.9	9825.3	8659.6	7596.9
15°	7144.1	7285.4	7805.4	9004.7	10038.6	10557.4	10705.9	10517.8	9705.5	8608.1	7501.1
17.5°	7297.4	7450.8	7987.5	9029.8	9648.0	9869.7	9989.5	10066.1	9705.5	8918.4	7781.4
20°	7926.4	8091.7	8659.6	9285.0	9324.5	9241.9	9370.1	9639.6	9818.1	9507.8	8454.7
22.5°	8796.2	8990.3	9631.2	9722.3	9166.4	8853.7	8870.5	9293.4	10023.0	10255.4	9389.2
25°	9856.5	10093.7	10745.4	10374.0	9232.3	8622.5	8616.5	9008.3	10223.1	11004.2	10430.4
27.5°	10909.6	11170.8	11743.4	11169.6	9504.3	8580.5	8568.6	8922.0	10418.4	11670.4	11567.3
30°	11792.6	12046.5	12540.1	11745.8	9797.8	8678.8	8621.3	9014.2	10534.6	12102.9	12396.4
32.5°	12511.4	12715.1	13114.0	12142.4	10111.7	8869.3	8744.7	9261.0	10732.3	12468.3	13158.4
35°	13302.1	13516.6	13675.9	12519.8	10463.9	9143.6	8965.1	9652.8	11036.6	12839.7	13993.4
37.5°	14204.3	14417.5	14398.3	12864.8	10910.8	9597.7	9483.9	10273.4	11509.8	13207.5	14925.5
40°	15087.2	15305.3	15149.5	13242.2	11435.5	10346.5	10262.6	11205.5	12143.6	13678.3	16018.1
42.5°	15913.9	16149.9	15816.9	13599.2	12060.9	11290.6	11434.3	12406.0	12936.7	14258.2	16959.8
45°	16580.0	16820.8	16376.4	13946.7	12719.9	12435.9	12868.4	13735.8	13890.4	14748.2	17596.0
47.5°	17064.0	17291.7	16764.5	14294.1	13563.3	13836.5	14590.0	15130.4	14751.8	15173.5	18047.7
50°	17373.1	17550.5	16878.3	14729.0	14670.3	15470.6	16383.5	16647.1	15562.9	15556.9	18596.4
52.5°	17569.6	17649.9	16962.2	15183.1	15825.2	17249.7	18139.9	18222.6	16397.9	15978.6	19335.6
55°	18246.5	18311.2	17556.4	15733.0	16780.1	18808.4	19728.5	19651.9	17343.2	16804.1	20207.8
57.5°	19401.5	19469.8	18784.5	16523.7	17552.9	19771.7	20879.9	21017.7	18451.4	17963.8	21142.3
60°	19981.3	20108.3	19863.9	17525.3	18301.6	20387.5	21664.6	22104.3	19836.4	19492.5	22048.0
62.5°	19455.4	19639.9	19994.5	18635.9	19045.6	20726.5	21909.0	22493.7	21254.9	21274.0	22606.3
65°	18405.9	18553.2	19154.7	19244.5	19476.9	20684.6	21305.2	21949.8	22123.5	22910.6	22576.3
67.5°	17138.3	17193.4	17703.8	19292.4	18851.6	19424.2	19491.3	19968.2	21437.0	23490.5	21669.4
70°	15313.7	15343.6	15789.3	17688.2	16200.2	16326.0	16226.6	16323.6	18429.8	22077.9	19379.9
72.5°	12324.5	12400.0	13033.8	14689.5	11802.1	11439.1	12220.3	12177.1	14193.5	18652.7	14393.6
75°	9074.1	9204.7	10162.0	11832.1	8283.4	7492.7	8063.0	8215.1	10090.1	14428.3	9001.1
77.5°	6353.3	6450.4	7377.7	8698.0	5995.1	5357.7	5151.7	5332.6	6660.0	10437.5	4534.7
80°	3660.1	3696.0	4287.9	5022.3	4039.9	4622.1	4187.2	4311.8	3990.8	4643.7	1950.5
82.5°	2394.9	2400.9	2632.1	2989.2	2515.9	2923.3	2163.7	2766.3	2454.8	1865.4	635.0
85°	1293.9	1301.1	1526.3	2121.8	1424.5	805.1	473.2	971.6	1517.9	427.7	173.7
87.5°	142.6	130.6	460.1	771.6	395.4	73.1	25.2	109.0	243.2	27.6	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: P324300

CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7
2.5°	9072.9	8973.5	8725.5	8463.1	8252.3	8054.6	7855.7	7612.5	7424.4	7386.1	7323.8
5°	8878.9	8563.8	8043.8	7521.5	7100.9	6570.2	6233.5	5971.2	5714.8	5699.2	5647.7
7.5°	8200.8	7786.2	7054.2	6331.8	5739.9	5234.3	4724.0	4382.5	4114.2	4019.5	3963.2
10°	7549.0	7083.0	6168.8	5344.6	4816.2	4369.3	4009.9	3652.9	3329.4	3106.6	3005.9
12.5°	7093.7	6578.6	5571.0	4860.6	4482.0	4057.8	3619.4	3173.7	2801.1	2532.7	2368.6
15°	6917.6	6367.7	5370.9	4668.9	4201.6	3664.9	3104.2	2595.0	2181.7	1938.5	1791.1
17.5°	7127.3	6487.5	5355.4	4435.2	3782.3	3115.0	2495.6	1894.1	1504.8	1320.3	1225.6
20°	7659.2	6868.5	5349.4	4148.9	3283.9	2463.2	1690.5	1246.0	1010.0	906.9	862.6
22.5°	8411.6	7354.9	5397.3	3866.2	2765.1	1760.0	1166.9	915.3	794.3	739.2	714.0
25°	9379.7	8037.8	5532.7	3609.8	2277.5	1313.1	909.3	766.8	681.7	638.6	620.6
27.5°	10411.2	8823.8	5743.5	3386.9	1881.0	1047.1	778.7	656.5	595.4	565.5	548.7
30°	11261.8	9734.3	5956.8	3138.9	1593.4	912.9	712.8	599.0	528.3	509.2	493.6
32.5°	12005.8	10423.2	6107.7	2914.9	1405.3	811.1	644.6	535.5	487.6	450.5	433.7
35°	12776.2	10997.0	6102.9	2757.9	1275.9	734.4	587.1	479.2	421.7	378.6	365.4
37.5°	13610.0	11645.2	5998.7	2623.8	1219.6	673.3	554.7	449.3	391.8	348.6	331.9
40°	14586.4	12325.7	5892.1	2498.0	1204.1	624.2	531.9	425.3	364.2	322.3	305.5
42.5°	15537.7	12939.1	5798.6	2404.5	1137.0	623.0	511.6	407.3	342.6	301.9	282.7
45°	16298.5	13510.6	5780.7	2348.2	1066.3	644.6	500.8	395.4	325.9	285.1	267.2
47.5°	16931.1	14131.2	5895.7	2308.7	999.2	588.3	527.1	387.0	310.3	270.8	250.4
50°	17683.4	14893.1	6166.4	2244.0	928.5	529.5	603.8	389.4	297.1	256.4	234.8
52.5°	18732.9	15947.4	6564.2	2135.0	831.5	475.6	594.2	391.8	282.7	240.8	219.2
55°	19909.4	17264.1	6991.9	1954.0	696.1	404.9	509.2	375.0	255.2	224.0	203.7
57.5°	21145.9	18458.6	7245.9	1738.4	553.5	349.8	407.3	341.4	225.2	201.3	188.1
60°	21339.9	18912.7	7129.7	1473.6	439.7	304.3	301.9	347.4	201.3	177.3	167.7
62.5°	20857.1	18342.4	6567.8	1237.6	367.8	267.2	248.0	303.1	182.1	158.1	148.6
65°	19928.6	16800.5	5657.3	1115.4	341.4	228.8	206.1	213.3	159.3	137.8	129.4
67.5°	18637.1	14742.2	4644.9	1045.9	337.9	196.5	176.1	161.7	137.8	119.8	112.6
70°	15996.6	12281.4	3705.6	1007.6	328.3	165.3	148.6	131.8	115.0	101.8	95.8
72.5°	11773.4	8702.7	2882.5	965.6	330.7	131.8	129.4	109.0	92.3	79.1	76.7
75°	6802.6	4972.0	1890.5	782.3	315.1	101.8	107.8	76.7	64.7	55.1	55.1
77.5°	3625.3	3032.3	720.0	325.9	115.0	64.7	61.1	45.5	40.7	33.5	32.3
80°	1580.2	1334.6	216.8	91.1	63.5	34.7	22.8	20.4	18.0	14.4	13.2
82.5°	559.5	482.8	70.7	44.3	27.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	127.0	91.1	0.0	10.8	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: P324300

CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7
2.5°	7196.8	7170.4	7014.7	7020.7	7048.2	7087.8	6994.3	7037.4	7153.6	7265.1	7307.0
5°	5565.0	5571.0	5476.4	5535.1	5587.8	5623.7	5472.8	5475.2	5567.4	5693.2	5759.1
7.5°	3921.3	3911.7	3916.5	4056.6	4156.1	4084.2	4140.5	3945.2	3957.2	4047.1	3980.0
10°	2914.9	2783.1	2708.8	2814.3	2923.3	2883.7	2786.7	2723.2	2767.5	2867.0	2859.8
12.5°	2290.7	2101.4	1990.0	1914.5	2004.4	1930.1	1927.7	1872.6	1812.7	1823.5	1982.8
15°	1722.8	1585.0	1453.3	1332.2	1329.9	1304.7	1176.5	1032.7	1020.8	1027.9	1110.6
17.5°	1184.9	1138.2	1084.2	980.0	952.5	847.0	722.4	664.9	636.2	649.4	676.9
20°	832.7	814.7	820.7	764.4	724.8	624.2	551.1	528.3	523.6	536.7	549.9
22.5°	690.1	657.7	654.1	629.0	589.4	516.4	476.8	463.7	457.7	469.6	479.2
25°	603.8	571.5	558.3	542.7	500.8	450.5	426.5	414.5	408.5	415.7	421.7
27.5°	531.9	502.0	490.0	479.2	438.5	402.5	383.4	372.6	367.8	370.2	376.2
30°	478.0	451.7	436.1	422.9	388.2	363.0	346.2	335.5	330.7	330.7	336.7
32.5°	421.7	407.3	393.0	376.2	343.8	327.1	310.3	298.3	293.5	294.7	299.5
35°	351.0	346.2	349.8	334.3	306.7	292.3	275.6	262.4	258.8	260.0	264.8
37.5°	311.5	289.9	303.1	294.7	279.1	260.0	238.4	226.4	220.4	224.0	226.4
40°	286.3	260.0	250.4	258.8	256.4	225.2	206.1	194.1	189.3	190.5	192.9
42.5°	264.8	233.6	212.1	210.9	225.2	196.5	176.1	165.3	159.3	159.3	161.7
45°	244.4	210.9	184.5	164.1	189.3	166.5	147.4	137.8	130.6	130.6	131.8
47.5°	228.8	191.7	160.5	134.2	142.6	136.6	121.0	111.4	104.2	104.2	105.4
50°	214.5	172.5	139.0	112.6	106.6	112.6	98.2	87.5	82.7	81.5	83.9
52.5°	198.9	153.4	118.6	95.8	83.9	85.1	76.7	69.5	63.5	63.5	65.9
55°	183.3	137.8	103.0	81.5	69.5	63.5	61.1	56.3	51.5	51.5	53.9
57.5°	167.7	121.0	87.5	67.1	55.1	50.3	50.3	46.7	43.1	43.1	45.5
60°	153.4	104.2	71.9	55.1	43.1	41.9	43.1	39.5	37.1	37.1	39.5
62.5°	136.6	88.7	58.7	45.5	34.7	33.5	37.1	34.7	32.3	32.3	34.7
65°	116.2	75.5	46.7	34.7	26.4	26.4	31.1	28.8	26.4	26.4	28.8
67.5°	98.2	63.5	35.9	25.2	19.2	20.4	26.4	24.0	22.8	22.8	25.2
70°	81.5	49.1	25.2	15.6	10.8	15.6	20.4	20.4	20.4	20.4	22.8
72.5°	61.1	33.5	14.4	6.0	4.8	10.8	16.8	19.2	18.0	18.0	21.6
75°	39.5	19.2	4.8	0.0	0.0	6.0	13.2	15.6	15.6	14.4	18.0
77.5°	22.8	6.0	0.0	0.0	0.0	0.0	8.4	7.2	6.0	4.8	8.4
80°	6.0	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: P324300

CATALOG NUMBER: GLEON-SA6D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7	8484.7
2.5°	7475.9	7617.3	7816.2	8027.0	8351.7	8609.3	8862.1	9078.9	9162.8	9197.5
5°	5917.2	6124.5	6415.6	6789.4	7375.3	7902.4	8436.8	8974.7	9208.3	9267.0
7.5°	4245.9	4510.7	4880.9	5349.4	6035.9	6718.7	7465.1	8254.7	8616.5	8707.5
10°	3142.5	3466.0	3890.1	4383.7	5039.1	5741.1	6554.6	7456.8	7870.1	7991.1
12.5°	2229.6	2666.9	3234.8	3835.0	4402.9	5029.5	5852.5	6846.9	7280.6	7411.2
15°	1309.5	1732.4	2404.5	3208.4	3935.6	4570.6	5406.9	6534.2	7012.3	7144.1
17.5°	751.2	962.0	1470.0	2366.2	3353.4	4232.8	5266.7	6612.1	7175.2	7297.4
20°	573.9	641.0	847.0	1523.9	2672.9	3900.9	5266.7	7053.0	7746.7	7926.4
22.5°	502.0	551.1	635.0	909.3	1967.2	3545.1	5327.8	7690.4	8597.3	8796.2
25°	445.7	490.0	561.9	684.1	1341.8	3122.2	5472.8	8472.7	9598.9	9856.5
27.5°	399.0	440.9	505.6	599.0	917.7	2611.8	5668.0	9390.4	10703.5	10909.6
30°	357.0	396.6	455.3	521.2	708.1	2033.1	5834.6	10255.4	11570.9	11792.6
32.5°	317.5	353.4	406.1	455.3	579.9	1503.6	5852.5	10940.7	12291.0	12511.4
35°	280.3	312.7	360.6	399.0	480.4	1187.3	5573.4	11535.0	13011.0	13302.1
37.5°	244.4	275.6	317.5	346.2	422.9	968.0	5146.9	12197.5	13934.7	14204.3
40°	210.9	238.4	281.5	300.7	400.2	744.0	4683.2	12892.4	14840.4	15087.2
42.5°	179.7	206.1	248.0	285.1	351.0	555.9	4182.4	13544.1	15655.1	15913.9
45°	149.8	177.3	219.2	301.9	291.1	415.7	3646.9	13976.6	16298.5	16580.0
47.5°	121.0	152.2	209.7	287.5	232.4	305.5	3222.8	14386.4	16786.1	17064.0
50°	97.0	128.2	236.0	256.4	190.5	233.6	3045.5	14753.0	17106.0	17373.1
52.5°	79.1	107.8	222.8	196.5	159.3	192.9	3141.3	15347.2	17401.9	17569.6
55°	65.9	85.1	134.2	136.6	135.4	164.1	3259.9	16200.2	18167.5	18246.5
57.5°	57.5	68.3	93.4	105.4	113.8	146.2	3262.3	17424.7	19352.3	19401.5
60°	49.1	59.9	77.9	85.1	98.2	130.6	3143.7	17852.4	19818.4	19981.3
62.5°	43.1	52.7	64.7	70.7	82.7	117.4	2865.8	17233.0	19178.6	19455.4
65°	38.3	47.9	53.9	59.9	73.1	105.4	2408.1	15994.2	18117.1	18405.9
67.5°	33.5	41.9	47.9	53.9	65.9	93.4	1773.1	14555.3	16898.7	17138.3
70°	30.0	37.1	43.1	47.9	57.5	79.1	1075.9	12350.9	15214.2	15313.7
72.5°	28.8	33.5	39.5	43.1	50.3	69.5	545.1	9076.5	12162.8	12324.5
75°	25.2	30.0	35.9	38.3	44.3	59.9	221.6	5961.6	8814.2	9074.1
77.5°	20.4	27.6	32.3	34.7	38.3	49.1	112.6	3809.8	6185.6	6353.3
80°	7.2	20.4	27.6	28.8	32.3	35.9	74.3	2085.8	3588.2	3660.1
82.5°	0.0	13.2	21.6	20.4	22.8	27.6	47.9	992.0	2368.6	2394.9
85°	0.0	6.0	16.8	13.2	9.6	19.2	16.8	216.8	1242.4	1293.9
87.5°	0.0	0.0	1.2	6.0	4.8	7.2	2.4	1.2	112.6	142.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)