

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: P324271

Luminaire Tested: **GLEON-SA7A-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324271
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-SA7A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 17964 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

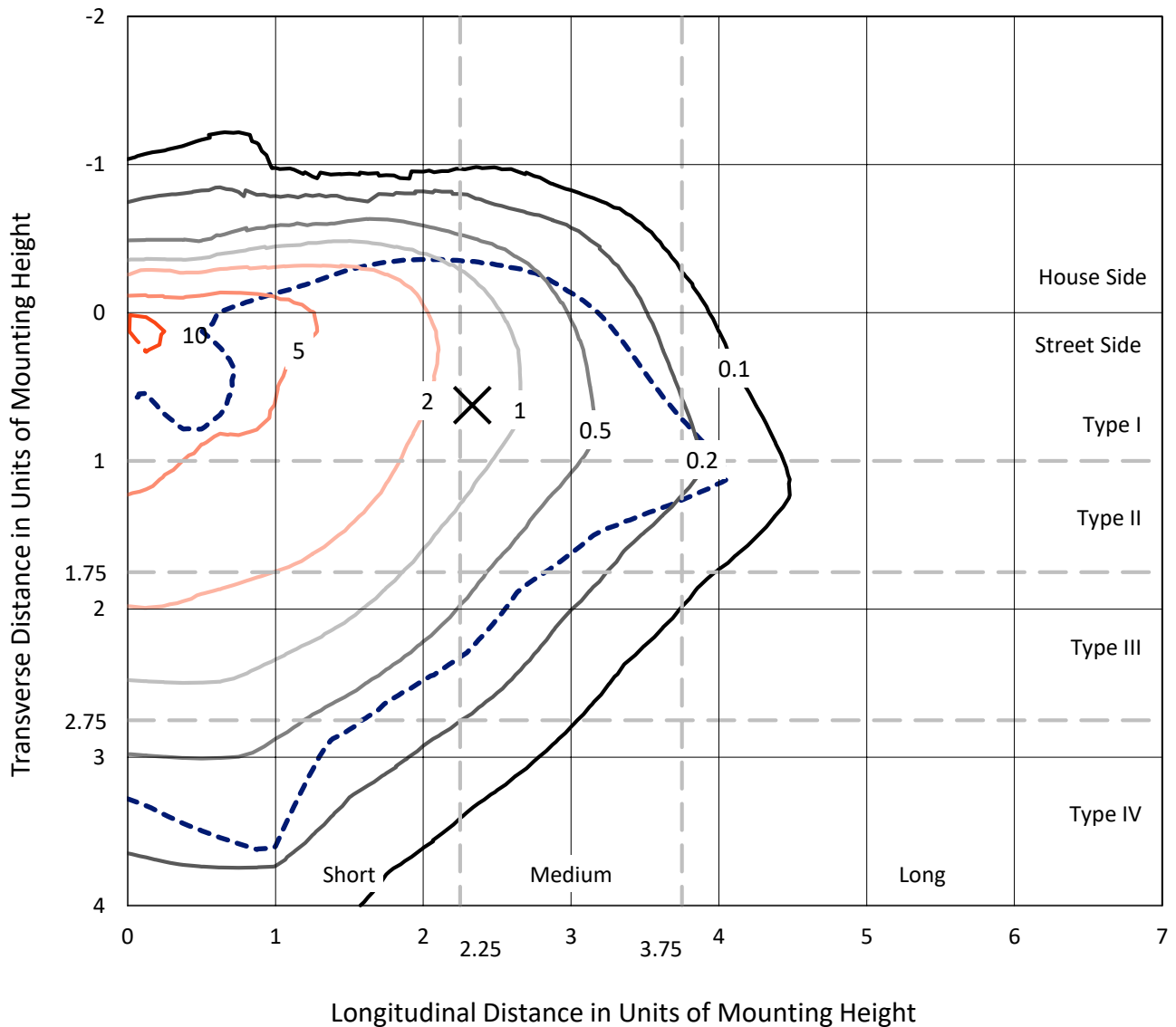
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

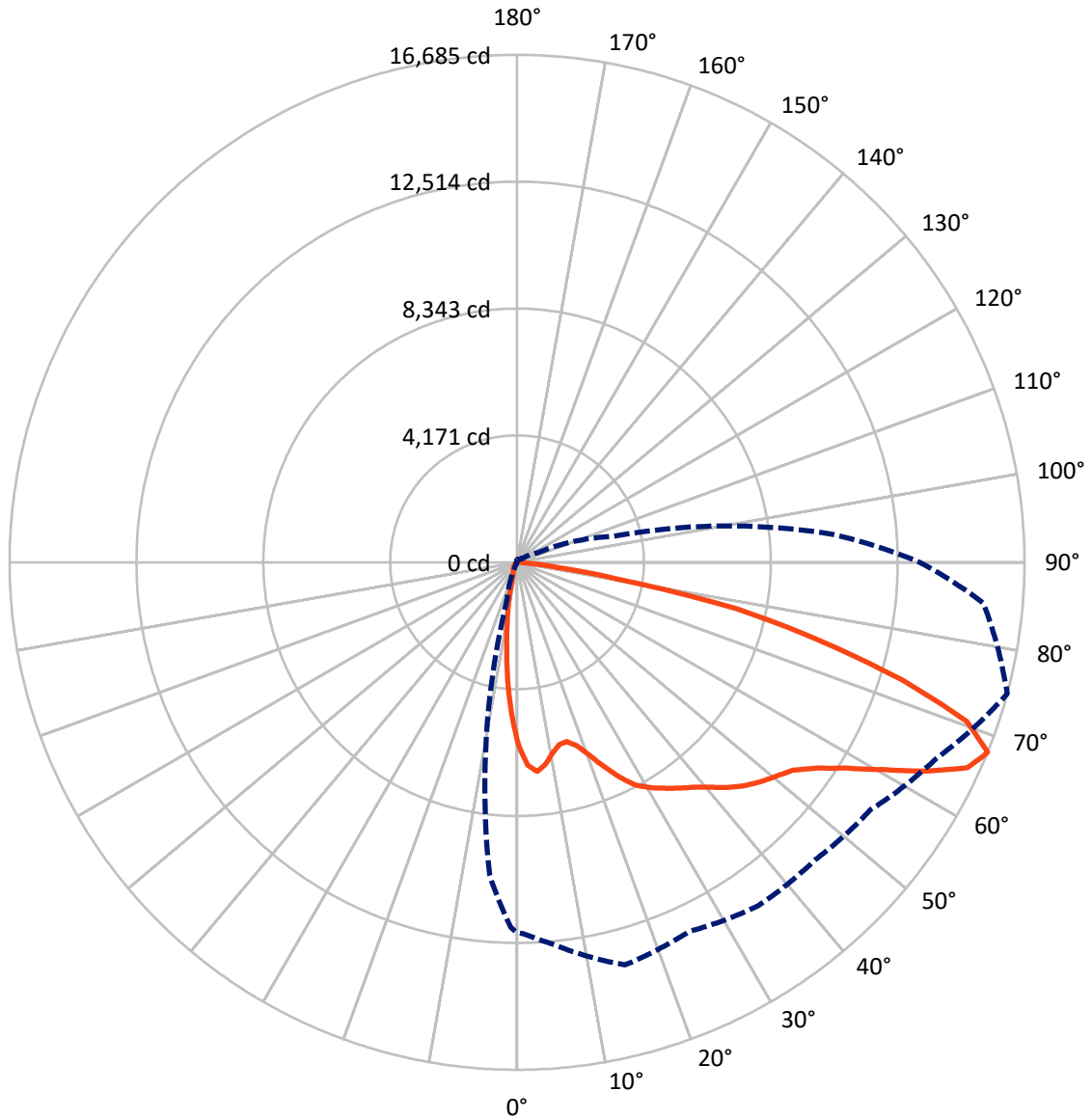
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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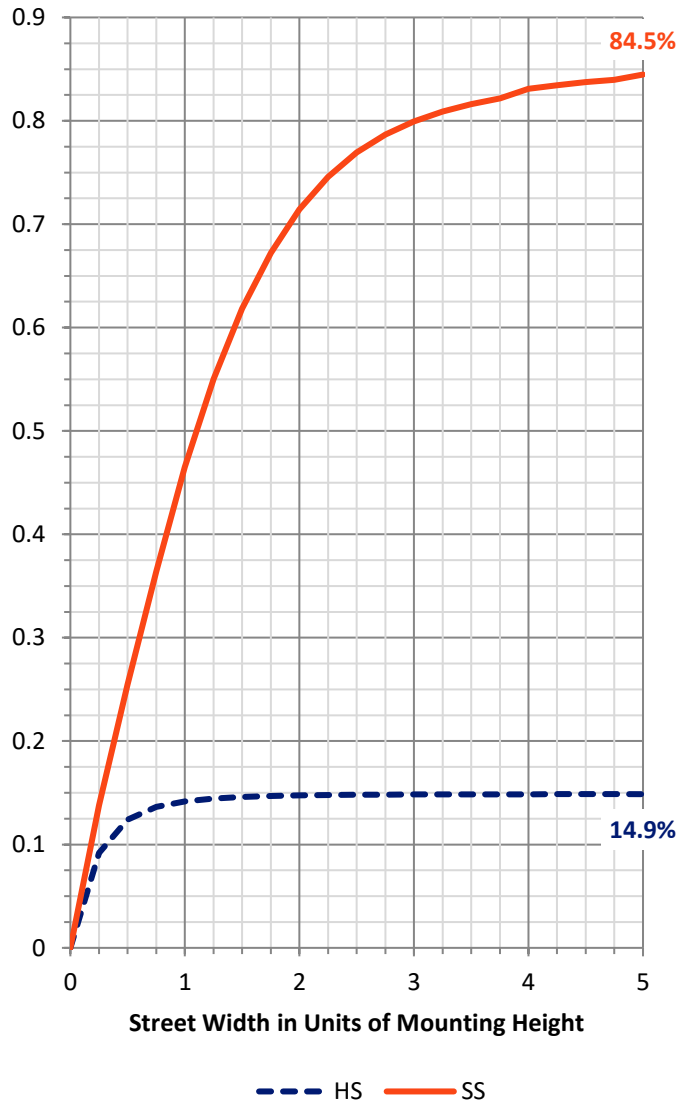
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2695.7	0.0	2695.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15268.3	0.0	15268.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	17964.0	0.0	17964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	2.5
10°-20°	900.1	5.0
20°-30°	1273.4	7.1
30°-40°	1872.3	10.4
40°-50°	2691.1	15.0
50°-60°	3788.4	21.1
60°-70°	4424.5	24.6
70°-80°	2257.2	12.6
80°-90°	299.9	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°	17964.0	100.0
0°-180°	17964.0	100.0

Coefficient of Utilization

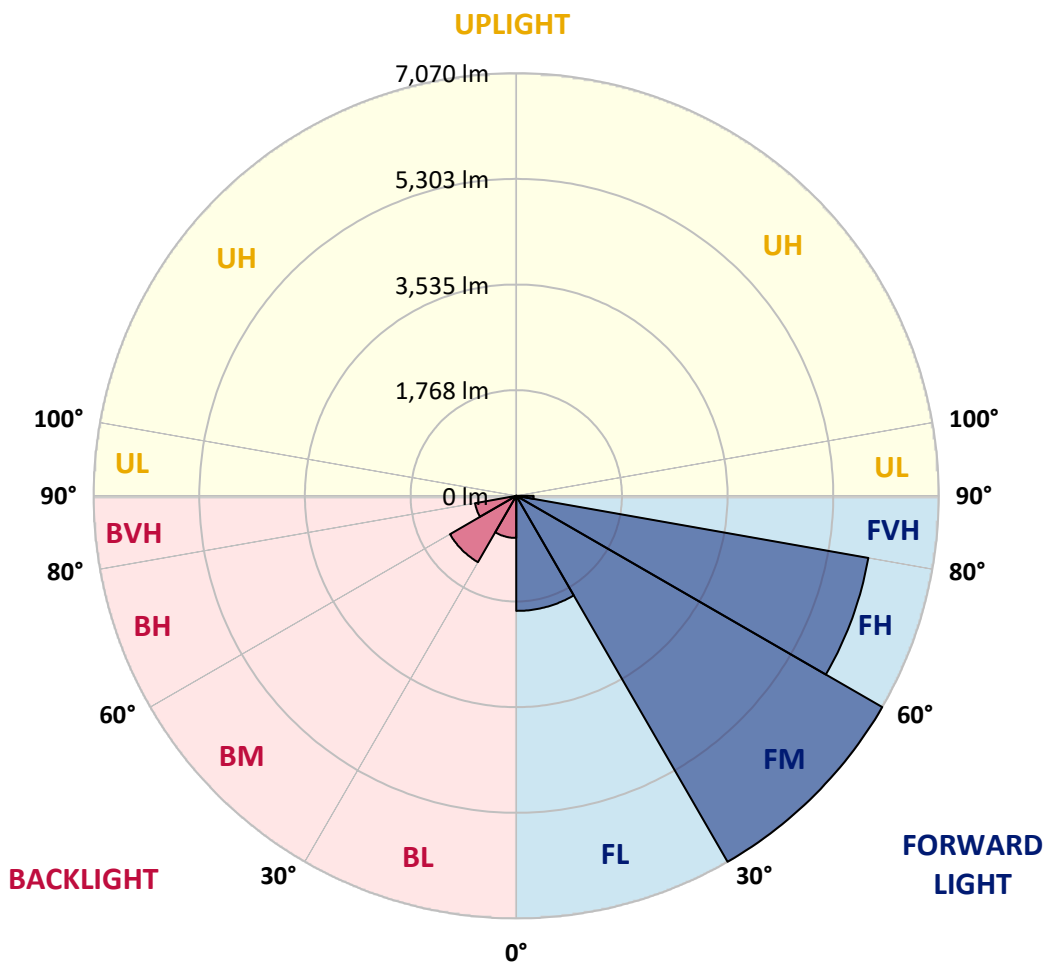


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1925.7	10.7			
FM (30°-60°)	7070.3	39.4			
FH (60°-80°)	5981.5	33.3			G3/7500
FVH (80°-90°)	290.8	1.6			G3/500
BL (0°-30°)	705.0	3.9	B2/1000		
BM (30°-60°)	1281.4	7.1	B2/2500		
BH (60°-80°)	700.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	9.1	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°	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6
2.5°	6532.9	6543.2	6595.9	6718.5	6852.1	6862.3	6952.5	6859.7	6828.2	6678.5	6523.6
5°	6582.3	6621.4	6802.7	7162.7	7475.0	7575.4	7646.9	7464.8	7273.3	6907.4	6516.8
7.5°	6184.9	6250.4	6535.5	7211.2	7769.4	8016.2	8063.0	7777.9	7309.0	6706.5	6119.4
10°	5676.0	5750.9	6094.7	6925.2	7692.0	8114.9	8179.6	7806.0	7132.0	6381.5	5689.6
12.5°	5264.1	5351.8	5703.2	6603.6	7425.6	7893.7	8021.3	7711.5	6978.9	6150.9	5396.0
15°	5074.4	5174.8	5544.1	6395.9	7130.3	7498.8	7604.3	7470.7	6893.8	6114.3	5328.0
17.5°	5183.3	5292.2	5673.5	6413.8	6852.9	7010.3	7095.4	7149.9	6893.8	6334.7	5527.1
20°	5630.1	5747.5	6150.9	6595.1	6623.1	6564.4	6655.5	6847.0	6973.8	6753.3	6005.3
22.5°	6247.9	6385.7	6841.0	6905.7	6510.8	6288.7	6300.6	6601.0	7119.3	7284.4	6669.1
25°	7001.0	7169.5	7632.4	7368.6	6557.6	6124.5	6120.2	6398.5	7261.4	7816.2	7408.6
27.5°	7749.0	7934.5	8341.3	7933.7	6750.8	6094.7	6086.2	6337.2	7400.1	8289.4	8216.2
30°	8376.2	8556.6	8907.2	8343.0	6959.3	6164.5	6123.6	6402.7	7482.6	8596.6	8805.1
32.5°	8886.7	9031.4	9314.8	8624.6	7182.2	6299.8	6211.3	6578.0	7623.0	8856.1	9346.3
35°	9448.4	9600.7	9713.9	8892.7	7432.4	6494.7	6367.9	6856.3	7839.2	9119.9	9939.4
37.5°	10089.2	10240.6	10227.0	9137.8	7749.8	6817.2	6736.3	7297.1	8175.3	9381.2	10601.5
40°	10716.3	10871.2	10760.6	9405.8	8122.6	7349.0	7289.5	7959.2	8625.5	9715.6	11377.6
42.5°	11303.5	11471.2	11234.6	9659.4	8566.8	8019.6	8121.7	8811.9	9188.8	10127.5	12046.4
45°	11776.7	11947.7	11632.0	9906.2	9034.8	8833.1	9140.3	9756.4	9866.2	10475.5	12498.3
47.5°	12120.5	12282.1	11907.7	10153.0	9633.9	9827.9	10363.2	10747.0	10478.1	10777.6	12819.1
50°	12340.0	12466.0	11988.6	10461.9	10420.2	10988.7	11637.1	11824.3	11054.2	11049.9	13208.9
52.5°	12479.6	12536.6	12048.1	10784.4	11240.5	12252.4	12884.6	12943.4	11647.3	11349.5	13733.9
55°	12960.4	13006.3	12470.2	11175.0	11918.8	13359.5	14013.0	13958.6	12318.7	11935.8	14353.4
57.5°	13780.7	13829.2	13342.5	11736.7	12467.7	14043.7	14830.8	14928.7	13105.9	12759.5	15017.2
60°	14192.6	14282.8	14109.2	12448.1	12999.5	14481.1	15388.2	15700.5	14089.6	13845.4	15660.5
62.5°	13819.0	13950.1	14201.9	13236.9	13528.0	14721.9	15561.8	15977.1	15097.2	15110.8	16057.1
65°	13073.6	13178.2	13605.4	13669.2	13834.3	14692.1	15132.9	15590.7	15714.1	16273.2	16035.8
67.5°	12173.2	12212.4	12574.9	13703.3	13390.1	13796.9	13844.5	14183.2	15226.5	16685.1	15391.6
70°	10877.2	10898.5	11215.0	12563.8	11506.9	11596.3	11525.6	11594.6	13090.6	15681.8	13765.4
72.5°	8754.0	8807.6	9257.8	10433.8	8383.0	8125.1	8680.0	8649.3	10081.5	13248.9	10223.6
75°	6445.3	6538.1	7218.0	8404.2	5883.7	5322.0	5727.1	5835.1	7166.9	10248.3	6393.4
77.5°	4512.7	4581.7	5240.3	6178.1	4258.3	3805.6	3659.2	3787.7	4730.6	7413.7	3220.9
80°	2599.7	2625.3	3045.6	3567.3	2869.5	3283.1	2974.2	3062.7	2834.6	3298.4	1385.4
82.5°	1701.1	1705.4	1869.6	2123.2	1787.1	2076.4	1536.9	1964.9	1743.7	1325.0	451.0
85°	919.1	924.2	1084.1	1507.1	1011.8	571.9	336.1	690.1	1078.2	303.8	123.4
87.5°	101.3	92.8	326.8	548.0	280.8	51.9	17.9	77.4	172.7	19.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6
2.5°	6444.4	6373.8	6197.7	6011.3	5861.5	5721.1	5579.9	5407.1	5273.5	5246.3	5202.0
5°	6306.6	6082.8	5713.5	5342.4	5043.7	4666.8	4427.6	4241.3	4059.2	4048.1	4011.5
7.5°	5824.9	5530.5	5010.5	4497.4	4077.0	3717.9	3355.4	3112.9	2922.3	2855.0	2815.0
10°	5362.0	5031.0	4381.7	3796.2	3420.9	3103.5	2848.2	2594.6	2364.9	2206.6	2135.1
12.5°	5038.6	4672.7	3957.0	3452.4	3183.5	2882.3	2570.8	2254.2	1989.6	1799.0	1682.4
15°	4913.5	4522.9	3814.9	3316.3	2984.4	2603.1	2204.9	1843.2	1549.6	1376.9	1272.2
17.5°	5062.5	4608.0	3803.9	3150.3	2686.5	2212.5	1772.6	1345.4	1068.8	937.8	870.5
20°	5440.3	4878.6	3799.6	2946.9	2332.5	1749.6	1200.7	885.0	717.4	644.2	612.7
22.5°	5974.7	5224.1	3833.6	2746.1	1964.1	1250.1	828.9	650.1	564.2	525.1	507.2
25°	6662.3	5709.2	3929.8	2564.0	1617.7	932.7	645.9	544.6	484.2	453.6	440.8
27.5°	7395.0	6267.4	4079.6	2405.7	1336.0	743.8	553.1	466.3	422.9	401.7	389.7
30°	7999.2	6914.2	4231.1	2229.6	1131.8	648.4	506.3	425.5	375.3	361.7	350.6
32.5°	8527.6	7403.5	4338.3	2070.4	998.2	576.1	457.8	380.4	346.3	320.0	308.1
35°	9074.8	7811.1	4334.9	1958.9	906.3	521.6	417.0	340.4	299.5	268.9	259.5
37.5°	9667.1	8271.5	4260.8	1863.6	866.3	478.2	394.0	319.1	278.3	247.6	235.7
40°	10360.6	8754.8	4185.1	1774.3	855.2	443.4	377.8	302.1	258.7	228.9	217.0
42.5°	11036.3	9190.5	4118.7	1707.9	807.6	442.5	363.4	289.3	243.4	214.4	200.8
45°	11576.7	9596.5	4106.0	1667.9	757.4	457.8	355.7	280.8	231.5	202.5	189.8
47.5°	12026.0	10037.3	4187.7	1639.8	709.7	417.8	374.4	274.9	220.4	192.3	177.9
50°	12560.4	10578.5	4380.0	1593.9	659.5	376.1	428.9	276.6	211.0	182.1	166.8
52.5°	13305.9	11327.3	4662.5	1516.4	590.6	337.8	422.1	278.3	200.8	171.0	155.7
55°	14141.5	12262.6	4966.3	1387.9	494.4	287.6	361.7	266.4	181.3	159.1	144.7
57.5°	15019.7	13111.0	5146.7	1234.8	393.2	248.5	289.3	242.5	160.0	143.0	133.6
60°	15157.6	13433.5	5064.2	1046.7	312.3	216.1	214.4	246.8	143.0	125.9	119.1
62.5°	14814.6	13028.4	4665.1	879.1	261.2	189.8	176.2	215.3	129.3	112.3	105.5
65°	14155.1	11933.2	4018.3	792.3	242.5	162.5	146.4	151.5	113.2	97.9	91.9
67.5°	13237.8	10471.3	3299.2	742.9	240.0	139.6	125.1	114.9	97.9	85.1	80.0
70°	11362.2	8723.4	2632.1	715.7	233.2	117.4	105.5	93.6	81.7	72.3	68.1
72.5°	8362.5	6181.5	2047.4	685.9	234.9	93.6	91.9	77.4	65.5	56.2	54.5
75°	4831.8	3531.6	1342.8	555.7	223.8	72.3	76.6	54.5	46.0	39.1	39.1
77.5°	2575.1	2153.8	511.4	231.5	81.7	46.0	43.4	32.3	28.9	23.8	23.0
80°	1122.4	948.0	154.0	64.7	45.1	24.7	16.2	14.5	12.8	10.2	9.4
82.5°	397.4	342.9	50.2	31.5	19.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	90.2	64.7	0.0	7.7	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°	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6
2.5°	5111.8	5093.1	4982.5	4986.7	5006.3	5034.4	4968.0	4998.6	5081.2	5160.3	5190.1
5°	3952.8	3957.0	3889.8	3931.5	3969.0	3994.5	3887.3	3889.0	3954.5	4043.8	4090.6
7.5°	2785.2	2778.4	2781.8	2881.4	2952.0	2901.0	2941.0	2802.3	2810.8	2874.6	2826.9
10°	2070.4	1976.8	1924.1	1998.9	2076.4	2048.3	1979.4	1934.3	1965.8	2036.4	2031.3
12.5°	1627.1	1492.6	1413.5	1359.9	1423.7	1370.9	1369.2	1330.1	1287.5	1295.2	1408.4
15°	1223.7	1125.8	1032.2	946.3	944.6	926.7	835.7	733.5	725.0	730.1	788.9
17.5°	841.6	808.4	770.1	696.1	676.5	601.6	513.1	472.3	451.9	461.2	480.8
20°	591.4	578.7	582.9	542.9	514.8	443.4	391.4	375.3	371.9	381.2	390.6
22.5°	490.2	467.2	464.6	446.8	418.7	366.8	338.7	329.3	325.1	333.6	340.4
25°	428.9	405.9	396.6	385.5	355.7	320.0	302.9	294.4	290.2	295.3	299.5
27.5°	377.8	356.6	348.0	340.4	311.5	285.9	272.3	264.7	261.2	263.0	267.2
30°	339.5	320.8	309.8	300.4	275.7	257.8	245.9	238.3	234.9	234.9	239.1
32.5°	299.5	289.3	279.1	267.2	244.2	232.3	220.4	211.9	208.5	209.3	212.7
35°	249.3	245.9	248.5	237.4	217.8	207.6	195.7	186.4	183.8	184.7	188.1
37.5°	221.3	205.9	215.3	209.3	198.3	184.7	169.3	160.8	156.6	159.1	160.8
40°	203.4	184.7	177.9	183.8	182.1	160.0	146.4	137.9	134.5	135.3	137.0
42.5°	188.1	165.9	150.6	149.8	160.0	139.6	125.1	117.4	113.2	113.2	114.9
45°	173.6	149.8	131.1	116.6	134.5	118.3	104.7	97.9	92.8	92.8	93.6
47.5°	162.5	136.2	114.0	95.3	101.3	97.0	85.9	79.1	74.0	74.0	74.9
50°	152.3	122.5	98.7	80.0	75.7	80.0	69.8	62.1	58.7	57.9	59.6
52.5°	141.3	108.9	84.2	68.1	59.6	60.4	54.5	49.4	45.1	45.1	46.8
55°	130.2	97.9	73.2	57.9	49.4	45.1	43.4	40.0	36.6	36.6	38.3
57.5°	119.1	85.9	62.1	47.7	39.1	35.7	35.7	33.2	30.6	30.6	32.3
60°	108.9	74.0	51.1	39.1	30.6	29.8	30.6	28.1	26.4	26.4	28.1
62.5°	97.0	63.0	41.7	32.3	24.7	23.8	26.4	24.7	23.0	23.0	24.7
65°	82.5	53.6	33.2	24.7	18.7	18.7	22.1	20.4	18.7	18.7	20.4
67.5°	69.8	45.1	25.5	17.9	13.6	14.5	18.7	17.0	16.2	16.2	17.9
70°	57.9	34.9	17.9	11.1	7.7	11.1	14.5	14.5	14.5	14.5	16.2
72.5°	43.4	23.8	10.2	4.3	3.4	7.7	11.9	13.6	12.8	12.8	15.3
75°	28.1	13.6	3.4	0.0	0.0	4.3	9.4	11.1	11.1	10.2	12.8
77.5°	16.2	4.3	0.0	0.0	0.0	0.0	6.0	5.1	4.3	3.4	6.0
80°	4.3	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: P324271

CATALOG NUMBER: GLEON-SA7A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6	6026.6
2.5°	5310.1	5410.5	5551.8	5701.5	5932.2	6115.1	6294.7	6448.7	6508.3	6532.9
5°	4203.0	4350.2	4557.0	4822.5	5238.6	5613.0	5992.6	6374.7	6540.6	6582.3
7.5°	3015.9	3203.9	3466.9	3799.6	4287.2	4772.3	5302.4	5863.2	6120.2	6184.9
10°	2232.1	2461.9	2763.1	3113.7	3579.2	4077.9	4655.7	5296.5	5590.1	5676.0
12.5°	1583.7	1894.3	2297.6	2724.0	3127.3	3572.4	4157.0	4863.3	5171.4	5264.1
15°	930.1	1230.5	1707.9	2278.9	2795.5	3246.5	3840.5	4641.2	4980.8	5074.4
17.5°	533.6	683.3	1044.1	1680.7	2381.9	3006.5	3740.9	4696.5	5096.5	5183.3
20°	407.6	455.3	601.6	1082.4	1898.5	2770.8	3740.9	5009.7	5502.4	5630.1
22.5°	356.6	391.4	451.0	645.9	1397.3	2518.0	3784.3	5462.4	6106.6	6247.9
25°	316.6	348.0	399.1	485.9	953.1	2217.6	3887.3	6018.1	6818.0	7001.0
27.5°	283.4	313.2	359.1	425.5	651.8	1855.1	4026.0	6670.0	7602.6	7749.0
30°	253.6	281.7	323.4	370.2	502.9	1444.1	4144.3	7284.4	8218.7	8376.2
32.5°	225.5	251.0	288.5	323.4	411.9	1068.0	4157.0	7771.1	8730.2	8886.7
35°	199.1	222.1	256.1	283.4	341.2	843.3	3958.7	8193.2	9241.6	9448.4
37.5°	173.6	195.7	225.5	245.9	300.4	687.6	3655.8	8663.8	9897.7	10089.2
40°	149.8	169.3	200.0	213.6	284.2	528.5	3326.5	9157.4	10541.0	10716.3
42.5°	127.6	146.4	176.2	202.5	249.3	394.9	2970.8	9620.3	11119.7	11303.5
45°	106.4	125.9	155.7	214.4	206.8	295.3	2590.4	9927.5	11576.7	11776.7
47.5°	85.9	108.1	148.9	204.2	165.1	217.0	2289.1	10218.5	11923.0	12120.5
50°	68.9	91.1	167.6	182.1	135.3	165.9	2163.2	10478.9	12150.2	12340.0
52.5°	56.2	76.6	158.3	139.6	113.2	137.0	2231.3	10901.0	12360.4	12479.6
55°	46.8	60.4	95.3	97.0	96.2	116.6	2315.5	11506.9	12904.2	12960.4
57.5°	40.8	48.5	66.4	74.9	80.8	103.8	2317.2	12376.6	13745.8	13780.7
60°	34.9	42.5	55.3	60.4	69.8	92.8	2233.0	12680.4	14076.9	14192.6
62.5°	30.6	37.4	46.0	50.2	58.7	83.4	2035.5	12240.4	13622.4	13819.0
65°	27.2	34.0	38.3	42.5	51.9	74.9	1710.5	11360.5	12868.5	13073.6
67.5°	23.8	29.8	34.0	38.3	46.8	66.4	1259.4	10338.5	12003.0	12173.2
70°	21.3	26.4	30.6	34.0	40.8	56.2	764.2	8772.7	10806.5	10877.2
72.5°	20.4	23.8	28.1	30.6	35.7	49.4	387.2	6447.0	8639.1	8754.0
75°	17.9	21.3	25.5	27.2	31.5	42.5	157.4	4234.5	6260.6	6445.3
77.5°	14.5	19.6	23.0	24.7	27.2	34.9	80.0	2706.1	4393.6	4512.7
80°	5.1	14.5	19.6	20.4	23.0	25.5	52.8	1481.5	2548.7	2599.7
82.5°	0.0	9.4	15.3	14.5	16.2	19.6	34.0	704.6	1682.4	1701.1
85°	0.0	4.3	11.9	9.4	6.8	13.6	11.9	154.0	882.5	919.1
87.5°	0.0	0.0	0.9	4.3	3.4	5.1	1.7	0.9	80.0	101.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)