

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: P324282

Luminaire Tested: **GLEON-SA8B-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324282
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-SA8B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 24960 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

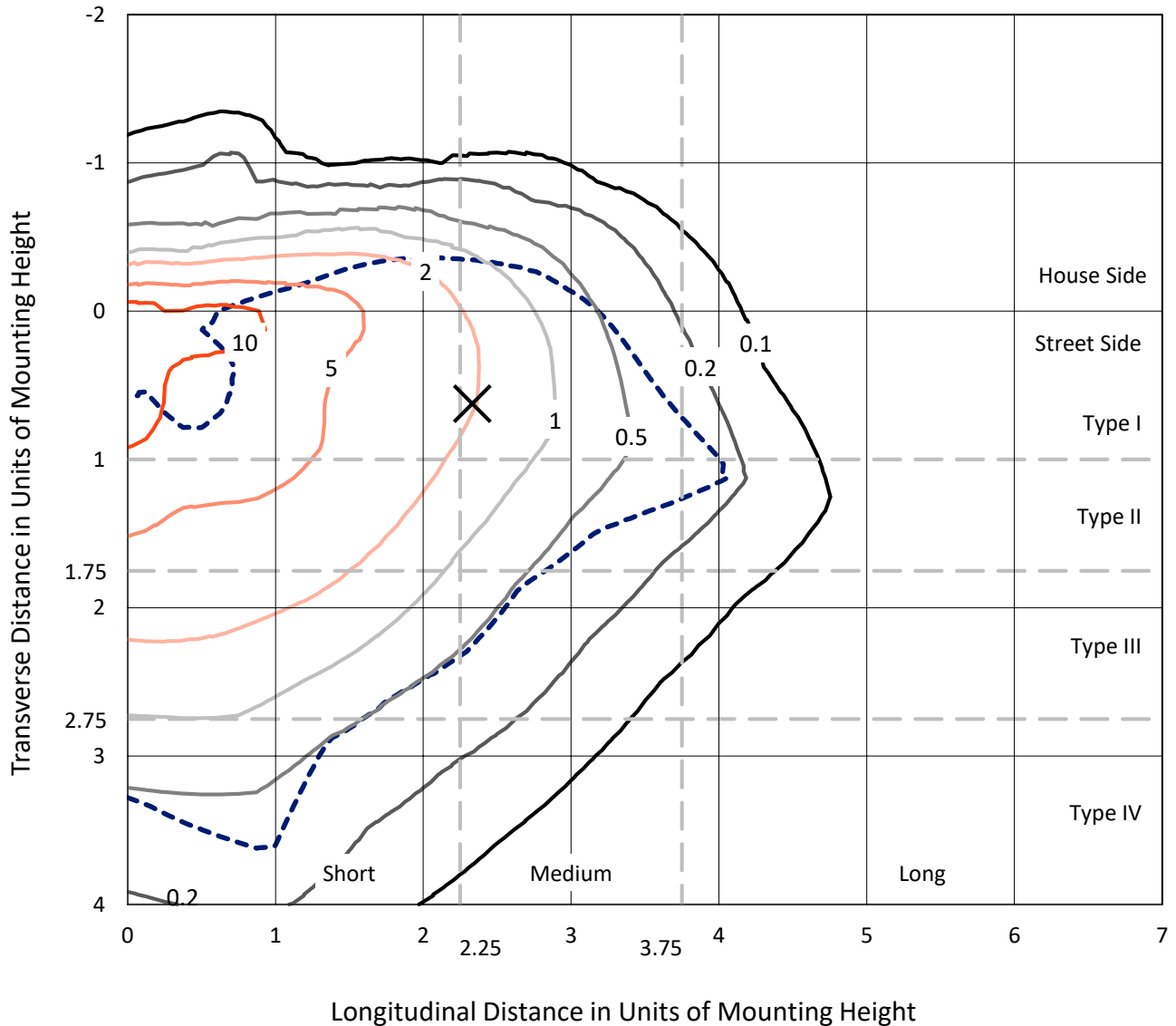
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

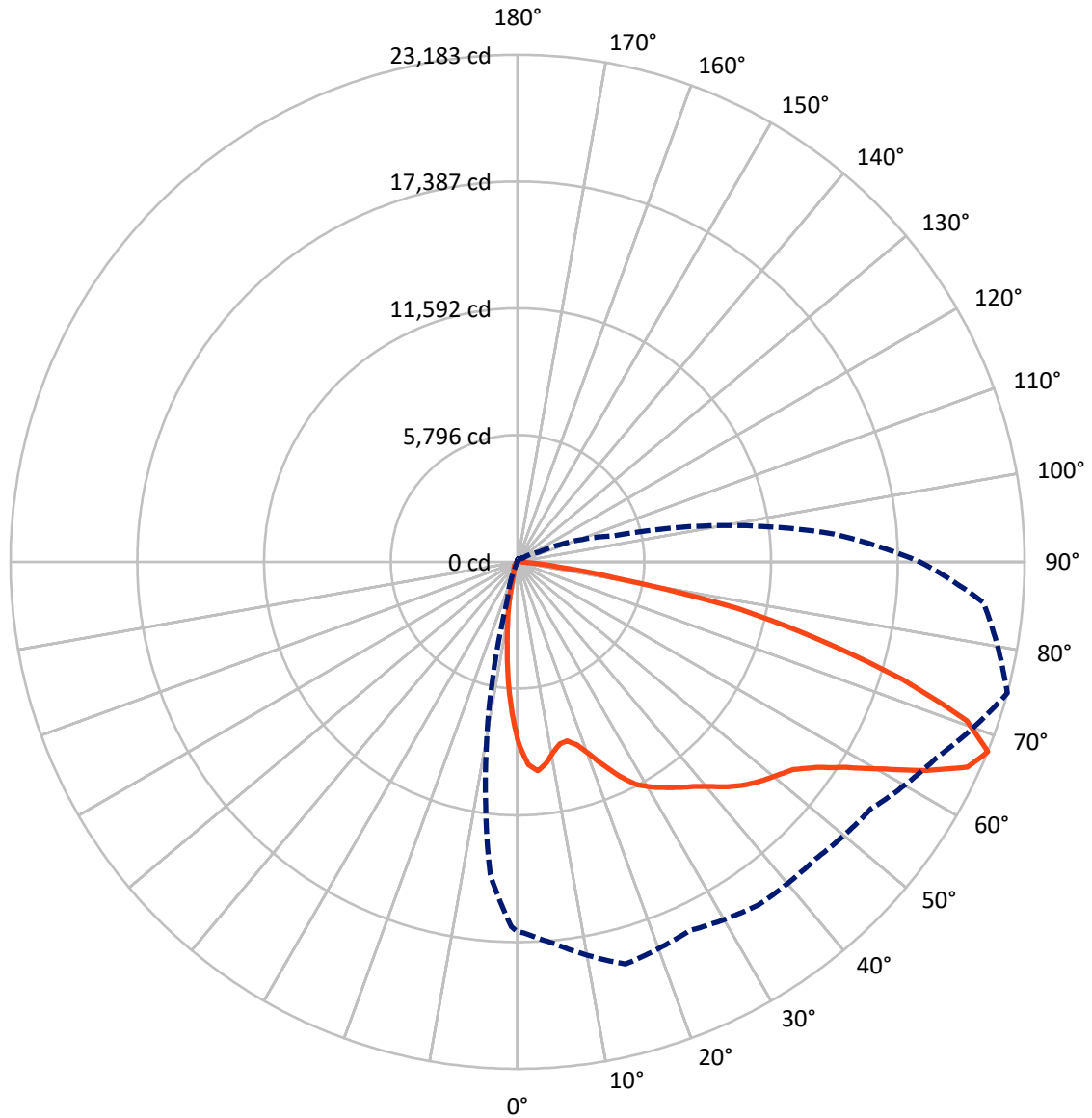
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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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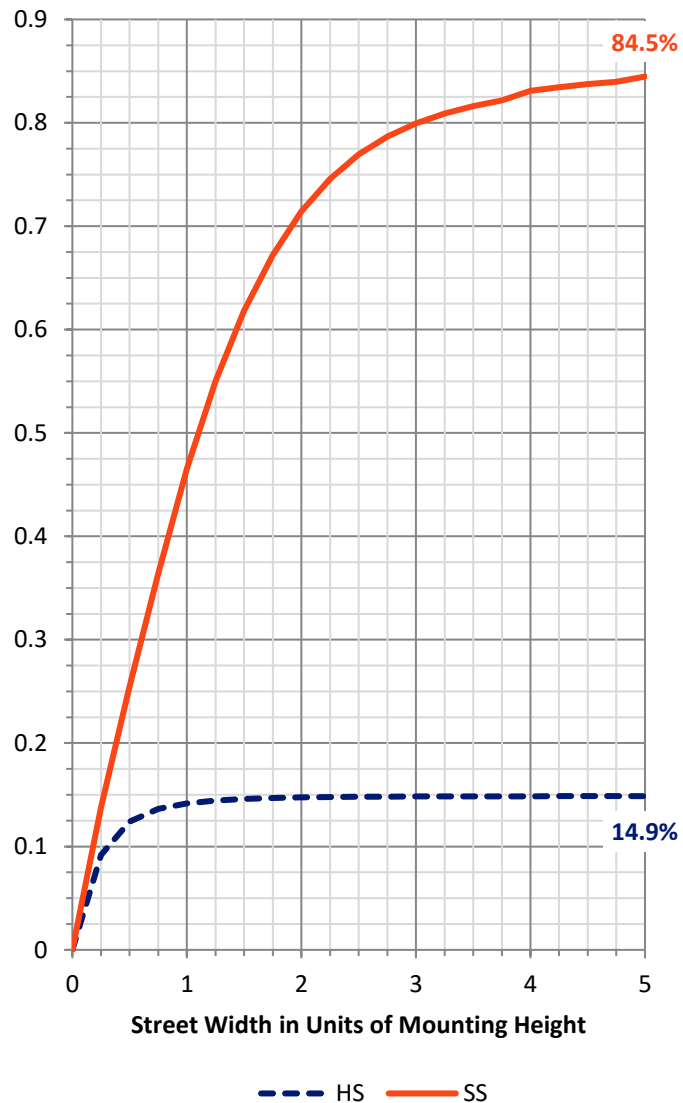
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3745.5	0.0	3745.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	21214.5	0.0	21214.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	24960.0	0.0	24960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.2	2.5
10°-20°	1250.7	5.0
20°-30°	1769.4	7.1
30°-40°	2601.4	10.4
40°-50°	3739.1	15.0
50°-60°	5263.7	21.1
60°-70°	6147.6	24.6
70°-80°	3136.3	12.6
80°-90°	416.6	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°	24960.0	100.0
0°-180°	24960.0	100.0

Coefficient of Utilization

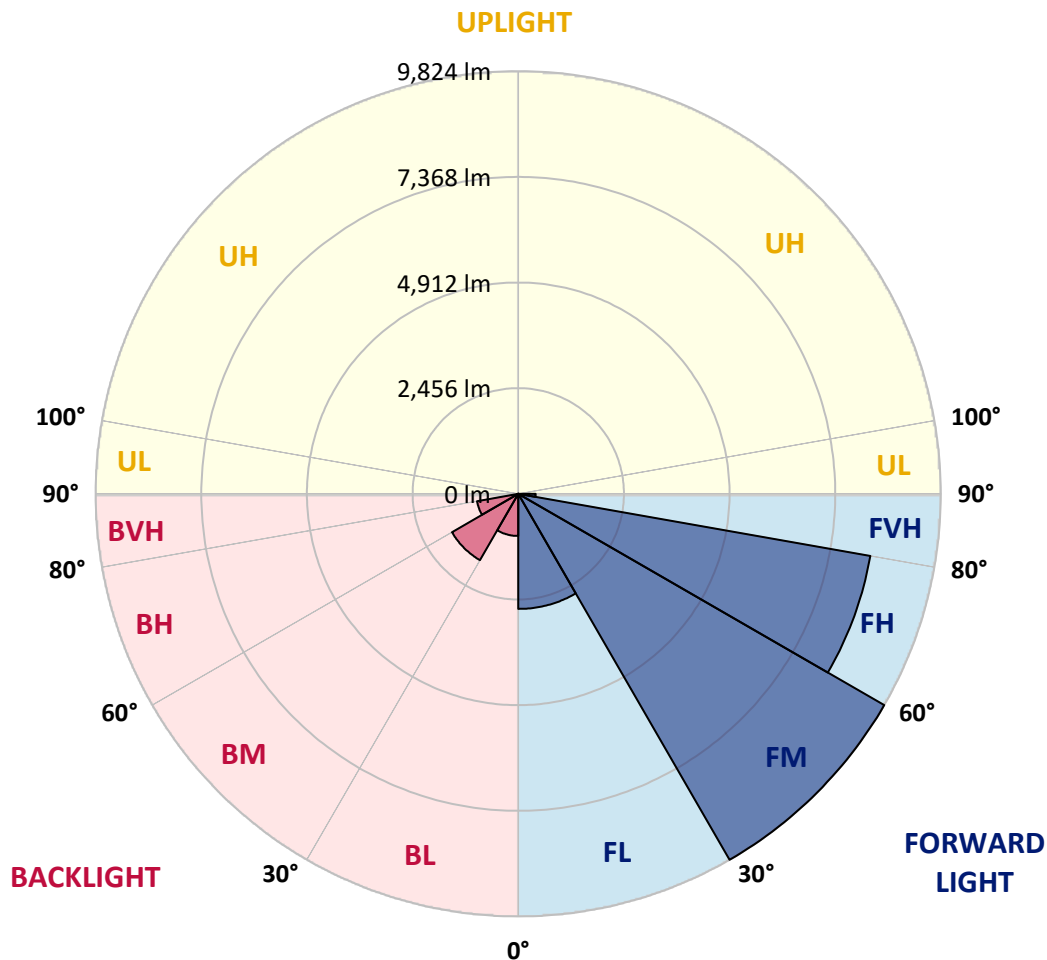


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.7	10.7			
FM (30°-60°)	9823.8	39.4			
FH (60°-80°)	8311.0	33.3			G4/12000
FVH (80°-90°)	404.0	1.6			G3/500
BL (0°-30°)	979.5	3.9	B2/1000		
BM (30°-60°)	1780.5	7.1	B2/2500		
BH (60°-80°)	972.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	12.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7
2.5°	9077.2	9091.4	9164.7	9334.9	9520.6	9534.8	9660.1	9531.2	9487.5	9279.4	9064.2
5°	9145.8	9200.1	9452.0	9952.1	10386.1	10525.6	10624.9	10371.9	10105.8	9597.4	9054.7
7.5°	8593.6	8684.6	9080.7	10019.5	10795.2	11138.1	11203.1	10807.0	10155.5	9318.4	8502.5
10°	7886.5	7990.6	8468.2	9622.3	10687.6	11275.2	11365.1	10846.0	9909.6	8866.7	7905.4
12.5°	7314.2	7436.0	7924.3	9175.3	10317.5	10967.8	11145.2	10714.8	9696.7	8546.3	7497.5
15°	7050.6	7190.1	7703.2	8886.8	9907.2	10419.2	10565.8	10380.2	9578.5	8495.4	7402.9
17.5°	7201.9	7353.3	7883.0	8911.6	9521.7	9740.5	9858.7	9934.4	9578.5	8801.7	7679.6
20°	7822.7	7985.8	8546.3	9163.5	9202.5	9120.9	9247.4	9513.5	9689.6	9383.4	8344.1
22.5°	8681.1	8872.6	9505.2	9595.1	9046.4	8737.8	8754.4	9171.8	9891.8	10121.2	9266.4
25°	9727.5	9961.6	10604.8	10238.3	9111.5	8509.6	8503.7	8890.4	10089.3	10860.2	10293.8
27.5°	10766.8	11024.6	11589.7	11023.4	9379.9	8468.2	8456.4	8805.2	10282.0	11517.6	11415.9
30°	11638.2	11888.9	12376.0	11592.1	9669.5	8565.2	8508.4	8896.3	10396.7	11944.5	12234.1
32.5°	12347.7	12548.7	12942.4	11983.5	9979.3	8753.2	8630.2	9139.8	10591.8	12305.1	12986.1
35°	13128.0	13339.7	13496.9	12355.9	10327.0	9024.0	8847.8	9526.5	10892.1	12671.6	13810.3
37.5°	14018.4	14228.8	14209.9	12696.5	10768.0	9472.1	9359.8	10139.0	11359.2	13034.6	14730.2
40°	14889.8	15105.0	14951.3	13068.9	11285.9	10211.1	10128.3	11058.9	11984.7	13499.3	15808.5
42.5°	15705.6	15938.6	15609.9	13421.3	11903.1	11142.8	11284.7	12243.6	12767.4	14071.6	16737.8
45°	16363.0	16600.7	16162.0	13764.1	12553.4	12273.2	12700.0	13556.0	13708.6	14555.2	17365.7
47.5°	16840.7	17065.4	16545.1	14107.0	13385.8	13655.4	14399.1	14932.3	14558.7	14974.9	17811.5
50°	17145.8	17320.8	16657.4	14536.2	14478.3	15268.1	16169.1	16429.2	15359.2	15353.3	18353.0
52.5°	17339.7	17418.9	16740.2	14984.4	15618.1	17024.0	17902.5	17984.1	16183.3	15769.5	19082.5
55°	18007.7	18071.6	17326.7	15527.1	16560.5	18562.3	19470.3	19394.7	17116.2	16584.1	19943.3
57.5°	19147.5	19214.9	18538.6	16307.5	17323.1	19512.9	20606.6	20742.6	18209.9	17728.7	20865.6
60°	19719.8	19845.2	19603.9	17295.9	18062.1	20120.7	21381.1	21815.0	19576.8	19237.4	21759.4
62.5°	19200.8	19382.8	19732.8	18392.0	18796.4	20455.3	21622.3	22199.3	20976.7	20995.6	22310.4
65°	18165.0	18310.4	18904.0	18992.7	19222.0	20413.9	21026.4	21662.5	21833.9	22610.8	22280.9
67.5°	16914.0	16968.4	17472.1	19040.0	18604.8	19170.0	19236.2	19706.8	21156.4	23183.0	21385.8
70°	15113.2	15142.8	15582.7	17456.7	15988.2	16112.4	16014.2	16110.0	18188.6	21789.0	19126.3
72.5°	12163.2	12237.7	12863.2	14497.2	11647.7	11289.4	12060.3	12017.8	14007.7	18408.6	14205.2
75°	8955.4	9084.3	10029.0	11677.2	8175.0	7394.6	7957.5	8107.6	9958.0	14239.5	8883.3
77.5°	6270.2	6366.0	7281.1	8584.1	5916.7	5287.6	5084.3	5262.8	6572.9	10300.9	4475.3
80°	3612.2	3647.7	4231.8	4956.6	3987.0	4561.6	4132.4	4255.4	3938.5	4582.9	1924.9
82.5°	2363.6	2369.5	2597.7	2950.1	2483.0	2885.0	2135.4	2730.1	2422.7	1841.0	626.7
85°	1277.0	1284.1	1506.4	2094.0	1405.9	794.6	467.0	958.9	1498.1	422.1	171.4
87.5°	140.7	128.9	454.0	761.5	390.2	72.1	24.8	107.6	240.0	27.2	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°	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7
2.5°	8954.2	8856.1	8611.3	8352.4	8144.3	7949.2	7752.9	7512.9	7327.2	7289.4	7227.9
5°	8762.7	8451.7	7938.5	7423.0	7008.0	6484.2	6152.0	5893.0	5640.0	5624.6	5573.8
7.5°	8093.4	7684.3	6961.9	6248.9	5664.8	5165.8	4662.1	4325.2	4060.3	3966.9	3911.3
10°	7450.2	6990.3	6088.1	5274.6	4753.2	4312.2	3957.4	3605.1	3285.8	3065.9	2966.6
12.5°	7000.9	6492.5	5498.1	4796.9	4423.3	4004.7	3572.0	3132.1	2764.4	2499.6	2337.6
15°	6827.1	6284.4	5300.6	4607.8	4146.6	3616.9	3063.6	2561.0	2153.1	1913.1	1767.7
17.5°	7034.0	6402.6	5285.3	4377.2	3732.8	3074.2	2462.9	1869.4	1485.1	1303.0	1209.6
20°	7559.0	6778.6	5279.4	4094.6	3240.9	2431.0	1668.3	1229.7	996.8	895.1	851.3
22.5°	8301.5	7258.7	5326.6	3815.6	2728.9	1736.9	1151.6	903.3	783.9	729.5	704.7
25°	9256.9	7932.6	5460.3	3562.5	2247.7	1295.9	897.4	756.7	672.8	630.2	612.5
27.5°	10274.9	8708.3	5668.4	3342.6	1856.3	1033.4	768.6	647.9	587.6	558.1	541.5
30°	11114.4	9606.9	5878.8	3097.8	1572.6	901.0	703.5	591.2	521.4	502.5	487.1
32.5°	11848.7	10286.8	6027.8	2876.7	1386.9	800.5	636.1	528.5	481.2	444.6	428.0
35°	12609.0	10853.1	6023.1	2721.9	1259.2	724.8	579.4	473.0	416.2	373.6	360.6
37.5°	13431.9	11492.8	5920.2	2589.4	1203.7	664.5	547.4	443.4	386.6	344.1	327.5
40°	14395.5	12164.4	5815.0	2465.3	1188.3	616.0	525.0	419.7	359.4	318.1	301.5
42.5°	15334.4	12769.8	5722.7	2373.0	1122.1	614.8	504.9	402.0	338.2	298.0	279.0
45°	16085.2	13333.8	5705.0	2317.5	1052.3	636.1	494.2	390.2	321.6	281.4	263.7
47.5°	16709.5	13946.2	5818.5	2278.5	986.1	580.6	520.2	381.9	306.2	267.2	247.1
50°	17452.0	14698.2	6085.7	2214.6	916.3	522.6	595.9	384.3	293.2	253.0	231.7
52.5°	18487.8	15738.7	6478.3	2107.0	820.6	469.4	586.5	386.6	279.0	237.7	216.4
55°	19648.9	17038.2	6900.4	1928.5	687.0	399.6	502.5	370.1	251.8	221.1	201.0
57.5°	20869.1	18217.0	7151.1	1715.6	546.3	345.3	402.0	337.0	222.3	198.6	185.6
60°	21060.6	18665.1	7036.4	1454.3	433.9	300.3	298.0	342.9	198.6	175.0	165.5
62.5°	20584.1	18102.3	6481.8	1221.4	363.0	263.7	244.8	299.1	179.7	156.1	146.6
65°	19667.8	16580.6	5583.2	1100.8	337.0	225.8	203.4	210.5	157.3	136.0	127.7
67.5°	18393.2	14549.3	4584.1	1032.2	333.4	193.9	173.8	159.6	136.0	118.2	111.1
70°	15787.2	12120.6	3657.1	994.4	324.0	163.2	146.6	130.1	113.5	100.5	94.6
72.5°	11619.3	8588.8	2844.8	953.0	326.3	130.1	127.7	107.6	91.0	78.0	75.7
75°	6713.6	4906.9	1865.8	772.1	311.0	100.5	106.4	75.7	63.8	54.4	54.4
77.5°	3577.9	2992.6	710.6	321.6	113.5	63.8	60.3	44.9	40.2	33.1	31.9
80°	1559.6	1317.2	214.0	89.9	62.7	34.3	22.5	20.1	17.7	14.2	13.0
82.5°	552.2	476.5	69.8	43.7	27.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	125.3	89.9	0.0	10.6	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°	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7
2.5°	7102.6	7076.6	6922.9	6928.8	6956.0	6995.0	6902.8	6945.3	7060.0	7170.0	7211.4
5°	5492.2	5498.1	5404.7	5462.6	5514.6	5550.1	5401.1	5403.5	5494.5	5618.7	5683.7
7.5°	3869.9	3860.5	3865.2	4003.6	4101.7	4030.8	4086.3	3893.6	3905.4	3994.1	3927.9
10°	2876.7	2746.7	2673.4	2777.4	2885.0	2846.0	2750.2	2687.6	2731.3	2829.4	2822.4
12.5°	2260.7	2073.9	1963.9	1889.5	1978.1	1904.8	1902.5	1848.1	1788.9	1799.6	1956.8
15°	1700.3	1564.3	1434.2	1314.8	1312.4	1287.6	1161.1	1019.2	1007.4	1014.5	1096.1
17.5°	1169.4	1123.3	1070.1	967.2	940.0	835.9	713.0	656.2	627.8	640.9	668.0
20°	821.8	804.0	809.9	754.4	715.3	616.0	543.9	521.4	516.7	529.7	542.7
22.5°	681.1	649.1	645.6	620.8	581.7	509.6	470.6	457.6	451.7	463.5	473.0
25°	595.9	564.0	551.0	535.6	494.2	444.6	420.9	409.1	403.2	410.3	416.2
27.5°	525.0	495.4	483.6	473.0	432.8	397.3	378.4	367.7	363.0	365.4	371.3
30°	471.8	445.8	430.4	417.4	383.1	358.3	341.7	331.1	326.3	326.3	332.3
32.5°	416.2	402.0	387.8	371.3	339.3	322.8	306.2	294.4	289.7	290.9	295.6
35°	346.4	341.7	345.3	329.9	302.7	288.5	271.9	258.9	255.4	256.6	261.3
37.5°	307.4	286.1	299.1	290.9	275.5	256.6	235.3	223.5	217.6	221.1	223.5
40°	282.6	256.6	247.1	255.4	253.0	222.3	203.4	191.5	186.8	188.0	190.4
42.5°	261.3	230.6	209.3	208.1	222.3	193.9	173.8	163.2	157.3	157.3	159.6
45°	241.2	208.1	182.1	162.0	186.8	164.4	145.4	136.0	128.9	128.9	130.1
47.5°	225.8	189.2	158.4	132.4	140.7	134.8	119.4	110.0	102.9	102.9	104.0
50°	211.6	170.3	137.2	111.1	105.2	111.1	97.0	86.3	81.6	80.4	82.8
52.5°	196.3	151.3	117.1	94.6	82.8	83.9	75.7	68.6	62.7	62.7	65.0
55°	180.9	136.0	101.7	80.4	68.6	62.7	60.3	55.6	50.8	50.8	53.2
57.5°	165.5	119.4	86.3	66.2	54.4	49.7	49.7	46.1	42.6	42.6	44.9
60°	151.3	102.9	70.9	54.4	42.6	41.4	42.6	39.0	36.7	36.7	39.0
62.5°	134.8	87.5	57.9	44.9	34.3	33.1	36.7	34.3	31.9	31.9	34.3
65°	114.7	74.5	46.1	34.3	26.0	26.0	30.7	28.4	26.0	26.0	28.4
67.5°	97.0	62.7	35.5	24.8	18.9	20.1	26.0	23.6	22.5	22.5	24.8
70°	80.4	48.5	24.8	15.4	10.6	15.4	20.1	20.1	20.1	20.1	22.5
72.5°	60.3	33.1	14.2	5.9	4.7	10.6	16.6	18.9	17.7	17.7	21.3
75°	39.0	18.9	4.7	0.0	0.0	5.9	13.0	15.4	15.4	14.2	17.7
77.5°	22.5	5.9	0.0	0.0	0.0	0.0	8.3	7.1	5.9	4.7	8.3
80°	5.9	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: P324282

CATALOG NUMBER: GLEON-SA8B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7	8373.7
2.5°	7378.1	7517.6	7713.9	7922.0	8242.4	8496.6	8746.1	8960.1	9042.9	9077.2
5°	5839.8	6044.4	6331.7	6700.6	7278.8	7799.0	8326.4	8857.2	9087.8	9145.8
7.5°	4190.4	4451.7	4817.0	5279.4	5956.9	6630.8	7367.4	8146.6	8503.7	8593.6
10°	3101.4	3420.6	3839.2	4326.3	4973.1	5666.0	6468.8	7359.2	7767.1	7886.5
12.5°	2200.4	2632.0	3192.4	3784.8	4345.3	4963.7	5776.0	6757.3	7185.4	7314.2
15°	1292.3	1709.7	2373.0	3166.4	3884.1	4510.8	5336.1	6448.7	6920.5	7050.6
17.5°	741.4	949.5	1450.8	2335.2	3309.5	4177.4	5197.8	6525.6	7081.3	7201.9
20°	566.4	632.6	835.9	1504.0	2637.9	3849.8	5197.8	6960.7	7645.3	7822.7
22.5°	495.4	543.9	626.7	897.4	1941.5	3498.7	5258.1	7589.7	8484.8	8681.1
25°	439.8	483.6	554.5	675.1	1324.3	3081.3	5401.1	8361.8	9473.3	9727.5
27.5°	393.7	435.1	499.0	591.2	905.7	2577.6	5593.9	9267.5	10563.4	10766.8
30°	352.4	391.4	449.3	514.3	698.8	2006.5	5758.2	10121.2	11419.5	11638.2
32.5°	313.3	348.8	400.8	449.3	572.3	1483.9	5776.0	10797.5	12130.1	12347.7
35°	276.7	308.6	355.9	393.7	474.1	1171.7	5500.5	11384.0	12840.7	13128.0
37.5°	241.2	271.9	313.3	341.7	417.4	955.4	5079.5	12037.9	13752.3	14018.4
40°	208.1	235.3	277.9	296.8	394.9	734.3	4621.9	12723.6	14646.2	14889.8
42.5°	177.4	203.4	244.8	281.4	346.4	548.6	4127.7	13366.9	15450.2	15705.6
45°	147.8	175.0	216.4	298.0	287.3	410.3	3599.2	13793.7	16085.2	16363.0
47.5°	119.4	150.2	206.9	283.8	229.4	301.5	3180.6	14198.1	16566.4	16840.7
50°	95.8	126.5	232.9	253.0	188.0	230.6	3005.6	14559.9	16882.1	17145.8
52.5°	78.0	106.4	219.9	193.9	157.3	190.4	3100.2	15146.4	17174.1	17339.7
55°	65.0	83.9	132.4	134.8	133.6	162.0	3217.3	15988.2	17929.7	18007.7
57.5°	56.8	67.4	92.2	104.0	112.3	144.3	3219.6	17196.6	19099.1	19147.5
60°	48.5	59.1	76.9	83.9	97.0	128.9	3102.6	17618.7	19559.0	19719.8
62.5°	42.6	52.0	63.8	69.8	81.6	115.9	2828.3	17007.4	18927.6	19200.8
65°	37.8	47.3	53.2	59.1	72.1	104.0	2376.6	15784.8	17880.0	18165.0
67.5°	33.1	41.4	47.3	53.2	65.0	92.2	1749.9	14364.8	16677.5	16914.0
70°	29.6	36.7	42.6	47.3	56.8	78.0	1061.8	12189.2	15015.1	15113.2
72.5°	28.4	33.1	39.0	42.6	49.7	68.6	538.0	8957.8	12003.6	12163.2
75°	24.8	29.6	35.5	37.8	43.7	59.1	218.7	5883.5	8698.8	8955.4
77.5°	20.1	27.2	31.9	34.3	37.8	48.5	111.1	3760.0	6104.7	6270.2
80°	7.1	20.1	27.2	28.4	31.9	35.5	73.3	2058.5	3541.2	3612.2
82.5°	0.0	13.0	21.3	20.1	22.5	27.2	47.3	979.0	2337.6	2363.6
85°	0.0	5.9	16.6	13.0	9.5	18.9	16.6	214.0	1226.1	1277.0
87.5°	0.0	0.0	1.2	5.9	4.7	7.1	2.4	1.2	111.1	140.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)