

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: P269332

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SLL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24917.8 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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: 25 FT

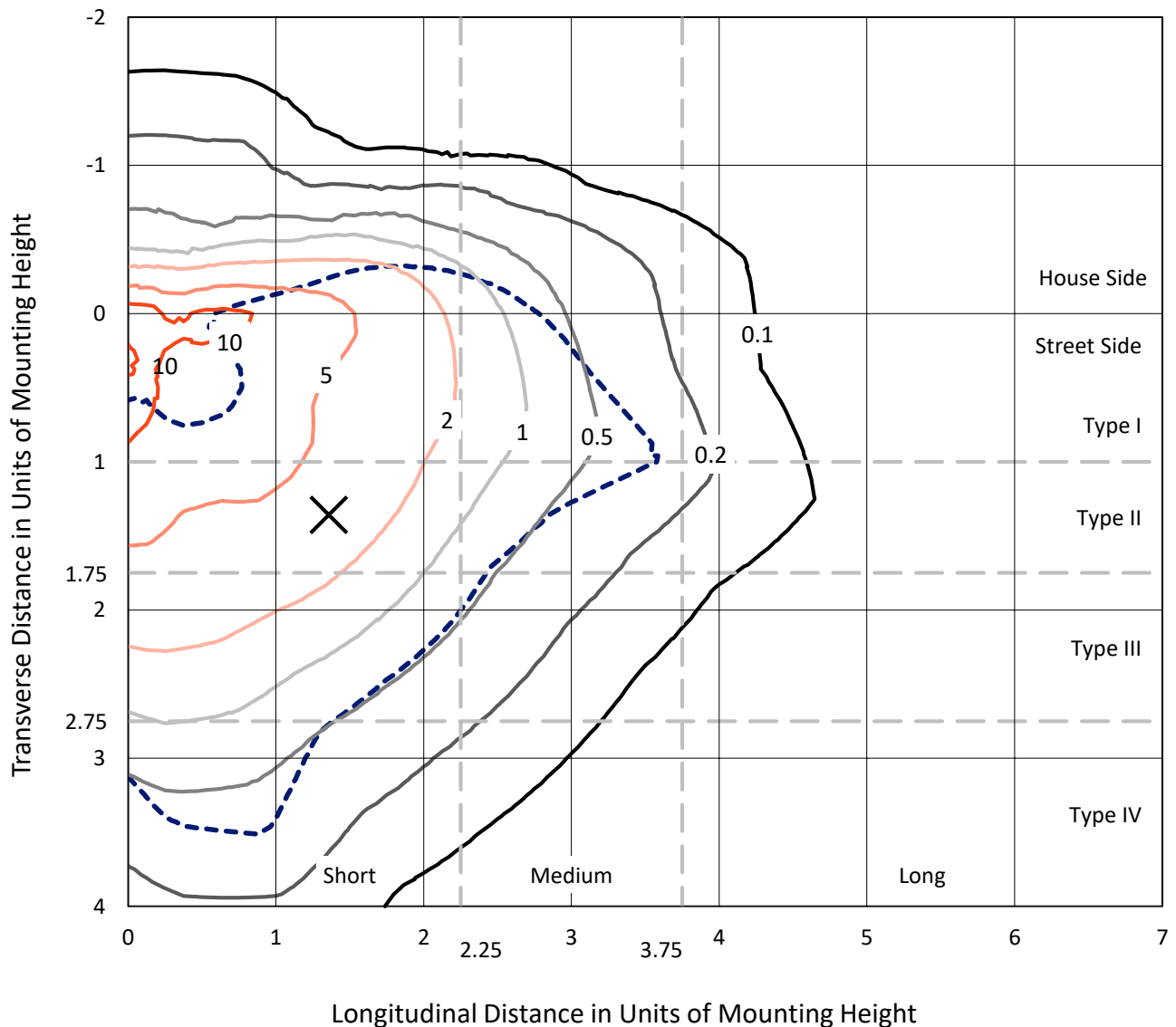


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

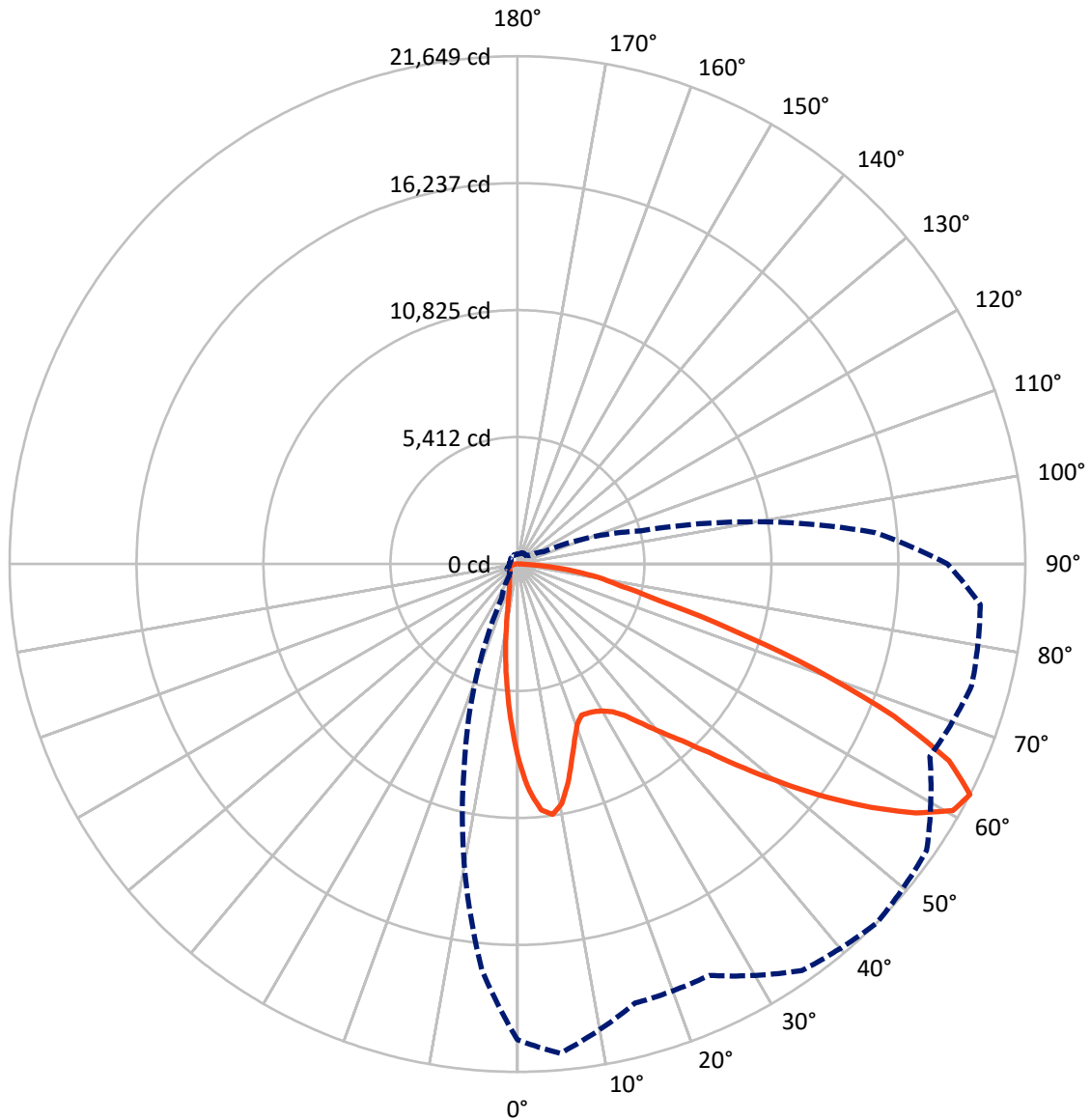


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4123.6	0.0	4123.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20794.3	0.0	20794.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	24917.8	0.0	24917.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.8	2.5
10°-20°	1123.8	4.5
20°-30°	1638.5	6.6
30°-40°	2523.5	10.1
40°-50°	3713.9	14.9
50°-60°	5447.5	21.9
60°-70°	6089.5	24.4
70°-80°	2981.3	12.0
80°-90°	787.1	3.2
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°	24917.8	100.0
0°-180°	24917.8	100.0



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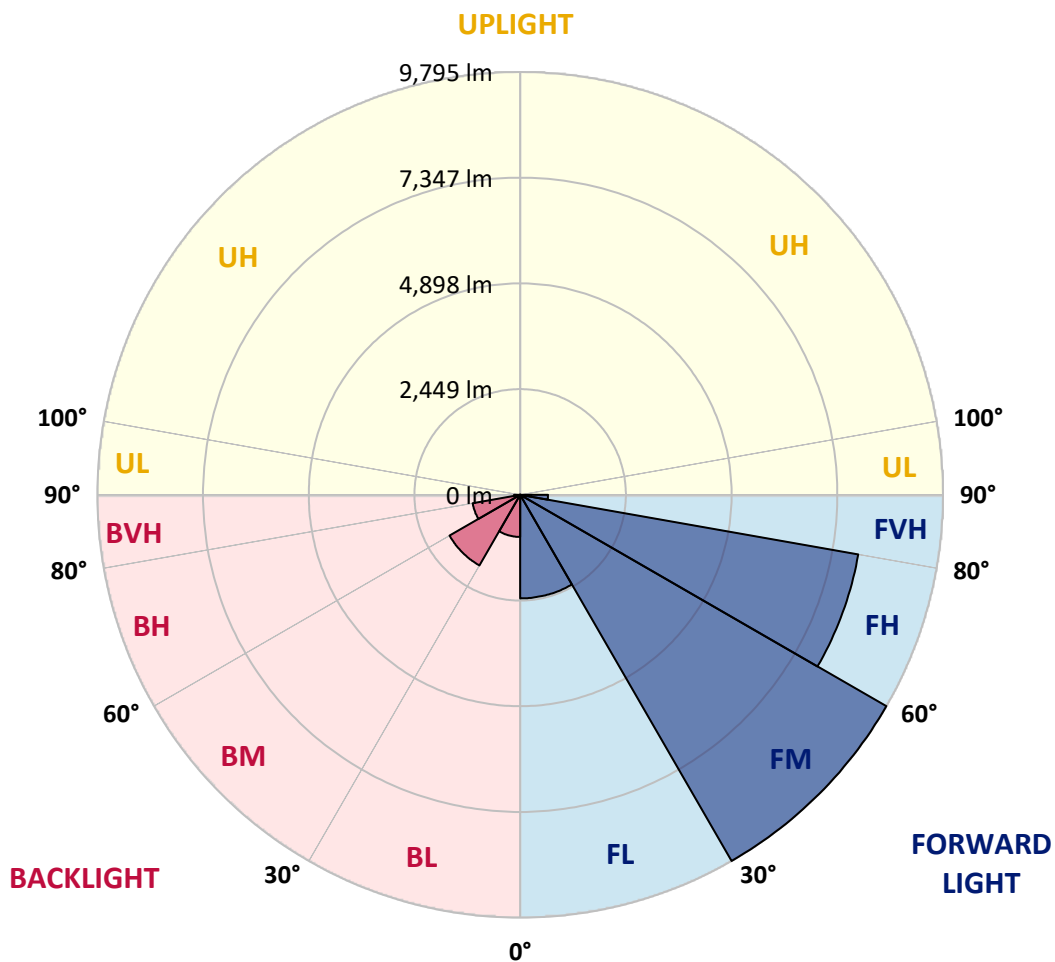
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2399.5	9.6			
FM	(30°-60°)	9795.4	39.3			
FH	(60°-80°)	7952.9	31.9			G4/12000
FVH	(80°-90°)	646.4	2.6			G4/750
BL	(0°-30°)	975.6	3.9	B2/1000		
BM	(30°-60°)	1889.4	7.6	B2/2500		
BH	(60°-80°)	1117.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	140.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	8747.3	8887.0	9159.7	9363.8	9611.7	9669.1	9748.6	9670.6	9532.3	9348.8	9288.4
5°	8225.5	8524.0	9185.7	9767.8	10285.7	10526.7	10593.8	10395.1	9993.9	9466.5	9144.6
7.5°	7388.5	7813.2	8709.0	9566.5	10329.4	10780.1	10769.2	10307.5	9569.1	8710.3	8194.0
10°	6666.6	7151.5	8178.9	9137.6	9947.2	10384.1	10215.7	9625.3	8744.6	7755.6	7195.5
12.5°	6262.5	6737.8	7780.3	8743.3	9419.8	9570.5	9441.8	8863.8	8033.7	7033.8	6543.3
15°	6192.7	6714.7	7621.4	8404.9	8784.3	8652.8	8499.5	8240.5	7654.3	6800.9	6290.0
17.5°	6495.5	7070.7	7803.5	8169.2	8104.9	7876.2	7832.3	7861.1	7720.0	7059.8	6470.9
20°	7076.2	7766.6	8237.7	8058.3	7588.5	7273.4	7284.4	7724.2	8141.9	7715.9	7043.3
22.5°	7891.3	8678.9	8863.8	8117.3	7370.8	6996.8	7087.2	7799.4	8814.4	8674.8	7816.0
25°	8946.0	9663.6	9530.8	8330.9	7392.6	7031.0	7103.5	8059.8	9608.9	9633.6	8771.9
27.5°	9967.9	10633.4	10091.1	8614.4	7483.1	7111.8	7207.7	8469.3	10367.8	10674.6	9865.0
30°	10765.0	11227.9	10313.0	8873.4	7661.1	7269.4	7388.5	8858.2	10712.9	11377.4	10706.1
32.5°	11425.3	11758.0	10666.4	9194.0	7988.4	7517.2	7726.9	9330.9	11210.2	12045.7	11529.3
35°	12269.1	12363.6	11106.0	9551.4	8494.0	7948.7	8209.0	9793.9	11684.2	12721.1	12340.2
37.5°	13257.9	13136.0	11521.1	10040.4	9147.4	8624.1	8839.1	10302.0	12074.5	13486.8	13169.0
40°	14236.0	13942.9	12041.6	10799.2	10100.6	9419.8	9674.7	10844.5	12438.9	14253.8	13978.4
42.5°	15067.5	14633.2	12555.3	11633.4	10988.2	10297.9	10601.9	11391.0	12786.7	14908.5	14681.2
45°	15682.5	15142.8	13044.3	12434.8	12211.5	11465.0	11608.7	12016.9	13163.5	15455.1	15259.1
47.5°	16231.7	15655.1	13597.6	13243.0	13281.4	12982.7	12751.3	12745.7	13607.3	15901.6	15805.8
50°	16967.4	16366.0	14192.1	14075.7	14886.6	14688.0	14177.1	13596.2	14168.8	16408.4	16397.5
52.5°	17981.0	17491.9	14918.2	14972.9	16385.2	16515.2	15882.5	14618.2	15048.2	17338.5	17272.8
55°	19179.5	18894.6	15907.0	16004.4	18223.3	18316.5	17687.7	15896.1	16341.3	18684.9	18502.7
57.5°	20115.0	20054.8	16992.0	17242.6	19595.8	20015.0	19436.9	17375.5	17798.7	19819.1	19361.7
60°	20487.6	20779.4	18146.8	18491.9	20865.7	21330.1	20823.3	18675.5	19090.5	20288.9	19302.8
62.5°	20286.2	20938.2	19376.7	19348.0	21149.2	21649.2	21293.1	19398.7	20048.0	19804.2	18326.1
65°	19356.1	20367.1	20090.4	19127.4	20179.4	20220.5	20105.4	19075.4	20273.9	18271.3	16438.5
67.5°	17330.3	18784.9	19150.7	17237.1	17563.1	17296.1	17102.9	17305.7	19095.9	15974.2	13815.5
70°	14115.4	16304.3	16479.6	13786.6	13638.7	13459.3	13074.4	14188.1	16771.4	13092.3	10962.2
72.5°	10378.7	12679.9	13218.3	10111.6	9426.8	9463.7	9159.7	10692.4	13636.0	9725.3	8184.4
75°	7100.9	9181.5	10341.7	7055.6	6233.8	6248.9	6210.5	7576.1	10860.9	6765.2	6124.3
77.5°	5187.4	6559.9	7799.4	4743.5	4605.2	4520.2	4499.7	5301.0	8326.7	4912.0	4755.8
80°	4162.7	4846.3	5239.4	3287.4	3535.4	3528.5	3414.8	3645.0	5438.0	3593.0	3557.3
82.5°	2887.5	3724.5	4244.9	2576.5	2386.2	2346.5	2373.9	2714.9	3843.6	2456.0	2335.5
85°	1523.2	2473.8	4203.8	2283.4	1416.4	1130.1	1405.4	2223.1	3329.8	1301.3	1139.6
87.5°	194.6	715.1	2783.4	910.9	558.8	301.3	667.1	1252.0	2138.2	265.7	231.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	9133.5	8951.4	8713.1	8492.5	8263.8	8036.4	7739.2	7552.9	7424.1	7399.5	7344.7
5°	8911.7	8306.3	7848.9	7452.9	7094.1	6587.2	6306.5	6073.5	5948.8	5936.5	5906.4
7.5°	7888.5	7053.0	6435.2	5874.9	5366.7	4957.1	4505.2	4294.2	4207.9	4228.5	4249.1
10°	6824.2	5889.9	5180.4	4607.9	4160.1	3814.8	3451.7	3206.6	3036.8	3002.6	2995.7
12.5°	6046.1	5021.5	4332.5	3928.5	3581.9	3257.3	2872.4	2583.3	2362.8	2287.5	2236.8
15°	5717.4	4596.9	3875.1	3439.5	3057.3	2645.0	2287.5	1984.7	1782.1	1716.3	1679.3
17.5°	5787.3	4479.2	3560.1	3002.6	2513.5	2083.3	1632.8	1373.9	1252.0	1220.4	1220.4
20°	6154.4	4457.2	3299.7	2599.9	1990.3	1491.6	1121.9	973.9	934.1	930.0	941.1
22.5°	6669.3	4533.9	3105.4	2250.6	1546.4	1088.9	874.0	819.2	801.3	805.4	817.7
25°	7436.4	4792.7	2964.1	1939.6	1213.6	891.7	779.4	746.5	738.2	749.2	764.4
27.5°	8346.1	5051.7	2876.6	1705.3	1024.5	815.0	741.0	706.7	712.3	726.0	739.7
30°	9144.6	5264.0	2738.2	1538.3	965.7	819.2	741.0	694.5	689.0	691.8	695.8
32.5°	9861.0	5407.8	2576.5	1379.3	832.8	727.4	691.8	684.9	654.8	643.7	645.2
35°	10478.6	5407.8	2479.3	1286.3	746.5	645.2	587.6	553.4	538.4	539.7	554.8
37.5°	11074.6	5299.6	2431.4	1234.1	700.0	613.6	563.0	532.9	512.4	508.3	511.0
40°	11600.5	5142.1	2376.6	1212.3	664.3	594.5	546.4	521.8	499.9	493.1	494.4
42.5°	12022.5	5014.7	2316.3	1183.4	642.4	580.8	535.6	513.7	488.9	482.2	480.9
45°	12478.5	4972.3	2236.8	1125.9	653.3	582.1	532.9	509.6	484.8	476.7	473.9
47.5°	13080.0	5105.1	2154.7	1057.5	676.7	589.0	536.9	509.6	483.6	476.7	473.9
50°	13837.4	5417.4	2050.6	957.5	653.3	608.2	535.6	505.4	483.6	476.7	471.3
52.5°	14809.9	5839.3	1913.6	842.4	639.8	654.8	532.9	497.2	476.7	467.1	457.4
55°	15992.0	6184.6	1750.5	747.8	608.2	642.4	528.7	487.6	465.7	452.0	443.9
57.5°	16857.8	6309.2	1541.0	686.2	564.3	621.8	523.3	475.4	452.0	441.1	430.1
60°	16686.6	6068.1	1364.3	647.9	538.4	561.6	519.1	464.3	439.7	431.5	421.8
62.5°	15315.4	5438.0	1250.6	630.2	521.8	512.4	523.3	453.4	428.8	420.5	417.8
65°	13259.3	4508.0	1205.3	625.9	508.3	483.6	486.3	441.1	416.5	409.5	406.8
67.5°	10937.7	3638.0	1165.7	639.8	490.4	462.9	449.3	424.5	404.1	397.2	391.8
70°	8625.4	3025.9	1147.9	631.5	468.5	442.4	427.4	406.8	389.1	382.1	378.0
72.5°	6946.1	2555.9	1138.3	623.2	439.7	415.0	401.4	383.5	364.4	361.6	357.5
75°	5877.7	2009.5	1042.5	597.3	406.8	382.1	372.5	356.2	337.0	337.0	334.2
77.5°	4533.9	1453.3	867.0	528.7	372.5	345.2	337.0	324.6	302.6	306.9	305.5
80°	3349.2	947.9	678.0	438.4	330.0	304.0	299.9	287.6	264.5	269.9	269.9
82.5°	2294.5	621.8	487.6	359.0	282.2	257.5	257.5	245.1	219.1	221.9	230.1
85°	1151.9	427.4	364.4	278.0	219.1	206.8	206.8	197.3	171.2	172.6	183.6
87.5°	350.7	257.5	241.0	198.6	157.6	154.8	148.0	141.0	124.7	123.2	130.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	7261.1	7183.0	7088.5	6880.4	6810.5	6806.4	6869.3	6803.7	6929.6	6876.3	6935.2
5°	5855.7	5779.1	5673.5	5407.8	5246.2	5136.6	5084.5	4931.2	5042.0	4961.2	5028.4
7.5°	4306.6	4324.4	4254.6	4098.3	3746.3	3569.7	3465.5	3372.3	3453.2	3445.0	3573.7
10°	3027.2	3075.1	3025.9	2868.3	2583.3	2486.1	2505.4	2542.4	2647.8	2702.6	2901.2
12.5°	2179.3	2176.6	2145.1	2003.9	1816.4	1827.2	1905.3	1969.8	2067.0	2124.5	2327.1
15°	1627.3	1602.7	1588.9	1473.8	1367.0	1390.2	1428.7	1435.5	1497.1	1531.4	1695.8
17.5°	1230.0	1242.4	1257.4	1175.3	1094.5	1079.4	1049.2	1012.3	1030.0	1037.0	1119.1
20°	976.6	1026.0	1063.0	1005.5	923.2	879.4	841.1	816.4	816.4	815.0	838.3
22.5°	853.4	889.1	928.7	889.1	815.0	776.7	754.8	735.5	732.8	732.8	754.8
25°	786.2	812.2	850.7	823.2	768.4	739.7	719.2	694.5	684.9	682.2	697.3
27.5°	753.4	764.4	783.5	758.9	712.3	698.6	693.1	671.3	658.8	652.0	667.1
30°	697.3	694.5	695.8	671.3	634.3	632.9	642.4	646.5	642.4	641.0	664.3
32.5°	645.2	639.8	638.3	616.3	582.1	573.9	582.1	590.4	600.0	613.6	641.0
35°	579.3	593.2	601.3	582.1	541.0	516.3	506.9	491.7	483.6	483.6	515.1
37.5°	527.3	558.8	571.2	553.4	508.3	473.9	457.4	454.7	456.1	461.5	491.7
40°	509.6	532.9	543.8	526.0	480.9	449.3	439.7	436.9	439.7	448.0	478.1
42.5°	498.6	515.1	513.7	491.7	454.7	432.9	427.4	424.5	427.4	435.6	468.5
45°	488.9	499.9	488.9	462.9	428.8	417.8	419.1	417.8	420.5	428.8	460.2
47.5°	480.9	484.8	471.3	445.2	409.5	406.8	412.3	416.5	419.1	425.9	458.9
50°	468.5	468.5	456.1	428.8	393.1	394.4	401.4	411.0	412.3	420.5	446.5
52.5°	453.4	452.0	443.9	417.8	379.4	383.5	383.5	394.4	397.2	406.8	434.2
55°	441.1	438.4	434.2	409.5	367.0	374.0	369.8	374.0	380.8	390.4	420.5
57.5°	430.1	424.5	424.5	402.7	357.5	360.2	350.7	356.2	364.4	372.5	404.1
60°	419.1	413.7	416.5	393.1	342.4	339.6	335.5	346.6	349.4	359.0	390.4
62.5°	406.8	402.7	404.1	382.1	331.5	324.6	324.6	334.2	335.5	349.4	379.4
65°	397.2	391.8	390.4	371.2	319.2	311.0	315.0	319.2	322.0	335.5	364.4
67.5°	387.7	376.7	376.7	361.6	305.5	297.2	305.5	304.0	308.2	320.5	343.8
70°	375.3	360.2	361.6	354.8	291.8	282.2	289.1	287.6	290.4	298.5	322.0
72.5°	356.2	343.8	346.6	343.8	278.0	264.5	267.1	267.1	267.1	274.0	298.5
75°	331.5	322.0	330.0	337.0	261.6	242.5	245.1	245.1	241.0	245.1	275.3
77.5°	301.3	295.9	323.3	313.7	242.5	219.1	219.1	216.4	208.1	213.6	246.6
80°	268.5	264.5	298.5	263.1	220.5	190.4	187.7	180.7	172.6	176.6	209.6
82.5°	234.2	230.1	250.6	201.4	190.4	157.6	150.6	138.3	130.2	134.2	164.4
85°	191.8	191.8	193.1	152.1	145.2	120.6	112.3	95.8	86.2	89.0	117.8
87.5°	137.0	141.0	130.2	104.2	86.2	67.2	61.7	52.0	43.8	50.7	61.7
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: P269332

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	7236.4	7387.1	7558.3	7777.5	7965.2	8273.4	8569.3	8747.3
5°	5410.6	5661.3	5973.5	6374.9	6748.8	7310.4	7868.0	8225.5
7.5°	3872.4	4140.7	4477.8	4979.1	5507.9	6224.3	6961.1	7388.5
10°	3203.9	3479.2	3762.7	4101.1	4533.9	5313.4	6184.6	6666.6
12.5°	2650.4	2945.1	3250.4	3606.5	4008.0	4703.7	5707.8	6262.5
15°	2028.6	2357.3	2717.6	3168.3	3671.0	4475.0	5590.1	6192.7
17.5°	1390.2	1757.4	2199.9	2756.0	3371.0	4401.1	5801.0	6495.5
20°	957.5	1224.6	1697.2	2349.2	3088.8	4391.5	6206.4	7076.2
22.5°	801.3	920.6	1265.6	1975.3	2876.6	4509.3	6835.2	7891.3
25°	741.0	812.2	1011.0	1650.5	2721.8	4780.5	7700.8	8946.0
27.5°	705.3	769.8	917.8	1438.2	2599.9	5095.5	8543.2	9967.9
30°	719.2	784.8	891.7	1330.0	2434.0	5358.5	9291.1	10765.0
32.5°	647.9	676.7	764.4	1234.1	2314.9	5579.1	9945.9	11425.3
35°	552.0	602.8	682.2	1188.9	2317.6	5727.1	10659.6	12269.1
37.5°	526.0	576.7	634.3	1172.5	2349.2	5884.5	11478.6	13257.9
40°	509.6	556.1	605.5	1162.9	2379.3	6028.3	12281.4	14236.0
42.5°	498.6	541.0	602.8	1130.1	2394.3	6157.2	12941.5	15067.5
45°	497.2	541.0	613.6	1097.2	2417.7	6295.4	13495.0	15682.5
47.5°	498.6	558.8	593.2	1057.5	2417.7	6526.9	14144.3	16231.7
50°	493.1	589.0	571.2	1001.3	2361.5	6965.3	15034.6	16967.4
52.5°	490.4	584.8	528.7	915.1	2264.2	7661.1	16175.6	17981.0
55°	483.6	564.3	498.6	786.2	2150.5	8420.0	17397.5	19179.5
57.5°	476.7	499.9	482.2	673.9	1975.3	8954.1	18238.5	20115.0
60°	534.2	436.9	468.5	619.1	1740.9	9100.6	18205.6	20487.6
62.5°	494.4	409.5	450.7	606.9	1576.5	8689.8	17364.5	20286.2
65°	387.7	391.8	432.9	642.4	1532.8	7600.9	15874.3	19356.1
67.5°	354.8	374.0	415.0	687.7	1536.9	6085.8	13647.1	17330.3
70°	334.2	354.8	394.4	710.9	1547.8	4536.7	10789.6	14115.4
72.5°	311.0	328.7	371.2	715.1	1476.6	3295.6	8315.9	10378.7
75°	283.5	299.9	338.3	623.2	1223.2	2286.1	6361.2	7100.9
77.5°	252.1	264.5	297.2	480.9	908.1	1462.9	4775.0	5187.4
80°	215.1	221.9	249.3	352.0	621.8	915.1	3777.8	4162.7
82.5°	172.6	175.3	193.1	264.5	404.1	587.6	2529.9	2887.5
85°	121.9	121.9	132.9	191.8	275.3	372.5	1373.9	1523.2
87.5°	57.5	58.8	58.8	105.6	143.8	189.1	316.5	194.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)