

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: P193835

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193835
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-07-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 30193 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

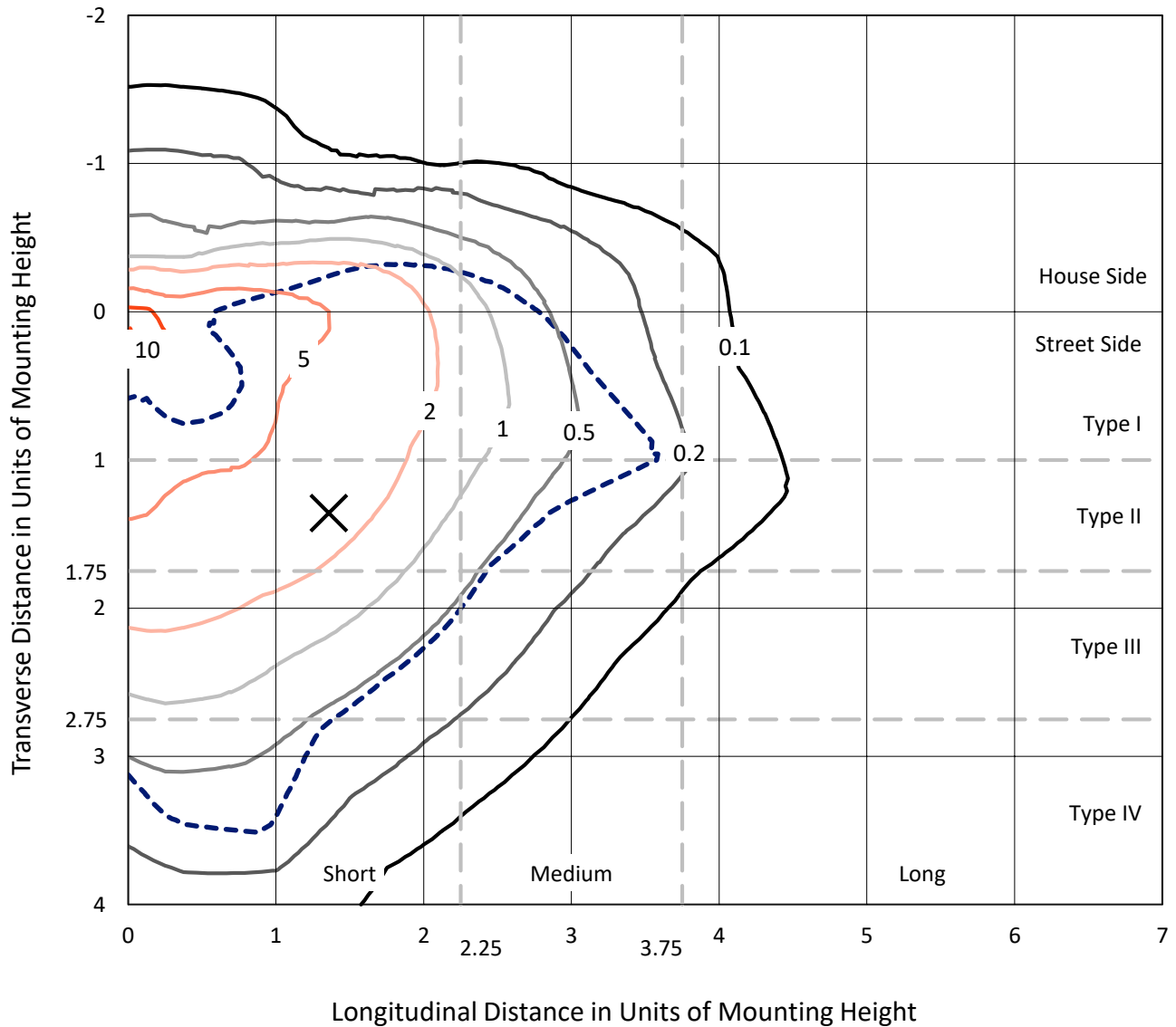
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

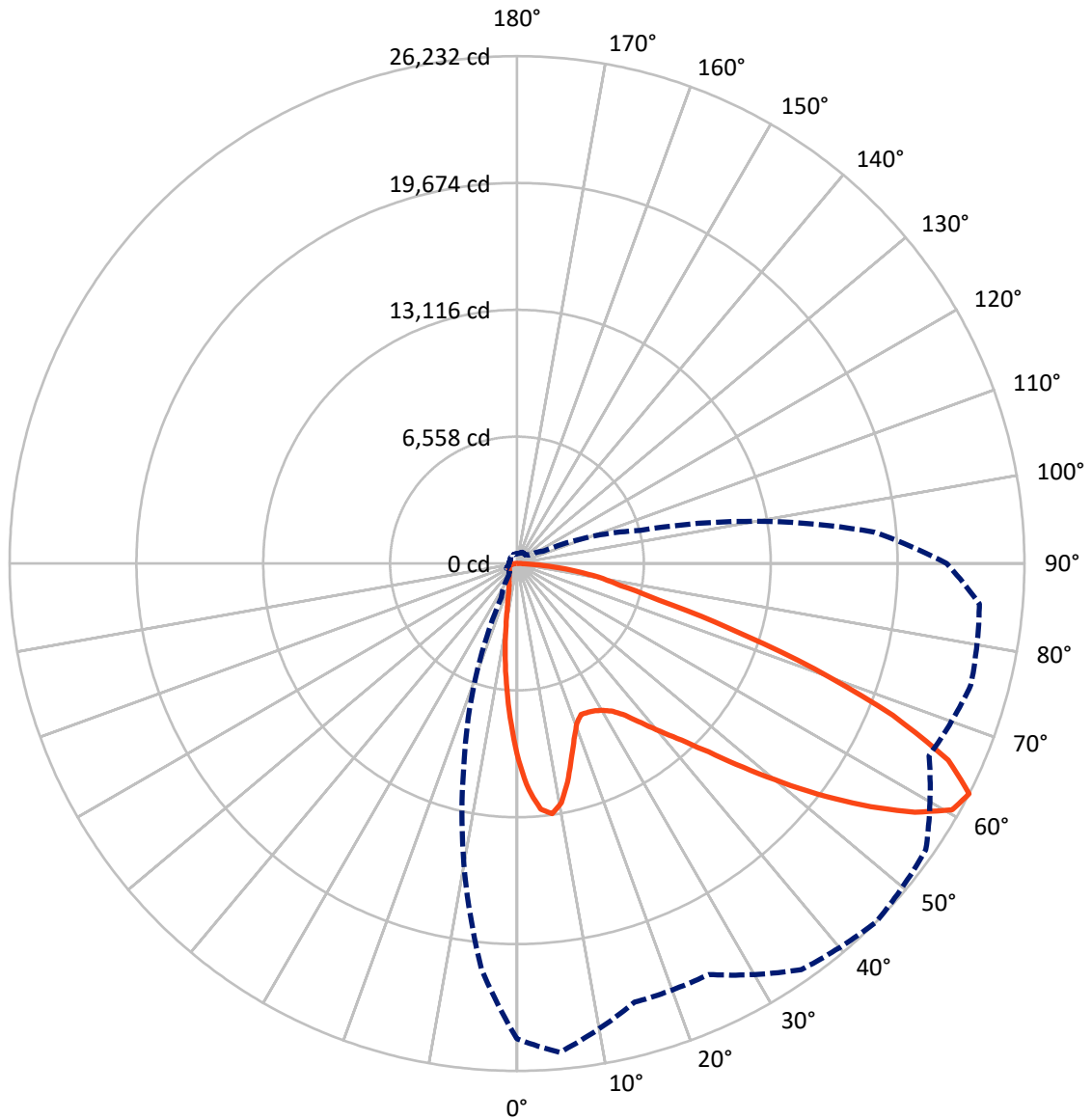
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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	4996.5	0.0	4996.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	25196.5	0.0	25196.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	30193.0	0.0	30193.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.6	2.5
10°-20°	1361.7	4.5
20°-30°	1985.3	6.6
30°-40°	3057.7	10.1
40°-50°	4500.1	14.9
50°-60°	6600.7	21.9
60°-70°	7378.6	24.4
70°-80°	3612.5	12.0
80°-90°	953.8	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°	30193.0	100.0
0°-180°	30193.0	100.0



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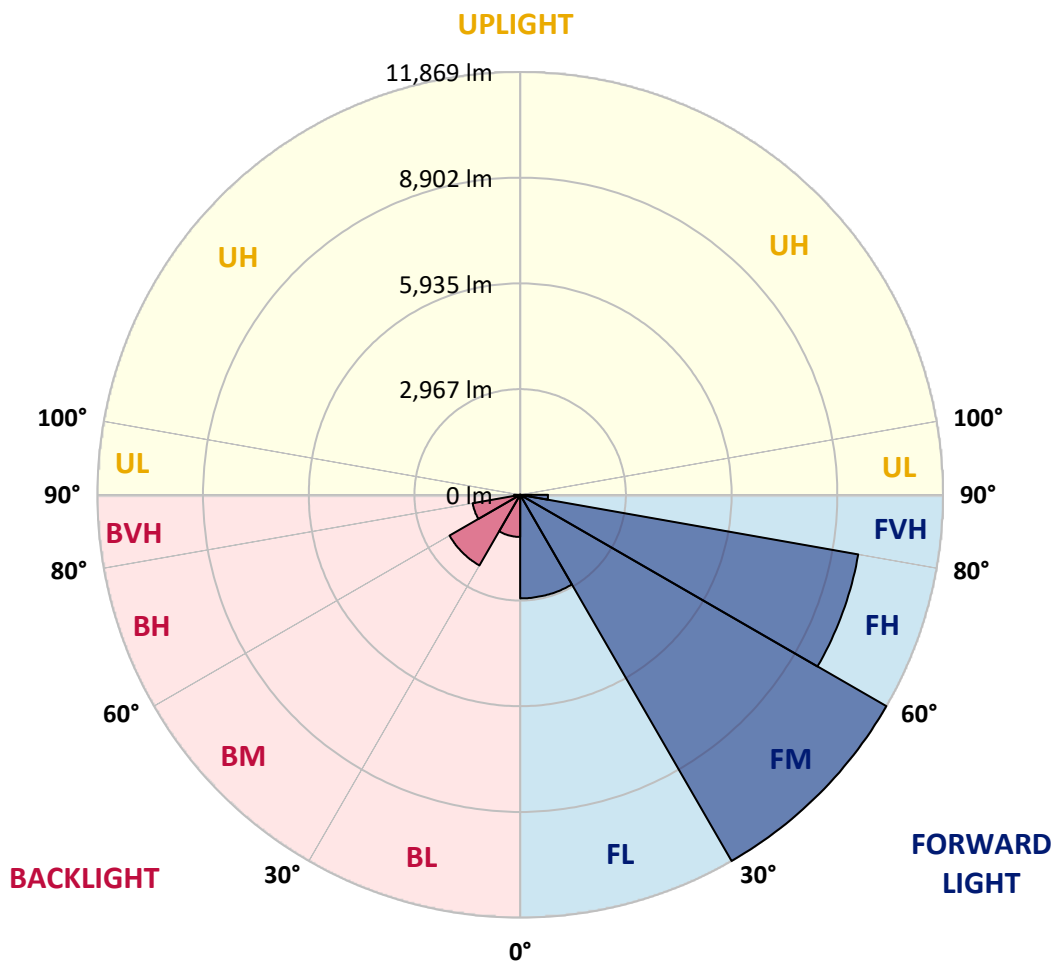
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2907.5	9.6			
FM	(30°-60°)	11869.1	39.3			
FH	(60°-80°)	9636.6	31.9			G4/12000
FVH	(80°-90°)	783.3	2.6			G5
BL	(0°-30°)	1182.1	3.9	B3/2500		
BM	(30°-60°)	2289.4	7.6	B2/2500		
BH	(60°-80°)	1354.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	170.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	10599.2	10768.5	11098.7	11346.0	11646.5	11716.2	11812.4	11717.8	11550.2	11327.8	11254.8
5°	9966.8	10328.6	11130.3	11835.7	12463.1	12755.2	12836.5	12595.8	12109.5	11470.5	11080.5
7.5°	8952.7	9467.2	10552.7	11591.7	12516.2	13062.2	13049.0	12489.6	11595.0	10554.3	9928.6
10°	8078.0	8665.6	9910.4	11072.2	12053.1	12582.6	12378.4	11663.1	10595.8	9397.5	8718.7
12.5°	7588.4	8164.3	9427.4	10594.2	11414.1	11596.7	11440.7	10740.2	9734.4	8522.8	7928.6
15°	7503.7	8136.1	9234.8	10184.2	10644.0	10484.6	10298.7	9985.1	9274.7	8240.7	7621.6
17.5°	7870.5	8567.6	9455.6	9898.7	9820.7	9543.6	9490.4	9525.3	9354.3	8554.4	7840.7
20°	8574.3	9410.8	9981.7	9764.3	9195.0	8813.3	8826.5	9359.3	9865.6	9349.4	8534.4
22.5°	9561.8	10516.2	10740.2	9835.7	8931.1	8478.0	8587.5	9450.6	10680.5	10511.2	9470.5
25°	10839.8	11709.5	11548.5	10094.6	8957.7	8519.5	8607.5	9766.0	11643.1	11673.0	10629.0
27.5°	12078.0	12884.6	12227.4	10438.2	9067.2	8617.4	8733.6	10262.2	12562.6	12934.4	11953.5
30°	13044.0	13605.0	12496.3	10751.9	9283.0	8808.3	8952.7	10733.6	12980.9	13785.9	12972.6
32.5°	13844.0	14247.3	12924.5	11140.2	9679.7	9108.7	9362.6	11306.2	13583.4	14595.8	13970.1
35°	14866.4	14980.9	13457.3	11573.4	10292.1	9631.5	9946.9	11867.2	14157.7	15414.1	14952.7
37.5°	16064.7	15917.0	13960.2	12166.0	11083.8	10449.8	10710.4	12483.0	14630.7	16341.9	15956.8
40°	17249.8	16894.6	14590.9	13085.5	12239.0	11414.1	11722.8	13140.2	15072.2	17271.4	16937.7
42.5°	18257.2	17731.1	15213.3	14096.3	13314.5	12478.0	12846.5	13802.5	15493.8	18064.7	17789.2
45°	19002.5	18348.5	15805.8	15067.2	14796.7	13892.1	14066.4	14561.0	15950.2	18727.0	18489.6
47.5°	19668.0	18969.3	16476.3	16046.5	16092.9	15731.1	15450.6	15444.0	16488.0	19268.0	19151.9
50°	20559.3	19830.7	17196.7	17055.6	18038.2	17797.5	17178.4	16474.7	17168.5	19882.1	19868.9
52.5°	21787.5	21195.0	18076.3	18142.7	19853.9	20011.6	19244.8	17712.8	18234.0	21009.1	20929.4
55°	23239.8	22894.6	19274.7	19392.5	22081.3	22194.2	21432.3	19261.4	19800.8	22640.6	22419.9
57.5°	24373.4	24300.4	20589.2	20892.9	23744.4	24252.3	23551.8	21053.9	21566.8	24014.9	23460.6
60°	24824.9	25178.4	21988.4	22406.6	25283.0	25845.6	25231.5	22629.0	23131.9	24584.2	23389.2
62.5°	24580.9	25370.9	23478.8	23444.0	25626.5	26232.3	25800.8	23505.4	24292.1	23996.7	22205.8
65°	23453.9	24678.8	24343.5	23176.7	24451.4	24501.2	24361.8	23113.7	24566.0	22139.4	19918.7
67.5°	20999.2	22761.8	23205.0	20886.3	21281.3	20957.7	20723.6	20969.3	23138.6	19356.0	16740.2
70°	17103.7	19756.0	19968.4	16705.4	16526.1	16308.7	15842.3	17191.7	20322.0	15863.9	13283.0
72.5°	12575.9	15364.3	16016.6	12252.3	11422.4	11467.2	11098.7	12956.0	16522.8	11784.2	9917.0
75°	8604.1	11125.3	12531.1	8549.4	7553.5	7571.8	7525.3	9180.1	13160.2	8197.5	7420.7
77.5°	6285.5	7948.5	9450.6	5747.7	5580.1	5477.2	5452.3	6423.2	10089.6	5951.9	5762.7
80°	5044.0	5872.2	6348.5	3983.4	4283.8	4275.5	4137.8	4416.6	6589.2	4353.5	4310.4
82.5°	3498.8	4512.9	5143.6	3122.0	2891.3	2843.2	2876.3	3289.6	4657.3	2975.9	2829.9
85°	1845.6	2997.5	5093.8	2766.8	1716.2	1369.3	1702.9	2693.8	4034.9	1576.8	1380.9
87.5°	235.7	866.4	3372.6	1103.7	677.2	365.1	808.3	1517.0	2590.9	322.0	280.5
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°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	11067.2	10846.5	10557.7	10290.4	10013.3	9737.8	9377.6	9151.9	8995.8	8966.0	8899.6
5°	10798.3	10064.7	9510.4	9030.7	8595.8	7981.7	7641.5	7359.3	7208.3	7193.4	7156.8
7.5°	9558.5	8546.1	7797.5	7118.7	6502.9	6006.6	5458.9	5203.3	5098.8	5123.6	5148.5
10°	8268.9	7136.9	6277.2	5583.4	5040.7	4622.4	4182.6	3885.5	3679.7	3638.2	3629.9
12.5°	7326.1	6084.6	5249.8	4760.2	4340.2	3946.9	3480.5	3130.3	2863.1	2771.8	2710.4
15°	6927.8	5570.1	4695.4	4167.6	3704.6	3205.0	2771.8	2405.0	2159.3	2079.7	2034.9
17.5°	7012.4	5427.4	4313.7	3638.2	3045.6	2524.5	1978.4	1664.7	1517.0	1478.8	1478.8
20°	7457.3	5400.8	3998.3	3150.2	2411.6	1807.5	1359.3	1180.1	1131.9	1127.0	1140.2
22.5°	8081.3	5493.8	3762.7	2727.0	1873.9	1319.5	1058.9	992.5	971.0	975.9	990.9
25°	9010.8	5807.5	3591.7	2350.2	1470.5	1080.5	944.4	904.6	894.6	907.9	926.1
27.5°	10112.9	6121.2	3485.5	2066.4	1241.5	987.6	897.9	856.4	863.1	879.7	896.3
30°	11080.5	6378.4	3317.8	1863.9	1170.1	992.5	897.9	841.5	834.9	838.2	843.2
32.5°	11948.5	6552.7	3122.0	1671.4	1009.1	881.3	838.2	829.9	793.4	780.1	781.7
35°	12697.1	6552.7	3004.1	1558.5	904.6	781.7	712.0	670.5	652.3	653.9	672.2
37.5°	13419.1	6421.6	2946.1	1495.4	848.1	743.6	682.2	645.6	620.7	615.8	619.1
40°	14056.4	6230.7	2879.7	1468.9	805.0	720.3	662.2	632.4	605.8	597.5	599.2
42.5°	14567.6	6076.3	2806.6	1434.0	778.4	703.7	649.0	622.4	592.5	584.2	582.6
45°	15120.3	6024.9	2710.4	1364.3	791.7	705.4	645.6	617.4	587.6	577.6	574.3
47.5°	15849.0	6185.9	2610.8	1281.3	819.9	713.7	650.6	617.4	585.9	577.6	574.3
50°	16766.8	6564.3	2484.6	1160.2	791.7	736.9	649.0	612.4	585.9	577.6	571.0
52.5°	17945.2	7075.5	2318.7	1020.7	775.1	793.4	645.6	602.5	577.6	566.0	554.4
55°	19377.6	7493.8	2121.2	906.2	736.9	778.4	640.7	590.9	564.3	547.7	537.8
57.5°	20426.5	7644.8	1867.2	831.5	683.8	753.5	634.0	575.9	547.7	534.4	521.2
60°	20219.1	7352.7	1653.1	785.1	652.3	680.5	629.0	562.7	532.8	522.8	511.2
62.5°	18557.7	6589.2	1515.4	763.5	632.4	620.7	634.0	549.4	519.5	509.5	506.2
65°	16066.4	5462.2	1460.6	758.5	615.8	585.9	589.2	534.4	504.6	496.3	492.9
67.5°	13253.1	4408.3	1412.4	775.1	594.2	561.0	544.4	514.5	489.6	481.3	474.7
70°	10451.4	3666.4	1390.9	765.1	567.6	536.1	517.8	492.9	471.4	463.1	458.1
72.5°	8416.6	3097.1	1379.3	755.2	532.8	502.9	486.3	464.7	441.5	438.2	433.2
75°	7122.0	2434.9	1263.1	723.7	492.9	463.1	451.5	431.5	408.3	408.3	405.0
77.5°	5493.8	1761.0	1050.6	640.7	451.5	418.3	408.3	393.4	366.8	371.8	370.1
80°	4058.1	1148.5	821.6	531.1	400.0	368.5	363.5	348.5	320.3	327.0	327.0
82.5°	2780.1	753.5	590.9	434.9	341.9	312.0	312.0	297.1	265.6	268.9	278.8
85°	1395.8	517.8	441.5	336.9	265.6	250.6	250.6	239.0	207.5	209.1	222.4
87.5°	424.9	312.0	292.1	240.7	190.9	187.6	179.3	171.0	151.0	149.4	157.7
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°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	8798.3	8703.7	8589.2	8336.9	8252.3	8247.3	8323.6	8244.0	8396.7	8331.9	8403.3
5°	7095.4	7002.5	6874.7	6552.7	6356.8	6224.1	6161.0	5975.1	6109.5	6011.6	6092.9
7.5°	5218.3	5239.8	5155.2	4966.0	4539.4	4325.3	4199.2	4086.3	4184.2	4174.3	4330.3
10°	3668.0	3726.1	3666.4	3475.5	3130.3	3012.4	3035.7	3080.5	3208.3	3274.7	3515.3
12.5°	2640.7	2637.3	2599.2	2428.2	2200.8	2214.1	2308.7	2386.7	2504.6	2574.3	2819.9
15°	1971.8	1941.9	1925.3	1785.9	1656.4	1684.6	1731.1	1739.4	1814.1	1855.6	2054.8
17.5°	1490.5	1505.4	1523.7	1424.1	1326.1	1307.9	1271.4	1226.6	1248.1	1256.4	1356.0
20°	1183.4	1243.2	1288.0	1218.3	1118.7	1065.6	1019.1	989.2	989.2	987.6	1015.8
22.5°	1034.0	1077.2	1125.3	1077.2	987.6	941.1	914.5	891.3	888.0	888.0	914.5
25°	952.7	984.2	1030.7	997.5	931.1	896.3	871.4	841.5	829.9	826.6	844.8
27.5°	912.9	926.1	949.4	919.5	863.1	846.5	839.8	813.3	798.3	790.0	808.3
30°	844.8	841.5	843.2	813.3	768.5	766.8	778.4	783.4	778.4	776.8	805.0
32.5°	781.7	775.1	773.4	746.9	705.4	695.4	705.4	715.4	727.0	743.6	776.8
35°	702.1	718.7	728.6	705.4	655.6	625.7	614.1	595.9	585.9	585.9	624.1
37.5°	639.0	677.2	692.1	670.5	615.8	574.3	554.4	551.0	552.7	559.3	595.9
40°	617.4	645.6	658.9	637.3	582.6	544.4	532.8	529.5	532.8	542.7	579.3
42.5°	604.1	624.1	622.4	595.9	551.0	524.5	517.8	514.5	517.8	527.8	567.6
45°	592.5	605.8	592.5	561.0	519.5	506.2	507.9	506.2	509.5	519.5	557.7
47.5°	582.6	587.6	571.0	539.4	496.3	492.9	499.6	504.6	507.9	516.2	556.0
50°	567.6	567.6	552.7	519.5	476.3	478.0	486.3	497.9	499.6	509.5	541.1
52.5°	549.4	547.7	537.8	506.2	459.8	464.7	464.7	478.0	481.3	492.9	526.1
55°	534.4	531.1	526.1	496.3	444.8	453.1	448.1	453.1	461.4	473.0	509.5
57.5°	521.2	514.5	514.5	488.0	433.2	436.5	424.9	431.5	441.5	451.5	489.6
60°	507.9	501.2	504.6	476.3	414.9	411.6	406.6	419.9	423.2	434.9	473.0
62.5°	492.9	488.0	489.6	463.1	401.7	393.4	393.4	405.0	406.6	423.2	459.8
65°	481.3	474.7	473.0	449.8	386.7	376.8	381.7	386.7	390.0	406.6	441.5
67.5°	469.7	456.4	456.4	438.2	370.1	360.2	370.1	368.5	373.4	388.4	416.6
70°	454.8	436.5	438.2	429.9	353.5	341.9	350.2	348.5	351.9	361.8	390.0
72.5°	431.5	416.6	419.9	416.6	336.9	320.3	323.7	323.7	323.7	331.9	361.8
75°	401.7	390.0	400.0	408.3	317.0	293.8	297.1	297.1	292.1	297.1	333.6
77.5°	365.1	358.5	391.7	380.1	293.8	265.6	265.6	262.2	252.3	258.9	298.8
80°	325.3	320.3	361.8	318.7	267.2	230.7	227.4	219.1	209.1	214.1	253.9
82.5°	283.8	278.8	303.7	244.0	230.7	190.9	182.6	167.6	157.7	162.7	199.2
85°	232.4	232.4	234.0	184.2	175.9	146.1	136.1	116.2	104.6	107.9	142.7
87.5°	166.0	171.0	157.7	126.1	104.6	81.3	74.7	63.1	53.1	61.4	74.7
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: P193835

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	8768.5	8951.0	9158.5	9424.1	9651.4	10024.9	10383.4	10599.2
5°	6556.0	6859.7	7238.2	7724.5	8177.6	8858.1	9533.6	9966.8
7.5°	4692.1	5017.4	5425.7	6033.2	6673.9	7541.9	8434.8	8952.7
10°	3882.2	4215.8	4559.3	4969.3	5493.8	6438.2	7493.8	8078.0
12.5°	3211.6	3568.5	3938.6	4370.1	4856.4	5699.6	6916.2	7588.4
15°	2458.1	2856.4	3292.9	3839.0	4448.1	5422.4	6773.4	7503.7
17.5°	1684.6	2129.5	2665.6	3339.4	4084.6	5332.8	7029.0	7870.5
20°	1160.2	1483.8	2056.4	2846.5	3742.7	5321.2	7520.3	8574.3
22.5°	971.0	1115.4	1533.6	2393.4	3485.5	5463.9	8282.2	9561.8
25°	897.9	984.2	1224.9	2000.0	3297.9	5792.5	9331.1	10839.8
27.5°	854.8	932.8	1112.0	1742.7	3150.2	6174.3	10351.9	12078.0
30°	871.4	951.0	1080.5	1611.6	2949.4	6492.9	11258.1	13044.0
32.5°	785.1	819.9	926.1	1495.4	2805.0	6760.2	12051.4	13844.0
35°	668.9	730.3	826.6	1440.7	2808.3	6939.4	12916.2	14866.4
37.5°	637.3	698.8	768.5	1420.7	2846.5	7130.3	13908.7	16064.7
40°	617.4	673.9	733.6	1409.1	2883.0	7304.6	14881.3	17249.8
42.5°	604.1	655.6	730.3	1369.3	2901.2	7460.6	15681.3	18257.2
45°	602.5	655.6	743.6	1329.5	2929.5	7628.2	16351.9	19002.5
47.5°	604.1	677.2	718.7	1281.3	2929.5	7908.7	17138.6	19668.0
50°	597.5	713.7	692.1	1213.3	2861.4	8439.8	18217.4	20559.3
52.5°	594.2	708.7	640.7	1108.7	2743.6	9283.0	19600.0	21787.5
55°	585.9	683.8	604.1	952.7	2605.8	10202.5	21080.5	23239.8
57.5°	577.6	605.8	584.2	816.6	2393.4	10849.8	22099.6	24373.4
60°	647.3	529.5	567.6	750.2	2109.5	11027.4	22059.7	24824.9
62.5°	599.2	496.3	546.1	735.3	1910.4	10529.5	21040.6	24580.9
65°	469.7	474.7	524.5	778.4	1857.3	9210.0	19234.8	23453.9
67.5°	429.9	453.1	502.9	833.2	1862.2	7374.3	16536.1	20999.2
70°	405.0	429.9	478.0	861.4	1875.5	5497.1	13073.8	17103.7
72.5°	376.8	398.3	449.8	866.4	1789.2	3993.4	10076.3	12575.9
75°	343.6	363.5	410.0	755.2	1482.2	2770.1	7707.9	8604.1
77.5°	305.4	320.3	360.2	582.6	1100.4	1772.6	5785.9	6285.5
80°	260.6	268.9	302.1	426.6	753.5	1108.7	4577.6	5044.0
82.5°	209.1	212.4	234.0	320.3	489.6	712.0	3065.6	3498.8
85°	147.7	147.7	161.0	232.4	333.6	451.5	1664.7	1845.6
87.5°	69.7	71.4	71.4	127.8	174.3	229.0	383.4	235.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)