

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: P269569

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269569
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-08-LED-E1-SLL-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 36423.8 lumens
Efficiency: N/A
Efficacy: 81.9 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): 445
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

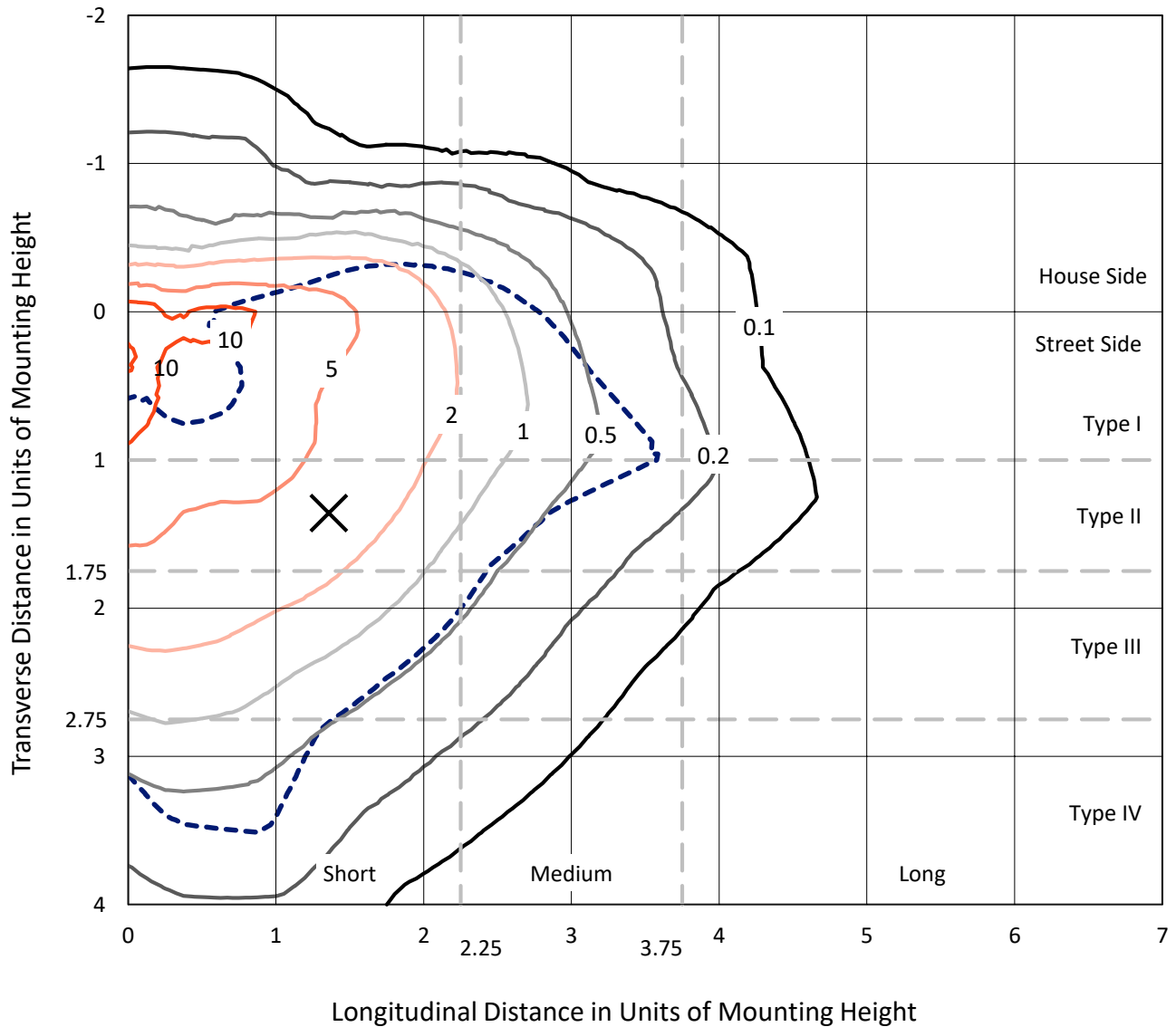


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Iso-Footcandle Lines of Horizontal Illumination

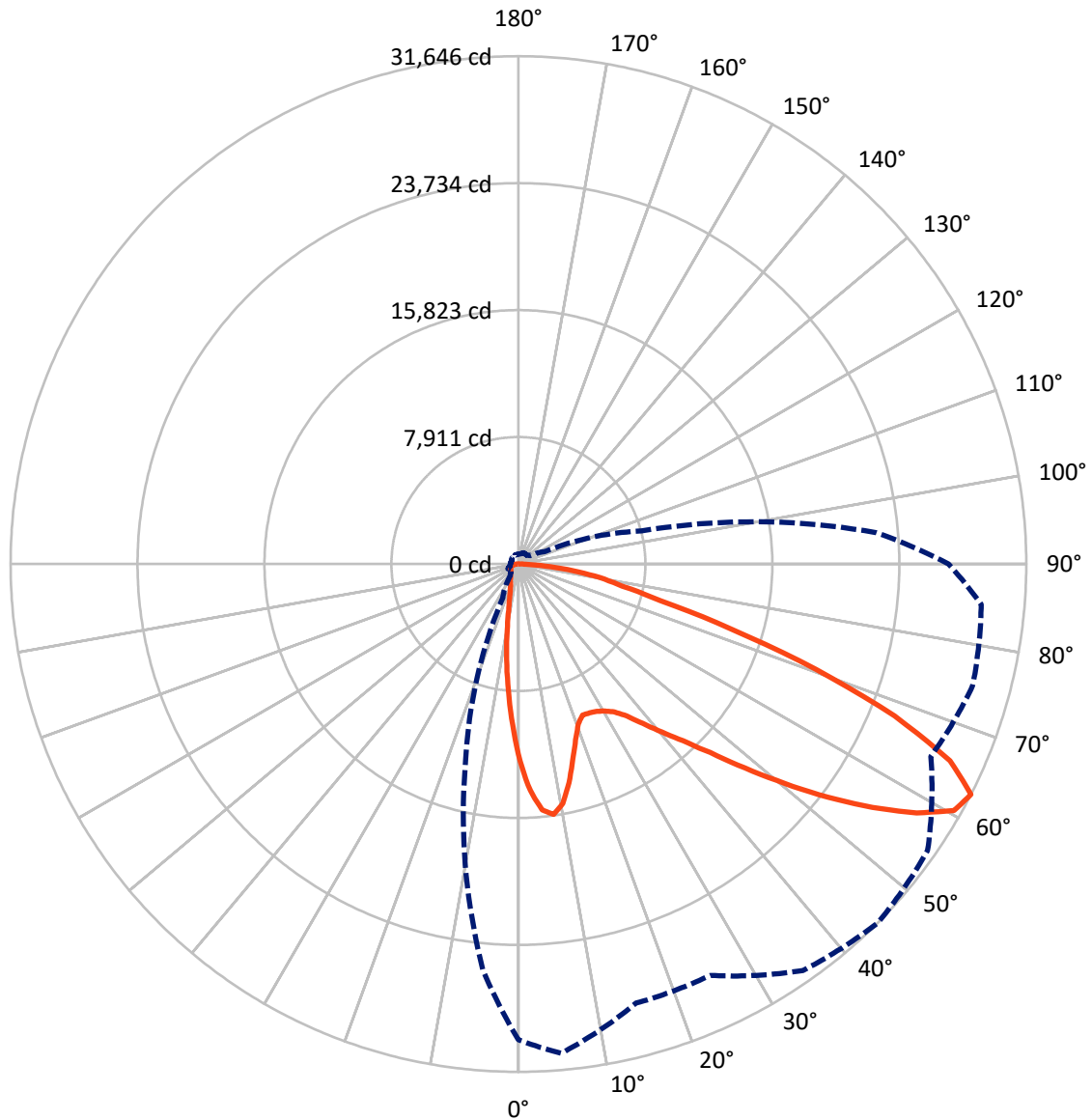
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 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	6027.6	0.0	6027.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	30396.1	0.0	30396.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	36423.8	0.0	36423.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	895.8	2.5
10°-20°	1642.7	4.5
20°-30°	2395.0	6.6
30°-40°	3688.7	10.1
40°-50°	5428.8	14.9
50°-60°	7962.9	21.9
60°-70°	8901.3	24.4
70°-80°	4358.0	12.0
80°-90°	1150.6	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°	36423.8	100.0
0°-180°	36423.8	100.0



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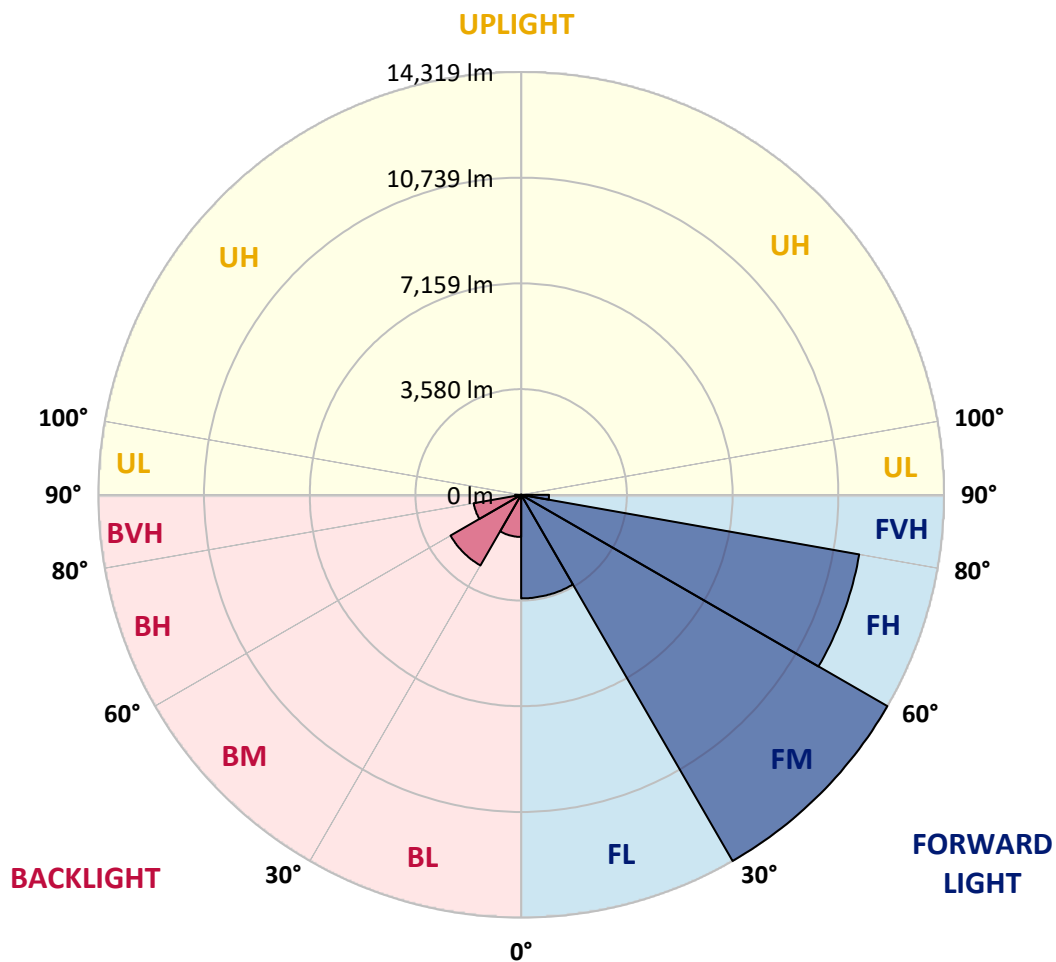
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.5	9.6			
FM (30°-60°)	14318.5	39.3			
FH (60°-80°)	11625.2	31.9			G4/12000
FVH (80°-90°)	944.9	2.6			G5
BL (0°-30°)	1426.0	3.9	B3/2500		
BM (30°-60°)	2761.8	7.6	B3/5000		
BH (60°-80°)	1634.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	205.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	12786.5	12990.7	13389.1	13687.5	14049.9	14134.0	14250.2	14136.0	13933.7	13665.5	13577.3
5°	12023.5	12460.1	13427.1	14278.1	15035.0	15387.3	15485.5	15195.2	14608.4	13837.6	13367.0
7.5°	10800.2	11421.0	12730.4	13983.7	15099.2	15757.8	15741.8	15067.0	13987.8	12732.3	11977.6
10°	9745.1	10453.8	11955.5	13357.1	14540.4	15179.2	14932.9	14070.0	12782.4	11336.8	10517.9
12.5°	9154.4	9849.1	11372.8	12780.5	13769.6	13989.8	13801.6	12956.7	11743.3	10281.6	9564.9
15°	9052.2	9815.2	11140.6	12285.8	12840.6	12648.2	12424.1	12045.6	11188.7	9941.3	9194.4
17.5°	9494.7	10335.7	11406.9	11941.4	11847.3	11512.9	11449.0	11490.9	11284.8	10319.6	9458.8
20°	10343.8	11352.8	12041.6	11779.4	11092.5	10632.0	10648.0	11290.7	11901.5	11278.8	10295.7
22.5°	11535.0	12686.4	12956.7	11865.4	10774.2	10227.6	10359.8	11400.8	12884.6	12680.4	11425.0
25°	13076.7	14125.9	13931.8	12177.8	10806.3	10277.6	10383.8	11781.4	14045.9	14081.9	12822.4
27.5°	14570.5	15543.6	14750.7	12592.3	10938.3	10395.7	10536.0	12380.0	15155.1	15603.6	14420.3
30°	15735.8	16412.6	15075.0	12970.6	11198.7	10626.1	10800.2	12948.6	15659.8	16630.9	15649.7
32.5°	16700.8	17187.5	15591.6	13439.3	11677.2	10988.3	11294.7	13639.4	16386.5	17607.9	16853.0
35°	17934.3	18072.5	16234.3	13961.7	12416.1	11619.1	11999.6	14316.2	17079.4	18595.0	18038.3
37.5°	19379.9	19201.7	16841.1	14676.6	13371.1	12606.3	12920.6	15059.0	17650.0	19714.3	19249.8
40°	20809.5	20381.0	17601.8	15785.8	14764.7	13769.6	14141.9	15851.9	18182.6	20835.6	20433.0
42.5°	22025.0	21390.3	18352.7	17005.3	16062.1	15053.0	15497.5	16650.9	18691.2	21792.6	21460.2
45°	22923.8	22135.0	19067.6	18176.6	17850.2	16758.9	16969.3	17565.8	19241.8	22591.6	22305.3
47.5°	23726.8	22883.9	19876.4	19357.8	19413.9	18977.5	18639.0	18631.0	19890.5	23244.3	23104.0
50°	24802.1	23923.0	20745.5	20575.3	21760.6	21470.3	20723.4	19874.6	20711.4	23985.1	23969.0
52.5°	26283.7	25568.8	21806.6	21886.8	23951.1	24141.3	23216.2	21368.2	21996.8	25344.6	25248.5
55°	28035.7	27619.2	23252.3	23394.4	26638.1	26774.3	25855.2	23236.3	23887.0	27312.8	27046.6
57.5°	29403.2	29315.1	24838.0	25204.5	28644.3	29257.1	28412.1	25398.7	26017.4	28970.8	28302.0
60°	29947.9	30374.3	26526.1	27030.5	30500.5	31179.2	30438.3	27298.9	27905.6	29657.5	28215.9
62.5°	29653.5	30606.6	28324.0	28282.0	30914.9	31645.9	31125.2	28356.1	29305.0	28948.7	26788.3
65°	28293.9	29771.6	29367.2	27959.6	29497.4	29557.4	29389.2	27883.5	29635.5	26708.1	24029.1
67.5°	25332.7	27459.0	27993.6	25196.5	25673.0	25282.5	25000.3	25296.6	27913.6	23350.5	20194.8
70°	20633.3	23832.9	24089.2	20152.8	19936.5	19674.1	19111.6	20739.3	24515.7	19137.6	16024.1
72.5°	15171.1	18535.0	19321.9	14780.7	13779.6	13833.5	13389.1	15629.7	19932.5	14216.0	11963.4
75°	10379.7	13421.1	15117.0	10313.7	9112.2	9134.3	9078.2	11074.6	15875.9	9889.3	8952.1
77.5°	7582.6	9588.9	11400.8	6933.8	6731.5	6607.5	6577.4	7748.8	12171.8	7180.2	6951.9
80°	6084.8	7084.0	7658.7	4805.5	5167.8	5157.8	4991.6	5328.0	7949.0	5251.9	5199.8
82.5°	4220.7	5444.2	6205.0	3766.2	3487.9	3429.9	3470.0	3968.5	5618.4	3590.0	3413.9
85°	2226.4	3616.0	6144.9	3337.7	2070.4	1651.9	2054.3	3249.7	4867.5	1902.2	1665.8
87.5°	284.4	1045.2	4068.7	1331.5	816.9	440.4	975.1	1830.0	3125.6	388.4	338.4
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°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	13351.1	13084.8	12736.3	12414.0	12079.7	11747.2	11312.7	11040.4	10852.2	10816.2	10736.2
5°	13026.7	12141.8	11473.0	10894.4	10369.8	9628.9	9218.4	8877.9	8695.9	8677.7	8633.8
7.5°	11531.1	10309.7	9406.6	8587.6	7844.9	7246.2	6585.5	6277.0	6151.0	6181.0	6211.1
10°	9975.3	8609.7	7572.5	6735.6	6080.8	5576.3	5045.7	4687.3	4439.1	4388.9	4379.0
12.5°	8838.0	7340.3	6333.2	5742.4	5236.0	4761.3	4198.8	3776.3	3454.0	3343.9	3269.7
15°	8357.4	6719.6	5664.4	5027.6	4469.1	3866.3	3343.9	2901.3	2604.9	2508.8	2454.8
17.5°	8459.6	6547.3	5203.9	4388.9	3674.2	3045.4	2386.6	2008.3	1830.0	1784.0	1784.0
20°	8996.2	6515.3	4823.4	3800.3	2909.3	2180.5	1639.9	1423.6	1365.6	1359.6	1375.6
22.5°	9749.0	6627.4	4539.1	3289.8	2260.6	1591.7	1277.4	1197.4	1171.3	1177.3	1195.4
25°	10870.3	7005.9	4332.9	2835.2	1774.1	1303.5	1139.3	1091.3	1079.3	1095.3	1117.2
27.5°	12199.8	7384.3	4204.7	2492.8	1497.7	1191.3	1083.3	1033.2	1041.1	1061.2	1081.2
30°	13367.0	7694.7	4002.5	2248.5	1411.5	1197.4	1083.3	1015.2	1007.1	1011.1	1017.2
32.5°	14414.4	7904.9	3766.2	2016.2	1217.4	1063.2	1011.1	1001.2	957.1	941.1	943.1
35°	15317.3	7904.9	3624.1	1880.2	1091.3	943.1	859.0	809.0	786.8	788.9	810.9
37.5°	16188.3	7746.8	3554.1	1804.1	1023.2	897.0	822.9	778.9	748.8	742.9	746.9
40°	16957.1	7516.5	3473.9	1771.9	971.1	869.0	799.0	762.9	730.9	720.8	722.9
42.5°	17573.8	7330.3	3385.8	1730.0	939.1	849.0	783.0	750.9	714.8	704.8	702.8
45°	18240.7	7268.2	3269.7	1645.9	955.1	851.0	778.9	744.9	708.9	696.7	692.9
47.5°	19119.6	7462.4	3149.5	1545.8	989.2	860.9	784.8	744.9	706.7	696.7	692.9
50°	20226.9	7919.0	2997.4	1399.6	955.1	889.1	783.0	738.9	706.7	696.7	688.8
52.5°	21648.4	8535.6	2797.1	1231.3	935.0	957.1	778.9	726.8	696.7	682.8	668.8
55°	23376.5	9040.3	2558.9	1093.2	889.1	939.1	772.9	712.9	680.7	660.8	648.8
57.5°	24641.9	9222.4	2252.5	1003.1	825.0	909.1	764.8	694.7	660.8	644.8	628.8
60°	24391.6	8870.0	1994.2	947.1	786.8	821.0	758.9	678.8	642.7	630.7	616.6
62.5°	22387.3	7949.0	1828.1	921.0	762.9	748.8	764.8	662.8	626.7	614.7	610.7
65°	19381.9	6589.4	1761.9	915.1	742.9	706.7	710.7	644.8	608.7	598.7	594.7
67.5°	15988.0	5318.1	1703.9	935.0	716.8	676.8	656.8	620.6	590.6	580.7	572.7
70°	12608.3	4423.1	1677.9	923.1	684.8	646.7	624.7	594.7	568.6	558.7	552.6
72.5°	10153.5	3736.2	1663.9	911.1	642.7	606.6	586.7	560.6	532.6	528.7	522.6
75°	8591.7	2937.3	1523.7	873.1	594.7	558.7	544.6	520.6	492.6	492.6	488.6
77.5°	6627.4	2124.4	1267.4	772.9	544.6	504.6	492.6	474.6	442.4	448.6	446.5
80°	4895.6	1385.5	991.1	640.8	482.5	444.5	438.6	420.4	386.5	394.4	394.4
82.5°	3353.8	909.1	712.9	524.6	412.4	376.4	376.4	358.5	320.3	324.4	336.3
85°	1684.0	624.7	532.6	406.5	320.3	302.3	302.3	288.4	250.3	252.2	268.4
87.5°	512.7	376.4	352.3	290.3	230.2	226.3	216.2	206.3	182.1	180.2	190.3
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°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	10614.1	10499.8	10361.7	10057.3	9955.2	9949.3	10041.3	9945.2	10129.5	10051.3	10137.5
5°	8559.7	8447.5	8293.4	7904.9	7668.7	7508.6	7432.3	7208.1	7370.4	7252.1	7350.3
7.5°	6295.1	6321.2	6219.1	5990.7	5476.2	5217.9	5065.7	4929.5	5047.7	5035.7	5224.0
10°	4425.1	4495.1	4423.1	4192.7	3776.3	3634.2	3662.1	3716.2	3870.3	3950.4	4240.8
12.5°	3185.6	3181.5	3135.5	2929.4	2655.0	2671.0	2785.1	2879.2	3021.4	3105.5	3401.8
15°	2378.7	2342.6	2322.6	2154.4	1998.3	2032.2	2088.4	2098.4	2188.5	2238.5	2478.9
17.5°	1798.0	1816.1	1838.1	1718.0	1599.8	1577.9	1533.8	1479.7	1505.6	1515.7	1635.9
20°	1427.5	1499.7	1553.8	1469.6	1349.6	1285.5	1229.4	1193.4	1193.4	1191.3	1225.4
22.5°	1247.3	1299.5	1357.5	1299.5	1191.3	1135.3	1103.3	1075.2	1071.1	1071.1	1103.3
25°	1149.3	1187.3	1243.4	1203.4	1123.3	1081.2	1051.1	1015.2	1001.2	997.1	1019.1
27.5°	1101.2	1117.2	1145.2	1109.2	1041.1	1021.2	1013.2	981.0	963.2	953.1	975.1
30°	1019.1	1015.2	1017.2	981.0	927.1	925.1	939.1	945.0	939.1	937.0	971.1
32.5°	943.1	935.0	933.1	901.0	851.0	838.9	851.0	863.0	876.9	897.0	937.0
35°	846.9	867.0	879.0	851.0	790.9	754.8	740.8	718.9	706.7	706.7	752.9
37.5°	770.8	816.9	835.0	809.0	742.9	692.9	668.8	664.7	666.7	674.7	718.9
40°	744.9	778.9	794.9	768.9	702.8	656.8	642.7	638.8	642.7	654.8	698.8
42.5°	728.9	752.9	750.9	718.9	664.7	632.8	624.7	620.6	624.7	636.7	684.8
45°	714.8	730.9	714.8	676.8	626.7	610.7	612.7	610.7	614.7	626.7	672.8
47.5°	702.8	708.9	688.8	650.7	598.7	594.7	602.8	608.7	612.7	622.7	670.8
50°	684.8	684.8	666.7	626.7	574.6	576.6	586.7	600.6	602.8	614.7	652.8
52.5°	662.8	660.8	648.8	610.7	554.7	560.6	560.6	576.6	580.7	594.7	634.7
55°	644.8	640.8	634.7	598.7	536.6	546.6	540.6	546.6	556.6	570.7	614.7
57.5°	628.8	620.6	620.6	588.7	522.6	526.5	512.7	520.6	532.6	544.6	590.6
60°	612.7	604.6	608.7	574.6	500.5	496.6	490.6	506.6	510.5	524.6	570.7
62.5°	594.7	588.7	590.6	558.7	484.5	474.6	474.6	488.6	490.6	510.5	554.7
65°	580.7	572.7	570.7	542.7	466.5	454.5	460.6	466.5	470.5	490.6	532.6
67.5°	566.7	550.7	550.7	528.7	446.5	434.5	446.5	444.5	450.5	468.6	502.6
70°	548.7	526.5	528.7	518.6	426.4	412.4	422.5	420.4	424.4	436.4	470.5
72.5°	520.6	502.6	506.6	502.6	406.5	386.5	390.5	390.5	390.5	400.5	436.4
75°	484.5	470.5	482.5	492.6	382.4	354.4	358.5	358.5	352.3	358.5	402.4
77.5°	440.4	432.4	472.5	458.6	354.4	320.3	320.3	316.4	304.3	312.3	360.4
80°	392.4	386.5	436.4	384.5	322.3	278.4	274.3	264.3	252.2	258.4	306.3
82.5°	342.3	336.3	366.4	294.4	278.4	230.2	220.3	202.2	190.3	196.2	240.2
85°	280.4	280.4	282.2	222.2	212.2	176.2	164.2	140.1	126.1	130.2	172.1
87.5°	200.2	206.3	190.3	152.2	126.1	98.2	90.1	76.0	64.0	74.1	90.1
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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7027

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	10577.9	10798.2	11048.4	11368.9	11643.1	12093.7	12526.1	12786.5
5°	7908.9	8275.4	8731.9	9318.6	9865.1	10686.1	11501.0	12023.5
7.5°	5660.4	6052.8	6545.4	7278.2	8051.1	9098.3	10175.6	10800.2
10°	4683.4	5085.8	5500.2	5994.7	6627.4	7766.7	9040.3	9745.1
12.5°	3874.4	4304.9	4751.3	5272.0	5858.7	6875.7	8343.5	9154.4
15°	2965.3	3445.9	3972.5	4631.2	5366.0	6541.4	8171.3	9052.2
17.5°	2032.2	2569.0	3215.7	4028.5	4927.6	6433.3	8479.6	9494.7
20°	1399.6	1790.1	2480.8	3434.0	4515.2	6419.3	9072.3	10343.8
22.5°	1171.3	1345.5	1850.1	2887.2	4204.7	6591.5	9991.3	11535.0
25°	1083.3	1187.3	1477.7	2412.7	3978.6	6987.8	11256.8	13076.7
27.5°	1031.2	1125.2	1341.4	2102.4	3800.3	7448.4	12488.1	14570.5
30°	1051.1	1147.2	1303.5	1944.2	3558.0	7832.9	13581.4	15735.8
32.5°	947.1	989.2	1117.2	1804.1	3383.8	8155.3	14538.3	16700.8
35°	806.9	881.0	997.1	1738.0	3387.9	8371.5	15581.6	17934.3
37.5°	768.9	843.0	927.1	1714.0	3434.0	8601.7	16778.9	19379.9
40°	744.9	813.0	885.0	1700.0	3478.0	8812.0	17952.3	20809.5
42.5°	728.9	790.9	881.0	1651.9	3499.9	9000.2	18917.3	22025.0
45°	726.8	790.9	897.0	1603.8	3534.0	9202.3	19726.3	22923.8
47.5°	728.9	816.9	867.0	1545.8	3534.0	9540.8	20675.4	23726.8
50°	720.8	860.9	835.0	1463.7	3451.8	10181.5	21976.9	24802.1
52.5°	716.8	854.9	772.9	1337.4	3309.7	11198.7	23644.6	26283.7
55°	706.7	825.0	728.9	1149.3	3143.6	12307.9	25430.7	28035.7
57.5°	696.7	730.9	704.8	985.1	2887.2	13088.8	26660.2	29403.2
60°	780.8	638.8	684.8	905.0	2544.9	13303.0	26612.1	29947.9
62.5°	722.9	598.7	658.7	886.9	2304.6	12702.4	25382.7	29653.5
65°	566.7	572.7	632.8	939.1	2240.6	11110.5	23204.2	28293.9
67.5°	518.6	546.6	606.6	1005.2	2246.5	8896.0	19948.5	25332.7
70°	488.6	518.6	576.6	1039.2	2262.6	6631.5	15771.8	20633.3
72.5°	454.5	480.6	542.7	1045.2	2158.4	4817.4	12155.8	15171.1
75°	414.5	438.6	494.5	911.1	1788.0	3341.8	9298.5	10379.7
77.5°	368.5	386.5	434.5	702.8	1327.4	2138.4	6979.9	7582.6
80°	314.3	324.4	364.4	514.5	909.1	1337.4	5522.2	6084.8
82.5°	252.2	256.2	282.2	386.5	590.6	859.0	3698.2	4220.7
85°	178.3	178.3	194.3	280.4	402.4	544.6	2008.3	2226.4
87.5°	84.1	86.1	86.1	154.1	210.3	276.3	462.4	284.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)