

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: P192105

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192105
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 40589 lumens
Efficiency: N/A
Efficacy: 90.6 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): 448
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

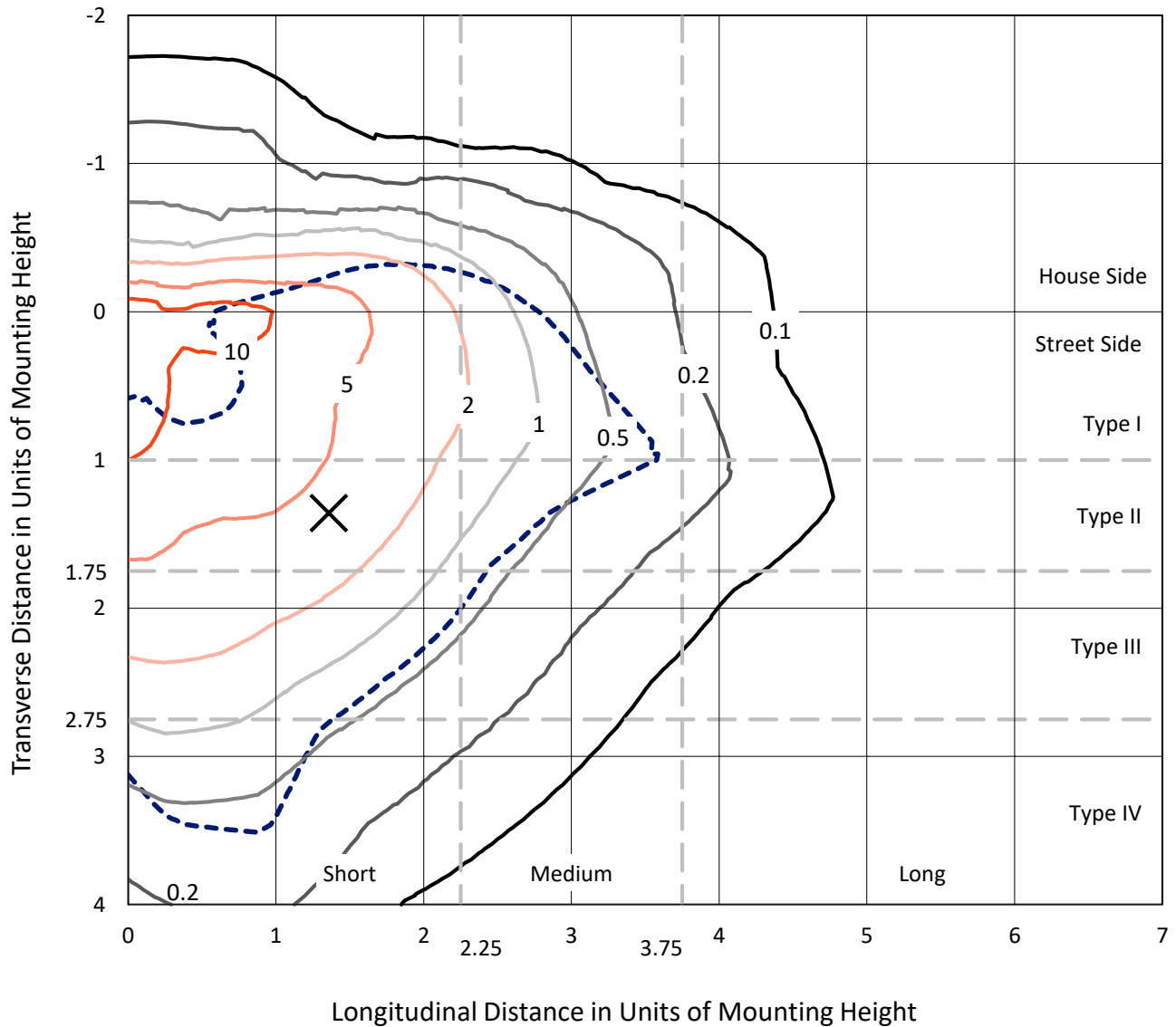


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

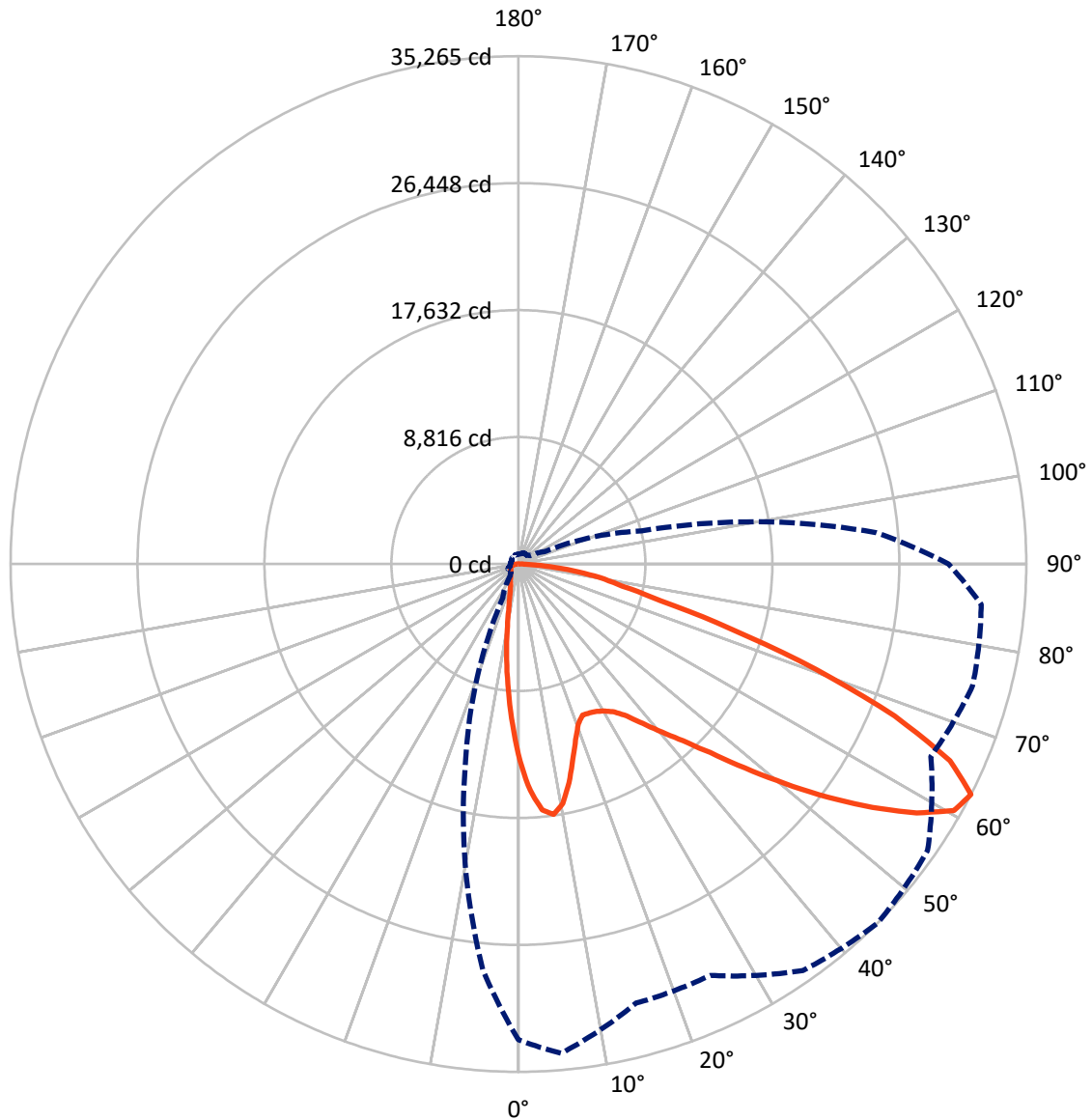


Based on 30 foot mounting height. Maximum calculated value = 17.9 fc
 Type IV - Short - Non-Cutoff

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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	6716.9	0.0	6716.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	33872.1	0.0	33872.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	40589.0	0.0	40589.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.3	2.5
10°-20°	1830.5	4.5
20°-30°	2668.9	6.6
30°-40°	4110.5	10.1
40°-50°	6049.6	14.9
50°-60°	8873.5	21.9
60°-70°	9919.2	24.4
70°-80°	4856.3	12.0
80°-90°	1282.2	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°	40589.0	100.0
0°-180°	40589.0	100.0



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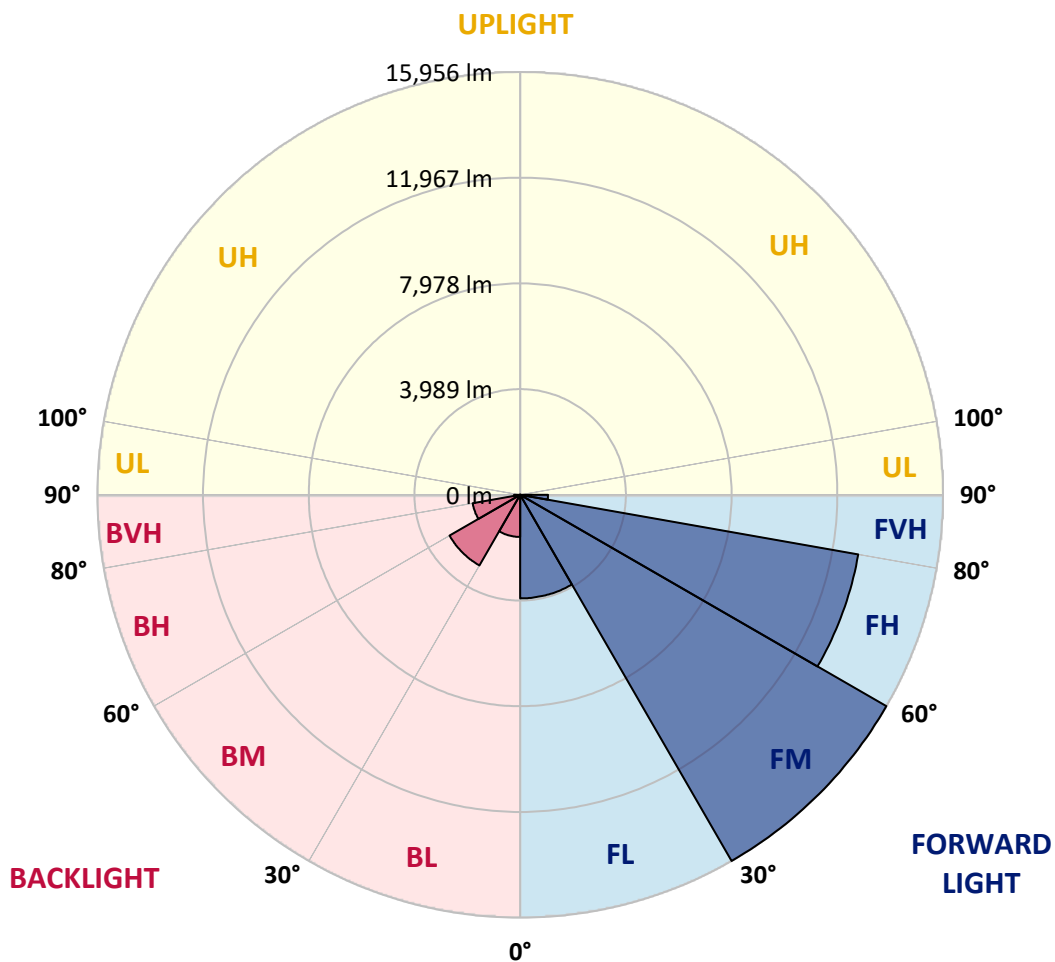
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3908.6	9.6			
FM (30°-60°)	15955.9	39.3			
FH (60°-80°)	12954.6	31.9			G5
FVH (80°-90°)	1053.0	2.6			G5
BL (0°-30°)	1589.1	3.9	B3/2500		
BM (30°-60°)	3077.6	7.6	B3/5000		
BH (60°-80°)	1821.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	229.2	0.6			G3/500
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°	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2
2.5°	14248.6	14476.2	14920.2	15252.7	15656.6	15750.3	15879.7	15752.5	15527.1	15228.2	15130.0
5°	13398.5	13885.0	14962.6	15910.9	16754.3	17147.0	17256.3	16932.8	16279.1	15420.0	14895.7
7.5°	12035.3	12726.9	14186.2	15582.9	16825.7	17559.8	17541.9	16790.0	15587.4	14188.4	13347.2
10°	10859.4	11649.3	13322.7	14884.5	16203.2	16915.0	16640.5	15678.9	14244.2	12633.2	11720.7
12.5°	10201.2	10975.4	12673.4	14242.0	15344.2	15589.6	15379.9	14438.3	13086.2	11457.4	10658.6
15°	10087.4	10937.5	12414.6	13690.8	14308.9	14094.7	13844.8	13423.1	12468.1	11078.1	10245.8
17.5°	10580.5	11517.6	12711.3	13307.1	13202.2	12829.6	12758.2	12805.0	12575.2	11499.8	10540.3
20°	11526.5	12651.1	13418.6	13126.3	12361.0	11847.8	11865.7	12581.9	13262.4	12568.5	11473.0
22.5°	12854.1	14137.1	14438.3	13222.3	12006.3	11397.1	11544.4	12704.6	14358.0	14130.4	12731.4
25°	14572.2	15741.3	15524.9	13570.4	12042.0	11452.9	11571.2	13128.6	15652.1	15692.3	14288.8
27.5°	16236.7	17321.1	16437.5	14032.2	12189.2	11584.6	11740.7	13795.7	16888.2	17388.0	16069.3
30°	17535.3	18289.4	16798.9	14453.9	12479.3	11841.1	12035.3	14429.4	17450.5	18532.6	17439.3
32.5°	18610.7	19152.9	17374.6	14976.0	13012.5	12245.0	12586.4	15199.2	18260.4	19621.5	18780.3
35°	19985.1	20139.1	18090.8	15558.4	13835.9	12947.8	13371.8	15953.3	19032.4	20721.4	20101.2
37.5°	21596.1	21397.5	18766.9	16354.9	14900.2	14047.8	14398.1	16781.1	19668.3	21968.7	21451.1
40°	23189.2	22711.7	19614.8	17591.0	16453.1	15344.2	15759.2	17664.7	20261.8	23218.2	22769.7
42.5°	24543.5	23836.2	20451.5	18949.9	17898.9	16774.4	17269.7	18554.9	20828.5	24284.7	23914.3
45°	25545.4	24666.3	21248.0	20255.1	19891.4	18675.4	18909.7	19574.6	21442.1	25175.0	24855.9
47.5°	26440.1	25500.7	22149.4	21571.5	21634.0	21147.6	20770.5	20761.6	22165.1	25902.4	25746.2
50°	27638.3	26658.8	23117.8	22928.1	24249.0	23925.5	23093.2	22147.2	23079.9	26727.9	26710.1
52.5°	29289.4	28492.8	24300.3	24389.6	26690.0	26902.0	25871.1	23811.7	24512.3	28242.9	28135.8
55°	31241.7	30777.6	25911.3	26069.7	29684.3	29836.0	28811.9	25893.4	26618.6	30436.2	30139.5
57.5°	32765.6	32667.5	27678.4	28086.7	31920.0	32602.8	31661.2	28303.2	28992.6	32283.7	31538.5
60°	33372.5	33847.8	29559.4	30121.6	33988.4	34744.7	33919.2	30420.6	31096.7	33049.0	31442.5
62.5°	33044.5	34106.6	31563.0	31516.1	34450.2	35264.6	34684.5	31598.7	32656.3	32259.1	29851.7
65°	31529.5	33176.2	32725.5	31156.9	32870.5	32937.4	32750.0	31072.1	33024.5	29762.4	26777.0
67.5°	28229.5	30599.1	31194.9	28077.8	28608.9	28173.8	27859.2	28189.4	31105.6	26020.6	22504.2
70°	22992.8	26558.4	26843.9	22457.3	22216.4	21924.1	21297.1	23111.1	27319.2	21326.1	17856.5
72.5°	16906.0	20654.5	21531.4	16471.0	15355.3	15415.6	14920.2	17417.0	22211.9	15841.7	13331.6
75°	11566.7	14955.9	16845.8	11493.1	10154.3	10178.9	10116.4	12340.9	17691.4	11020.1	9975.8
77.5°	8449.7	10685.4	12704.6	7726.8	7501.4	7363.1	7329.6	8634.9	13563.7	8001.2	7746.8
80°	6780.7	7894.1	8534.5	5355.0	5758.8	5747.7	5562.5	5937.3	8858.0	5852.5	5794.5
82.5°	4703.4	6066.7	6914.6	4196.9	3886.8	3822.1	3866.7	4422.3	6260.8	4000.6	3804.3
85°	2481.1	4029.6	6847.7	3719.5	2307.1	1840.8	2289.2	3621.3	5424.1	2119.7	1856.4
87.5°	316.8	1164.7	4533.9	1483.8	910.3	490.9	1086.6	2039.3	3483.0	432.9	377.1
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2
2.5°	14877.9	14581.1	14192.9	13833.6	13461.0	13090.6	12606.5	12303.0	12093.3	12053.1	11963.9
5°	14516.4	13530.2	12785.0	12140.1	11555.5	10730.0	10272.6	9893.3	9690.2	9670.2	9621.1
7.5°	12849.7	11488.6	10482.3	9569.8	8742.0	8074.8	7338.5	6994.9	6854.3	6887.8	6921.3
10°	11116.0	9594.3	8438.5	7505.9	6776.3	6214.0	5622.7	5223.3	4946.6	4890.9	4879.7
12.5°	9848.7	8179.7	7057.4	6399.2	5834.7	5305.9	4678.9	4208.1	3848.9	3726.2	3643.6
15°	9313.2	7488.0	6312.2	5602.6	4980.1	4308.5	3726.2	3233.1	2902.8	2795.7	2735.5
17.5°	9427.0	7296.1	5799.0	4890.9	4094.3	3393.7	2659.6	2237.9	2039.3	1988.0	1988.0
20°	10024.9	7260.4	5375.0	4234.9	3242.0	2429.8	1827.4	1586.4	1521.7	1515.0	1532.9
22.5°	10863.9	7385.4	5058.2	3665.9	2519.1	1773.8	1423.5	1334.3	1305.3	1312.0	1332.0
25°	12113.4	7807.1	4828.4	3159.4	1976.9	1452.5	1269.6	1216.0	1202.6	1220.5	1245.0
27.5°	13594.9	8228.8	4685.6	2777.9	1669.0	1327.6	1207.1	1151.3	1160.2	1182.6	1204.9
30°	14895.7	8574.6	4460.2	2505.7	1573.0	1334.3	1207.1	1131.2	1122.3	1126.8	1133.5
32.5°	16062.6	8808.9	4196.9	2246.9	1356.6	1184.8	1126.8	1115.6	1066.5	1048.7	1050.9
35°	17068.9	8808.9	4038.5	2095.1	1216.0	1050.9	957.2	901.4	876.9	879.1	903.6
37.5°	18039.5	8632.6	3960.4	2010.3	1140.2	999.6	917.0	867.9	834.5	827.8	832.2
40°	18896.3	8376.0	3871.2	1974.6	1082.1	968.4	890.3	850.1	814.4	803.2	805.5
42.5°	19583.5	8168.5	3773.0	1927.8	1046.4	946.0	872.4	836.7	796.5	785.4	783.2
45°	20326.5	8099.4	3643.6	1834.1	1064.3	948.3	867.9	830.0	789.9	776.5	772.0
47.5°	21306.0	8315.8	3509.7	1722.5	1102.2	959.4	874.6	830.0	787.6	776.5	772.0
50°	22539.9	8824.5	3340.2	1559.6	1064.3	990.7	872.4	823.3	787.6	776.5	767.5
52.5°	24124.1	9511.7	3117.0	1372.2	1042.0	1066.5	867.9	809.9	776.5	760.9	745.2
55°	26049.6	10074.0	2851.5	1218.3	990.7	1046.4	861.3	794.3	758.6	736.3	722.9
57.5°	27459.8	10277.1	2510.1	1117.8	919.3	1013.0	852.3	774.2	736.3	718.5	700.6
60°	27180.9	9884.4	2222.3	1055.4	876.9	914.8	845.6	756.4	716.2	702.8	687.2
62.5°	24947.4	8858.0	2037.1	1026.4	850.1	834.5	852.3	738.5	698.4	685.0	680.5
65°	21598.3	7343.0	1963.5	1019.7	827.8	787.6	792.1	718.5	678.3	667.1	662.7
67.5°	17816.4	5926.2	1898.8	1042.0	798.8	754.2	731.8	691.7	658.2	647.1	638.1
70°	14050.1	4928.8	1869.8	1028.6	763.1	720.7	696.1	662.7	633.7	622.5	615.8
72.5°	11314.6	4163.5	1854.2	1015.2	716.2	676.1	653.8	624.7	593.5	589.0	582.4
75°	9574.2	3273.2	1698.0	972.8	662.7	622.5	606.9	580.1	548.9	548.9	544.4
77.5°	7385.4	2367.3	1412.4	861.3	606.9	562.3	548.9	528.8	493.1	499.8	497.6
80°	5455.4	1544.0	1104.5	714.0	537.7	495.3	488.6	468.6	430.6	439.6	439.6
82.5°	3737.3	1013.0	794.3	584.6	459.6	419.5	419.5	399.4	357.0	361.5	374.8
85°	1876.5	696.1	593.5	452.9	357.0	336.9	336.9	321.3	278.9	281.1	299.0
87.5°	571.2	419.5	392.7	323.5	256.6	252.1	241.0	229.8	203.0	200.8	212.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2
2.5°	11827.8	11700.6	11546.6	11207.5	11093.7	11087.0	11189.6	11082.5	11287.8	11200.8	11296.7
5°	9538.5	9413.6	9241.8	8808.9	8545.6	8367.1	8282.3	8032.4	8213.2	8081.5	8190.9
7.5°	7015.0	7044.0	6930.2	6675.8	6102.4	5814.6	5645.0	5493.3	5624.9	5611.5	5821.3
10°	4931.0	5009.1	4928.8	4672.2	4208.1	4049.7	4080.9	4141.2	4313.0	4402.2	4725.7
12.5°	3549.9	3545.4	3494.1	3264.3	2958.6	2976.5	3103.6	3208.5	3366.9	3460.6	3790.9
15°	2650.7	2610.5	2588.2	2400.8	2226.8	2264.7	2327.2	2338.3	2438.7	2494.5	2762.3
17.5°	2003.6	2023.7	2048.3	1914.4	1782.8	1758.2	1709.1	1648.9	1677.9	1689.0	1822.9
20°	1590.9	1671.2	1731.4	1637.7	1503.9	1432.5	1370.0	1329.8	1329.8	1327.6	1365.5
22.5°	1390.1	1448.1	1512.8	1448.1	1327.6	1265.1	1229.4	1198.2	1193.7	1193.7	1229.4
25°	1280.7	1323.1	1385.6	1341.0	1251.7	1204.9	1171.4	1131.2	1115.6	1111.2	1135.7
27.5°	1227.2	1245.0	1276.3	1236.1	1160.2	1137.9	1129.0	1093.3	1073.2	1062.1	1086.6
30°	1135.7	1131.2	1133.5	1093.3	1033.1	1030.8	1046.4	1053.1	1046.4	1044.2	1082.1
32.5°	1050.9	1042.0	1039.8	1004.1	948.3	934.9	948.3	961.7	977.3	999.6	1044.2
35°	943.8	966.1	979.5	948.3	881.3	841.2	825.6	801.0	787.6	787.6	838.9
37.5°	859.0	910.3	930.4	901.4	827.8	772.0	745.2	740.8	743.0	751.9	801.0
40°	830.0	867.9	885.8	856.8	783.2	731.8	716.2	711.8	716.2	729.6	778.7
42.5°	812.2	838.9	836.7	801.0	740.8	705.1	696.1	691.7	696.1	709.5	763.1
45°	796.5	814.4	796.5	754.2	698.4	680.5	682.8	680.5	685.0	698.4	749.7
47.5°	783.2	789.9	767.5	725.2	667.1	662.7	671.6	678.3	682.8	693.9	747.5
50°	763.1	763.1	743.0	698.4	640.4	642.6	653.8	669.4	671.6	685.0	727.4
52.5°	738.5	736.3	722.9	680.5	618.1	624.7	624.7	642.6	647.1	662.7	707.3
55°	718.5	714.0	707.3	667.1	598.0	609.1	602.4	609.1	620.3	635.9	685.0
57.5°	700.6	691.7	691.7	656.0	582.4	586.8	571.2	580.1	593.5	606.9	658.2
60°	682.8	673.8	678.3	640.4	557.8	553.3	546.7	564.5	569.0	584.6	635.9
62.5°	662.7	656.0	658.2	622.5	540.0	528.8	528.8	544.4	546.7	569.0	618.1
65°	647.1	638.1	635.9	604.7	519.9	506.5	513.2	519.9	524.3	546.7	593.5
67.5°	631.4	613.6	613.6	589.0	497.6	484.2	497.6	495.3	502.0	522.1	560.0
70°	611.4	586.8	589.0	577.9	475.3	459.6	470.8	468.6	473.0	486.4	524.3
72.5°	580.1	560.0	564.5	560.0	452.9	430.6	435.1	435.1	435.1	446.2	486.4
75°	540.0	524.3	537.7	548.9	426.2	394.9	399.4	399.4	392.7	399.4	448.5
77.5°	490.9	481.9	526.6	511.0	394.9	357.0	357.0	352.5	339.1	348.1	401.6
80°	437.3	430.6	486.4	428.4	359.2	310.1	305.7	294.5	281.1	287.8	341.4
82.5°	381.5	374.8	408.3	328.0	310.1	256.6	245.4	225.4	212.0	218.7	267.7
85°	312.4	312.4	314.6	247.7	236.5	196.3	183.0	156.2	140.6	145.0	191.9
87.5°	223.1	229.8	212.0	169.6	140.6	109.3	100.4	84.8	71.4	82.6	100.4
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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CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7050-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2
2.5°	11787.6	12033.0	12311.9	12668.9	12974.6	13476.6	13958.6	14248.6
5°	8813.4	9221.7	9730.4	10384.2	10993.3	11908.1	12816.2	13398.5
7.5°	6307.7	6745.0	7293.9	8110.5	8971.8	10138.7	11339.1	12035.3
10°	5218.9	5667.3	6129.2	6680.3	7385.4	8654.9	10074.0	10859.4
12.5°	4317.4	4797.1	5294.7	5874.8	6528.6	7662.0	9297.5	10201.2
15°	3304.5	3839.9	4426.8	5160.8	5979.7	7289.4	9105.7	10087.4
17.5°	2264.7	2862.7	3583.4	4489.2	5491.1	7168.9	9449.3	10580.5
20°	1559.6	1994.7	2764.5	3826.6	5031.4	7153.3	10109.7	11526.5
22.5°	1305.3	1499.4	2061.7	3217.4	4685.6	7345.2	11133.8	12854.1
25°	1207.1	1323.1	1646.6	2688.6	4433.5	7787.0	12544.0	14572.2
27.5°	1149.1	1254.0	1494.9	2342.8	4234.9	8300.2	13916.2	16236.7
30°	1171.4	1278.5	1452.5	2166.5	3964.9	8728.6	15134.4	17535.3
32.5°	1055.4	1102.2	1245.0	2010.3	3770.8	9087.8	16201.0	18610.7
35°	899.2	981.7	1111.2	1936.7	3775.2	9328.8	17363.4	19985.1
37.5°	856.8	939.3	1033.1	1909.9	3826.6	9585.4	18697.7	21596.1
40°	830.0	905.9	986.2	1894.3	3875.6	9819.7	20005.2	23189.2
42.5°	812.2	881.3	981.7	1840.8	3900.2	10029.4	21080.7	24543.5
45°	809.9	881.3	999.6	1787.2	3938.1	10254.7	21982.1	25545.4
47.5°	812.2	910.3	966.1	1722.5	3938.1	10631.8	23039.7	26440.1
50°	803.2	959.4	930.4	1631.0	3846.6	11345.8	24490.0	27638.3
52.5°	798.8	952.7	861.3	1490.5	3688.2	12479.3	26348.6	29289.4
55°	787.6	919.3	812.2	1280.7	3503.0	13715.4	28338.9	31241.7
57.5°	776.5	814.4	785.4	1097.8	3217.4	14585.6	29708.9	32765.6
60°	870.2	711.8	763.1	1008.5	2835.9	14824.3	29655.3	33372.5
62.5°	805.5	667.1	734.1	988.4	2568.1	14154.9	28285.3	33044.5
65°	631.4	638.1	705.1	1046.4	2496.7	12381.1	25857.7	31529.5
67.5°	577.9	609.1	676.1	1120.1	2503.4	9913.4	22229.8	28229.5
70°	544.4	577.9	642.6	1158.0	2521.3	7389.8	17575.4	22992.8
72.5°	506.5	535.5	604.7	1164.7	2405.3	5368.3	13545.8	16906.0
75°	461.9	488.6	551.1	1015.2	1992.5	3723.9	10361.8	11566.7
77.5°	410.5	430.6	484.2	783.2	1479.3	2383.0	7778.1	8449.7
80°	350.3	361.5	406.1	573.4	1013.0	1490.5	6153.7	6780.7
82.5°	281.1	285.6	314.6	430.6	658.2	957.2	4121.1	4703.4
85°	198.6	198.6	216.4	312.4	448.5	606.9	2237.9	2481.1
87.5°	93.7	95.9	95.9	171.8	234.3	307.9	515.4	316.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)