

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: P192145

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192145  
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-SLR-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT 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

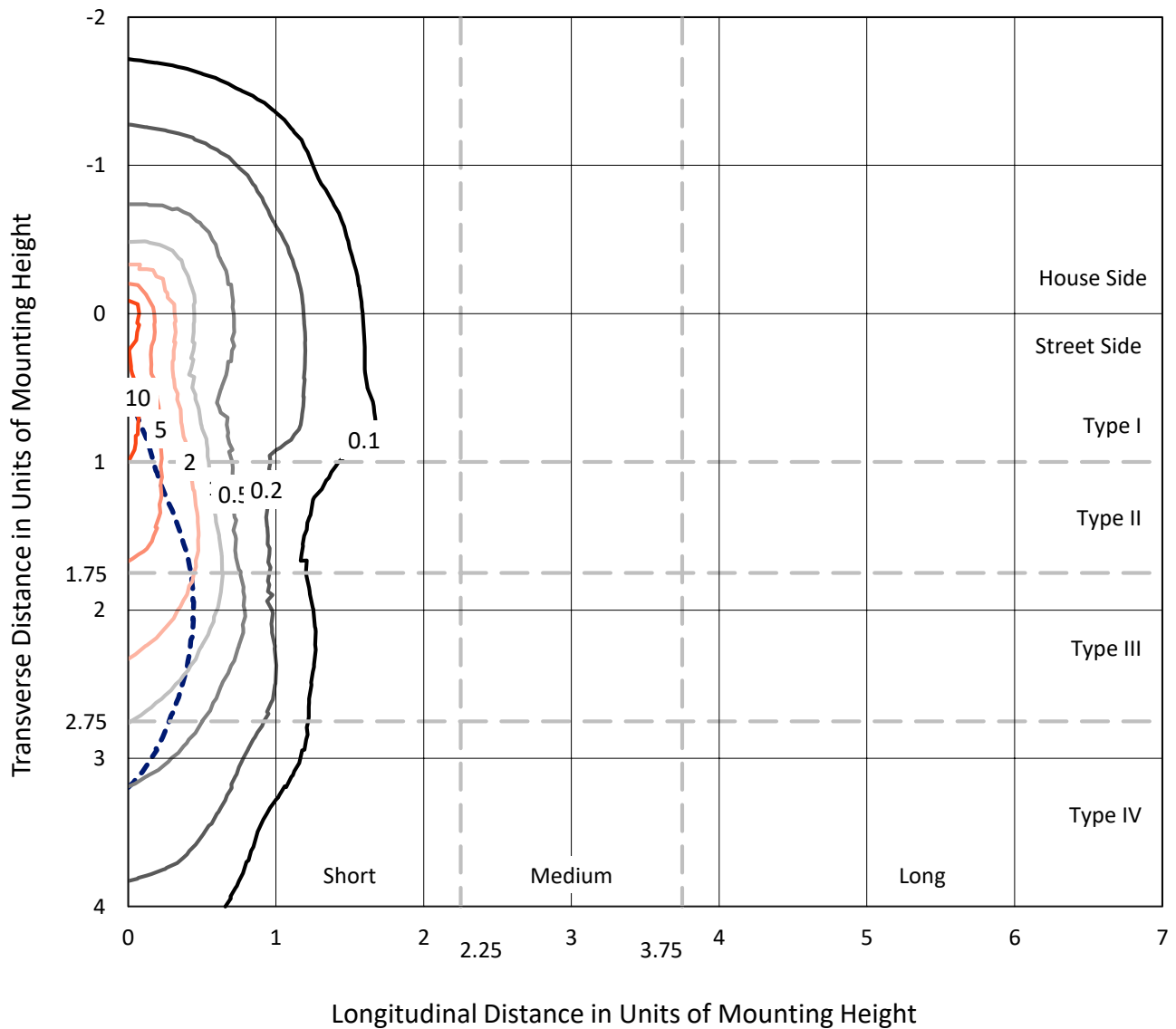


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

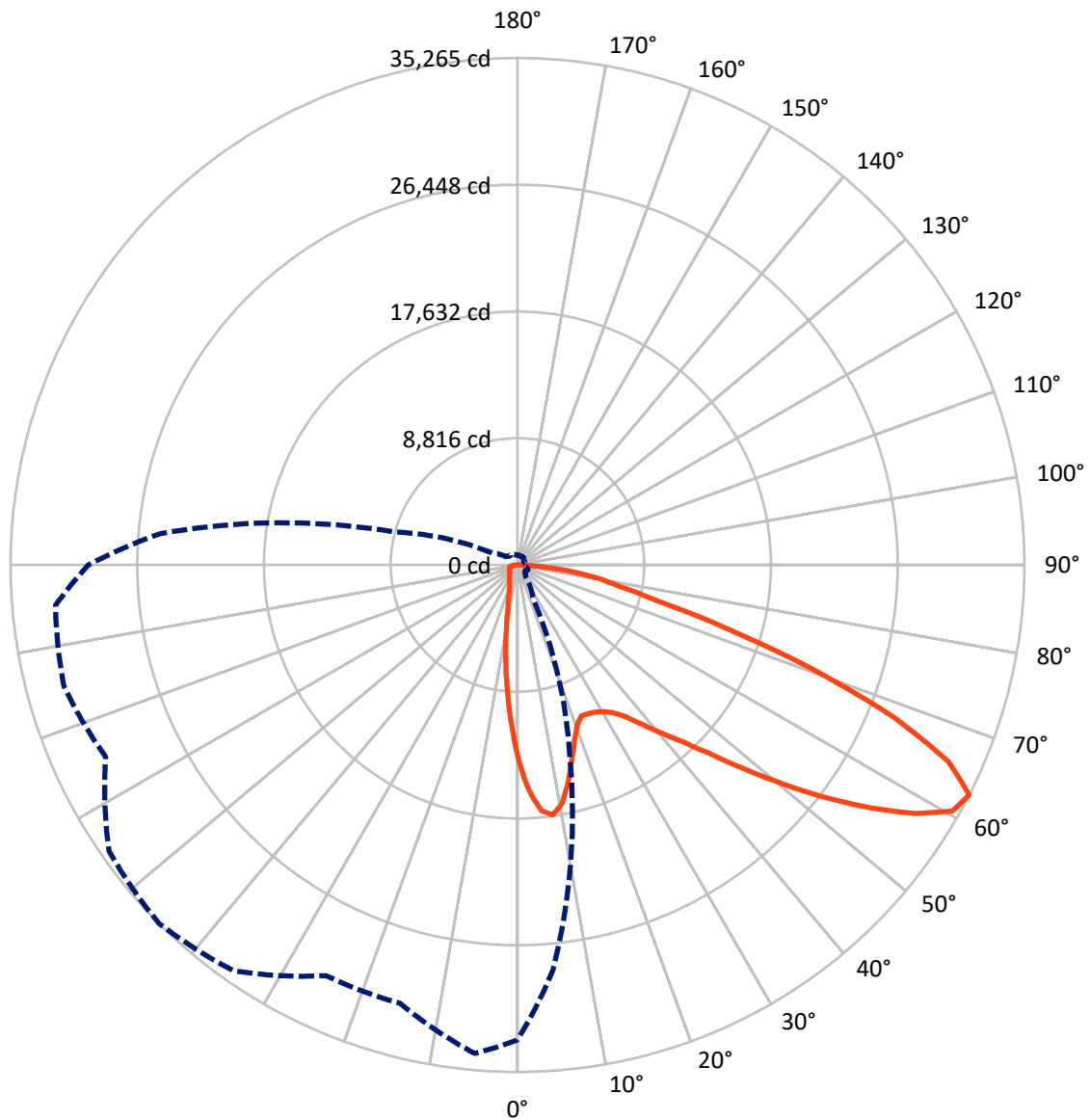


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6716.9	0.0	6716.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	33872.1	0.0	33872.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	40589.0	0.0	40589.0
	% Fixture	100.0	0.0	100.0

**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

**Coefficient of Utilization**



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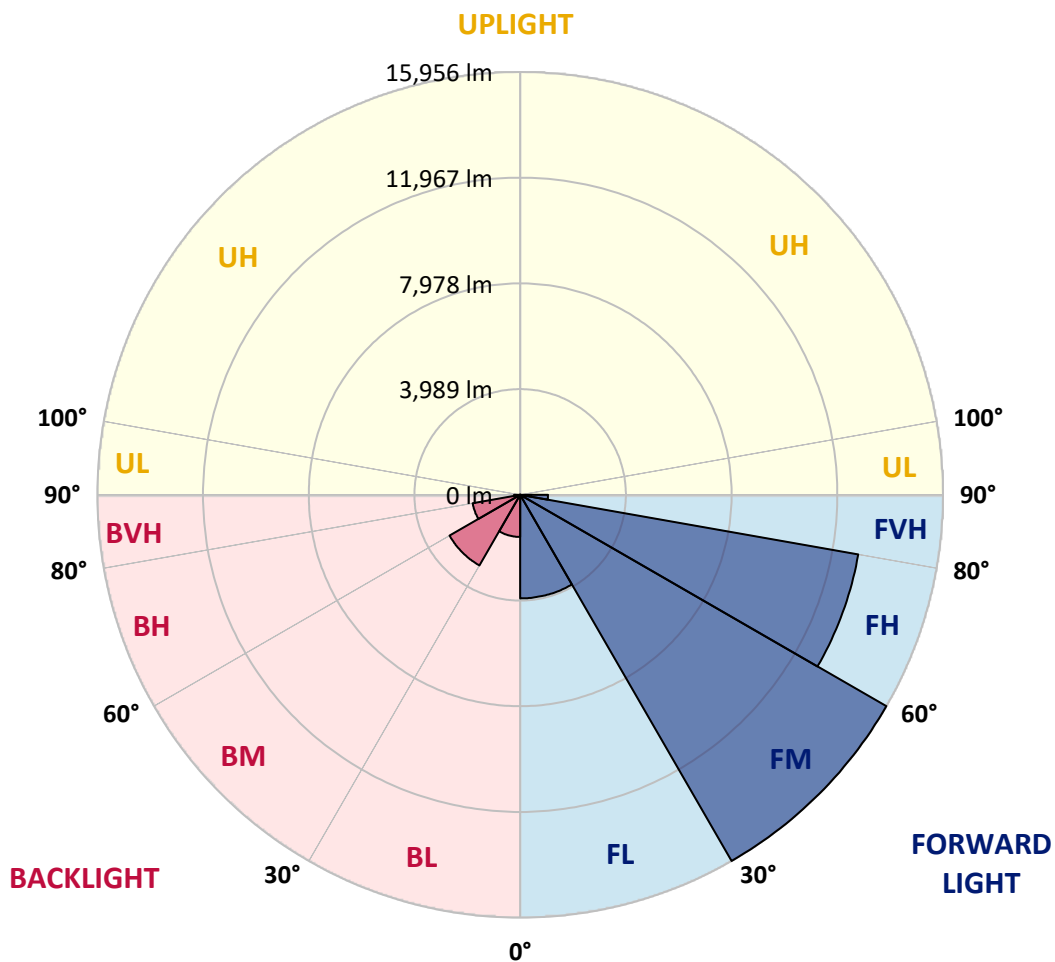
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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	13958.6	13476.6	12974.6	12668.9	12311.9	12033.0	11787.6	11296.7	11200.8	11287.8
5°	13398.5	12816.2	11908.1	10993.3	10384.2	9730.4	9221.7	8813.4	8190.9	8081.5	8213.2
7.5°	12035.3	11339.1	10138.7	8971.8	8110.5	7293.9	6745.0	6307.7	5821.3	5611.5	5624.9
10°	10859.4	10074.0	8654.9	7385.4	6680.3	6129.2	5667.3	5218.9	4725.7	4402.2	4313.0
12.5°	10201.2	9297.5	7662.0	6528.6	5874.8	5294.7	4797.1	4317.4	3790.9	3460.6	3366.9
15°	10087.4	9105.7	7289.4	5979.7	5160.8	4426.8	3839.9	3304.5	2762.3	2494.5	2438.7
17.5°	10580.5	9449.3	7168.9	5491.1	4489.2	3583.4	2862.7	2264.7	1822.9	1689.0	1677.9
20°	11526.5	10109.7	7153.3	5031.4	3826.6	2764.5	1994.7	1559.6	1365.5	1327.6	1329.8
22.5°	12854.1	11133.8	7345.2	4685.6	3217.4	2061.7	1499.4	1305.3	1229.4	1193.7	1193.7
25°	14572.2	12544.0	7787.0	4433.5	2688.6	1646.6	1323.1	1207.1	1135.7	1111.2	1115.6
27.5°	16236.7	13916.2	8300.2	4234.9	2342.8	1494.9	1254.0	1149.1	1086.6	1062.1	1073.2
30°	17535.3	15134.4	8728.6	3964.9	2166.5	1452.5	1278.5	1171.4	1082.1	1044.2	1046.4
32.5°	18610.7	16201.0	9087.8	3770.8	2010.3	1245.0	1102.2	1055.4	1044.2	999.6	977.3
35°	19985.1	17363.4	9328.8	3775.2	1936.7	1111.2	981.7	899.2	838.9	787.6	787.6
37.5°	21596.1	18697.7	9585.4	3826.6	1909.9	1033.1	939.3	856.8	801.0	751.9	743.0
40°	23189.2	20005.2	9819.7	3875.6	1894.3	986.2	905.9	830.0	778.7	729.6	716.2
42.5°	24543.5	21080.7	10029.4	3900.2	1840.8	981.7	881.3	812.2	763.1	709.5	696.1
45°	25545.4	21982.1	10254.7	3938.1	1787.2	999.6	881.3	809.9	749.7	698.4	685.0
47.5°	26440.1	23039.7	10631.8	3938.1	1722.5	966.1	910.3	812.2	747.5	693.9	682.8
50°	27638.3	24490.0	11345.8	3846.6	1631.0	930.4	959.4	803.2	727.4	685.0	671.6
52.5°	29289.4	26348.6	12479.3	3688.2	1490.5	861.3	952.7	798.8	707.3	662.7	647.1
55°	31241.7	28338.9	13715.4	3503.0	1280.7	812.2	919.3	787.6	685.0	635.9	620.3
57.5°	32765.6	29708.9	14585.6	3217.4	1097.8	785.4	814.4	776.5	658.2	606.9	593.5
60°	33372.5	29655.3	14824.3	2835.9	1008.5	763.1	711.8	870.2	635.9	584.6	569.0
62.5°	33044.5	28285.3	14154.9	2568.1	988.4	734.1	667.1	805.5	618.1	569.0	546.7
65°	31529.5	25857.7	12381.1	2496.7	1046.4	705.1	638.1	631.4	593.5	546.7	524.3
67.5°	28229.5	22229.8	9913.4	2503.4	1120.1	676.1	609.1	577.9	560.0	522.1	502.0
70°	22992.8	17575.4	7389.8	2521.3	1158.0	642.6	577.9	544.4	524.3	486.4	473.0
72.5°	16906.0	13545.8	5368.3	2405.3	1164.7	604.7	535.5	506.5	486.4	446.2	435.1
75°	11566.7	10361.8	3723.9	1992.5	1015.2	551.1	488.6	461.9	448.5	399.4	392.7
77.5°	8449.7	7778.1	2383.0	1479.3	783.2	484.2	430.6	410.5	401.6	348.1	339.1
80°	6780.7	6153.7	1490.5	1013.0	573.4	406.1	361.5	350.3	341.4	287.8	281.1
82.5°	4703.4	4121.1	957.2	658.2	430.6	314.6	285.6	281.1	267.7	218.7	212.0
85°	2481.1	2237.9	606.9	448.5	312.4	216.4	198.6	198.6	191.9	145.0	140.6
87.5°	316.8	515.4	307.9	234.3	171.8	95.9	95.9	93.7	100.4	82.6	71.4
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°	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2	13713.2
2.5°	11082.5	11189.6	11087.0	11093.7	11207.5	11546.6	11700.6	11827.8	11963.9	12053.1	12093.3
5°	8032.4	8282.3	8367.1	8545.6	8808.9	9241.8	9413.6	9538.5	9621.1	9670.2	9690.2
7.5°	5493.3	5645.0	5814.6	6102.4	6675.8	6930.2	7044.0	7015.0	6921.3	6887.8	6854.3
10°	4141.2	4080.9	4049.7	4208.1	4672.2	4928.8	5009.1	4931.0	4879.7	4890.9	4946.6
12.5°	3208.5	3103.6	2976.5	2958.6	3264.3	3494.1	3545.4	3549.9	3643.6	3726.2	3848.9
15°	2338.3	2327.2	2264.7	2226.8	2400.8	2588.2	2610.5	2650.7	2735.5	2795.7	2902.8
17.5°	1648.9	1709.1	1758.2	1782.8	1914.4	2048.3	2023.7	2003.6	1988.0	1988.0	2039.3
20°	1329.8	1370.0	1432.5	1503.9	1637.7	1731.4	1671.2	1590.9	1532.9	1515.0	1521.7
22.5°	1198.2	1229.4	1265.1	1327.6	1448.1	1512.8	1448.1	1390.1	1332.0	1312.0	1305.3
25°	1131.2	1171.4	1204.9	1251.7	1341.0	1385.6	1323.1	1280.7	1245.0	1220.5	1202.6
27.5°	1093.3	1129.0	1137.9	1160.2	1236.1	1276.3	1245.0	1227.2	1204.9	1182.6	1160.2
30°	1053.1	1046.4	1030.8	1033.1	1093.3	1133.5	1131.2	1135.7	1133.5	1126.8	1122.3
32.5°	961.7	948.3	934.9	948.3	1004.1	1039.8	1042.0	1050.9	1050.9	1048.7	1066.5
35°	801.0	825.6	841.2	881.3	948.3	979.5	966.1	943.8	903.6	879.1	876.9
37.5°	740.8	745.2	772.0	827.8	901.4	930.4	910.3	859.0	832.2	827.8	834.5
40°	711.8	716.2	731.8	783.2	856.8	885.8	867.9	830.0	805.5	803.2	814.4
42.5°	691.7	696.1	705.1	740.8	801.0	836.7	838.9	812.2	783.2	785.4	796.5
45°	680.5	682.8	680.5	698.4	754.2	796.5	814.4	796.5	772.0	776.5	789.9
47.5°	678.3	671.6	662.7	667.1	725.2	767.5	789.9	783.2	772.0	776.5	787.6
50°	669.4	653.8	642.6	640.4	698.4	743.0	763.1	763.1	767.5	776.5	787.6
52.5°	642.6	624.7	624.7	618.1	680.5	722.9	736.3	738.5	745.2	760.9	776.5
55°	609.1	602.4	609.1	598.0	667.1	707.3	714.0	718.5	722.9	736.3	758.6
57.5°	580.1	571.2	586.8	582.4	656.0	691.7	691.7	700.6	700.6	718.5	736.3
60°	564.5	546.7	553.3	557.8	640.4	678.3	673.8	682.8	687.2	702.8	716.2
62.5°	544.4	528.8	528.8	540.0	622.5	658.2	656.0	662.7	680.5	685.0	698.4
65°	519.9	513.2	506.5	519.9	604.7	635.9	638.1	647.1	662.7	667.1	678.3
67.5°	495.3	497.6	484.2	497.6	589.0	613.6	613.6	631.4	638.1	647.1	658.2
70°	468.6	470.8	459.6	475.3	577.9	589.0	586.8	611.4	615.8	622.5	633.7
72.5°	435.1	435.1	430.6	452.9	560.0	564.5	560.0	580.1	582.4	589.0	593.5
75°	399.4	399.4	394.9	426.2	548.9	537.7	524.3	540.0	544.4	548.9	548.9
77.5°	352.5	357.0	357.0	394.9	511.0	526.6	481.9	490.9	497.6	499.8	493.1
80°	294.5	305.7	310.1	359.2	428.4	486.4	430.6	437.3	439.6	439.6	430.6
82.5°	225.4	245.4	256.6	310.1	328.0	408.3	374.8	381.5	374.8	361.5	357.0
85°	156.2	183.0	196.3	236.5	247.7	314.6	312.4	312.4	299.0	281.1	278.9
87.5°	84.8	100.4	109.3	140.6	169.6	212.0	229.8	223.1	212.0	200.8	203.0
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°	12303.0	12606.5	13090.6	13461.0	13833.6	14192.9	14581.1	14877.9	15130.0	15228.2	15527.1
5°	9893.3	10272.6	10730.0	11555.5	12140.1	12785.0	13530.2	14516.4	14895.7	15420.0	16279.1
7.5°	6994.9	7338.5	8074.8	8742.0	9569.8	10482.3	11488.6	12849.7	13347.2	14188.4	15587.4
10°	5223.3	5622.7	6214.0	6776.3	7505.9	8438.5	9594.3	11116.0	11720.7	12633.2	14244.2
12.5°	4208.1	4678.9	5305.9	5834.7	6399.2	7057.4	8179.7	9848.7	10658.6	11457.4	13086.2
15°	3233.1	3726.2	4308.5	4980.1	5602.6	6312.2	7488.0	9313.2	10245.8	11078.1	12468.1
17.5°	2237.9	2659.6	3393.7	4094.3	4890.9	5799.0	7296.1	9427.0	10540.3	11499.8	12575.2
20°	1586.4	1827.4	2429.8	3242.0	4234.9	5375.0	7260.4	10024.9	11473.0	12568.5	13262.4
22.5°	1334.3	1423.5	1773.8	2519.1	3665.9	5058.2	7385.4	10863.9	12731.4	14130.4	14358.0
25°	1216.0	1269.6	1452.5	1976.9	3159.4	4828.4	7807.1	12113.4	14288.8	15692.3	15652.1
27.5°	1151.3	1207.1	1327.6	1669.0	2777.9	4685.6	8228.8	13594.9	16069.3	17388.0	16888.2
30°	1131.2	1207.1	1334.3	1573.0	2505.7	4460.2	8574.6	14895.7	17439.3	18532.6	17450.5
32.5°	1115.6	1126.8	1184.8	1356.6	2246.9	4196.9	8808.9	16062.6	18780.3	19621.5	18260.4
35°	901.4	957.2	1050.9	1216.0	2095.1	4038.5	8808.9	17068.9	20101.2	20721.4	19032.4
37.5°	867.9	917.0	999.6	1140.2	2010.3	3960.4	8632.6	18039.5	21451.1	21968.7	19668.3
40°	850.1	890.3	968.4	1082.1	1974.6	3871.2	8376.0	18896.3	22769.7	23218.2	20261.8
42.5°	836.7	872.4	946.0	1046.4	1927.8	3773.0	8168.5	19583.5	23914.3	24284.7	20828.5
45°	830.0	867.9	948.3	1064.3	1834.1	3643.6	8099.4	20326.5	24855.9	25175.0	21442.1
47.5°	830.0	874.6	959.4	1102.2	1722.5	3509.7	8315.8	21306.0	25746.2	25902.4	22165.1
50°	823.3	872.4	990.7	1064.3	1559.6	3340.2	8824.5	22539.9	26710.1	26727.9	23079.9
52.5°	809.9	867.9	1066.5	1042.0	1372.2	3117.0	9511.7	24124.1	28135.8	28242.9	24512.3
55°	794.3	861.3	1046.4	990.7	1218.3	2851.5	10074.0	26049.6	30139.5	30436.2	26618.6
57.5°	774.2	852.3	1013.0	919.3	1117.8	2510.1	10277.1	27459.8	31538.5	32283.7	28992.6
60°	756.4	845.6	914.8	876.9	1055.4	2222.3	9884.4	27180.9	31442.5	33049.0	31096.7
62.5°	738.5	852.3	834.5	850.1	1026.4	2037.1	8858.0	24947.4	29851.7	32259.1	32656.3
65°	718.5	792.1	787.6	827.8	1019.7	1963.5	7343.0	21598.3	26777.0	29762.4	33024.5
67.5°	691.7	731.8	754.2	798.8	1042.0	1898.8	5926.2	17816.4	22504.2	26020.6	31105.6
70°	662.7	696.1	720.7	763.1	1028.6	1869.8	4928.8	14050.1	17856.5	21326.1	27319.2
72.5°	624.7	653.8	676.1	716.2	1015.2	1854.2	4163.5	11314.6	13331.6	15841.7	22211.9
75°	580.1	606.9	622.5	662.7	972.8	1698.0	3273.2	9574.2	9975.8	11020.1	17691.4
77.5°	528.8	548.9	562.3	606.9	861.3	1412.4	2367.3	7385.4	7746.8	8001.2	13563.7
80°	468.6	488.6	495.3	537.7	714.0	1104.5	1544.0	5455.4	5794.5	5852.5	8858.0
82.5°	399.4	419.5	419.5	459.6	584.6	794.3	1013.0	3737.3	3804.3	4000.6	6260.8
85°	321.3	336.9	336.9	357.0	452.9	593.5	696.1	1876.5	1856.4	2119.7	5424.1
87.5°	229.8	241.0	252.1	256.6	323.5	392.7	419.5	571.2	377.1	432.9	3483.0
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: P192145

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-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°	15752.5	15879.7	15750.3	15656.6	15252.7	14920.2	14476.2	14248.6
5°	16932.8	17256.3	17147.0	16754.3	15910.9	14962.6	13885.0	13398.5
7.5°	16790.0	17541.9	17559.8	16825.7	15582.9	14186.2	12726.9	12035.3
10°	15678.9	16640.5	16915.0	16203.2	14884.5	13322.7	11649.3	10859.4
12.5°	14438.3	15379.9	15589.6	15344.2	14242.0	12673.4	10975.4	10201.2
15°	13423.1	13844.8	14094.7	14308.9	13690.8	12414.6	10937.5	10087.4
17.5°	12805.0	12758.2	12829.6	13202.2	13307.1	12711.3	11517.6	10580.5
20°	12581.9	11865.7	11847.8	12361.0	13126.3	13418.6	12651.1	11526.5
22.5°	12704.6	11544.4	11397.1	12006.3	13222.3	14438.3	14137.1	12854.1
25°	13128.6	11571.2	11452.9	12042.0	13570.4	15524.9	15741.3	14572.2
27.5°	13795.7	11740.7	11584.6	12189.2	14032.2	16437.5	17321.1	16236.7
30°	14429.4	12035.3	11841.1	12479.3	14453.9	16798.9	18289.4	17535.3
32.5°	15199.2	12586.4	12245.0	13012.5	14976.0	17374.6	19152.9	18610.7
35°	15953.3	13371.8	12947.8	13835.9	15558.4	18090.8	20139.1	19985.1
37.5°	16781.1	14398.1	14047.8	14900.2	16354.9	18766.9	21397.5	21596.1
40°	17664.7	15759.2	15344.2	16453.1	17591.0	19614.8	22711.7	23189.2
42.5°	18554.9	17269.7	16774.4	17898.9	18949.9	20451.5	23836.2	24543.5
45°	19574.6	18909.7	18675.4	19891.4	20255.1	21248.0	24666.3	25545.4
47.5°	20761.6	20770.5	21147.6	21634.0	21571.5	22149.4	25500.7	26440.1
50°	22147.2	23093.2	23925.5	24249.0	22928.1	23117.8	26658.8	27638.3
52.5°	23811.7	25871.1	26902.0	26690.0	24389.6	24300.3	28492.8	29289.4
55°	25893.4	28811.9	29836.0	29684.3	26069.7	25911.3	30777.6	31241.7
57.5°	28303.2	31661.2	32602.8	31920.0	28086.7	27678.4	32667.5	32765.6
60°	30420.6	33919.2	34744.7	33988.4	30121.6	29559.4	33847.8	33372.5
62.5°	31598.7	34684.5	35264.6	34450.2	31516.1	31563.0	34106.6	33044.5
65°	31072.1	32750.0	32937.4	32870.5	31156.9	32725.5	33176.2	31529.5
67.5°	28189.4	27859.2	28173.8	28608.9	28077.8	31194.9	30599.1	28229.5
70°	23111.1	21297.1	21924.1	22216.4	22457.3	26843.9	26558.4	22992.8
72.5°	17417.0	14920.2	15415.6	15355.3	16471.0	21531.4	20654.5	16906.0
75°	12340.9	10116.4	10178.9	10154.3	11493.1	16845.8	14955.9	11566.7
77.5°	8634.9	7329.6	7363.1	7501.4	7726.8	12704.6	10685.4	8449.7
80°	5937.3	5562.5	5747.7	5758.8	5355.0	8534.5	7894.1	6780.7
82.5°	4422.3	3866.7	3822.1	3886.8	4196.9	6914.6	6066.7	4703.4
85°	3621.3	2289.2	1840.8	2307.1	3719.5	6847.7	4029.6	2481.1
87.5°	2039.3	1086.6	490.9	910.3	1483.8	4533.9	1164.7	316.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)