

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: P193838

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193838
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-10-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 42250 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

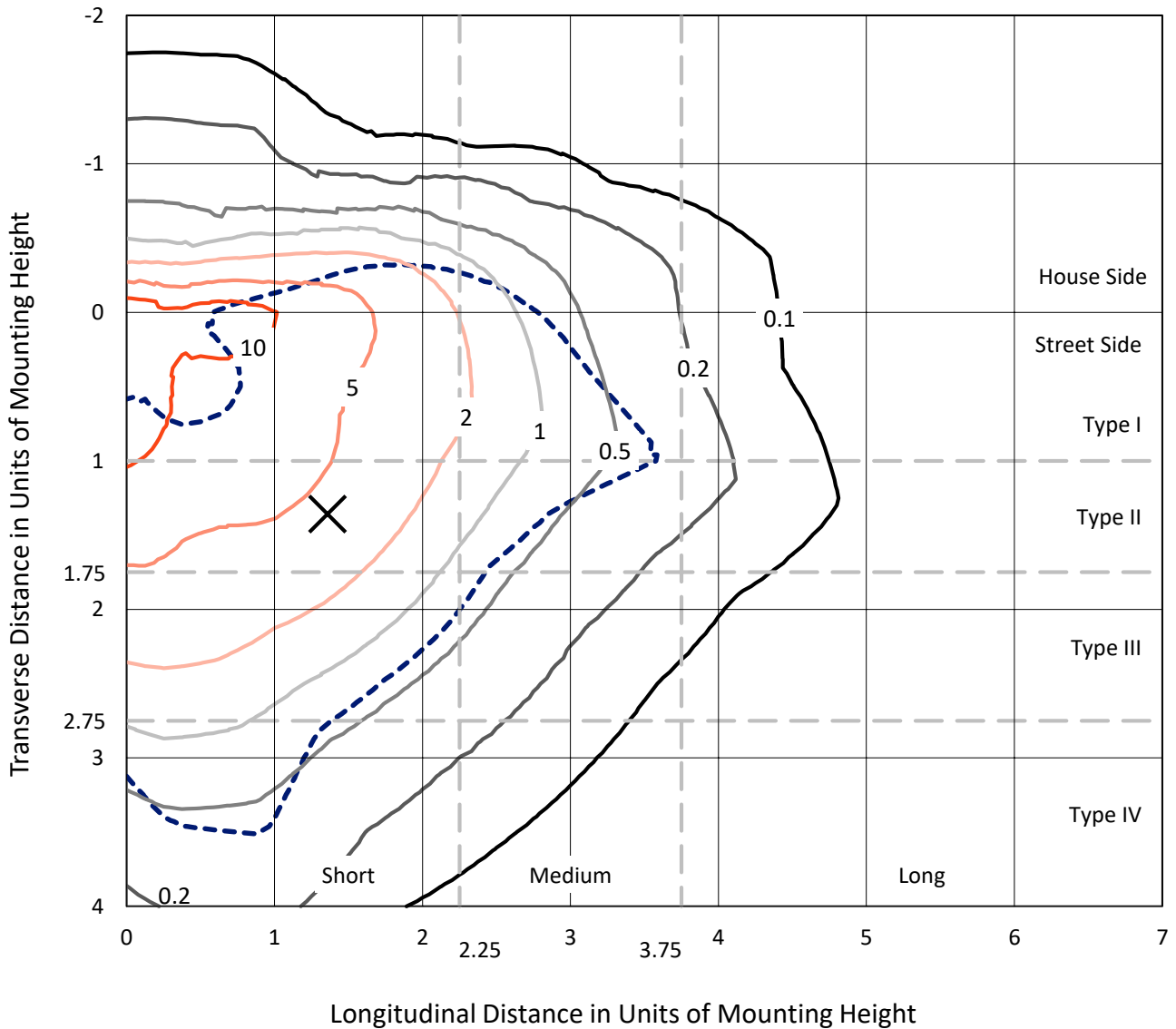
Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

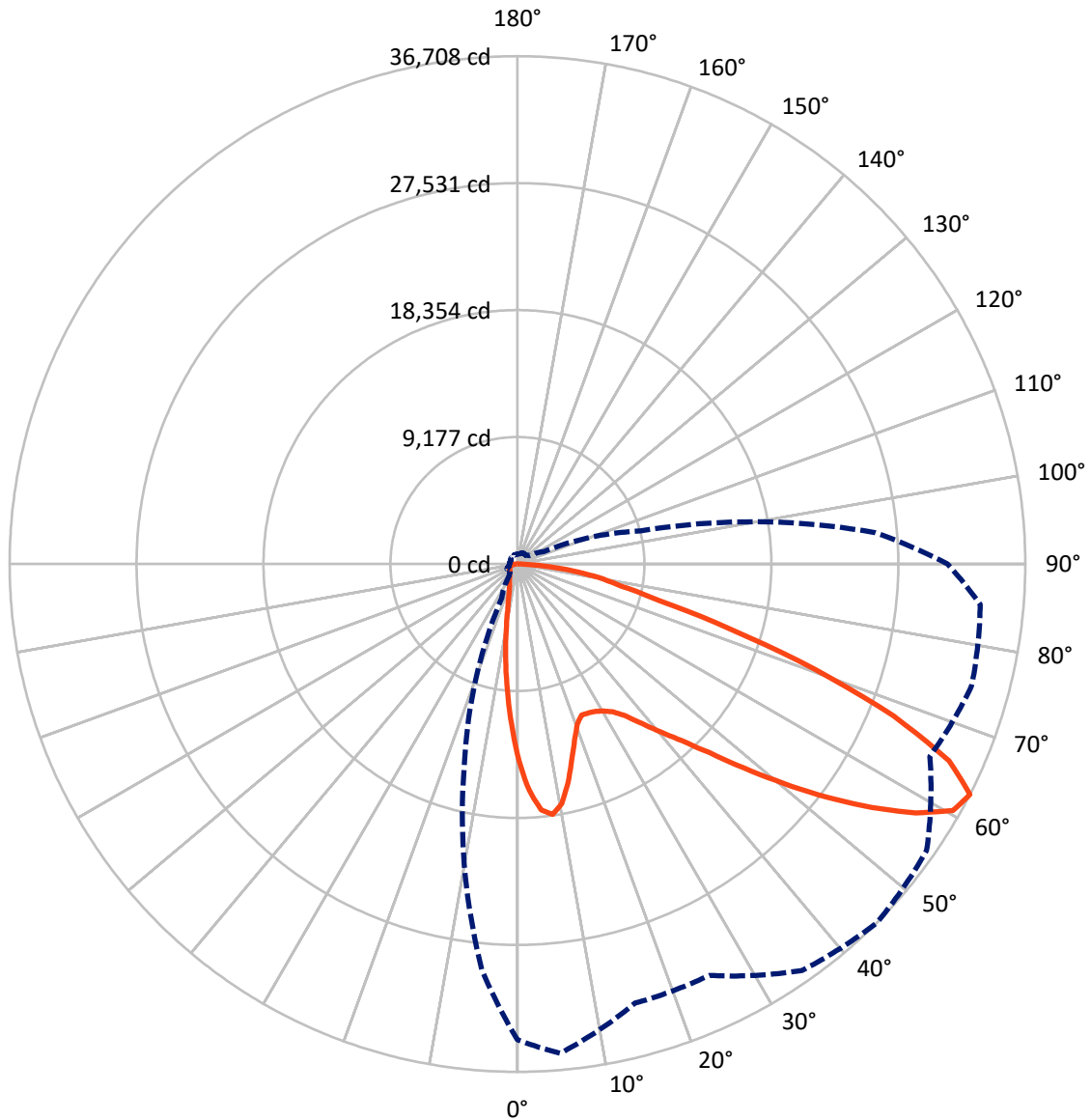
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.7 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	6991.8	0.0	6991.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	35258.2	0.0	35258.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	42250.0	0.0	42250.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.1	2.5
10°-20°	1905.4	4.5
20°-30°	2778.1	6.6
30°-40°	4278.7	10.1
40°-50°	6297.2	14.9
50°-60°	9236.6	21.9
60°-70°	10325.2	24.4
70°-80°	5055.1	12.0
80°-90°	1334.7	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°	42250.0	100.0
0°-180°	42250.0	100.0



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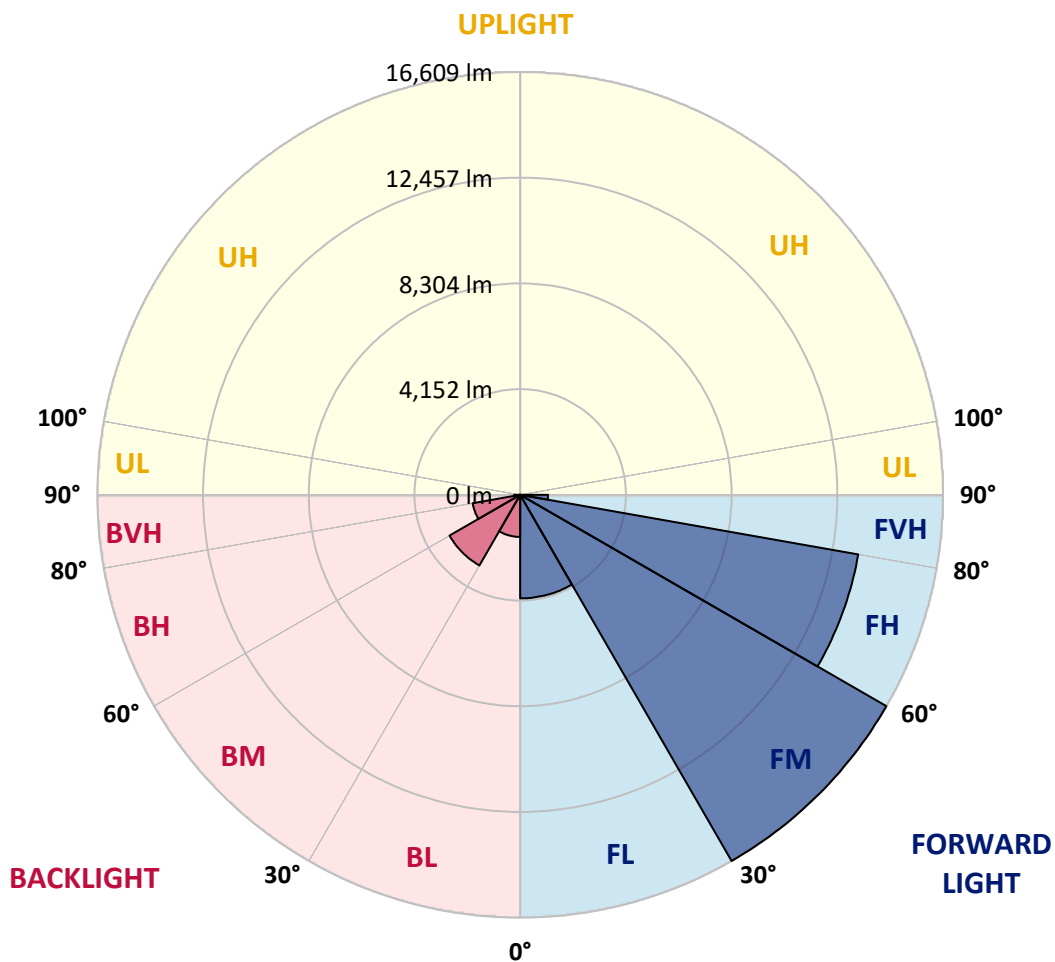
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4068.5	9.6			
FM	(30°-60°)	16608.9	39.3			
FH	(60°-80°)	13484.7	31.9			G5
FVH	(80°-90°)	1096.1	2.6			G5
BL	(0°-30°)	1654.1	3.9	B3/2500		
BM	(30°-60°)	3203.6	7.6	B3/5000		
BH	(60°-80°)	1895.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	238.6	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°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	14831.7	15068.6	15530.8	15876.9	16297.3	16394.8	16529.5	16397.1	16162.6	15851.3	15749.1
5°	13946.8	14453.2	15574.9	16562.0	17439.9	17848.7	17962.5	17625.7	16945.2	16051.1	15505.3
7.5°	12527.8	13247.8	14766.7	16220.6	17514.3	18278.4	18259.8	17477.1	16225.3	14769.0	13893.4
10°	11303.8	12126.0	13867.9	15493.7	16866.3	17607.2	17321.5	16320.5	14827.1	13150.2	12200.3
12.5°	10618.6	11424.6	13192.0	14824.8	15972.1	16227.6	16009.3	15029.2	13621.7	11926.2	11094.8
15°	10500.2	11385.1	12922.6	14251.1	14894.4	14671.5	14411.4	13972.4	12978.3	11531.4	10665.1
17.5°	11013.5	11988.9	13231.5	13851.6	13742.5	13354.6	13280.3	13329.1	13089.8	11970.4	10971.7
20°	11998.2	13168.8	13967.8	13663.5	12866.9	12332.7	12351.3	13096.8	13805.2	13082.9	11942.5
22.5°	13380.1	14715.6	15029.2	13763.4	12497.6	11863.5	12016.8	13224.5	14945.5	14708.6	13252.4
25°	15168.5	16385.5	16160.2	14125.7	12534.7	11921.6	12044.7	13665.8	16292.6	16334.4	14873.5
27.5°	16901.1	18029.9	17110.1	14606.4	12688.0	12058.6	12221.2	14360.3	17579.3	18099.5	16726.9
30°	18252.8	19037.9	17486.4	15045.4	12990.0	12325.7	12527.8	15019.9	18164.6	19291.0	18153.0
32.5°	19372.3	19936.7	18085.6	15588.9	13545.0	12746.1	13101.4	15821.1	19007.7	20424.4	19548.8
35°	20803.0	20963.2	18831.1	16195.1	14402.1	13477.7	13919.0	16606.2	19811.3	21569.4	20923.8
37.5°	22479.9	22273.2	19534.9	17024.2	15509.9	14622.7	14987.3	17467.8	20473.2	22867.7	22328.9
40°	24138.1	23641.1	20417.4	18310.9	17126.4	15972.1	16404.1	18387.5	21091.0	24168.3	23701.5
42.5°	25547.9	24811.7	21288.4	19725.3	18631.4	17460.8	17976.5	19314.2	21680.9	25278.5	24893.0
45°	26590.8	25675.7	22117.5	21084.0	20705.4	19439.7	19683.5	20375.6	22319.6	26205.2	25873.1
47.5°	27522.1	26544.3	23055.8	22454.3	22519.3	22013.0	21620.5	21611.2	23072.1	26962.4	26799.8
50°	28769.3	27749.7	24063.8	23866.4	25241.4	24904.6	24038.3	23053.5	24024.3	27821.7	27803.1
52.5°	30488.0	29658.8	25294.8	25387.7	27782.2	28002.9	26929.8	24786.1	25515.4	29398.7	29287.2
55°	32520.2	32037.1	26971.6	27136.5	30899.1	31057.0	29990.9	26953.1	27707.9	31681.8	31372.9
57.5°	34106.5	34004.3	28811.1	29236.1	33226.2	33936.9	32956.8	29461.4	30179.1	33604.8	32829.1
60°	34738.2	35232.9	30769.0	31354.3	35379.2	36166.6	35307.2	31665.5	32369.2	34401.5	32729.2
62.5°	34396.8	35502.3	32854.6	32805.9	35860.0	36707.7	36103.9	32891.8	33992.7	33579.3	31073.3
65°	32819.8	34533.8	34064.7	32431.9	34215.6	34285.3	34090.2	32343.7	34375.9	30980.4	27872.8
67.5°	29384.8	31851.3	32471.4	29226.8	29779.6	29326.7	28999.2	29343.0	32378.5	27085.5	23425.1
70°	23933.8	27645.2	27942.5	23376.4	23125.5	22821.3	22168.6	24056.9	28437.2	22198.8	18587.3
72.5°	17597.9	21499.7	22412.5	17145.0	15983.7	16046.4	15530.8	18129.7	23120.9	16490.0	13877.2
75°	12040.0	15568.0	17535.2	11963.4	10569.9	10595.4	10530.4	12846.0	18415.4	11471.0	10384.1
77.5°	8795.5	11122.6	13224.5	8043.0	7808.4	7664.4	7629.5	8988.2	14118.7	8328.6	8063.9
80°	7058.2	8217.1	8883.7	5574.1	5994.5	5982.9	5790.1	6180.3	9220.5	6092.0	6031.6
82.5°	4895.9	6315.0	7197.5	4368.7	4045.9	3978.5	4025.0	4603.3	6517.0	4164.3	3959.9
85°	2582.7	4194.5	7127.9	3871.7	2401.5	1916.1	2382.9	3769.5	5646.1	2206.4	1932.4
87.5°	329.8	1212.4	4719.4	1544.5	947.6	511.0	1131.1	2122.8	3625.5	450.6	392.5
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°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	15486.7	15177.8	14773.7	14399.7	14011.9	13626.3	13122.3	12806.5	12588.2	12546.4	12453.5
5°	15110.4	14083.9	13308.1	12636.9	12028.4	11169.1	10693.0	10298.1	10086.8	10065.9	10014.8
7.5°	13375.5	11958.8	10911.3	9961.4	9099.7	8405.3	7638.8	7281.2	7134.8	7169.7	7204.5
10°	11570.9	9986.9	8783.8	7813.0	7053.6	6468.3	5852.8	5437.1	5149.1	5091.0	5079.4
12.5°	10251.7	8514.4	7346.2	6661.0	6073.4	5523.0	4870.4	4380.3	4006.4	3878.6	3792.7
15°	9694.3	7794.4	6570.5	5831.9	5183.9	4484.8	3878.6	3365.4	3021.6	2910.1	2847.4
17.5°	9812.7	7594.7	6036.3	5091.0	4261.9	3532.6	2768.5	2329.5	2122.8	2069.4	2069.4
20°	10435.2	7557.5	5595.0	4408.2	3374.6	2529.2	1902.2	1651.3	1584.0	1577.0	1595.6
22.5°	11308.4	7687.6	5265.2	3815.9	2622.1	1846.4	1481.8	1388.9	1358.7	1365.7	1386.6
25°	12609.1	8126.6	5026.0	3288.7	2057.8	1512.0	1321.5	1265.8	1251.8	1270.4	1296.0
27.5°	14151.2	8565.5	4877.3	2891.6	1737.3	1381.9	1256.5	1198.4	1207.7	1230.9	1254.2
30°	15505.3	8925.5	4642.8	2608.2	1637.4	1388.9	1256.5	1177.5	1168.2	1172.9	1179.8
32.5°	16720.0	9169.4	4368.7	2338.8	1412.1	1233.3	1172.9	1161.3	1110.2	1091.6	1093.9
35°	17767.4	9169.4	4203.8	2180.9	1265.8	1093.9	996.4	938.3	912.8	915.1	940.6
37.5°	18777.7	8985.9	4122.5	2092.6	1186.8	1040.5	954.6	903.5	868.6	861.7	866.3
40°	19669.6	8718.8	4029.6	2055.4	1126.4	1008.0	926.7	884.9	847.7	836.1	838.4
42.5°	20384.9	8502.8	3927.4	2006.7	1089.3	984.8	908.1	871.0	829.1	817.5	815.2
45°	21158.3	8430.8	3792.7	1909.1	1107.9	987.1	903.5	864.0	822.2	808.2	803.6
47.5°	22177.9	8656.1	3653.4	1793.0	1147.3	998.7	910.4	864.0	819.9	808.2	803.6
50°	23462.3	9185.6	3476.8	1623.5	1107.9	1031.2	908.1	857.0	819.9	808.2	799.0
52.5°	25111.3	9901.0	3244.6	1428.4	1084.6	1110.2	903.5	843.1	808.2	792.0	775.7
55°	27115.6	10486.3	2968.2	1268.1	1031.2	1089.3	896.5	826.8	789.7	766.4	752.5
57.5°	28583.5	10697.6	2612.9	1163.6	956.9	1054.4	887.2	805.9	766.4	747.9	729.3
60°	28293.2	10288.8	2313.2	1098.6	912.8	952.2	880.2	787.3	745.5	731.6	715.3
62.5°	25968.3	9220.5	2120.5	1068.4	884.9	868.6	887.2	768.8	727.0	713.0	708.4
65°	22482.2	7643.5	2043.8	1061.4	861.7	819.9	824.5	747.9	706.1	694.4	689.8
67.5°	18545.5	6168.7	1976.5	1084.6	831.5	785.0	761.8	720.0	685.1	673.5	664.2
70°	14625.0	5130.5	1946.3	1070.7	794.3	750.2	724.6	689.8	659.6	648.0	641.0
72.5°	11777.6	4333.9	1930.0	1056.8	745.5	703.7	680.5	650.3	617.8	613.2	606.2
75°	9966.0	3407.2	1767.5	1012.6	689.8	648.0	631.7	603.9	571.3	571.3	566.7
77.5°	7687.6	2464.2	1470.2	896.5	631.7	585.3	571.3	550.4	513.3	520.2	517.9
80°	5678.6	1607.2	1149.7	743.2	559.7	515.6	508.6	487.7	448.3	457.5	457.5
82.5°	3890.3	1054.4	826.8	608.5	478.4	436.6	436.6	415.7	371.6	376.3	390.2
85°	1953.3	724.6	617.8	471.5	371.6	350.7	350.7	334.4	290.3	292.6	311.2
87.5°	594.6	436.6	408.8	336.8	267.1	262.4	250.8	239.2	211.4	209.0	220.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	12311.8	12179.4	12019.1	11666.1	11547.7	11540.7	11647.5	11536.1	11749.7	11659.1	11759.0
5°	9928.9	9798.8	9620.0	9169.4	8895.3	8709.5	8621.3	8361.1	8549.3	8412.2	8526.0
7.5°	7302.1	7332.3	7213.8	6949.0	6352.1	6052.5	5876.0	5718.1	5855.1	5841.2	6059.5
10°	5132.8	5214.1	5130.5	4863.4	4380.3	4215.4	4247.9	4310.6	4489.5	4582.4	4919.1
12.5°	3695.2	3690.5	3637.1	3397.9	3079.7	3098.3	3230.7	3339.8	3504.7	3602.3	3946.0
15°	2759.2	2717.4	2694.1	2499.1	2317.9	2357.4	2422.4	2434.0	2538.5	2596.6	2875.3
17.5°	2085.6	2106.5	2132.1	1992.7	1855.7	1830.2	1779.1	1716.4	1746.5	1758.2	1897.5
20°	1656.0	1739.6	1802.3	1704.7	1565.4	1491.1	1426.0	1384.2	1384.2	1381.9	1421.4
22.5°	1446.9	1507.3	1574.7	1507.3	1381.9	1316.9	1279.7	1247.2	1242.6	1242.6	1279.7
25°	1333.1	1377.3	1442.3	1395.8	1302.9	1254.2	1219.3	1177.5	1161.3	1156.6	1182.2
27.5°	1277.4	1296.0	1328.5	1286.7	1207.7	1184.5	1175.2	1138.0	1117.1	1105.5	1131.1
30°	1182.2	1177.5	1179.8	1138.0	1075.3	1073.0	1089.3	1096.2	1089.3	1086.9	1126.4
32.5°	1093.9	1084.6	1082.3	1045.1	987.1	973.1	987.1	1001.0	1017.3	1040.5	1086.9
35°	982.4	1005.7	1019.6	987.1	917.4	875.6	859.3	833.8	819.9	819.9	873.3
37.5°	894.2	947.6	968.5	938.3	861.7	803.6	775.7	771.1	773.4	782.7	833.8
40°	864.0	903.5	922.0	891.9	815.2	761.8	745.5	740.9	745.5	759.5	810.6
42.5°	845.4	873.3	871.0	833.8	771.1	733.9	724.6	720.0	724.6	738.6	794.3
45°	829.1	847.7	829.1	785.0	727.0	708.4	710.7	708.4	713.0	727.0	780.4
47.5°	815.2	822.2	799.0	754.8	694.4	689.8	699.1	706.1	710.7	722.3	778.1
50°	794.3	794.3	773.4	727.0	666.6	668.9	680.5	696.8	699.1	713.0	757.1
52.5°	768.8	766.4	752.5	708.4	643.3	650.3	650.3	668.9	673.5	689.8	736.2
55°	747.9	743.2	736.2	694.4	622.4	634.1	627.1	634.1	645.7	661.9	713.0
57.5°	729.3	720.0	720.0	682.8	606.2	610.8	594.6	603.9	617.8	631.7	685.1
60°	710.7	701.4	706.1	666.6	580.6	576.0	569.0	587.6	592.2	608.5	661.9
62.5°	689.8	682.8	685.1	648.0	562.1	550.4	550.4	566.7	569.0	592.2	643.3
65°	673.5	664.2	661.9	629.4	541.2	527.2	534.2	541.2	545.8	569.0	617.8
67.5°	657.3	638.7	638.7	613.2	517.9	504.0	517.9	515.6	522.6	543.5	583.0
70°	636.4	610.8	613.2	601.5	494.7	478.4	490.1	487.7	492.4	506.3	545.8
72.5°	603.9	583.0	587.6	583.0	471.5	448.3	452.9	452.9	452.9	464.5	506.3
75°	562.1	545.8	559.7	571.3	443.6	411.1	415.7	415.7	408.8	415.7	466.8
77.5°	511.0	501.7	548.1	531.9	411.1	371.6	371.6	367.0	353.0	362.3	418.1
80°	455.2	448.3	506.3	445.9	373.9	322.8	318.2	306.6	292.6	299.6	355.3
82.5°	397.2	390.2	425.0	341.4	322.8	267.1	255.5	234.6	220.6	227.6	278.7
85°	325.2	325.2	327.5	257.8	246.2	204.4	190.4	162.6	146.3	151.0	199.7
87.5°	232.3	239.2	220.6	176.5	146.3	113.8	104.5	88.3	74.3	85.9	104.5
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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CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	12270.0	12525.5	12815.8	13187.4	13505.6	14028.1	14529.8	14831.7
5°	9174.0	9599.1	10128.6	10809.1	11443.2	12395.4	13340.7	13946.8
7.5°	6565.8	7021.0	7592.4	8442.4	9338.9	10553.6	11803.1	12527.8
10°	5432.4	5899.2	6380.0	6953.7	7687.6	9009.1	10486.3	11303.8
12.5°	4494.1	4993.5	5511.4	6115.2	6795.7	7975.6	9678.0	10618.6
15°	3439.7	3997.1	4607.9	5372.0	6224.4	7587.7	9478.3	10500.2
17.5°	2357.4	2979.8	3730.0	4672.9	5715.8	7462.3	9836.0	11013.5
20°	1623.5	2076.4	2877.6	3983.2	5237.3	7446.1	10523.4	11998.2
22.5°	1358.7	1560.7	2146.0	3349.1	4877.3	7645.8	11589.5	13380.1
25°	1256.5	1377.3	1714.0	2798.7	4614.9	8105.7	13057.3	15168.5
27.5°	1196.1	1305.3	1556.1	2438.7	4408.2	8639.8	14485.7	16901.1
30°	1219.3	1330.8	1512.0	2255.2	4127.2	9085.8	15753.8	18252.8
32.5°	1098.6	1147.3	1296.0	2092.6	3925.1	9459.7	16864.0	19372.3
35°	936.0	1021.9	1156.6	2016.0	3929.7	9710.5	18074.0	20803.0
37.5°	891.9	977.8	1075.3	1988.1	3983.2	9977.6	19462.9	22479.9
40°	864.0	943.0	1026.6	1971.8	4034.3	10221.5	20823.9	24138.1
42.5°	845.4	917.4	1021.9	1916.1	4059.8	10439.8	21943.4	25547.9
45°	843.1	917.4	1040.5	1860.4	4099.3	10674.4	22881.7	26590.8
47.5°	845.4	947.6	1005.7	1793.0	4099.3	11066.9	23982.5	27522.1
50°	836.1	998.7	968.5	1697.8	4004.1	11810.1	25492.2	28769.3
52.5°	831.5	991.7	896.5	1551.5	3839.2	12990.0	27426.9	30488.0
55°	819.9	956.9	845.4	1333.1	3646.4	14276.6	29498.6	32520.2
57.5°	808.2	847.7	817.5	1142.7	3349.1	15182.4	30924.6	34106.5
60°	905.8	740.9	794.3	1049.8	2951.9	15431.0	30868.9	34738.2
62.5°	838.4	694.4	764.1	1028.9	2673.2	14734.2	29442.8	34396.8
65°	657.3	664.2	733.9	1089.3	2598.9	12887.8	26915.9	32819.8
67.5°	601.5	634.1	703.7	1165.9	2605.9	10319.0	23139.5	29384.8
70°	566.7	601.5	668.9	1205.4	2624.5	7692.2	18294.6	23933.8
72.5°	527.2	557.4	629.4	1212.4	2503.7	5588.0	14100.1	17597.9
75°	480.8	508.6	573.7	1056.8	2074.0	3876.3	10785.9	12040.0
77.5°	427.3	448.3	504.0	815.2	1539.8	2480.5	8096.4	8795.5
80°	364.6	376.3	422.7	596.9	1054.4	1551.5	6405.6	7058.2
82.5°	292.6	297.3	327.5	448.3	685.1	996.4	4289.7	4895.9
85°	206.7	206.7	225.3	325.2	466.8	631.7	2329.5	2582.7
87.5°	97.5	99.9	99.9	178.8	243.9	320.5	536.5	329.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)