

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: P193038

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193038
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 50076.8 lumens
Efficiency: N/A
Efficacy: 89.7 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 (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



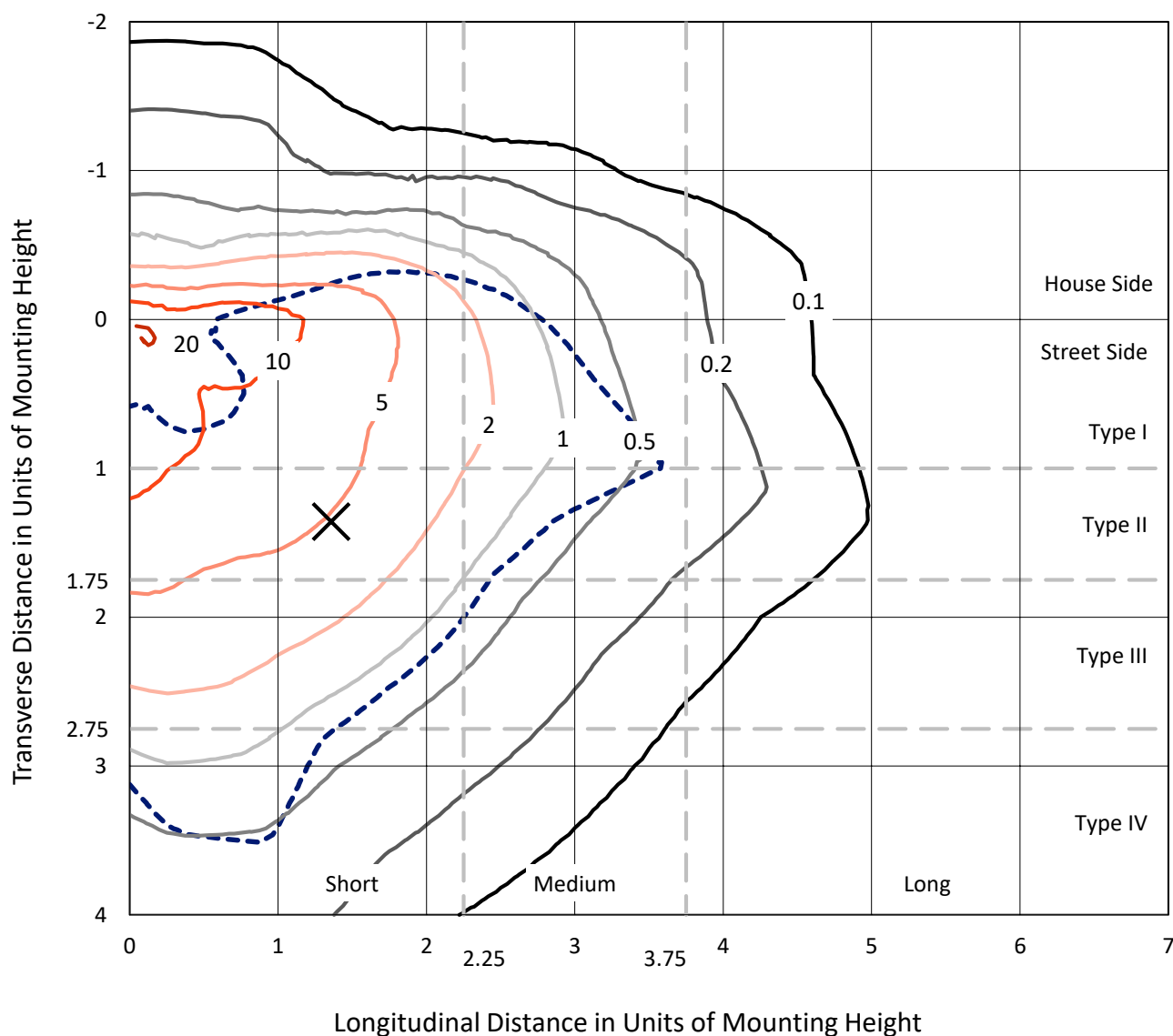
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

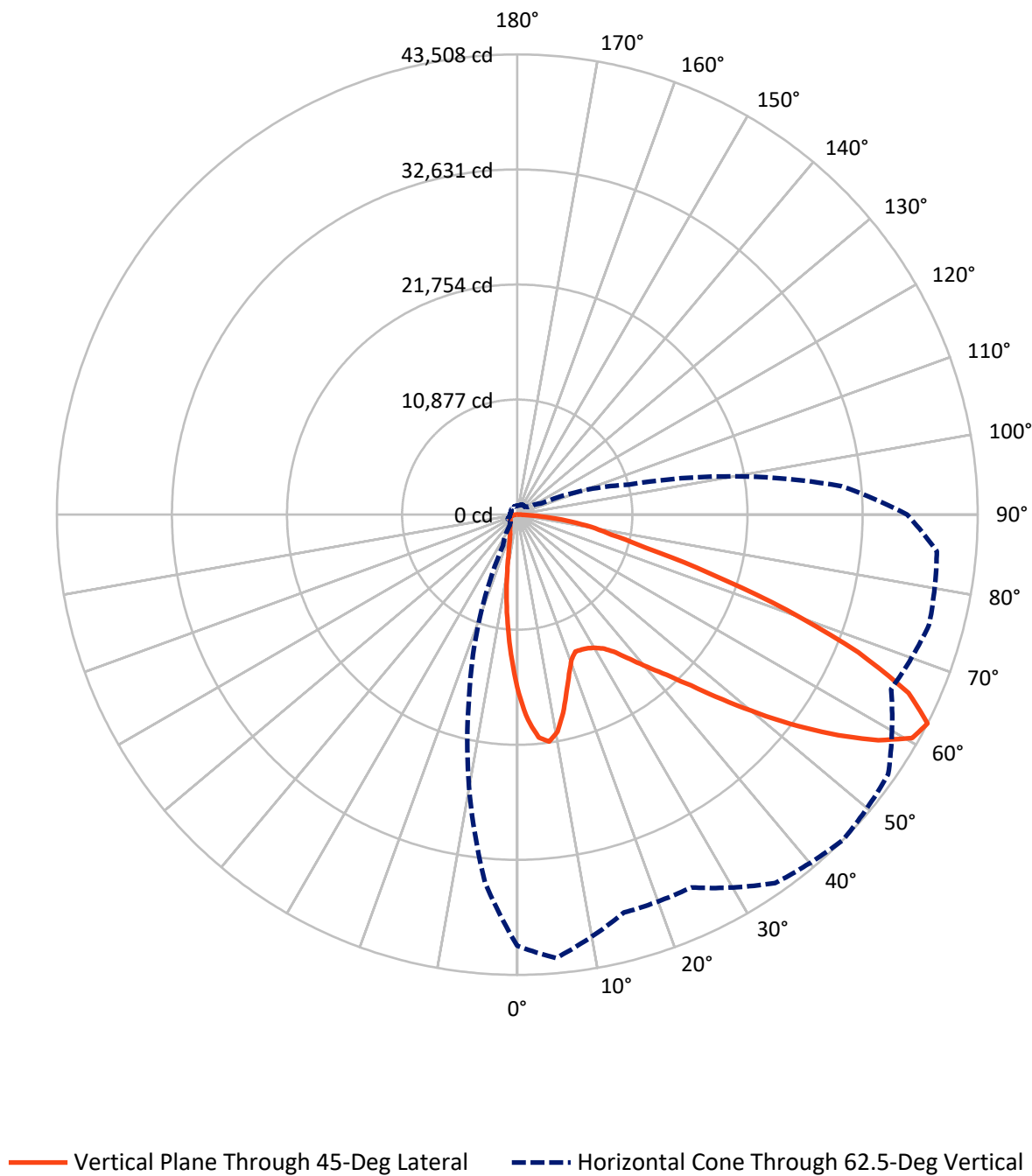


Based on 30 foot mounting height. Maximum calculated value = 22.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8287.0	0.0	8287.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	41789.8	0.0	41789.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	50076.8	0.0	50076.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.6	2.5
10°-20°	2258.4	4.5
20°-30°	3292.8	6.6
30°-40°	5071.3	10.1
40°-50°	7463.7	14.9
50°-60°	10947.6	21.9
60°-70°	12237.9	24.4
70°-80°	5991.5	12.0
80°-90°	1581.9	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°	50076.8	100.0
0°-180°	50076.8	100.0

Coefficient of Utilization



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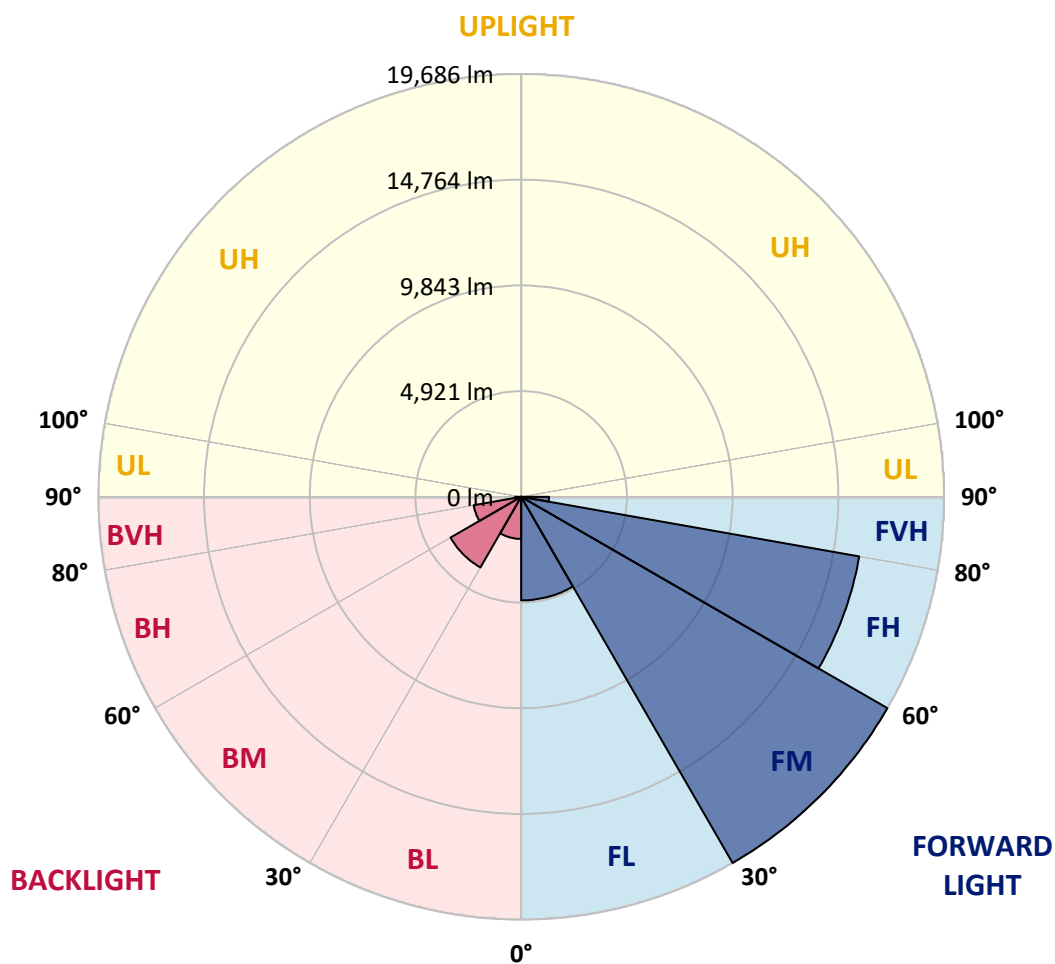
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4822.2	9.6			
FM	(30°-60°)	19685.6	39.3			
FH	(60°-80°)	15982.8	31.9			G5
FVH	(80°-90°)	1299.1	2.6			G5
BL	(0°-30°)	1960.6	3.9	B3/2500		
BM	(30°-60°)	3797.1	7.6	B3/5000		
BH	(60°-80°)	2246.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	282.8	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°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	17579.3	17860.1	18407.9	18818.0	19316.3	19432.0	19591.6	19434.7	19156.7	18787.7	18666.6
5°	16530.5	17130.6	18460.2	19630.2	20670.6	21155.3	21290.0	20890.9	20084.4	19024.5	18377.6
7.5°	14848.6	15701.8	17502.2	19225.5	20758.8	21664.5	21642.4	20714.7	19230.9	17505.0	16467.2
10°	13397.8	14372.3	16436.9	18363.9	19990.7	20868.8	20530.3	19343.8	17573.8	15586.3	14460.4
12.5°	12585.8	13540.9	15635.9	17571.1	18931.0	19233.8	18974.9	17813.3	16145.1	14135.5	13150.1
15°	12445.4	13494.2	15316.5	16891.2	17653.7	17389.3	17081.0	16560.8	15382.6	13667.6	12640.9
17.5°	13053.7	14209.9	15682.6	16417.7	16288.3	15828.5	15740.4	15798.3	15514.7	14187.9	13004.1
20°	14220.8	15608.3	16555.3	16194.6	15250.4	14617.4	14639.3	15523.0	16362.5	15506.5	14154.9
22.5°	15858.8	17441.7	17813.3	16313.1	14812.8	14061.2	14242.9	15674.4	17714.2	17433.4	15707.4
25°	17978.5	19421.0	19153.9	16742.5	14856.7	14130.1	14276.0	16197.3	19310.8	19360.4	17628.9
27.5°	20032.0	21369.9	20279.8	17312.2	15038.5	14292.5	14485.1	17020.5	20835.8	21452.5	19825.5
30°	21634.2	22564.7	20725.7	17832.5	15396.4	14609.0	14848.6	17802.2	21529.5	22864.6	21515.8
32.5°	22961.1	23629.9	21436.0	18476.8	16054.2	15107.3	15528.5	18751.9	22528.8	24208.0	23170.2
35°	24656.7	24846.6	22319.6	19195.2	17070.0	15974.5	16497.5	19682.4	23481.2	25565.1	24799.8
37.5°	26644.3	26399.2	23153.6	20177.9	18383.1	17331.6	17763.7	20703.7	24265.8	27104.0	26465.4
40°	28609.7	28020.6	24199.8	21702.9	20299.1	18931.0	19442.9	21793.8	24998.1	28645.5	28092.2
42.5°	30280.6	29408.0	25232.2	23379.4	22082.8	20695.5	21306.5	22892.2	25697.2	29961.4	29504.4
45°	31516.7	30432.1	26214.8	24989.8	24541.2	23040.8	23329.9	24150.2	26454.3	31059.6	30666.1
47.5°	32620.6	31461.6	27327.0	26613.9	26691.1	26090.9	25625.6	25614.7	27346.2	31957.1	31764.4
50°	34098.8	32890.4	28521.7	28287.7	29917.3	29518.1	28491.3	27324.2	28474.8	32975.6	32953.6
52.5°	36135.9	35153.1	29980.6	30090.8	32928.9	33190.3	31918.6	29377.7	30242.1	34844.9	34712.6
55°	38544.6	37972.0	31968.1	32163.6	36623.0	36810.3	35546.7	31946.1	32840.8	37550.8	37184.6
57.5°	40424.8	40303.5	34148.3	34652.1	39381.4	40223.8	39062.1	34919.2	35769.8	39830.1	38910.7
60°	41173.5	41759.8	36469.0	37162.7	41933.2	42866.4	41847.9	37531.5	38365.7	40774.4	38792.3
62.5°	40768.8	42079.1	38941.0	38883.1	42503.1	43507.8	42792.2	38985.1	40289.8	39799.9	36829.5
65°	38899.7	40931.2	40375.1	38439.9	40554.1	40636.7	40405.3	38335.4	40744.0	36719.5	33036.1
67.5°	34828.2	37751.7	38486.8	34641.0	35296.2	34759.4	34371.4	34778.8	38376.7	32103.0	27764.6
70°	28367.5	32766.5	33118.7	27706.8	27409.6	27048.9	26275.3	28513.4	33705.2	26311.2	22030.6
72.5°	20857.9	25482.5	26564.4	20321.1	18944.7	19019.0	18407.9	21488.2	27404.0	19544.9	16447.9
75°	14270.5	18451.9	20783.6	14179.6	12528.0	12558.3	12481.1	15225.8	21826.8	13596.0	12307.7
77.5°	10424.9	13183.1	15674.4	9532.9	9255.0	9084.3	9043.0	10653.4	16734.1	9871.5	9557.7
80°	8365.8	9739.4	10529.5	6606.7	7104.9	7091.2	6862.7	7325.2	10928.5	7220.6	7149.0
82.5°	5802.9	7484.8	8530.9	5178.1	4795.4	4715.5	4770.6	5456.1	7724.3	4935.8	4693.6
85°	3061.1	4971.6	8448.4	4588.9	2846.4	2271.1	2824.4	4467.8	6692.0	2615.1	2290.3
87.5°	390.9	1437.0	5593.6	1830.6	1123.1	605.7	1340.6	2516.0	4297.0	534.1	465.2
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°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	18355.5	17989.4	17510.4	17067.3	16607.6	16150.6	15553.3	15178.9	14920.1	14870.5	14760.5
5°	17909.7	16692.9	15773.4	14978.0	14256.7	13238.2	12673.8	12205.9	11955.3	11930.6	11870.0
7.5°	15853.3	14174.1	12932.6	11806.7	10785.4	9962.4	9053.9	8630.0	8456.5	8497.8	8539.1
10°	13714.4	11837.0	10411.1	9260.4	8360.2	7666.5	6937.0	6444.3	6102.9	6034.1	6020.3
12.5°	12150.8	10091.7	8707.1	7895.0	7198.5	6546.2	5772.6	5191.8	4748.5	4597.2	4495.3
15°	11490.1	9238.3	7787.7	6912.3	6144.2	5315.7	4597.2	3988.8	3581.4	3449.2	3374.9
17.5°	11630.5	9001.7	7154.6	6034.1	5051.4	4187.1	3281.3	2761.1	2516.0	2452.8	2452.8
20°	12368.2	8957.6	6631.5	5224.8	3999.8	2997.7	2254.6	1957.3	1877.4	1869.1	1891.2
22.5°	13403.4	9111.7	6240.6	4522.8	3107.9	2188.5	1756.3	1646.2	1610.4	1618.6	1643.4
25°	14944.9	9632.0	5957.1	3898.0	2439.0	1792.1	1566.3	1500.2	1483.7	1505.8	1536.0
27.5°	16772.7	10152.3	5780.9	3427.3	2059.1	1637.9	1489.3	1420.5	1431.4	1458.9	1486.5
30°	18377.6	10578.9	5502.9	3091.4	1940.7	1646.2	1489.3	1395.7	1384.7	1390.1	1398.4
32.5°	19817.3	10868.0	5178.1	2772.0	1673.8	1461.8	1390.1	1376.4	1315.8	1293.8	1296.6
35°	21058.8	10868.0	4982.6	2584.8	1500.2	1296.6	1181.0	1112.1	1081.8	1084.6	1114.9
37.5°	22256.3	10650.6	4886.2	2480.3	1406.7	1233.2	1131.4	1070.8	1029.6	1021.2	1026.8
40°	23313.4	10334.0	4776.0	2436.3	1335.1	1194.8	1098.4	1048.8	1004.7	991.0	993.7
42.5°	24161.3	10078.0	4655.0	2378.3	1291.0	1167.2	1076.3	1032.3	982.8	969.0	966.2
45°	25078.0	9992.7	4495.3	2262.8	1313.1	1169.9	1070.8	1024.1	974.5	957.9	952.4
47.5°	26286.3	10259.7	4330.2	2125.2	1359.8	1183.8	1079.1	1024.1	971.8	957.9	952.4
50°	27808.6	10887.2	4120.9	1924.2	1313.1	1222.3	1076.3	1015.8	971.8	957.9	947.0
52.5°	29763.2	11735.1	3845.6	1693.0	1285.6	1315.8	1070.8	999.2	957.9	938.7	919.4
55°	32138.8	12428.8	3518.0	1503.0	1222.3	1291.0	1062.5	979.9	936.0	908.4	891.9
57.5°	33878.6	12679.3	3096.9	1379.2	1134.1	1249.8	1051.5	955.3	908.4	886.4	864.4
60°	33534.5	12194.9	2741.8	1302.1	1081.8	1128.6	1043.3	933.2	883.7	867.1	847.9
62.5°	30778.9	10928.5	2513.3	1266.4	1048.8	1029.6	1051.5	911.2	861.6	845.1	839.5
65°	26647.0	9059.4	2422.5	1258.0	1021.2	971.8	977.3	886.4	836.8	823.0	817.6
67.5°	21981.0	7311.4	2342.6	1285.6	985.5	930.5	902.9	853.4	812.2	798.3	787.3
70°	17334.3	6081.0	2306.8	1269.0	941.5	889.2	858.9	817.6	781.7	768.0	759.8
72.5°	13959.4	5136.8	2287.6	1252.5	883.7	834.0	806.6	770.9	732.2	726.7	718.5
75°	11812.2	4038.3	2094.8	1200.2	817.6	768.0	748.8	715.7	677.2	677.2	671.7
77.5°	9111.7	2920.7	1742.4	1062.5	748.8	693.7	677.2	652.4	608.3	616.7	613.8
80°	6730.6	1904.9	1362.7	880.8	663.4	611.1	602.9	578.1	531.3	542.3	542.3
82.5°	4611.0	1249.8	979.9	721.2	567.0	517.6	517.6	492.8	440.5	446.0	462.5
85°	2315.1	858.9	732.2	558.9	440.5	415.6	415.6	396.4	344.0	346.9	368.9
87.5°	704.7	517.6	484.4	399.2	316.6	311.1	297.3	283.5	250.5	247.8	261.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	14592.5	14435.7	14245.7	13827.3	13686.9	13678.6	13805.2	13673.1	13926.4	13819.0	13937.3
5°	11768.2	11614.0	11402.1	10868.0	10543.2	10323.0	10218.4	9910.1	10133.0	9970.6	10105.5
7.5°	8654.8	8690.6	8550.2	8236.3	7528.8	7173.8	6964.5	6777.4	6939.8	6923.2	7182.0
10°	6083.7	6180.0	6081.0	5764.3	5191.8	4996.3	5034.8	5109.2	5321.2	5431.3	5830.4
12.5°	4379.6	4374.2	4310.9	4027.3	3650.3	3672.2	3829.1	3958.5	4153.9	4269.6	4677.0
15°	3270.3	3220.8	3193.2	2962.0	2747.4	2794.1	2871.2	2884.9	3008.8	3077.7	3407.9
17.5°	2472.0	2496.8	2527.0	2361.8	2199.5	2169.3	2108.6	2034.3	2070.1	2083.9	2249.0
20°	1962.8	2061.8	2136.1	2020.5	1855.3	1767.3	1690.2	1640.6	1640.6	1637.9	1684.7
22.5°	1715.0	1786.6	1866.3	1786.6	1637.9	1560.9	1516.7	1478.3	1472.7	1472.7	1516.7
25°	1580.1	1632.5	1709.5	1654.4	1544.3	1486.5	1445.2	1395.7	1376.4	1370.8	1401.1
27.5°	1514.0	1536.0	1574.7	1525.0	1431.4	1403.9	1392.9	1349.0	1324.1	1310.3	1340.6
30°	1401.1	1395.7	1398.4	1349.0	1274.5	1271.8	1291.0	1299.3	1291.0	1288.2	1335.1
32.5°	1296.6	1285.6	1282.8	1238.8	1169.9	1153.4	1169.9	1186.4	1205.6	1233.2	1288.2
35°	1164.3	1191.9	1208.5	1169.9	1087.3	1037.9	1018.6	988.2	971.8	971.8	1035.0
37.5°	1059.9	1123.1	1147.9	1112.1	1021.2	952.4	919.4	914.0	916.6	927.7	988.2
40°	1024.1	1070.8	1092.8	1057.1	966.2	902.9	883.7	878.1	883.7	900.2	960.7
42.5°	1002.0	1035.0	1032.3	988.2	914.0	869.9	858.9	853.4	858.9	875.3	941.5
45°	982.8	1004.7	982.8	930.5	861.6	839.5	842.4	839.5	845.1	861.6	925.0
47.5°	966.2	974.5	947.0	894.7	823.0	817.6	828.6	836.8	842.4	856.1	922.1
50°	941.5	941.5	916.6	861.6	790.1	792.7	806.6	825.9	828.6	845.1	897.4
52.5°	911.2	908.4	891.9	839.5	762.5	770.9	770.9	792.7	798.3	817.6	872.7
55°	886.4	880.8	872.7	823.0	737.7	751.4	743.3	751.4	765.3	784.6	845.1
57.5°	864.4	853.4	853.4	809.3	718.5	724.0	704.7	715.7	732.2	748.8	812.2
60°	842.4	831.4	836.8	790.1	688.3	682.7	674.4	696.4	702.0	721.2	784.6
62.5°	817.6	809.3	812.2	768.0	666.2	652.4	652.4	671.7	674.4	702.0	762.5
65°	798.3	787.3	784.6	746.0	641.4	624.9	633.1	641.4	647.0	674.4	732.2
67.5°	779.0	757.0	757.0	726.7	613.8	597.3	613.8	611.1	619.4	644.2	690.9
70°	754.2	724.0	726.7	713.0	586.4	567.0	580.8	578.1	583.6	600.2	647.0
72.5°	715.7	690.9	696.4	690.9	558.9	531.3	536.8	536.8	536.8	550.5	600.2
75°	666.2	647.0	663.4	677.2	525.7	487.3	492.8	492.8	484.4	492.8	553.3
77.5°	605.7	594.6	649.6	630.4	487.3	440.5	440.5	435.0	418.5	429.4	495.5
80°	539.5	531.3	600.2	528.5	443.1	382.6	377.2	363.4	346.9	355.1	421.2
82.5°	470.7	462.5	503.8	404.7	382.6	316.6	302.7	278.1	261.5	269.8	330.3
85°	385.3	385.3	388.1	305.6	291.8	242.2	225.7	192.8	173.4	178.9	236.8
87.5°	275.4	283.5	261.5	209.2	173.4	134.9	123.9	104.6	88.1	101.8	123.9
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-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	14543.0	14845.8	15189.9	15630.3	16007.5	16626.8	17221.5	17579.3
5°	10873.5	11377.2	12004.9	12811.5	13563.0	14691.6	15812.0	16530.5
7.5°	7782.1	8321.7	8998.9	10006.4	11068.9	12508.6	13989.7	14848.6
10°	6438.7	6992.0	7562.0	8241.9	9111.7	10678.0	12428.8	13397.8
12.5°	5326.6	5918.5	6532.4	7248.0	8054.7	9453.1	11470.9	12585.8
15°	4076.9	4737.6	5461.6	6367.2	7377.5	8993.3	11234.1	12445.4
17.5°	2794.1	3531.8	4420.9	5538.6	6774.6	8844.7	11658.1	13053.7
20°	1924.2	2460.9	3410.7	4721.0	6207.6	8825.4	12472.9	14220.8
22.5°	1610.4	1849.9	2543.5	3969.5	5780.9	9062.2	13736.4	15858.8
25°	1489.3	1632.5	2031.5	3317.1	5469.7	9607.2	15476.1	17978.5
27.5°	1417.6	1547.1	1844.4	2890.5	5224.8	10240.4	17169.1	20032.0
30°	1445.2	1577.3	1792.1	2672.9	4891.7	10768.9	18672.2	21634.2
32.5°	1302.1	1359.8	1536.0	2480.3	4652.3	11212.0	19988.0	22961.1
35°	1109.4	1211.2	1370.8	2389.4	4657.7	11509.4	21422.3	24656.7
37.5°	1057.1	1158.9	1274.5	2356.4	4721.0	11826.0	23068.4	26644.3
40°	1024.1	1117.6	1216.7	2337.2	4781.6	12115.0	24681.5	28609.7
42.5°	1002.0	1087.3	1211.2	2271.1	4811.9	12373.8	26008.4	30280.6
45°	999.2	1087.3	1233.2	2205.0	4858.6	12651.7	27120.5	31516.7
47.5°	1002.0	1123.1	1191.9	2125.2	4858.6	13117.0	28425.3	32620.6
50°	991.0	1183.8	1147.9	2012.3	4745.7	13998.0	30214.5	34098.8
52.5°	985.5	1175.4	1062.5	1838.9	4550.3	15396.4	32507.7	36135.9
55°	971.8	1134.1	1002.0	1580.1	4321.9	16921.4	34963.2	38544.6
57.5°	957.9	1004.7	969.0	1354.4	3969.5	17995.0	36653.4	40424.8
60°	1073.6	878.1	941.5	1244.3	3498.8	18289.6	36587.3	41173.5
62.5°	993.7	823.0	905.6	1219.5	3168.4	17463.7	34897.1	40768.8
65°	779.0	787.3	869.9	1291.0	3080.3	15275.2	31902.1	38899.7
67.5°	713.0	751.4	834.0	1381.9	3088.6	12230.6	27426.0	34828.2
70°	671.7	713.0	792.7	1428.7	3110.6	9117.2	21683.7	28367.5
72.5°	624.9	660.7	746.0	1437.0	2967.5	6623.2	16712.2	20857.9
75°	569.8	602.9	679.9	1252.5	2458.3	4594.4	12784.0	14270.5
77.5°	506.5	531.3	597.3	966.2	1825.0	2939.9	9596.2	10424.9
80°	432.2	446.0	501.0	707.5	1249.8	1838.9	7592.2	8365.8
82.5°	346.9	352.4	388.1	531.3	812.2	1181.0	5084.4	5802.9
85°	245.0	245.0	267.0	385.3	553.3	748.8	2761.1	3061.1
87.5°	115.6	118.3	118.3	212.0	289.0	379.9	635.9	390.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)