

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: P193014

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193014
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-06-LED-E1-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA 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: 19936.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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



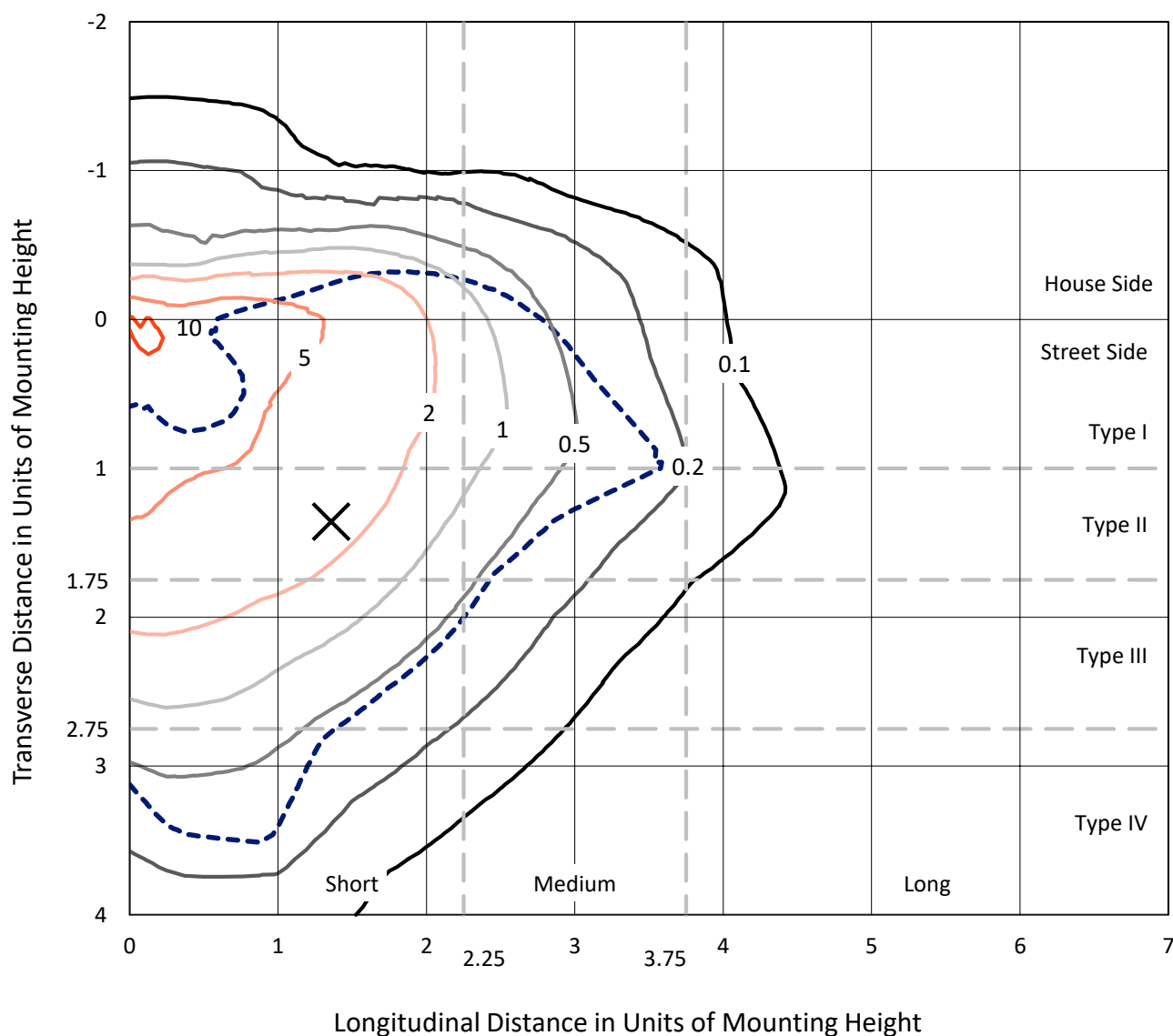
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

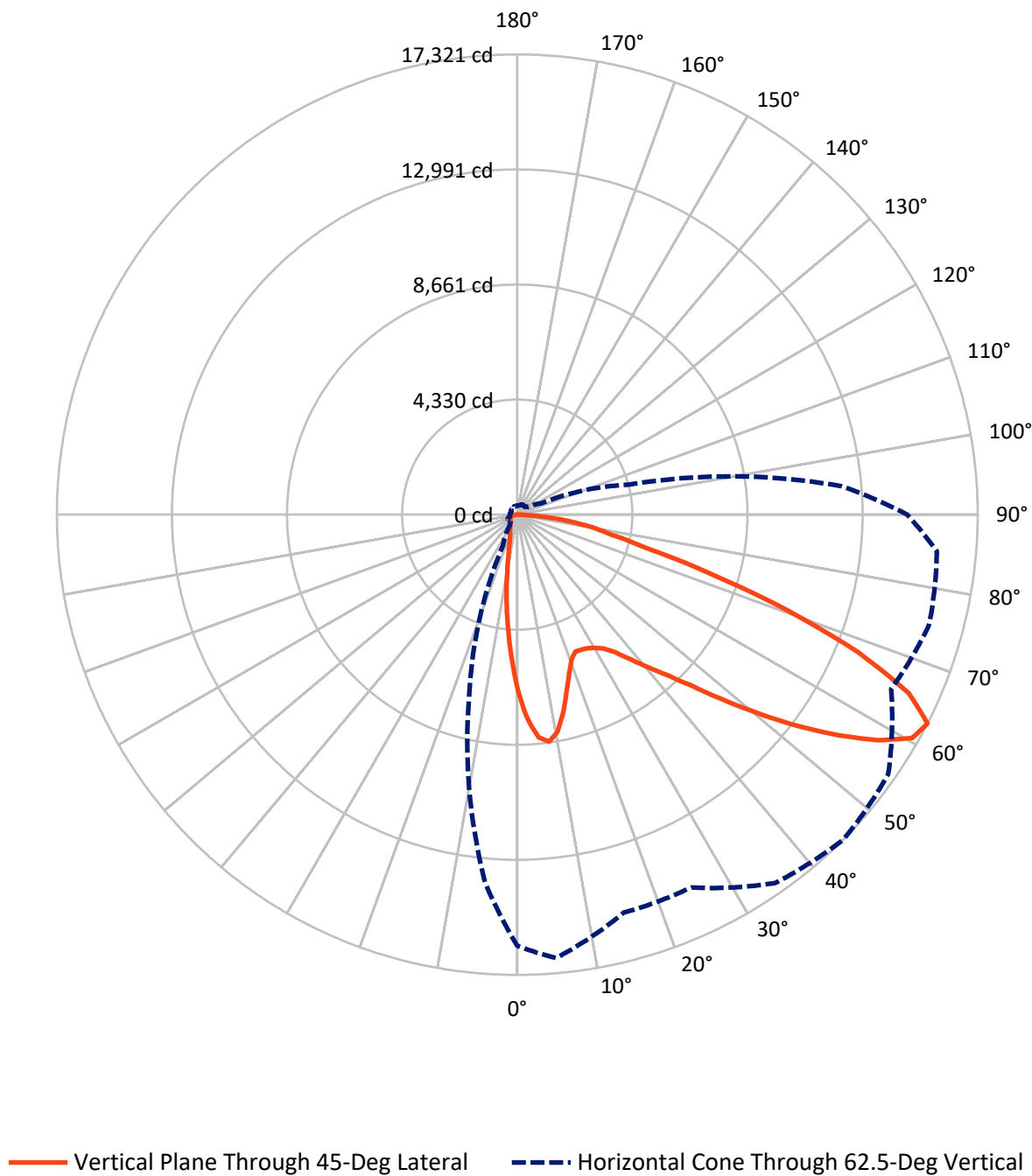


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.2	0.0	3299.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16637.3	0.0	16637.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	19936.5	0.0	19936.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.3	2.5
10°-20°	899.1	4.5
20°-30°	1310.9	6.6
30°-40°	2019.0	10.1
40°-50°	2971.4	14.9
50°-60°	4358.5	21.9
60°-70°	4872.1	24.4
70°-80°	2385.3	12.0
80°-90°	629.8	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°	19936.5	100.0
0°-180°	19936.5	100.0

Coefficient of Utilization



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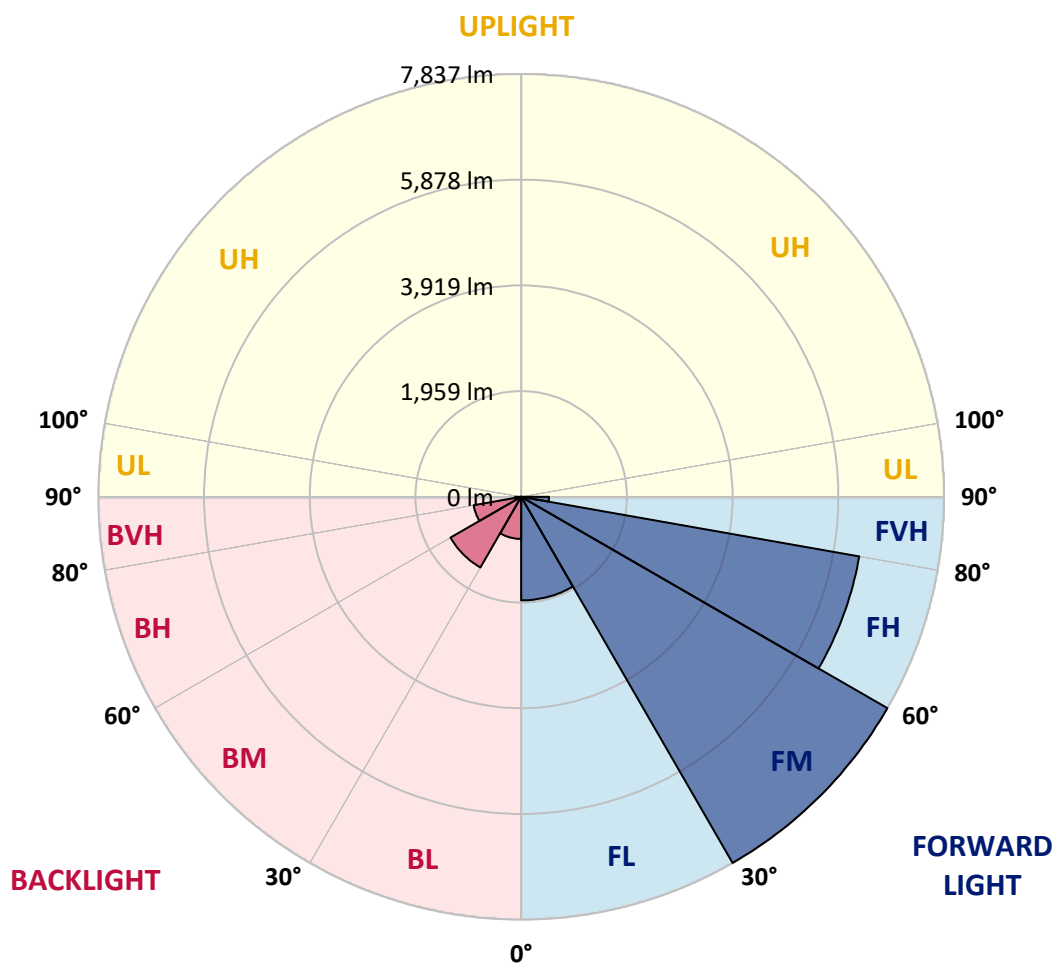
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1919.8	9.6			
FM	(30°-60°)	7837.2	39.3			
FH	(60°-80°)	6363.1	31.9			G3/7500
FVH	(80°-90°)	517.2	2.6			G4/750
BL	(0°-30°)	780.5	3.9	B2/1000		
BM	(30°-60°)	1511.7	7.6	B2/2500		
BH	(60°-80°)	894.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	112.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7
2.5°	6998.7	7110.5	7328.6	7491.8	7690.2	7736.2	7799.8	7737.3	7626.7	7479.8	7431.6
5°	6581.1	6820.1	7349.4	7815.1	8229.4	8422.2	8476.0	8317.1	7995.9	7574.1	7316.4
7.5°	5911.5	6251.3	6968.0	7654.0	8264.5	8625.0	8616.3	8246.9	7656.3	6969.1	6555.9
10°	5333.9	5721.9	6543.9	7311.0	7958.7	8308.3	8173.4	7701.1	6996.4	6205.2	5757.0
12.5°	5010.6	5391.0	6224.9	6995.4	7536.8	7657.3	7554.3	7091.8	6427.7	5627.6	5235.2
15°	4954.7	5372.3	6097.8	6724.7	7028.2	6923.0	6800.3	6593.1	6124.1	5441.3	5032.6
17.5°	5196.9	5657.2	6243.5	6536.2	6484.6	6301.6	6266.6	6289.6	6176.8	5648.4	5177.2
20°	5661.6	6214.0	6590.9	6447.4	6071.5	5819.4	5828.2	6180.0	6514.2	6173.3	5635.3
22.5°	6313.6	6943.9	7091.8	6494.5	5897.3	5598.0	5670.3	6240.3	7052.3	6940.5	6253.5
25°	7157.6	7731.8	7625.5	6665.5	5914.8	5625.4	5683.5	6448.5	7688.0	7707.7	7018.4
27.5°	7975.2	8507.8	8073.8	6892.4	5987.1	5690.1	5766.8	6776.2	8295.2	8540.7	7893.0
30°	8613.0	8983.4	8251.4	7099.4	6129.6	5816.2	5911.5	7087.4	8571.3	9102.8	8565.8
32.5°	9141.1	9407.6	8534.0	7356.0	6391.5	6014.5	6182.2	7465.5	8969.2	9637.6	9224.5
35°	9816.3	9891.9	8885.8	7642.0	6795.9	6359.8	6568.0	7836.0	9348.3	10177.9	9873.3
37.5°	10607.6	10510.0	9217.9	8033.2	7318.6	6900.0	7072.2	8242.5	9660.7	10790.6	10536.3
40°	11390.1	11155.6	9634.4	8640.3	8081.5	7536.8	7740.6	8676.5	9952.2	11404.4	11184.0
42.5°	12055.3	11707.9	10045.4	9307.8	8791.6	8239.2	8482.6	9113.9	10230.6	11928.2	11746.3
45°	12547.5	12115.6	10436.7	9948.9	9770.3	9173.0	9288.1	9614.7	10531.9	12365.4	12208.7
47.5°	12986.9	12525.5	10879.4	10595.5	10626.2	10387.3	10202.1	10197.7	10887.0	12722.7	12646.0
50°	13575.4	13094.2	11355.0	11261.9	11910.7	11751.7	11343.0	10878.3	11336.4	13128.3	13119.6
52.5°	14386.3	13995.1	11935.8	11979.7	13109.6	13213.7	12707.4	11695.8	12040.0	13872.4	13819.7
55°	15345.4	15117.3	12727.2	12804.9	14580.3	14654.8	14151.8	12718.4	13074.5	14949.7	14804.0
57.5°	16093.9	16045.6	13595.1	13795.6	15678.4	16013.8	15551.4	13901.9	14240.7	15857.2	15491.1
60°	16391.9	16625.4	14519.0	14795.2	16694.4	17066.0	16660.4	14942.0	15274.1	16233.0	15444.1
62.5°	16230.8	16752.5	15503.2	15480.2	16921.3	17321.3	17036.4	15520.8	16040.2	15845.1	14662.6
65°	15486.7	16295.5	16074.1	15303.7	16145.4	16178.2	16086.1	15262.0	16220.9	14618.7	13152.3
67.5°	13865.8	15029.7	15322.3	13791.2	14052.2	13838.4	13683.8	13846.1	15278.5	12780.8	11053.6
70°	11293.7	13044.9	13185.2	11030.6	10912.3	10768.7	10460.7	11351.7	13418.6	10475.0	8770.8
72.5°	8303.9	10145.0	10575.8	8090.2	7542.2	7571.8	7328.6	8554.9	10910.1	7781.1	6548.2
75°	5681.4	7346.0	8274.3	5645.2	4987.5	4999.7	4969.0	6061.6	8689.7	5412.8	4899.9
77.5°	4150.3	5248.5	6240.3	3795.2	3684.6	3616.6	3600.2	4241.3	6662.2	3930.0	3805.1
80°	3330.6	3877.4	4191.9	2630.2	2828.6	2823.2	2732.1	2916.2	4350.9	2874.6	2846.2
82.5°	2310.3	2979.8	3396.4	2061.5	1909.1	1877.3	1899.3	2172.2	3075.2	1965.0	1868.6
85°	1218.7	1979.2	3363.4	1827.0	1133.2	904.1	1124.4	1778.7	2664.2	1041.1	911.8
87.5°	155.5	572.1	2226.9	728.8	447.1	241.1	533.7	1001.7	1710.8	212.6	185.2
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°	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7
2.5°	7307.7	7162.0	6971.3	6794.9	6611.9	6429.9	6192.0	6043.0	5940.0	5920.2	5876.4
5°	7130.2	6645.8	6279.6	5963.1	5675.9	5270.3	5045.7	4859.5	4759.7	4749.8	4725.7
7.5°	6311.5	5643.0	5148.8	4700.5	4293.9	3966.2	3604.6	3435.7	3366.8	3383.2	3399.6
10°	5460.0	4712.6	4144.9	3686.7	3328.4	3052.1	2761.7	2565.6	2429.7	2402.3	2396.8
12.5°	4837.5	4017.7	3466.5	3143.2	2865.9	2606.2	2298.2	2066.9	1890.5	1830.2	1789.6
15°	4574.4	3678.0	3100.4	2751.9	2446.1	2116.3	1830.2	1588.0	1425.9	1373.2	1343.7
17.5°	4630.3	3583.7	2848.4	2402.3	2011.0	1667.0	1306.3	1099.2	1001.7	976.4	976.4
20°	4924.1	3566.2	2640.1	2080.1	1592.4	1193.4	897.6	779.2	747.5	744.2	752.9
22.5°	5336.1	3627.5	2484.4	1800.6	1237.4	871.3	699.3	655.3	641.2	644.4	654.3
25°	5949.8	3834.7	2371.6	1551.8	971.0	713.5	623.6	597.3	590.8	599.5	611.6
27.5°	6677.6	4041.8	2301.4	1364.4	819.8	652.1	592.9	565.5	569.9	580.8	591.8
30°	7316.4	4211.7	2190.7	1230.7	772.7	655.3	592.9	555.7	551.2	553.4	556.7
32.5°	7889.6	4326.7	2061.5	1103.6	666.4	582.0	553.4	547.9	523.9	515.0	516.1
35°	8383.9	4326.7	1983.6	1029.1	597.3	516.1	470.2	442.7	430.7	431.8	443.8
37.5°	8860.7	4240.2	1945.3	987.4	560.1	491.0	450.4	426.3	409.8	406.6	408.7
40°	9281.5	4114.1	1901.4	969.9	531.5	475.6	437.2	417.6	400.0	394.5	395.6
42.5°	9619.0	4012.2	1853.2	946.8	513.9	464.7	428.6	411.0	391.2	385.8	384.7
45°	9984.0	3978.2	1789.6	900.9	522.8	465.8	426.3	407.6	388.0	381.5	379.2
47.5°	10465.1	4084.5	1723.9	846.1	541.4	471.2	429.6	407.6	386.9	381.5	379.2
50°	11071.1	4334.5	1640.6	766.0	522.8	486.6	428.6	404.4	386.9	381.5	377.1
52.5°	11849.2	4672.0	1531.0	674.0	511.8	523.9	426.3	397.8	381.5	373.6	366.0
55°	12795.1	4948.2	1400.6	598.4	486.6	513.9	423.1	390.2	372.6	361.6	355.1
57.5°	13487.7	5047.9	1232.9	549.0	451.6	497.5	418.7	380.3	361.6	352.9	344.1
60°	13350.7	4855.1	1091.5	518.3	430.7	449.4	415.4	371.5	351.9	345.3	337.5
62.5°	12253.7	4350.9	1000.6	504.1	417.6	409.8	418.7	362.7	343.1	336.4	334.3
65°	10608.6	3606.7	964.4	500.9	406.6	386.9	389.1	352.9	333.1	327.7	325.5
67.5°	8751.1	2910.7	932.6	511.8	392.3	370.4	359.5	339.7	323.3	317.8	313.5
70°	6901.2	2420.9	918.5	505.3	374.8	354.0	342.0	325.5	311.3	305.8	302.4
72.5°	5557.5	2045.0	910.6	498.7	351.9	332.0	321.1	306.9	291.5	289.3	286.0
75°	4702.6	1607.7	833.9	477.8	325.5	305.8	298.1	284.9	269.7	269.7	267.3
77.5°	3627.5	1162.7	693.7	423.1	298.1	276.2	269.7	259.7	242.2	245.5	244.4
80°	2679.6	758.4	542.5	350.7	264.1	243.3	240.1	230.1	211.5	215.9	215.9
82.5°	1835.7	497.5	390.2	287.2	225.7	206.1	206.1	196.1	175.4	177.5	184.1
85°	921.7	342.0	291.5	222.5	175.4	165.5	165.5	157.8	137.0	138.1	146.9
87.5°	280.6	206.1	192.9	158.9	126.0	123.8	118.3	112.9	99.8	98.7	104.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7
2.5°	5809.6	5747.1	5671.4	5504.9	5449.0	5445.7	5496.2	5443.6	5544.4	5501.6	5548.7
5°	4685.1	4623.8	4539.4	4326.7	4197.4	4109.8	4068.2	3945.4	4034.2	3969.5	4023.2
7.5°	3445.6	3459.9	3404.0	3279.1	2997.4	2856.0	2772.7	2698.1	2762.8	2756.3	2859.4
10°	2422.1	2460.4	2420.9	2294.9	2066.9	1989.2	2004.5	2034.1	2118.4	2162.2	2321.2
12.5°	1743.7	1741.5	1716.3	1603.4	1453.2	1462.0	1524.5	1575.9	1653.7	1699.7	1862.0
15°	1302.0	1282.2	1271.3	1179.2	1093.8	1112.4	1143.1	1148.6	1197.8	1225.3	1356.8
17.5°	984.1	994.0	1006.1	940.2	875.6	863.5	839.4	809.9	824.2	829.6	895.4
20°	781.4	820.9	850.5	804.3	738.7	703.6	672.9	653.2	653.2	652.1	670.8
22.5°	682.8	711.3	743.1	711.3	652.1	621.3	603.8	588.5	586.2	586.2	603.8
25°	629.2	649.9	680.5	658.7	614.8	591.8	575.4	555.7	547.9	545.8	557.9
27.5°	602.8	611.6	626.9	607.2	569.9	559.0	554.5	537.0	527.1	521.7	533.7
30°	557.9	555.7	556.7	537.0	507.4	506.3	513.9	517.3	513.9	512.9	531.5
32.5°	516.1	511.8	510.7	493.2	465.8	459.2	465.8	472.3	479.9	491.0	512.9
35°	463.6	474.5	481.1	465.8	432.8	413.2	405.5	393.5	386.9	386.9	412.1
37.5°	422.0	447.1	457.0	442.7	406.6	379.2	366.0	363.9	364.9	369.3	393.5
40°	407.6	426.3	435.1	420.8	384.7	359.5	351.9	349.6	351.9	358.4	382.5
42.5°	398.9	412.1	411.0	393.5	363.9	346.4	342.0	339.7	342.0	348.5	374.8
45°	391.2	400.0	391.2	370.4	343.1	334.3	335.3	334.3	336.4	343.1	368.2
47.5°	384.7	388.0	377.1	356.1	327.7	325.5	329.9	333.1	335.3	340.9	367.1
50°	374.8	374.8	364.9	343.1	314.5	315.6	321.1	328.8	329.9	336.4	357.3
52.5°	362.7	361.6	355.1	334.3	303.5	306.9	306.9	315.6	317.8	325.5	347.5
55°	352.9	350.7	347.5	327.7	293.7	299.2	295.9	299.2	304.8	312.4	336.4
57.5°	344.1	339.7	339.7	322.2	286.0	288.2	280.6	284.9	291.5	298.1	323.3
60°	335.3	330.9	333.1	314.5	274.0	271.8	268.6	277.3	279.4	287.2	312.4
62.5°	325.5	322.2	323.3	305.8	265.2	259.7	259.7	267.3	268.6	279.4	303.5
65°	317.8	313.5	312.4	296.9	255.3	248.8	252.1	255.3	257.6	268.6	291.5
67.5°	310.2	301.3	301.3	289.3	244.4	237.8	244.4	243.3	246.6	256.4	275.2
70°	300.3	288.2	289.3	283.8	233.5	225.7	231.2	230.1	232.2	239.0	257.6
72.5°	284.9	275.2	277.3	275.2	222.5	211.5	213.7	213.7	213.7	219.2	239.0
75°	265.2	257.6	264.1	269.7	209.3	193.9	196.1	196.1	192.9	196.1	220.2
77.5°	241.1	236.8	258.6	251.0	193.9	175.4	175.4	173.1	166.6	171.0	197.3
80°	214.8	211.5	239.0	210.5	176.5	152.3	150.1	144.7	138.1	141.4	167.7
82.5°	187.4	184.1	200.6	161.1	152.3	126.0	120.5	110.7	104.2	107.4	131.5
85°	153.4	153.4	154.5	121.6	116.2	96.4	89.9	76.7	69.1	71.2	94.3
87.5°	109.6	112.9	104.2	83.2	69.1	53.7	49.2	41.6	35.1	40.5	49.2
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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CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7
2.5°	5789.8	5910.4	6047.4	6222.8	6372.9	6619.5	6856.2	6998.7
5°	4329.0	4529.6	4779.4	5100.6	5399.7	5848.9	6295.1	6581.1
7.5°	3098.3	3313.1	3582.6	3983.7	4406.8	4979.9	5569.6	5911.5
10°	2563.4	2783.7	3010.5	3281.3	3627.5	4251.2	4948.2	5333.9
12.5°	2120.6	2356.2	2600.7	2885.6	3206.8	3763.4	4566.8	5010.6
15°	1623.0	1886.2	2174.4	2535.0	2937.1	3580.4	4472.5	4954.7
17.5°	1112.4	1406.0	1760.0	2205.1	2697.1	3521.2	4641.4	5196.9
20°	766.0	979.7	1357.9	1879.6	2471.3	3513.6	4965.8	5661.6
22.5°	641.2	736.5	1012.7	1580.3	2301.4	3607.8	5468.8	6313.6
25°	592.9	649.9	808.8	1320.6	2177.6	3824.8	6161.3	7157.6
27.5°	564.5	615.9	734.3	1150.7	2080.1	4076.9	6835.4	7975.2
30°	575.4	628.0	713.5	1064.1	1947.4	4287.4	7433.8	8613.0
32.5°	518.3	541.4	611.6	987.4	1852.2	4463.8	7957.6	9141.1
35°	441.6	482.2	545.8	951.3	1854.3	4582.2	8528.6	9816.3
37.5°	420.8	461.4	507.4	938.1	1879.6	4708.2	9184.0	10607.6
40°	407.6	444.9	484.4	930.5	1903.7	4823.2	9826.2	11390.1
42.5°	398.9	432.8	482.2	904.1	1915.8	4926.3	10354.4	12055.3
45°	397.8	432.8	491.0	877.9	1934.3	5037.0	10797.2	12547.5
47.5°	398.9	447.1	474.5	846.1	1934.3	5222.1	11316.6	12986.9
50°	394.5	471.2	457.0	801.1	1889.4	5572.9	12029.0	13575.4
52.5°	392.3	467.9	423.1	732.0	1811.6	6129.6	12942.0	14386.3
55°	386.9	451.6	398.9	629.2	1720.7	6736.7	13919.5	15345.4
57.5°	381.5	400.0	385.8	539.2	1580.3	7164.1	14592.4	16093.9
60°	427.4	349.6	374.8	495.4	1392.9	7281.4	14566.1	16391.9
62.5°	395.6	327.7	360.5	485.5	1261.4	6952.6	13893.2	16230.8
65°	310.2	313.5	346.4	513.9	1226.3	6081.4	12700.9	15486.7
67.5°	283.8	299.2	332.0	550.1	1229.6	4869.2	10918.9	13865.8
70°	267.3	283.8	315.6	568.8	1238.5	3629.7	8632.7	11293.7
72.5°	248.8	263.0	296.9	572.1	1181.4	2636.9	6653.5	8303.9
75°	226.8	240.1	270.8	498.7	978.6	1829.1	5089.6	5681.4
77.5°	201.7	211.5	237.8	384.7	726.6	1170.5	3820.5	4150.3
80°	172.1	177.5	199.5	281.7	497.5	732.0	3022.5	3330.6
82.5°	138.1	140.3	154.5	211.5	323.3	470.2	2024.2	2310.3
85°	97.6	97.6	106.3	153.4	220.2	298.1	1099.2	1218.7
87.5°	46.0	47.1	47.1	84.3	115.0	151.3	253.2	155.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)