

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: P193013

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193013
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-05-LED-E1-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 16659.8 lumens
Efficiency: N/A
Efficacy: 102.8 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 - G3

Input Watts (W): 162
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



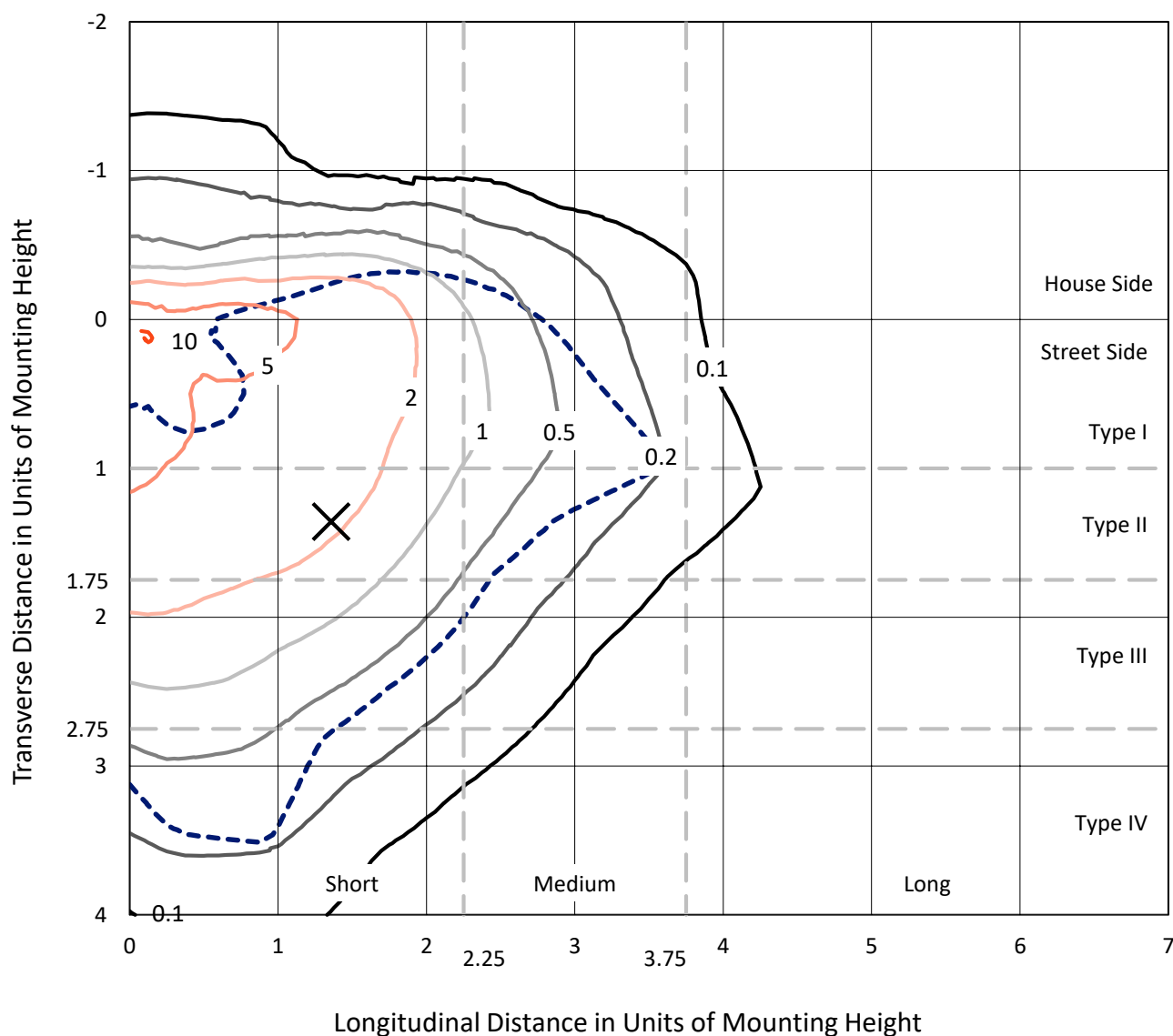
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

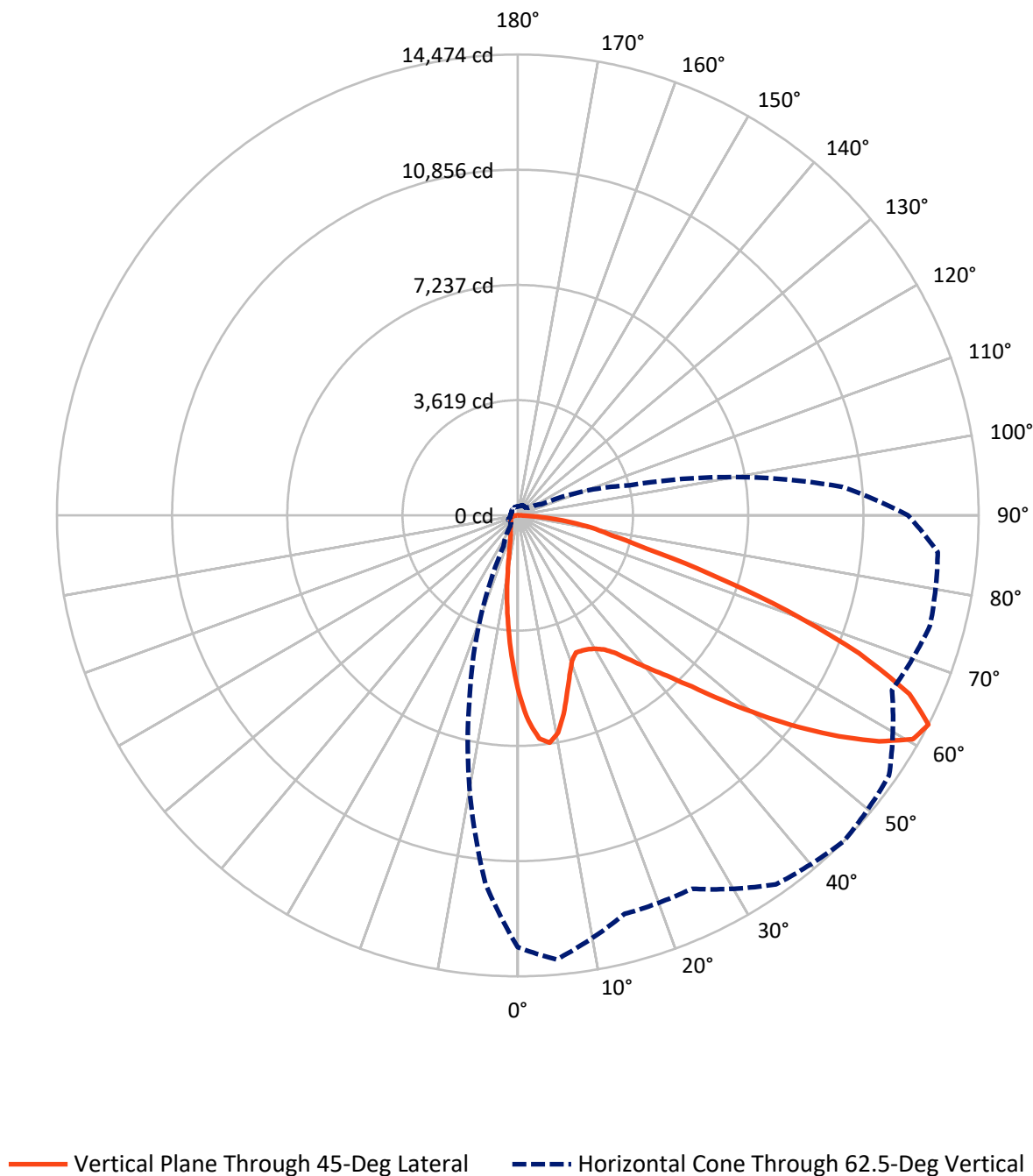


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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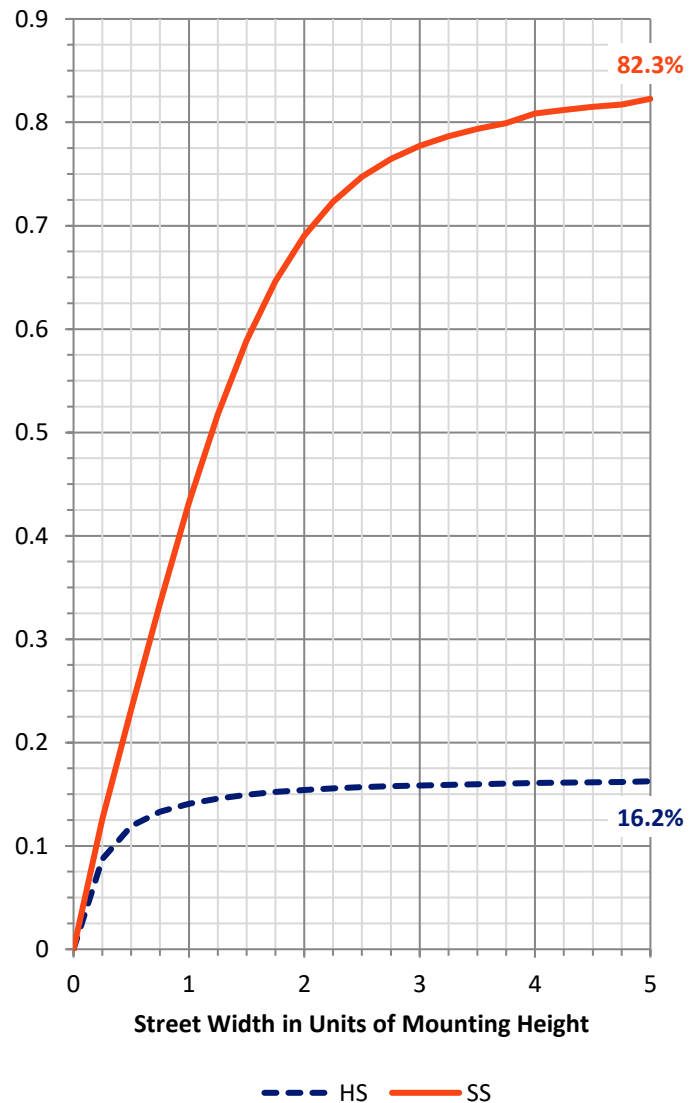
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2757.0	0.0	2757.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13902.9	0.0	13902.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	16659.8	0.0	16659.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	2.5
10°-20°	751.3	4.5
20°-30°	1095.5	6.6
30°-40°	1687.2	10.1
40°-50°	2483.1	14.9
50°-60°	3642.1	21.9
60°-70°	4071.4	24.4
70°-80°	1993.3	12.0
80°-90°	526.3	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°	16659.8	100.0
0°-180°	16659.8	100.0

Coefficient of Utilization



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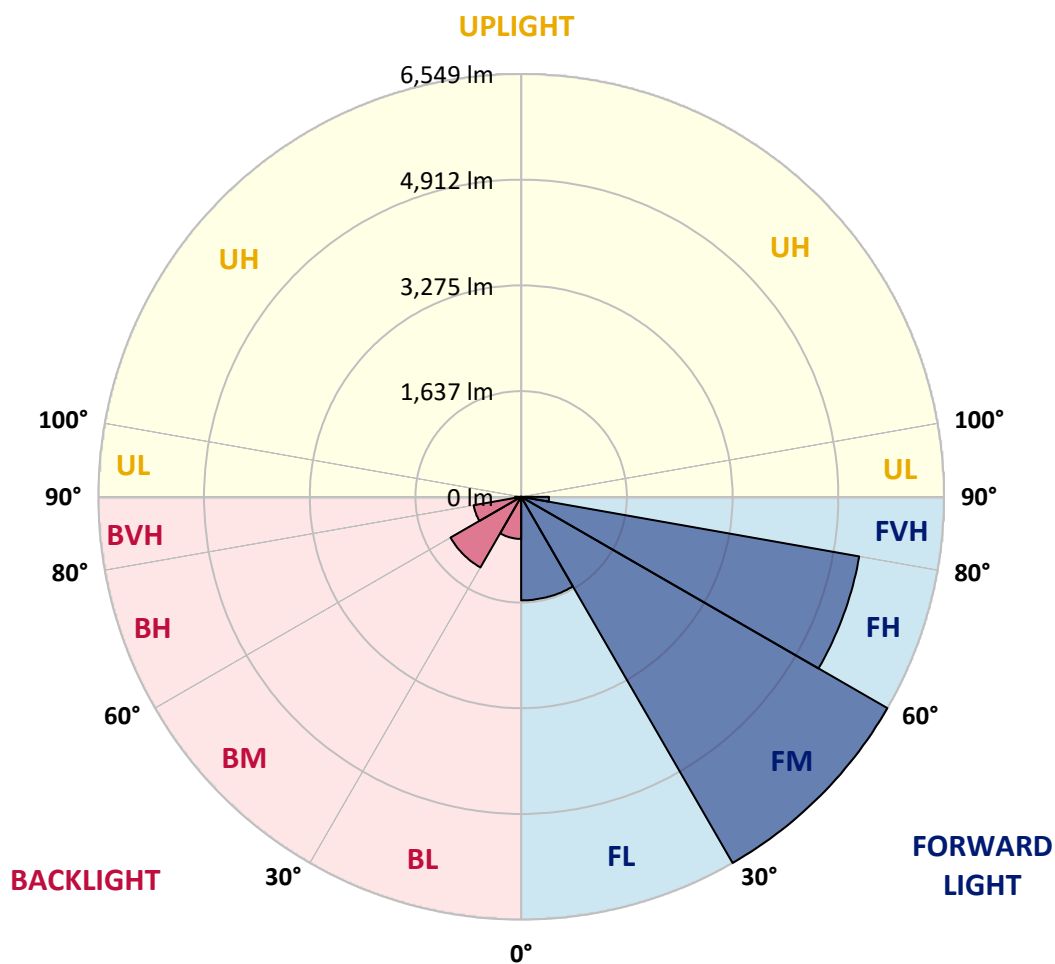
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.3	9.6			
FM	(30°-60°)	6549.1	39.3			
FH	(60°-80°)	5317.2	31.9			G3/7500
FVH	(80°-90°)	432.2	2.6			G3/500
BL	(0°-30°)	652.3	3.9	B2/1000		
BM	(30°-60°)	1263.2	7.6	B2/2500		
BH	(60°-80°)	747.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	94.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	5848.4	5941.8	6124.1	6260.5	6426.3	6464.8	6517.9	6465.6	6373.2	6250.4	6210.2
5°	5499.4	5699.1	6141.5	6530.7	6876.9	7038.1	7082.9	6950.1	6681.7	6329.2	6113.9
7.5°	4939.9	5223.8	5822.8	6396.0	6906.2	7207.5	7200.1	6891.5	6397.9	5823.6	5478.4
10°	4457.2	4781.5	5468.3	6109.4	6650.6	6942.8	6830.2	6435.5	5846.6	5185.3	4810.8
12.5°	4187.2	4504.9	5201.9	5845.6	6298.0	6398.8	6312.7	5926.2	5371.3	4702.7	4374.8
15°	4140.4	4489.4	5095.7	5619.4	5873.1	5785.2	5682.6	5509.5	5117.6	4547.1	4205.4
17.5°	4342.8	4727.4	5217.3	5461.9	5418.8	5266.0	5236.6	5255.8	5161.5	4720.1	4326.3
20°	4731.2	5192.6	5507.8	5387.7	5073.6	4863.0	4870.3	5164.2	5443.7	5158.7	4709.1
22.5°	5276.0	5802.6	5926.2	5427.1	4928.0	4677.9	4738.5	5214.6	5893.2	5799.8	5225.7
25°	5981.2	6461.0	6372.2	5570.0	4942.7	4700.9	4749.4	5388.6	6424.5	6441.0	5864.9
27.5°	6664.4	7109.5	6746.8	5759.6	5003.1	4755.0	4819.0	5662.5	6931.9	7137.0	6595.7
30°	7197.4	7506.9	6895.2	5932.7	5122.2	4860.2	4939.9	5922.6	7162.6	7606.7	7158.0
32.5°	7638.9	7861.3	7131.5	6146.9	5341.0	5026.0	5166.1	6238.4	7495.0	8053.7	7708.5
35°	8202.9	8266.1	7425.5	6385.9	5679.0	5314.5	5488.5	6548.1	7811.9	8505.2	8250.6
37.5°	8864.2	8782.7	7702.9	6712.9	6115.8	5765.9	5909.8	6887.8	8072.9	9017.0	8804.6
40°	9518.0	9322.1	8050.9	7220.3	6753.2	6298.0	6468.3	7250.6	8316.5	9529.9	9345.9
42.5°	10073.9	9783.6	8394.4	7778.0	7346.7	6885.1	7088.4	7615.9	8549.1	9967.7	9815.8
45°	10485.2	10124.3	8721.3	8313.7	8164.5	7665.4	7761.6	8034.5	8801.0	10333.0	10202.2
47.5°	10852.4	10466.8	9091.3	8854.1	8879.7	8680.1	8525.3	8521.6	9097.7	10631.7	10567.5
50°	11344.2	10942.1	9488.7	9410.9	9953.1	9820.3	9478.7	9090.4	9473.3	10970.5	10963.2
52.5°	12021.9	11695.0	9974.2	10010.8	10955.0	11042.0	10618.9	9773.6	10061.1	11592.4	11548.3
55°	12823.2	12632.8	10635.4	10700.5	12184.0	12246.4	11825.9	10627.9	10925.7	12492.6	12370.8
57.5°	13448.7	13408.4	11360.7	11528.3	13101.6	13381.8	12995.4	11617.1	11900.1	13251.0	12945.0
60°	13697.9	13892.9	12132.7	12363.4	13950.6	14261.1	13922.3	12486.2	12763.6	13565.1	12905.7
62.5°	13563.2	13999.2	12955.1	12935.9	14140.3	14474.4	14236.4	12969.7	13403.8	13240.8	12252.7
65°	12941.3	13617.2	13432.3	12788.5	13491.8	13519.3	13442.2	12753.7	13554.9	12216.1	10990.7
67.5°	11586.8	12559.5	12804.0	11524.5	11742.5	11564.0	11434.8	11570.4	12767.4	10680.2	9236.9
70°	9437.5	10900.9	11018.1	9217.6	9118.8	8998.8	8741.4	9486.0	11213.3	8753.3	7329.2
72.5°	6939.2	8477.7	8837.7	6760.5	6302.6	6327.3	6124.1	7148.9	9116.9	6502.2	5472.0
75°	4747.6	6138.7	6914.4	4717.4	4167.9	4178.0	4152.3	5065.4	7261.5	4523.3	4094.6
77.5°	3468.2	4385.8	5214.6	3171.5	3078.9	3022.2	3008.5	3544.2	5567.2	3284.2	3179.7
80°	2783.2	3240.2	3503.0	2198.0	2363.8	2359.1	2283.1	2437.0	3635.8	2402.2	2378.3
82.5°	1930.5	2490.1	2838.1	1722.7	1595.3	1568.8	1587.1	1815.2	2569.8	1642.0	1561.5
85°	1018.4	1653.9	2810.5	1526.7	947.0	755.5	939.6	1486.4	2226.3	870.0	762.0
87.5°	130.0	478.0	1860.9	609.0	373.6	201.5	446.0	837.0	1429.5	177.6	154.8
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°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	6106.6	5984.9	5825.4	5678.1	5525.1	5373.1	5174.3	5049.9	4963.7	4947.3	4910.5
5°	5958.2	5553.5	5247.6	4983.0	4743.1	4404.1	4216.5	4060.7	3977.4	3969.2	3948.9
7.5°	5274.2	4715.5	4302.5	3928.0	3588.2	3314.4	3012.1	2871.2	2813.4	2827.1	2840.8
10°	4562.5	3938.0	3463.6	3080.8	2781.3	2550.5	2307.9	2143.8	2030.4	2007.4	2002.9
12.5°	4042.4	3357.4	2896.7	2626.6	2394.9	2177.7	1920.4	1727.3	1579.8	1529.4	1495.5
15°	3822.7	3073.5	2590.9	2299.6	2044.1	1768.5	1529.4	1327.1	1191.5	1147.5	1122.7
17.5°	3869.3	2994.7	2380.2	2007.4	1680.5	1392.9	1091.6	918.6	837.0	815.9	815.9
20°	4114.7	2980.0	2206.2	1738.2	1330.7	997.3	750.1	651.1	624.6	621.8	629.2
22.5°	4459.1	3031.4	2076.2	1504.7	1033.9	728.1	584.3	547.6	535.7	538.5	546.8
25°	4972.0	3204.5	1981.9	1296.8	811.4	596.2	521.0	499.1	493.7	501.0	511.0
27.5°	5580.1	3377.5	1923.2	1140.2	685.0	544.8	495.5	472.5	476.3	485.3	494.5
30°	6113.9	3519.5	1830.7	1028.4	645.6	547.6	495.5	464.4	460.6	462.5	465.2
32.5°	6592.9	3615.6	1722.7	922.2	556.7	486.3	462.5	457.9	437.8	430.5	431.3
35°	7006.0	3615.6	1657.6	860.0	499.1	431.3	392.9	370.0	359.9	360.9	370.9
37.5°	7404.4	3543.3	1625.6	825.1	467.9	410.3	376.4	356.3	342.5	339.8	341.6
40°	7756.0	3438.0	1588.9	810.4	444.1	397.4	365.4	349.0	334.3	329.8	330.6
42.5°	8038.1	3352.8	1548.6	791.2	429.5	388.3	358.1	343.4	326.9	322.4	321.4
45°	8343.0	3324.4	1495.5	752.8	436.8	389.2	356.3	340.7	324.2	318.7	316.9
47.5°	8745.1	3413.3	1440.6	707.0	452.5	393.8	359.0	340.7	323.3	318.7	316.9
50°	9251.5	3622.1	1370.9	640.1	436.8	406.7	358.1	337.9	323.3	318.7	315.0
52.5°	9901.8	3904.2	1279.4	563.2	427.6	437.8	356.3	332.4	318.7	312.3	305.9
55°	10692.1	4134.9	1170.3	500.1	406.7	429.5	353.5	326.0	311.4	302.2	296.7
57.5°	11270.9	4218.3	1030.4	458.8	377.3	415.7	349.8	317.8	302.2	294.9	287.6
60°	11156.5	4057.1	912.2	433.2	359.9	375.6	347.1	310.6	294.0	288.5	282.1
62.5°	10239.7	3635.8	836.2	421.3	349.0	342.5	349.8	303.0	286.7	281.2	279.3
65°	8865.1	3013.9	805.9	418.6	339.8	323.3	325.1	294.9	278.4	273.8	271.9
67.5°	7312.8	2432.4	779.3	427.6	327.9	309.5	300.4	283.8	270.2	265.6	261.9
70°	5766.9	2023.1	767.4	422.2	313.2	295.8	285.7	271.9	260.0	255.5	252.7
72.5°	4644.1	1709.0	761.0	416.8	294.0	277.5	268.3	256.4	243.6	241.8	239.1
75°	3929.7	1343.5	697.0	399.4	271.9	255.5	249.1	238.0	225.3	225.3	223.4
77.5°	3031.4	971.7	579.7	353.5	249.1	230.7	225.3	217.1	202.3	205.2	204.2
80°	2239.2	633.7	453.3	293.1	220.7	203.3	200.6	192.3	176.8	180.4	180.4
82.5°	1534.0	415.7	326.0	240.0	188.7	172.2	172.2	163.9	146.5	148.4	153.8
85°	770.2	285.7	243.6	186.0	146.5	138.3	138.3	131.8	114.5	115.4	122.7
87.5°	234.5	172.2	161.1	132.8	105.3	103.5	98.9	94.3	83.4	82.4	87.0
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°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	4854.7	4802.5	4739.3	4600.2	4553.4	4550.6	4592.8	4548.9	4633.1	4597.4	4636.8
5°	3915.1	3863.9	3793.3	3615.6	3507.6	3434.3	3399.5	3296.9	3371.0	3317.1	3361.9
7.5°	2879.3	2891.2	2844.6	2740.1	2504.8	2386.7	2317.1	2254.8	2308.7	2303.3	2389.4
10°	2023.9	2056.0	2023.1	1917.7	1727.3	1662.2	1675.1	1699.7	1770.2	1806.9	1939.7
12.5°	1457.1	1455.3	1434.1	1339.8	1214.4	1221.7	1273.9	1316.9	1381.9	1420.5	1556.0
15°	1088.0	1071.5	1062.3	985.4	914.0	929.6	955.2	959.8	1001.1	1023.9	1133.8
17.5°	822.4	830.7	840.7	785.8	731.7	721.6	701.6	676.8	688.7	693.2	748.2
20°	653.0	685.9	710.6	672.2	617.2	588.0	562.3	545.9	545.9	544.8	560.5
22.5°	570.6	594.4	620.9	594.4	544.8	519.3	504.6	491.7	489.9	489.9	504.6
25°	525.6	543.1	568.7	550.4	513.7	494.5	480.8	464.4	457.9	456.0	466.1
27.5°	503.6	511.0	523.9	507.4	476.3	467.1	463.4	448.7	440.6	436.0	446.0
30°	466.1	464.4	465.2	448.7	424.0	423.1	429.5	432.2	429.5	428.7	444.1
32.5°	431.3	427.6	426.7	412.1	389.2	383.7	389.2	394.8	401.1	410.3	428.7
35°	387.5	396.5	402.1	389.2	361.7	345.3	338.8	328.8	323.3	323.3	344.3
37.5°	352.6	373.6	381.9	370.0	339.8	316.9	305.9	304.1	305.0	308.6	328.8
40°	340.7	356.3	363.7	351.7	321.4	300.4	294.0	292.2	294.0	299.5	319.6
42.5°	333.3	344.3	343.4	328.8	304.1	289.4	285.7	283.8	285.7	291.1	313.2
45°	326.9	334.3	326.9	309.5	286.7	279.3	280.2	279.3	281.2	286.7	307.7
47.5°	321.4	324.2	315.0	297.6	273.8	271.9	275.7	278.4	280.2	284.8	306.8
50°	313.2	313.2	305.0	286.7	262.9	263.8	268.3	274.8	275.7	281.2	298.6
52.5°	303.0	302.2	296.7	279.3	253.7	256.4	256.4	263.8	265.6	271.9	290.3
55°	294.9	293.1	290.3	273.8	245.4	249.9	247.3	249.9	254.6	261.0	281.2
57.5°	287.6	283.8	283.8	269.3	239.1	240.8	234.5	238.0	243.6	249.1	270.2
60°	280.2	276.5	278.4	262.9	229.0	227.2	224.4	231.7	233.5	240.0	261.0
62.5°	271.9	269.3	270.2	255.5	221.6	217.1	217.1	223.4	224.4	233.5	253.7
65°	265.6	261.9	261.0	248.2	213.4	207.9	210.7	213.4	215.2	224.4	243.6
67.5°	259.2	251.9	251.9	241.8	204.2	198.8	204.2	203.3	206.1	214.2	229.9
70°	251.0	240.8	241.8	237.2	195.0	188.7	193.3	192.3	194.2	199.6	215.2
72.5°	238.0	229.9	231.7	229.9	186.0	176.8	178.5	178.5	178.5	183.1	199.6
75°	221.6	215.2	220.7	225.3	175.0	162.1	163.9	163.9	161.1	163.9	184.1
77.5°	201.5	197.9	216.2	209.7	162.1	146.5	146.5	144.7	139.2	142.9	164.9
80°	179.5	176.8	199.6	175.8	147.5	127.3	125.4	120.8	115.4	118.1	140.1
82.5°	156.6	153.8	167.6	134.6	127.3	105.3	100.7	92.6	87.0	89.7	110.0
85°	128.2	128.2	129.2	101.6	97.0	80.7	75.1	64.1	57.7	59.5	78.7
87.5°	91.6	94.3	87.0	69.6	57.7	44.9	41.2	34.9	29.3	33.9	41.2
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-05-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	4838.2	4938.9	5053.5	5199.9	5325.6	5531.5	5729.3	5848.4
5°	3617.5	3785.1	3993.9	4262.2	4512.2	4887.7	5260.4	5499.4
7.5°	2589.0	2768.5	2993.8	3329.0	3682.5	4161.4	4654.1	4939.9
10°	2142.1	2326.1	2515.7	2742.0	3031.4	3552.4	4134.9	4457.2
12.5°	1772.0	1969.0	2173.2	2411.4	2679.7	3144.9	3816.2	4187.2
15°	1356.4	1576.1	1817.0	2118.3	2454.4	2991.9	3737.4	4140.4
17.5°	929.6	1175.0	1470.8	1842.6	2253.8	2942.5	3878.4	4342.8
20°	640.1	818.8	1134.6	1570.6	2065.1	2936.2	4149.5	4731.2
22.5°	535.7	615.4	846.2	1320.6	1923.2	3014.9	4569.9	5276.0
25°	495.5	543.1	675.9	1103.5	1819.7	3196.2	5148.8	5981.2
27.5°	471.7	514.7	613.6	961.6	1738.2	3406.8	5712.0	6664.4
30°	480.8	524.8	596.2	889.3	1627.4	3582.7	6211.9	7197.4
32.5°	433.2	452.5	511.0	825.1	1547.7	3730.1	6649.7	7638.9
35°	369.1	402.9	456.0	795.0	1549.6	3829.0	7126.9	8202.9
37.5°	351.7	385.5	424.0	783.9	1570.6	3934.3	7674.5	8864.2
40°	340.7	371.8	404.8	777.5	1590.9	4030.5	8211.2	9518.0
42.5°	333.3	361.7	402.9	755.5	1600.8	4116.6	8652.6	10073.9
45°	332.4	361.7	410.3	733.5	1616.4	4209.1	9022.6	10485.2
47.5°	333.3	373.6	396.5	707.0	1616.4	4363.9	9456.7	10852.4
50°	329.8	393.8	381.9	669.4	1578.9	4656.9	10052.0	11344.2
52.5°	327.9	391.0	353.5	611.8	1513.8	5122.2	10814.8	12021.9
55°	323.3	377.3	333.3	525.6	1437.9	5629.5	11631.7	12823.2
57.5°	318.7	334.3	322.4	450.5	1320.6	5986.7	12194.1	13448.7
60°	357.2	292.2	313.2	414.0	1164.0	6084.6	12172.1	13697.9
62.5°	330.6	273.8	301.3	405.7	1054.2	5810.0	11609.8	13563.2
65°	259.2	261.9	289.4	429.5	1024.8	5081.8	10613.3	12941.3
67.5°	237.2	249.9	277.5	459.8	1027.6	4069.0	9124.2	11586.8
70°	223.4	237.2	263.8	475.3	1034.9	3033.1	7213.9	9437.5
72.5°	207.9	219.8	248.2	478.0	987.2	2203.4	5559.8	6939.2
75°	189.6	200.6	226.1	416.8	817.8	1528.5	4253.0	4747.6
77.5°	168.5	176.8	198.8	321.4	607.2	978.1	3192.5	3468.2
80°	143.7	148.4	166.7	235.4	415.7	611.8	2525.8	2783.2
82.5°	115.4	117.2	129.2	176.8	270.2	392.9	1691.6	1930.5
85°	81.5	81.5	88.8	128.2	184.1	249.1	918.6	1018.4
87.5°	38.5	39.4	39.4	70.5	96.1	126.4	211.5	130.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)