

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: P193834

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193834
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 25529 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

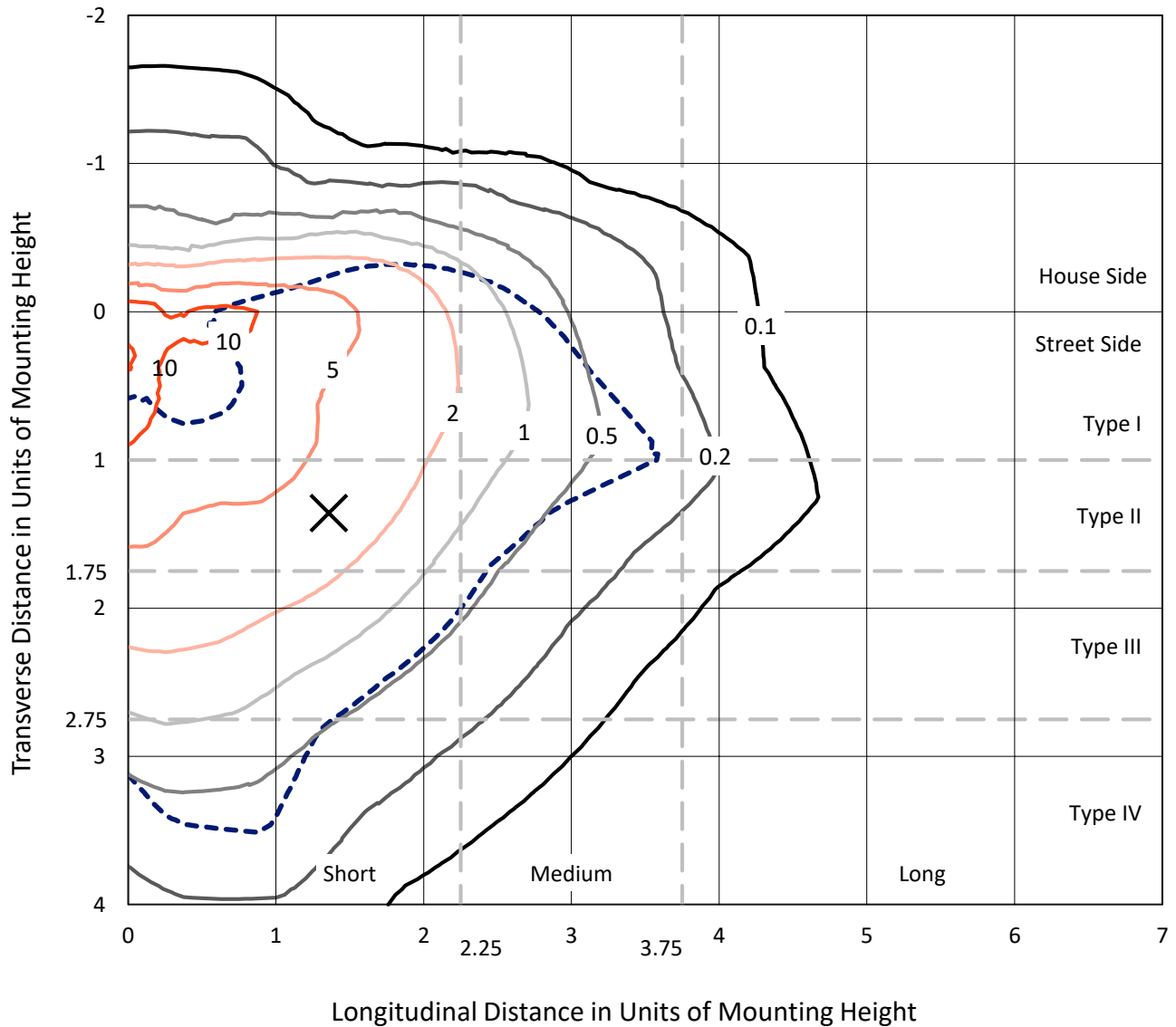
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

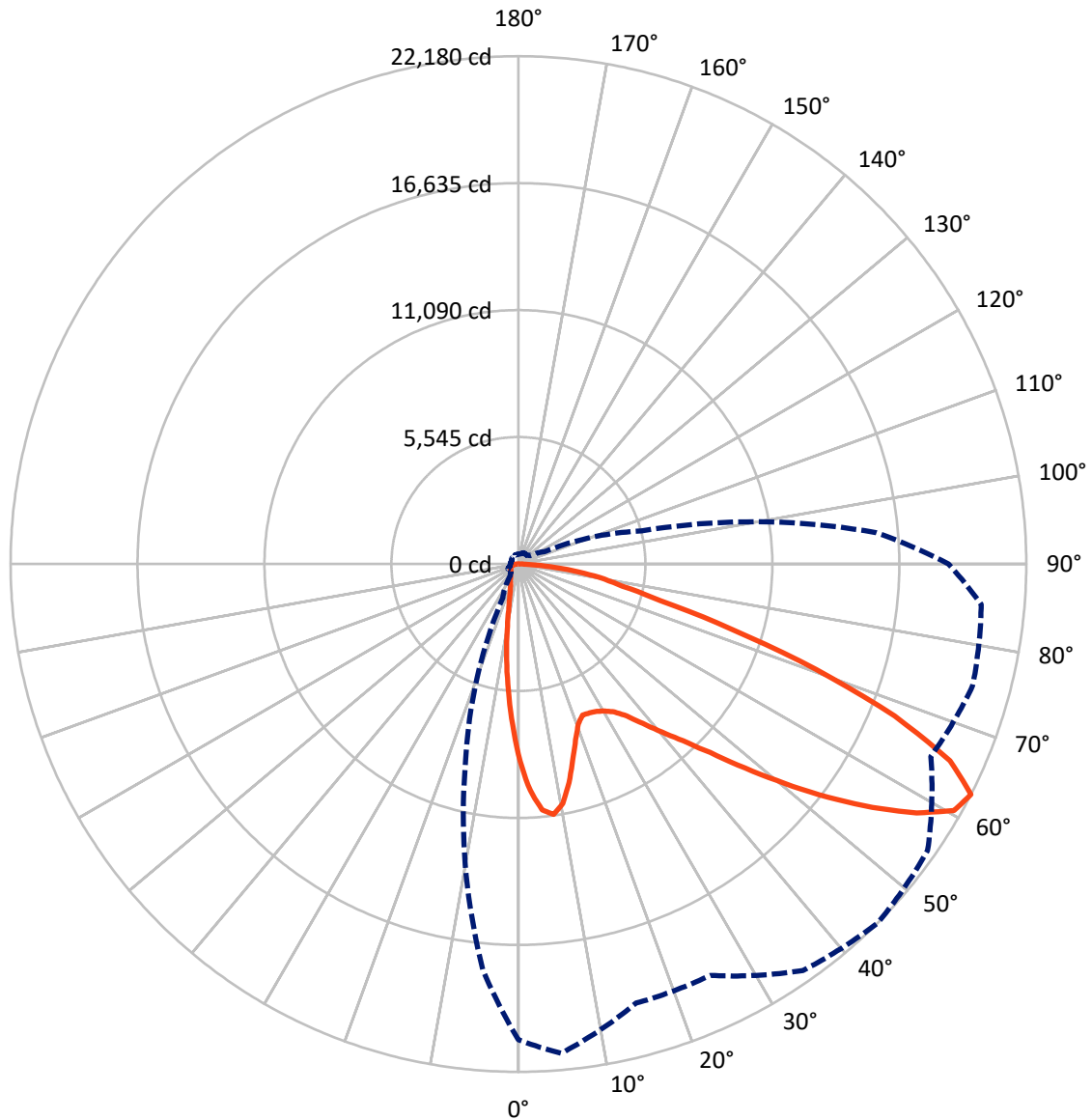
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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	4224.7	0.0	4224.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21304.3	0.0	21304.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	25529.0	0.0	25529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.9	2.5
10°-20°	1151.3	4.5
20°-30°	1678.6	6.6
30°-40°	2585.4	10.1
40°-50°	3805.0	14.9
50°-60°	5581.1	21.9
60°-70°	6238.8	24.4
70°-80°	3054.4	12.0
80°-90°	806.4	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°	25529.0	100.0
0°-180°	25529.0	100.0

Coefficient of Utilization



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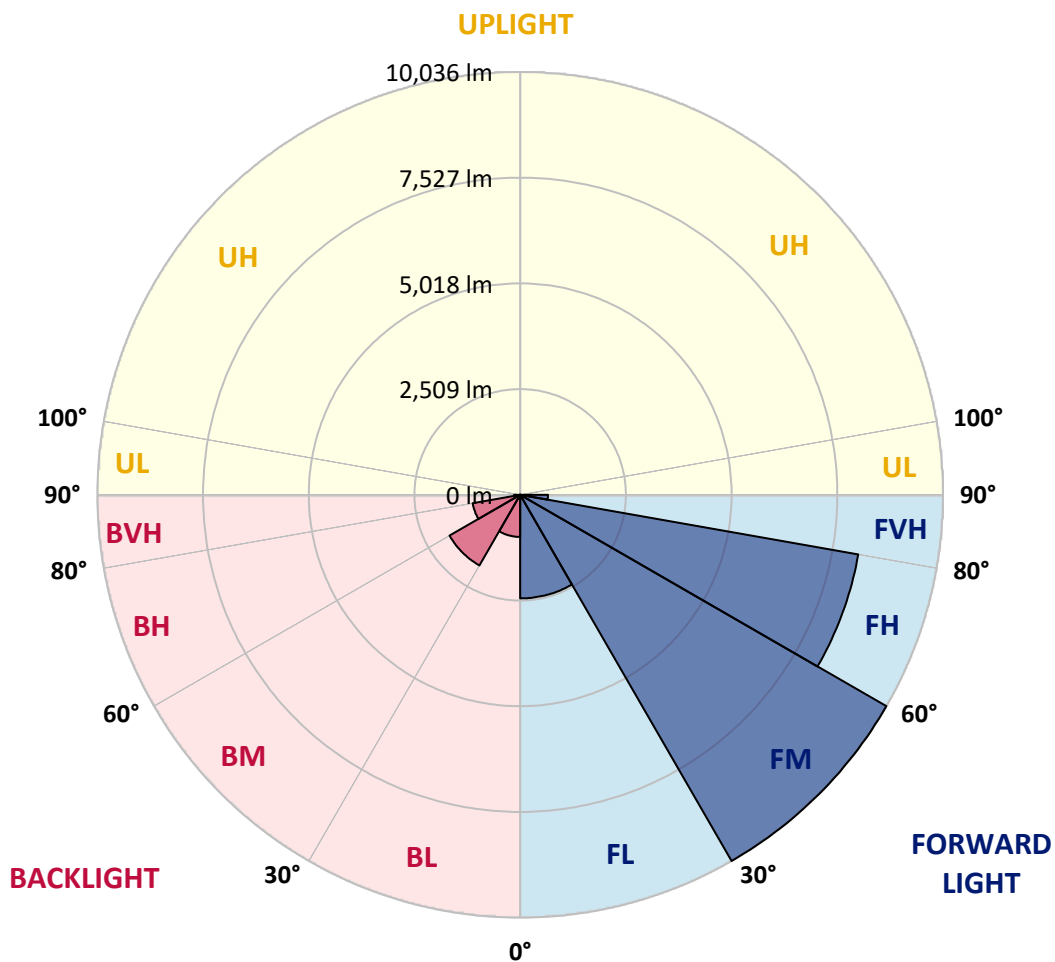
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2458.4	9.6			
FM	(30°-60°)	10035.7	39.3			
FH	(60°-80°)	8148.0	31.9			G4/12000
FVH	(80°-90°)	662.3	2.6			G4/750
BL	(0°-30°)	999.5	3.9	B2/1000		
BM	(30°-60°)	1935.7	7.6	B2/2500		
BH	(60°-80°)	1145.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	144.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	8961.9	9105.0	9384.3	9593.4	9847.4	9906.3	9987.7	9907.7	9766.0	9578.0	9516.2
5°	8427.2	8733.1	9411.0	10007.4	10537.9	10784.8	10853.6	10650.1	10238.9	9698.6	9368.9
7.5°	7569.7	8004.8	8922.6	9801.1	10582.8	11044.5	11033.2	10560.3	9803.9	8924.0	8394.9
10°	6830.2	7327.0	8379.5	9361.8	10191.2	10638.9	10466.3	9861.4	8959.1	7945.8	7371.9
12.5°	6416.2	6903.1	7971.1	8957.7	9650.9	9805.3	9673.4	9081.2	8230.7	7206.3	6703.9
15°	6344.6	6879.3	7808.3	8611.0	8999.8	8865.0	8707.9	8442.6	7842.0	6967.7	6444.2
17.5°	6654.7	7244.2	7995.0	8369.7	8303.7	8069.3	8024.4	8053.9	7909.4	7232.9	6629.5
20°	7249.8	7957.1	8439.8	8256.0	7774.6	7451.9	7463.1	7913.6	8341.6	7905.1	7216.1
22.5°	8084.8	8891.7	9081.2	8316.3	7551.5	7168.4	7261.0	7990.8	9030.6	8887.5	8007.6
25°	9165.4	9900.7	9764.6	8535.3	7574.0	7203.5	7277.8	8257.4	9844.6	9869.9	8987.1
27.5°	10212.3	10894.3	10338.6	8825.8	7666.6	7286.3	7384.5	8677.0	10622.1	10936.4	10107.0
30°	11029.0	11503.4	10565.9	9091.0	7849.0	7447.6	7569.7	9075.6	10975.7	11656.3	10968.7
32.5°	11705.5	12046.5	10928.0	9419.4	8184.4	7701.7	7916.4	9559.7	11485.1	12341.2	11812.1
35°	12569.9	12666.8	11378.5	9785.7	8702.3	8143.7	8410.4	10034.0	11970.7	13033.0	12642.9
37.5°	13583.2	13458.3	11803.7	10286.7	9371.7	8835.6	9055.9	10554.7	12370.6	13817.5	13491.9
40°	14585.2	14284.8	12337.0	11064.1	10348.4	9650.9	9912.0	11110.4	12743.9	14603.4	14321.3
42.5°	15437.0	14992.1	12863.2	11918.8	11257.8	10550.5	10862.0	11670.4	13100.4	15274.2	15041.2
45°	16067.1	15514.2	13364.2	12739.7	12511.0	11746.2	11893.5	12311.7	13486.3	15834.1	15633.5
47.5°	16629.9	16039.0	13931.2	13567.7	13607.0	13301.1	13063.9	13058.3	13941.0	16291.6	16193.4
50°	17383.5	16767.4	14540.2	14421.0	15251.8	15048.3	14524.8	13929.8	14516.4	16810.9	16799.7
52.5°	18422.0	17921.0	15284.0	15340.2	16787.0	16920.4	16272.0	14976.7	15417.4	17763.8	17696.4
55°	19649.9	19358.0	16297.3	16396.9	18670.3	18765.8	18121.6	16286.0	16742.1	19143.3	18956.6
57.5°	20608.4	20546.6	17408.7	17665.5	20076.5	20505.9	19913.7	17801.7	18235.3	20305.3	19836.5
60°	20990.1	21289.0	18591.8	18945.4	21377.4	21853.2	21333.9	19133.5	19558.7	20786.6	19776.2
62.5°	20783.8	21451.8	19852.0	19822.5	21667.9	22180.2	21815.3	19874.4	20539.6	20289.8	18775.6
65°	19830.9	20866.6	20583.1	19596.6	20674.3	20716.5	20598.6	19543.2	20771.2	18719.5	16841.8
67.5°	17755.4	19245.7	19620.4	17659.9	17993.9	17720.3	17522.4	17730.1	19564.3	16366.0	14154.3
70°	14461.7	16704.2	16883.9	14124.9	13973.3	13789.4	13395.1	14536.0	17182.8	13413.3	11231.1
72.5°	10633.3	12990.9	13542.5	10359.6	9657.9	9695.8	9384.3	10954.7	13970.5	9963.9	8385.1
75°	7275.0	9406.7	10595.4	7228.7	6386.7	6402.1	6362.8	7762.0	11127.3	6931.2	6274.4
77.5°	5314.5	6720.7	7990.8	4859.8	4718.1	4631.1	4610.0	5431.0	8531.0	5032.5	4872.5
80°	4264.8	4965.1	5367.9	3368.1	3622.1	3615.1	3498.6	3734.3	5571.4	3681.0	3644.5
82.5°	2958.3	3815.7	4349.0	2639.7	2444.7	2404.0	2432.0	2781.5	3937.8	2516.2	2392.7
85°	1560.5	2534.5	4306.9	2339.4	1451.1	1157.8	1439.9	2277.7	3411.6	1333.2	1167.6
87.5°	199.3	732.6	2851.6	933.2	572.6	308.7	683.4	1282.7	2190.7	272.3	237.2
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°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	9357.6	9171.0	8926.8	8700.9	8466.5	8233.5	7929.0	7738.1	7606.2	7581.0	7524.8
5°	9130.3	8510.0	8041.3	7635.7	7268.0	6748.8	6461.1	6222.5	6094.8	6082.2	6051.3
7.5°	8082.0	7225.9	6593.0	6019.0	5498.4	5078.8	4615.7	4399.5	4311.1	4332.2	4353.2
10°	6991.6	6034.5	5307.5	4720.9	4262.0	3908.4	3536.5	3285.3	3111.3	3076.2	3069.2
12.5°	6194.4	5144.7	4438.8	4024.8	3669.8	3337.2	2942.9	2646.7	2420.8	2343.6	2291.7
15°	5857.6	4709.7	3970.1	3523.8	3132.3	2709.9	2343.6	2033.5	1825.8	1758.4	1720.5
17.5°	5929.2	4589.0	3647.3	3076.2	2575.2	2134.5	1672.8	1407.6	1282.7	1250.4	1250.4
20°	6305.3	4566.5	3380.7	2663.6	2039.1	1528.3	1149.4	997.8	957.1	952.9	964.1
22.5°	6833.0	4645.1	3181.4	2305.7	1584.4	1115.7	895.3	839.2	821.0	825.2	837.8
25°	7618.9	4910.4	3036.9	1987.2	1243.4	913.6	798.5	764.8	756.4	767.6	783.1
27.5°	8550.7	5175.6	2947.1	1747.2	1049.7	835.0	759.2	724.1	729.7	743.8	757.8
30°	9368.9	5393.1	2805.3	1576.0	989.4	839.2	759.2	711.5	705.9	708.7	712.9
32.5°	10102.8	5540.5	2639.7	1413.2	853.2	745.2	708.7	701.7	670.8	659.6	661.0
35°	10735.7	5540.5	2540.1	1317.8	764.8	661.0	602.0	567.0	551.5	552.9	568.4
37.5°	11346.2	5429.6	2491.0	1264.4	717.1	628.7	576.8	545.9	524.9	520.6	523.5
40°	11885.1	5268.2	2434.8	1242.0	680.6	609.1	559.9	534.7	512.2	505.2	506.6
42.5°	12317.3	5137.7	2373.1	1212.5	658.2	595.0	548.7	526.3	501.0	494.0	492.6
45°	12784.6	5094.2	2291.7	1153.6	669.4	596.4	545.9	522.1	496.8	488.4	485.6
47.5°	13400.7	5230.3	2207.5	1083.4	693.3	603.4	550.1	522.1	495.4	488.4	485.6
50°	14176.8	5550.3	2100.8	981.0	669.4	623.1	548.7	517.8	495.4	488.4	482.8
52.5°	15173.2	5982.5	1960.5	863.1	655.4	670.8	545.9	509.4	488.4	478.5	468.7
55°	16384.3	6336.2	1793.5	766.2	623.1	658.2	541.7	499.6	477.1	463.1	454.7
57.5°	17271.2	6463.9	1578.8	703.1	578.2	637.1	536.1	487.0	463.1	451.9	440.7
60°	17095.8	6216.9	1397.7	663.8	551.5	575.4	531.9	475.7	450.5	442.1	432.2
62.5°	15691.0	5571.4	1281.3	645.5	534.7	524.9	536.1	464.5	439.3	430.8	428.0
65°	13584.6	4618.5	1235.0	641.3	520.6	495.4	498.2	451.9	426.6	419.6	416.8
67.5°	11205.9	3727.3	1194.3	655.4	502.4	474.3	460.3	435.0	414.0	407.0	401.4
70°	8837.0	3100.0	1176.0	647.0	480.0	453.3	437.8	416.8	398.6	391.5	387.3
72.5°	7116.5	2618.7	1166.2	638.5	450.5	425.2	411.2	392.9	373.3	370.5	366.3
75°	6021.8	2058.7	1068.0	611.9	416.8	391.5	381.7	364.9	345.2	345.2	342.4
77.5°	4645.1	1489.0	888.3	541.7	381.7	353.6	345.2	332.6	310.1	314.4	313.0
80°	3431.2	971.1	694.7	449.1	338.2	311.5	307.3	294.7	270.8	276.5	276.5
82.5°	2350.6	637.1	499.6	367.7	289.1	263.8	263.8	251.2	224.5	227.3	235.8
85°	1180.2	437.8	373.3	284.9	224.5	211.9	211.9	202.1	175.4	176.8	188.1
87.5°	359.3	263.8	247.0	203.5	161.4	158.6	151.6	144.5	127.7	126.3	133.3
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°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	7439.2	7359.2	7262.4	7049.1	6977.5	6973.3	7037.9	6970.5	7099.6	7044.9	7105.2
5°	5999.4	5920.8	5812.7	5540.5	5374.9	5262.6	5209.3	5052.1	5165.8	5083.0	5151.7
7.5°	4412.2	4430.4	4358.8	4198.9	3838.2	3657.2	3550.5	3455.1	3537.9	3529.5	3661.4
10°	3101.4	3150.6	3100.0	2938.6	2646.7	2547.1	2566.8	2604.6	2712.7	2768.8	2972.3
12.5°	2232.8	2229.9	2197.7	2053.1	1860.9	1872.1	1952.1	2018.0	2117.7	2176.6	2384.3
15°	1667.2	1641.9	1627.9	1510.0	1400.6	1424.4	1463.7	1470.7	1533.9	1569.0	1737.4
17.5°	1260.2	1272.9	1288.3	1204.1	1121.3	1105.9	1075.0	1037.1	1055.3	1062.3	1146.5
20°	1000.6	1051.1	1089.0	1030.1	945.9	901.0	861.7	836.4	836.4	835.0	858.9
22.5°	874.3	910.8	951.5	910.8	835.0	795.7	773.3	753.6	750.8	750.8	773.3
25°	805.5	832.2	871.5	843.4	787.3	757.8	736.8	711.5	701.7	698.9	714.3
27.5°	771.8	783.1	802.7	777.5	729.7	715.7	710.1	687.6	675.0	668.0	683.4
30°	714.3	711.5	712.9	687.6	649.8	648.4	658.2	662.4	658.2	656.8	680.6
32.5°	661.0	655.4	654.0	631.5	596.4	588.0	596.4	604.8	614.7	628.7	656.8
35°	593.6	607.7	616.1	596.4	554.3	529.1	519.2	503.8	495.4	495.4	527.7
37.5°	540.3	572.6	585.2	567.0	520.6	485.6	468.7	465.9	467.3	472.9	503.8
40°	522.1	545.9	557.1	538.9	492.6	460.3	450.5	447.7	450.5	458.9	489.8
42.5°	510.8	527.7	526.3	503.8	465.9	443.5	437.8	435.0	437.8	446.3	480.0
45°	501.0	512.2	501.0	474.3	439.3	428.0	429.4	428.0	430.8	439.3	471.5
47.5°	492.6	496.8	482.8	456.1	419.6	416.8	422.4	426.6	429.4	436.4	470.1
50°	480.0	480.0	467.3	439.3	402.8	404.2	411.2	421.0	422.4	430.8	457.5
52.5°	464.5	463.1	454.7	428.0	388.7	392.9	392.9	404.2	407.0	416.8	444.9
55°	451.9	449.1	444.9	419.6	376.1	383.1	378.9	383.1	390.1	400.0	430.8
57.5°	440.7	435.0	435.0	412.6	366.3	369.1	359.3	364.9	373.3	381.7	414.0
60°	429.4	423.8	426.6	402.8	350.8	348.0	343.8	355.1	357.9	367.7	400.0
62.5°	416.8	412.6	414.0	391.5	339.6	332.6	332.6	342.4	343.8	357.9	388.7
65°	407.0	401.4	400.0	380.3	327.0	318.6	322.8	327.0	329.8	343.8	373.3
67.5°	397.2	385.9	385.9	370.5	313.0	304.5	313.0	311.5	315.8	328.4	352.2
70°	384.5	369.1	370.5	363.5	298.9	289.1	296.1	294.7	297.5	305.9	329.8
72.5°	364.9	352.2	355.1	352.2	284.9	270.8	273.7	273.7	273.7	280.7	305.9
75°	339.6	329.8	338.2	345.2	268.0	248.4	251.2	251.2	247.0	251.2	282.1
77.5°	308.7	303.1	331.2	321.4	248.4	224.5	224.5	221.7	213.3	218.9	252.6
80°	275.1	270.8	305.9	269.4	225.9	195.1	192.3	185.2	176.8	181.0	214.7
82.5°	240.0	235.8	256.8	206.3	195.1	161.4	154.4	141.7	133.3	137.5	168.4
85°	196.5	196.5	197.9	155.8	148.8	123.5	115.1	98.2	88.4	91.2	120.7
87.5°	140.3	144.5	133.3	106.7	88.4	68.8	63.2	53.3	44.9	51.9	63.2
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-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	7414.0	7568.3	7743.8	7968.3	8160.6	8476.3	8779.4	8961.9
5°	5543.3	5800.1	6120.1	6531.3	6914.4	7489.8	8060.9	8427.2
7.5°	3967.3	4242.4	4587.6	5101.2	5642.9	6376.9	7131.9	7569.7
10°	3282.5	3564.5	3855.0	4201.7	4645.1	5443.6	6336.2	6830.2
12.5°	2715.5	3017.2	3330.2	3695.1	4106.2	4819.1	5847.8	6416.2
15°	2078.4	2415.2	2784.3	3246.0	3761.0	4584.8	5727.1	6344.6
17.5°	1424.4	1800.5	2253.8	2823.6	3453.7	4509.0	5943.2	6654.7
20°	981.0	1254.6	1738.8	2406.8	3164.6	4499.2	6358.6	7249.8
22.5°	821.0	943.1	1296.7	2023.7	2947.1	4619.9	7002.8	8084.8
25°	759.2	832.2	1035.7	1691.1	2788.5	4897.7	7889.7	9165.4
27.5°	722.7	788.7	940.3	1473.5	2663.6	5220.5	8752.8	10212.3
30°	736.8	804.1	913.6	1362.7	2493.8	5490.0	9519.0	11029.0
32.5°	663.8	693.3	783.1	1264.4	2371.7	5715.9	10189.8	11705.5
35°	565.6	617.5	698.9	1218.1	2374.5	5867.5	10921.0	12569.9
37.5°	538.9	590.8	649.8	1201.3	2406.8	6028.8	11760.2	13583.2
40°	522.1	569.8	620.3	1191.5	2437.6	6176.2	12582.6	14585.2
42.5°	510.8	554.3	617.5	1157.8	2453.1	6308.1	13259.0	15437.0
45°	509.4	554.3	628.7	1124.1	2476.9	6449.9	13825.9	16067.1
47.5°	510.8	572.6	607.7	1083.4	2476.9	6687.0	14491.1	16629.9
50°	505.2	603.4	585.2	1025.9	2419.4	7136.1	15403.3	17383.5
52.5°	502.4	599.2	541.7	937.4	2319.8	7849.0	16572.3	18422.0
55°	495.4	578.2	510.8	805.5	2203.3	8626.5	17824.1	19649.9
57.5°	488.4	512.2	494.0	690.5	2023.7	9173.8	18685.8	20608.4
60°	547.3	447.7	480.0	634.3	1783.7	9323.9	18652.1	20990.1
62.5°	506.6	419.6	461.7	621.7	1615.3	8902.9	17790.4	20783.8
65°	397.2	401.4	443.5	658.2	1570.4	7787.3	16263.6	19830.9
67.5°	363.5	383.1	425.2	704.5	1574.6	6235.1	13981.7	17755.4
70°	342.4	363.5	404.2	728.3	1585.8	4647.9	11054.3	14461.7
72.5°	318.6	336.8	380.3	732.6	1512.8	3376.5	8519.8	10633.3
75°	290.5	307.3	346.6	638.5	1253.2	2342.2	6517.2	7275.0
77.5°	258.2	270.8	304.5	492.6	930.4	1498.8	4892.1	5314.5
80°	220.3	227.3	255.4	360.7	637.1	937.4	3870.5	4264.8
82.5°	176.8	179.6	197.9	270.8	414.0	602.0	2592.0	2958.3
85°	124.9	124.9	136.1	196.5	282.1	381.7	1407.6	1560.5
87.5°	58.9	60.3	60.3	108.1	147.4	193.7	324.2	199.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)