

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: P269331

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269331
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 18352.7 lumens
Efficiency: N/A
Efficacy: 87.4 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): 210
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

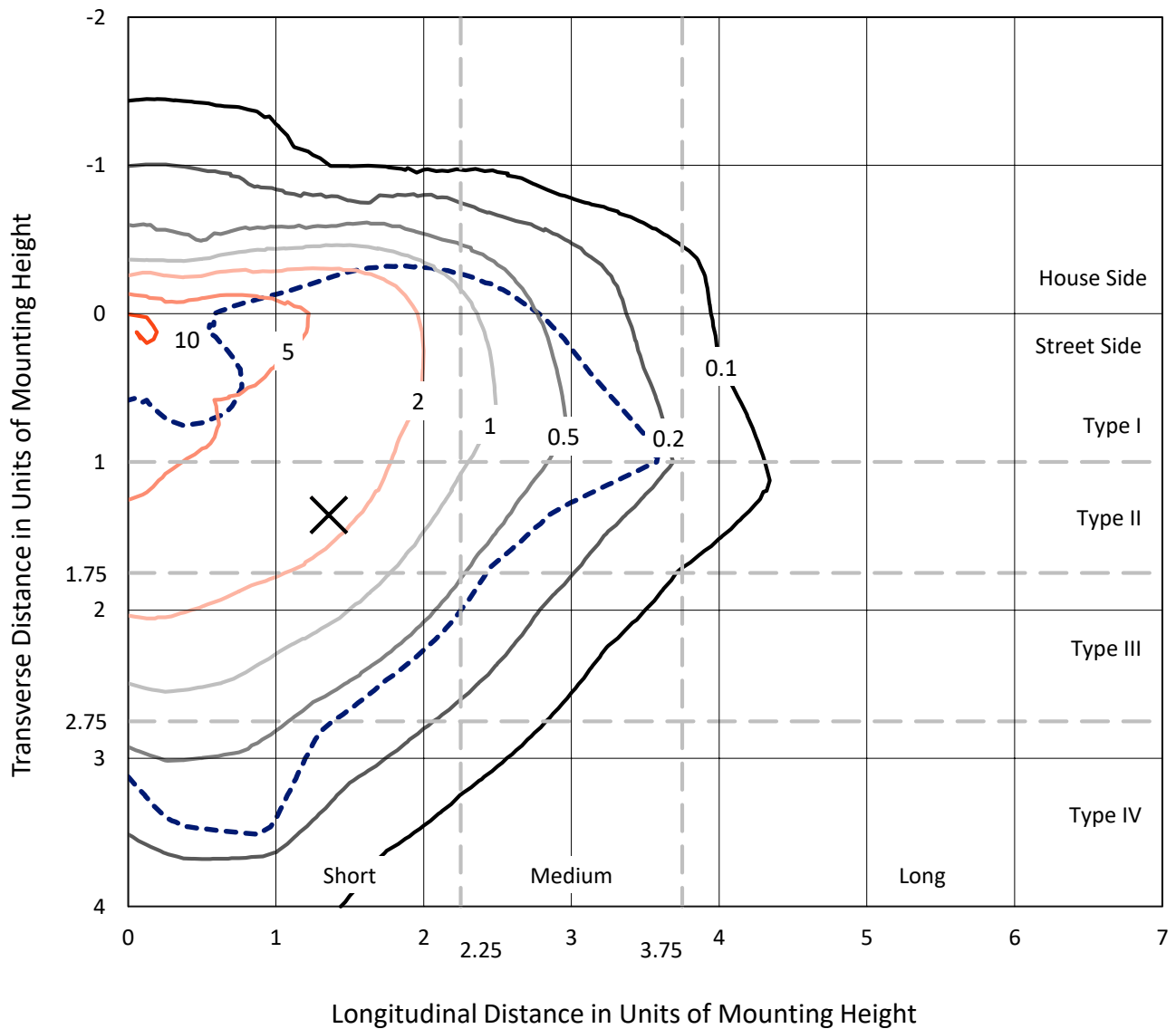


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Iso-Footcandle Lines of Horizontal Illumination

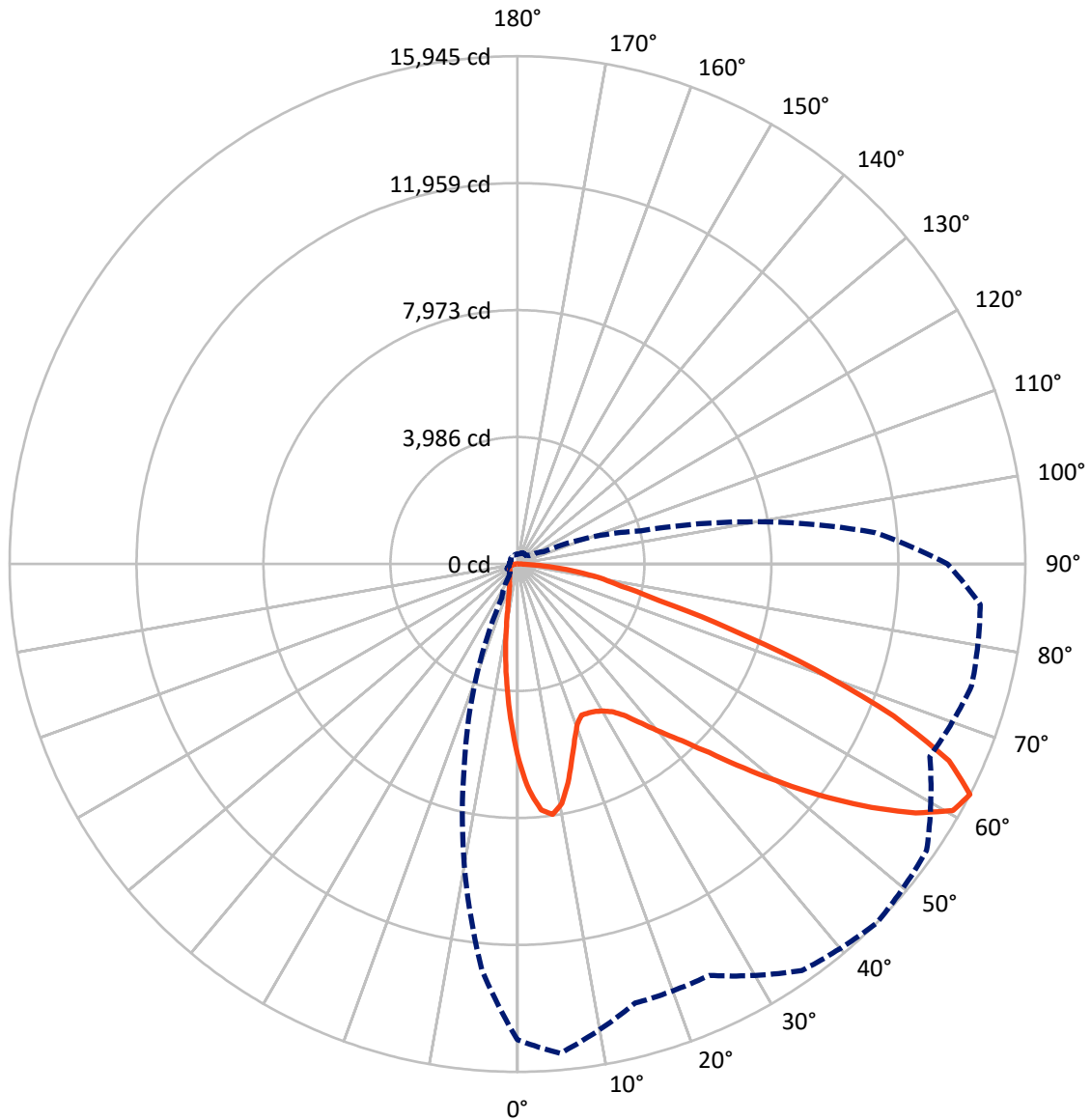
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	3037.1	0.0	3037.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15315.6	0.0	15315.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	18352.7	0.0	18352.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.4	2.5
10°-20°	827.7	4.5
20°-30°	1206.8	6.6
30°-40°	1858.6	10.1
40°-50°	2735.4	14.9
50°-60°	4012.2	21.9
60°-70°	4485.1	24.4
70°-80°	2195.8	12.0
80°-90°	579.8	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°	18352.7	100.0
0°-180°	18352.7	100.0

Coefficient of Utilization



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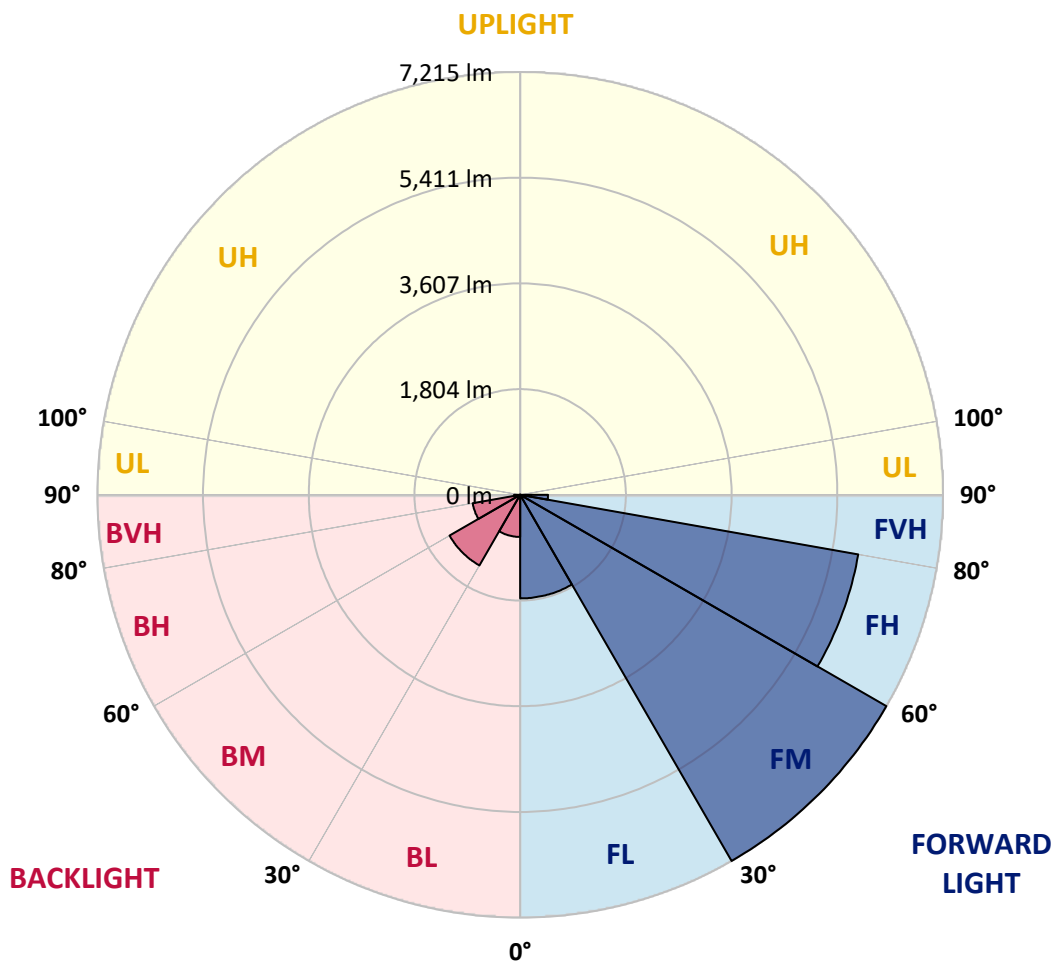
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1767.3	9.6			
FM (30°-60°)	7214.6	39.3			
FH (60°-80°)	5857.6	31.9			G3/7500
FVH (80°-90°)	476.1	2.6			G3/500
BL (0°-30°)	718.5	3.9	B2/1000		
BM (30°-60°)	1391.6	7.6	B2/2500		
BH (60°-80°)	823.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	103.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	6442.6	6545.6	6746.4	6896.6	7079.3	7121.7	7180.2	7122.7	7020.8	6885.6	6841.2
5°	6058.3	6278.3	6765.6	7194.3	7575.6	7753.2	7802.6	7656.3	7360.7	6972.4	6735.2
7.5°	5441.8	5754.6	6414.3	7045.9	7607.9	7939.8	7931.8	7591.8	7048.0	6415.4	6035.2
10°	4910.1	5267.3	6023.9	6730.2	7326.4	7648.3	7524.2	7089.3	6440.7	5712.2	5299.6
12.5°	4612.5	4962.6	5730.4	6439.6	6938.0	7049.0	6954.1	6528.4	5917.0	5180.5	4819.3
15°	4561.1	4945.4	5613.4	6190.5	6470.0	6373.0	6260.1	6069.4	5637.7	5009.0	4632.7
17.5°	4784.1	5207.8	5747.5	6016.9	5969.4	5801.1	5768.7	5789.9	5686.0	5199.7	4765.9
20°	5211.8	5720.2	6067.3	5935.2	5589.2	5357.1	5365.1	5689.1	5996.7	5682.9	5187.6
22.5°	5812.2	6392.2	6528.4	5978.6	5428.7	5153.3	5220.0	5744.5	6492.1	6389.1	5756.6
25°	6589.0	7117.6	7019.7	6136.0	5444.8	5178.5	5232.0	5936.2	7077.2	7095.4	6460.8
27.5°	7341.6	7832.0	7432.3	6344.8	5511.6	5238.0	5308.8	6237.9	7636.1	7862.1	7265.9
30°	7928.7	8269.7	7595.8	6535.4	5642.7	5354.1	5441.8	6524.4	7890.4	8379.7	7885.3
32.5°	8415.1	8660.2	7856.0	6771.6	5883.8	5536.8	5691.0	6872.5	8256.6	8872.0	8491.7
35°	9036.5	9106.1	8180.0	7034.8	6256.1	5854.6	6046.2	7213.5	8605.8	9369.4	9089.0
37.5°	9764.8	9675.0	8485.6	7395.0	6737.3	6351.8	6510.2	7587.8	8893.2	9933.4	9699.3
40°	10485.2	10269.3	8869.0	7954.0	7439.5	6938.0	7125.6	7987.3	9161.5	10498.3	10295.6
42.5°	11097.7	10777.9	9247.3	8568.4	8093.2	7584.7	7808.6	8389.8	9417.8	10980.6	10813.1
45°	11550.5	11153.0	9607.6	9158.6	8994.1	8444.2	8550.2	8850.8	9695.2	11383.1	11238.9
47.5°	11955.2	11530.5	10015.2	9753.7	9782.1	9562.1	9391.6	9387.6	10022.1	11712.0	11641.3
50°	12497.0	12054.0	10452.9	10367.2	10964.4	10818.2	10441.9	10014.0	10435.8	12085.3	12077.3
52.5°	13243.5	12883.3	10987.7	11028.0	12068.1	12163.9	11697.9	10766.6	11083.5	12770.3	12721.8
55°	14126.2	13916.5	11716.1	11787.6	13422.0	13490.7	13027.6	11708.0	12035.9	13762.0	13627.8
57.5°	14815.2	14770.9	12515.0	12699.7	14433.0	14741.6	14315.8	12797.6	13109.3	14597.4	14260.5
60°	15089.6	15304.7	13365.5	13619.8	15368.2	15710.2	15336.9	13754.9	14060.7	14943.5	14217.0
62.5°	14941.4	15421.7	14271.6	14250.4	15577.0	15945.3	15682.9	14287.6	14765.9	14586.3	13497.8
65°	14256.5	15000.9	14797.2	14087.8	14862.7	14893.0	14808.3	14049.6	14932.3	13457.4	12107.4
67.5°	12764.2	13835.7	14105.0	12695.7	12935.9	12739.0	12596.8	12746.1	14064.8	11765.6	10175.6
70°	10396.4	12008.6	12137.8	10154.4	10045.3	9913.2	9629.7	10450.0	12352.7	9642.9	8074.1
72.5°	7644.2	9339.1	9735.7	7447.5	6943.1	6970.3	6746.4	7875.4	10043.3	7163.1	6028.0
75°	5230.0	6762.5	7617.0	5196.8	4591.3	4602.5	4574.2	5580.1	7999.3	4982.8	4510.7
77.5°	3820.6	4831.5	5744.5	3493.7	3391.8	3329.3	3314.1	3904.4	6133.0	3617.8	3502.9
80°	3065.9	3569.3	3858.9	2421.3	2603.8	2598.8	2515.2	2684.7	4005.3	2646.2	2620.0
82.5°	2126.6	2743.2	3126.6	1897.7	1757.4	1728.2	1748.5	1999.5	2830.9	1808.8	1720.2
85°	1121.9	1822.0	3096.3	1681.7	1043.2	832.3	1035.0	1637.4	2452.6	958.4	839.3
87.5°	143.3	526.6	2050.0	670.9	411.7	221.9	491.4	922.1	1574.9	195.7	170.5
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°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	6727.1	6593.0	6417.4	6255.0	6086.6	5919.0	5700.1	5562.9	5468.2	5449.9	5409.6
5°	6563.7	6117.7	5780.9	5489.4	5224.9	4851.7	4644.9	4473.3	4381.6	4372.5	4350.2
7.5°	5810.1	5194.7	4739.6	4327.0	3952.7	3651.2	3318.2	3162.8	3099.2	3114.5	3129.5
10°	5026.1	4338.2	3815.6	3393.8	3063.9	2809.7	2542.4	2361.7	2236.7	2211.4	2206.3
12.5°	4453.2	3698.5	3191.0	2893.4	2638.2	2399.2	2115.6	1902.7	1740.2	1684.9	1647.5
15°	4211.1	3385.8	2854.2	2533.3	2251.8	1948.2	1684.9	1461.8	1312.6	1264.2	1236.8
17.5°	4262.5	3299.0	2622.1	2211.4	1851.2	1534.5	1202.7	1011.9	922.1	898.9	898.9
20°	4532.8	3282.9	2430.4	1914.8	1465.9	1098.6	826.4	717.2	688.0	685.0	693.1
22.5°	4912.2	3339.4	2287.2	1657.6	1139.1	802.0	643.6	603.3	590.1	593.2	602.4
25°	5477.1	3530.1	2183.2	1428.6	893.9	656.8	574.0	549.9	543.7	551.9	563.0
27.5°	6147.1	3720.7	2118.7	1256.0	754.7	600.2	545.8	520.6	524.6	534.8	544.8
30°	6735.2	3877.2	2016.8	1132.9	711.3	603.3	545.8	511.5	507.5	509.5	512.6
32.5°	7262.8	3983.1	1897.7	1016.0	613.5	535.7	509.5	504.5	482.2	474.1	475.2
35°	7717.9	3983.1	1826.1	947.4	549.9	475.2	432.9	407.7	396.5	397.5	408.5
37.5°	8156.7	3903.3	1790.7	908.9	515.5	451.9	414.7	392.5	377.3	374.4	376.3
40°	8544.1	3787.3	1750.3	892.8	489.2	437.8	402.5	384.4	368.2	363.2	364.3
42.5°	8855.0	3693.6	1706.1	871.6	473.1	427.8	394.4	378.4	360.2	355.1	354.1
45°	9190.9	3662.2	1647.5	829.2	481.2	428.9	392.5	375.3	357.2	351.1	349.1
47.5°	9633.8	3760.0	1586.9	778.8	498.4	433.8	395.4	375.3	356.2	351.1	349.1
50°	10191.6	3990.1	1510.3	705.2	481.2	448.0	394.4	372.3	356.2	351.1	347.0
52.5°	10907.9	4300.8	1409.4	620.5	471.2	482.2	392.5	366.1	351.1	344.1	337.0
55°	11778.5	4555.0	1289.3	550.8	448.0	473.1	389.4	359.1	343.1	332.9	326.9
57.5°	12416.3	4646.8	1135.0	505.4	415.6	458.0	385.5	350.1	332.9	324.8	316.8
60°	12290.2	4469.2	1004.8	477.2	396.5	413.6	382.4	342.1	323.8	317.8	310.8
62.5°	11280.2	4005.3	921.1	464.1	384.4	377.3	385.5	333.9	315.8	309.7	307.7
65°	9766.0	3320.1	887.9	461.1	374.4	356.2	358.2	324.8	306.7	301.7	299.7
67.5°	8055.9	2679.6	858.6	471.2	361.2	340.9	330.9	312.8	297.6	292.6	288.5
70°	6352.9	2228.7	845.5	465.1	344.9	325.8	314.8	299.7	286.5	281.4	278.5
72.5°	5115.9	1882.6	838.4	459.0	323.8	305.8	295.6	282.4	268.4	266.3	263.4
75°	4329.1	1480.0	767.7	439.9	299.7	281.4	274.4	262.3	248.2	248.2	246.1
77.5°	3339.4	1070.4	638.6	389.4	274.4	254.2	248.2	239.0	223.0	226.1	224.9
80°	2466.7	698.2	499.4	322.9	243.1	223.9	221.0	211.9	194.8	198.7	198.7
82.5°	1689.8	458.0	359.1	264.3	207.8	189.6	189.6	180.6	161.4	163.4	169.5
85°	848.4	314.8	268.4	204.9	161.4	152.4	152.4	145.3	126.1	127.1	135.1
87.5°	258.3	189.6	177.5	146.2	116.1	114.1	109.0	103.9	91.7	90.8	95.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	5348.0	5290.6	5220.9	5067.6	5016.1	5013.1	5059.6	5011.0	5103.9	5064.6	5107.9
5°	4312.9	4256.3	4178.7	3983.1	3864.0	3783.3	3744.9	3631.9	3713.7	3654.1	3703.6
7.5°	3171.8	3185.0	3133.6	3018.6	2759.2	2629.1	2552.4	2483.9	2543.5	2537.4	2632.2
10°	2229.7	2264.9	2228.7	2112.5	1902.7	1831.1	1845.2	1872.4	1950.1	1990.6	2136.8
12.5°	1605.1	1603.0	1579.8	1475.9	1337.8	1345.8	1403.3	1450.8	1522.4	1564.8	1714.1
15°	1198.6	1180.5	1170.3	1085.5	1006.9	1024.0	1052.3	1057.2	1102.7	1127.9	1249.1
17.5°	906.0	915.1	926.2	865.5	806.0	795.0	772.8	745.6	758.7	763.6	824.3
20°	719.4	755.7	783.0	740.6	679.9	647.7	619.4	601.2	601.2	600.2	617.5
22.5°	628.5	654.8	684.0	654.8	600.2	572.0	556.0	541.8	539.7	539.7	556.0
25°	579.0	598.4	626.5	606.4	566.0	544.8	529.7	511.5	504.5	502.4	513.6
27.5°	555.0	563.0	577.2	558.9	524.6	514.5	510.4	494.3	485.3	480.2	491.4
30°	513.6	511.5	512.6	494.3	467.1	466.1	473.1	476.2	473.1	472.1	489.2
32.5°	475.2	471.2	470.2	454.1	428.9	422.7	428.9	434.8	441.8	451.9	472.1
35°	426.8	436.8	443.0	428.9	398.5	380.3	373.2	362.1	356.2	356.2	379.4
37.5°	388.3	411.7	420.6	407.7	374.4	349.1	337.0	335.0	336.0	340.0	362.1
40°	375.3	392.5	400.6	387.3	354.1	330.9	323.8	321.9	323.8	329.9	352.0
42.5°	367.2	379.4	378.4	362.1	335.0	318.8	314.8	312.8	314.8	320.9	344.9
45°	360.2	368.2	360.2	340.9	315.8	307.7	308.7	307.7	309.7	315.8	339.0
47.5°	354.1	357.2	347.0	327.9	301.7	299.7	303.6	306.7	308.7	313.8	337.9
50°	344.9	344.9	336.0	315.8	289.6	290.5	295.6	302.6	303.6	309.7	328.9
52.5°	333.9	332.9	326.9	307.7	279.5	282.4	282.4	290.5	292.6	299.7	319.7
55°	324.8	322.9	319.7	301.7	270.4	275.4	272.4	275.4	280.5	287.5	309.7
57.5°	316.8	312.8	312.8	296.6	263.4	265.3	258.3	262.3	268.4	274.4	297.6
60°	308.7	304.6	306.7	289.6	252.2	250.2	247.2	255.3	257.3	264.3	287.5
62.5°	299.7	296.6	297.6	281.4	244.2	239.0	239.0	246.1	247.2	257.3	279.5
65°	292.6	288.5	287.5	273.4	235.0	229.0	232.0	235.0	237.2	247.2	268.4
67.5°	285.5	277.4	277.4	266.3	224.9	218.9	224.9	223.9	227.0	236.1	253.2
70°	276.4	265.3	266.3	261.2	214.9	207.8	212.9	211.9	213.8	219.9	237.2
72.5°	262.3	253.2	255.3	253.2	204.9	194.8	196.6	196.6	196.6	201.8	219.9
75°	244.2	237.2	243.1	248.2	192.6	178.6	180.6	180.6	177.5	180.6	202.7
77.5°	221.9	217.8	238.1	231.0	178.6	161.4	161.4	159.4	153.3	157.5	181.5
80°	197.7	194.8	219.9	193.8	162.5	140.2	138.2	133.2	127.1	130.2	154.4
82.5°	172.6	169.5	184.6	148.3	140.2	116.1	111.0	101.9	95.8	98.9	121.0
85°	141.3	141.3	142.2	112.0	107.0	88.8	82.7	70.6	63.6	65.5	86.7
87.5°	100.9	103.9	95.8	76.6	63.6	49.4	45.5	38.4	32.2	37.3	45.5
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-05-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	5329.9	5440.9	5566.9	5728.4	5866.7	6093.7	6311.5	6442.6
5°	3985.1	4169.7	4399.7	4695.4	4970.7	5384.4	5795.0	6058.3
7.5°	2852.1	3049.8	3297.9	3667.2	4056.7	4584.3	5127.0	5441.8
10°	2359.8	2562.5	2771.5	3020.6	3339.4	3913.5	4555.0	4910.1
12.5°	1952.1	2169.0	2394.1	2656.4	2952.0	3464.5	4204.0	4612.5
15°	1494.2	1736.2	2001.7	2333.5	2703.8	3296.1	4117.2	4561.1
17.5°	1024.0	1294.4	1620.3	2029.9	2482.8	3241.5	4272.6	4784.1
20°	705.2	902.0	1250.0	1730.2	2275.0	3234.4	4571.3	5211.8
22.5°	590.1	678.0	932.3	1454.7	2118.7	3321.3	5034.3	5812.2
25°	545.8	598.4	744.5	1215.6	2004.7	3520.9	5671.9	6589.0
27.5°	519.6	567.0	676.0	1059.3	1914.8	3752.9	6292.4	7341.6
30°	529.7	578.1	656.8	979.6	1792.7	3946.8	6843.2	7928.7
32.5°	477.2	498.4	563.0	908.9	1705.1	4109.1	7325.4	8415.1
35°	406.6	443.9	502.4	875.7	1707.0	4218.1	7851.0	9036.5
37.5°	387.3	424.7	467.1	863.6	1730.2	4334.1	8454.4	9764.8
40°	375.3	409.5	445.9	856.5	1752.5	4440.1	9045.6	10485.2
42.5°	367.2	398.5	443.9	832.3	1763.6	4535.0	9531.8	11097.7
45°	366.1	398.5	451.9	808.1	1780.7	4636.8	9939.4	11550.5
47.5°	367.2	411.7	436.8	778.8	1780.7	4807.3	10417.6	11955.2
50°	363.2	433.8	420.6	737.5	1739.3	5130.1	11073.3	12497.0
52.5°	361.2	430.7	389.4	673.9	1667.7	5642.7	11913.9	13243.5
55°	356.2	415.6	367.2	579.0	1583.9	6201.5	12813.8	14126.2
57.5°	351.1	368.2	355.1	496.4	1454.7	6594.9	13433.2	14815.2
60°	393.5	321.9	344.9	456.0	1282.3	6703.0	13408.9	15089.6
62.5°	364.3	301.7	332.0	446.9	1161.1	6400.3	12789.4	14941.4
65°	285.5	288.5	318.8	473.1	1128.9	5598.2	11691.8	14256.5
67.5°	261.2	275.4	305.8	506.5	1132.0	4482.5	10051.5	12764.2
70°	246.1	261.2	290.5	523.6	1139.9	3341.3	7946.9	10396.4
72.5°	229.0	242.2	273.4	526.6	1087.6	2427.3	6124.9	7644.2
75°	208.9	221.0	249.2	459.0	900.9	1683.9	4685.2	5230.0
77.5°	185.6	194.8	218.9	354.1	668.9	1077.4	3517.0	3820.6
80°	158.5	163.4	183.7	259.3	458.0	673.9	2782.5	3065.9
82.5°	127.1	129.1	142.2	194.8	297.6	432.9	1863.4	2126.6
85°	89.8	89.8	97.8	141.3	202.7	274.4	1011.9	1121.9
87.5°	42.4	43.4	43.4	77.7	105.9	139.2	233.0	143.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)