

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: P193073

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193073
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-SLR-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25287 lumens
Efficiency: N/A
Efficacy: 90.6 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): 279
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

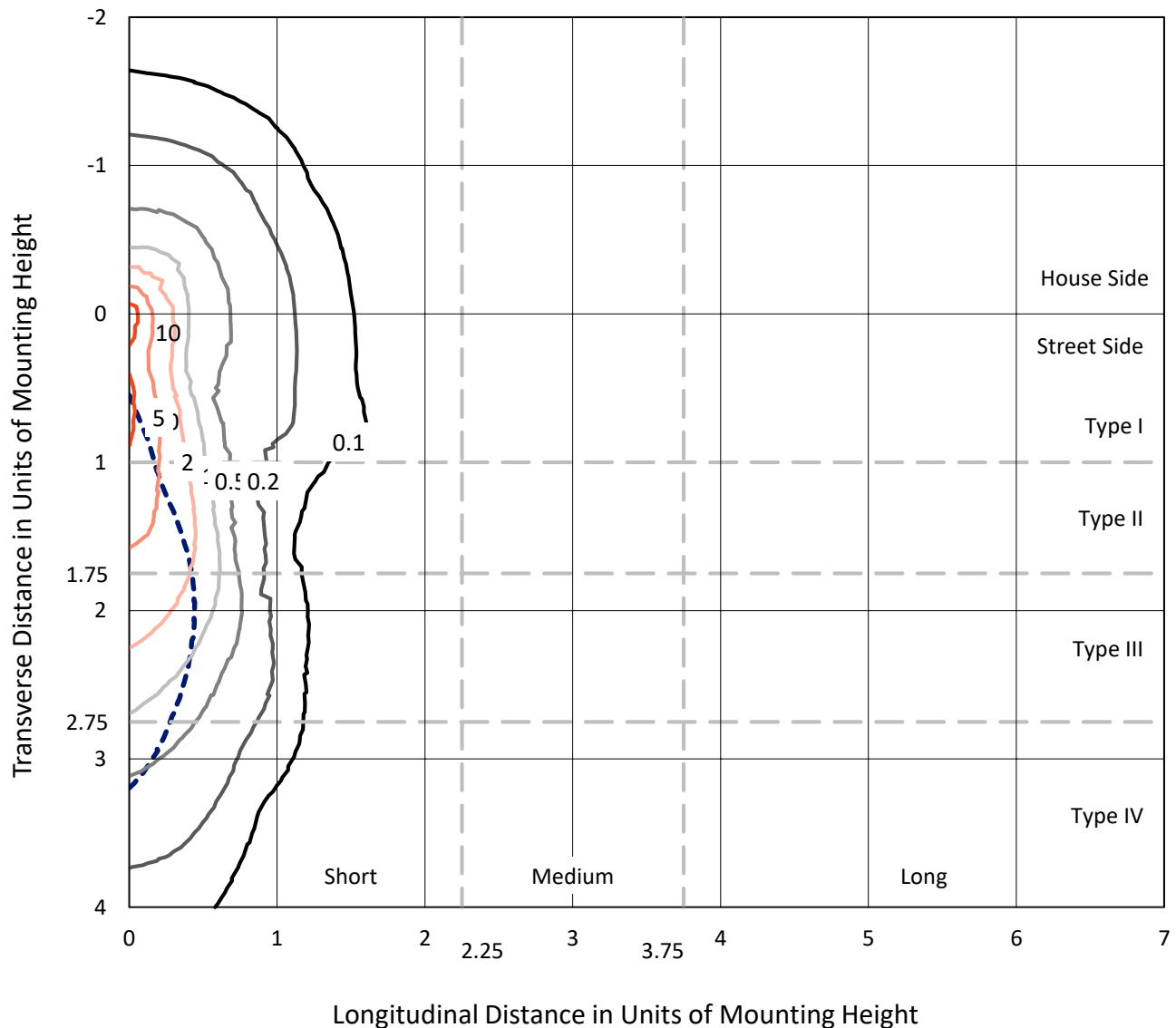


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

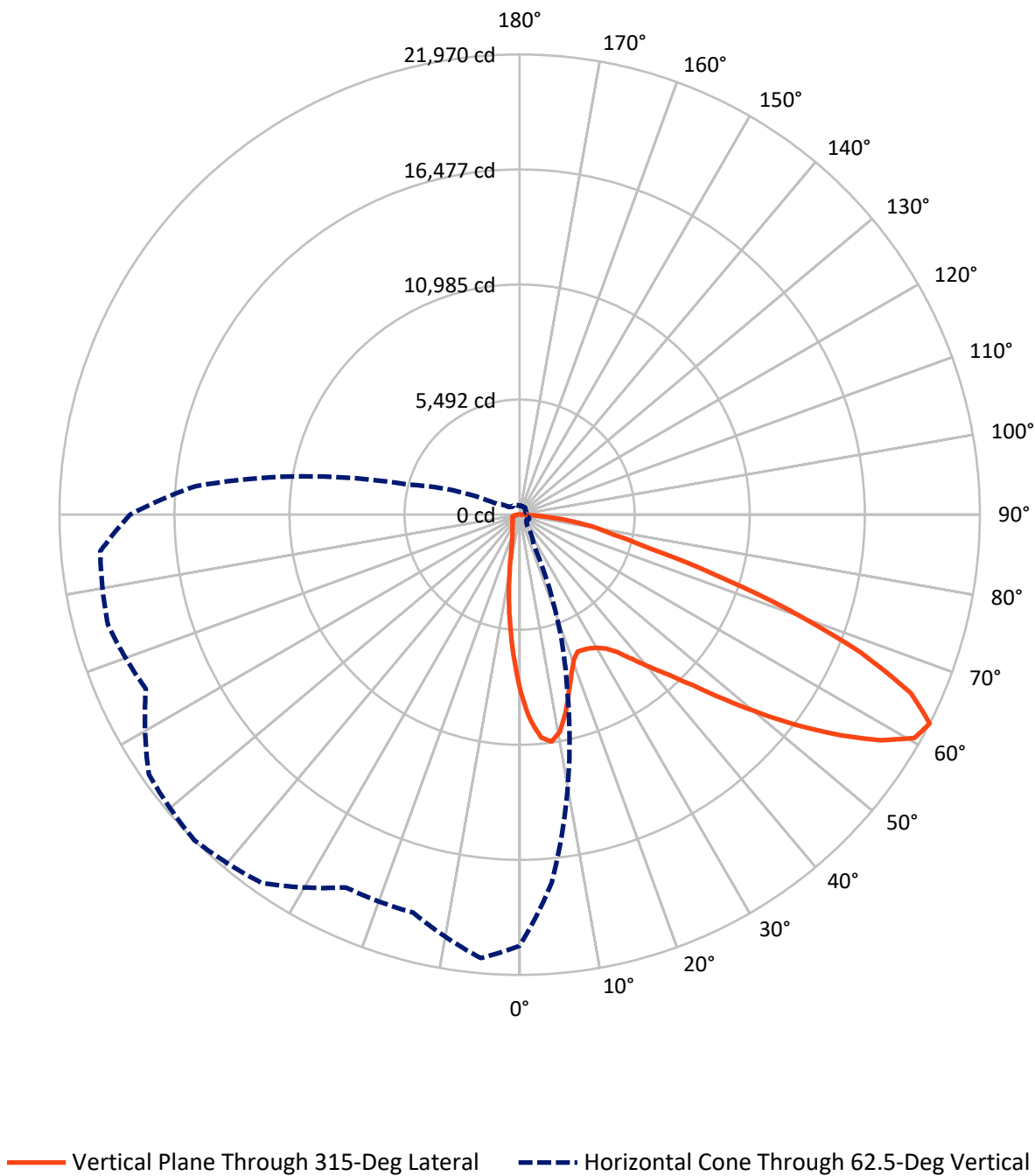


Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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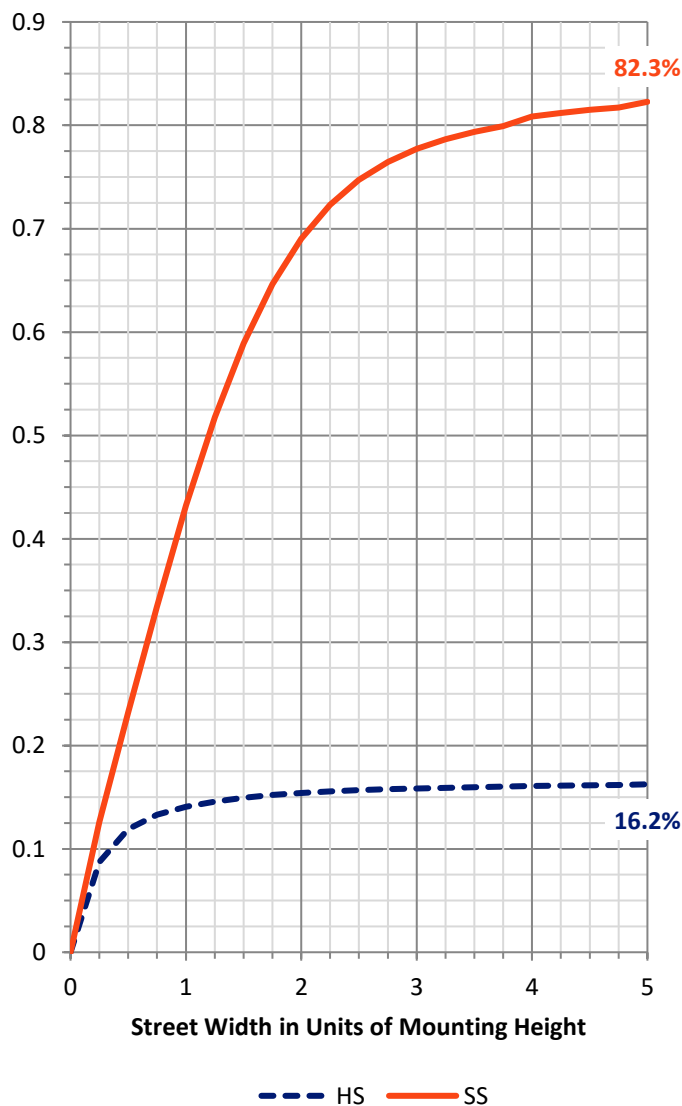
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4184.6	0.0	4184.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21102.3	0.0	21102.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	25287.0	0.0	25287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.9	2.5
10°-20°	1140.4	4.5
20°-30°	1662.7	6.6
30°-40°	2560.8	10.1
40°-50°	3768.9	14.9
50°-60°	5528.2	21.9
60°-70°	6179.7	24.4
70°-80°	3025.5	12.0
80°-90°	798.8	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°	25287.0	100.0
0°-180°	25287.0	100.0

Coefficient of Utilization



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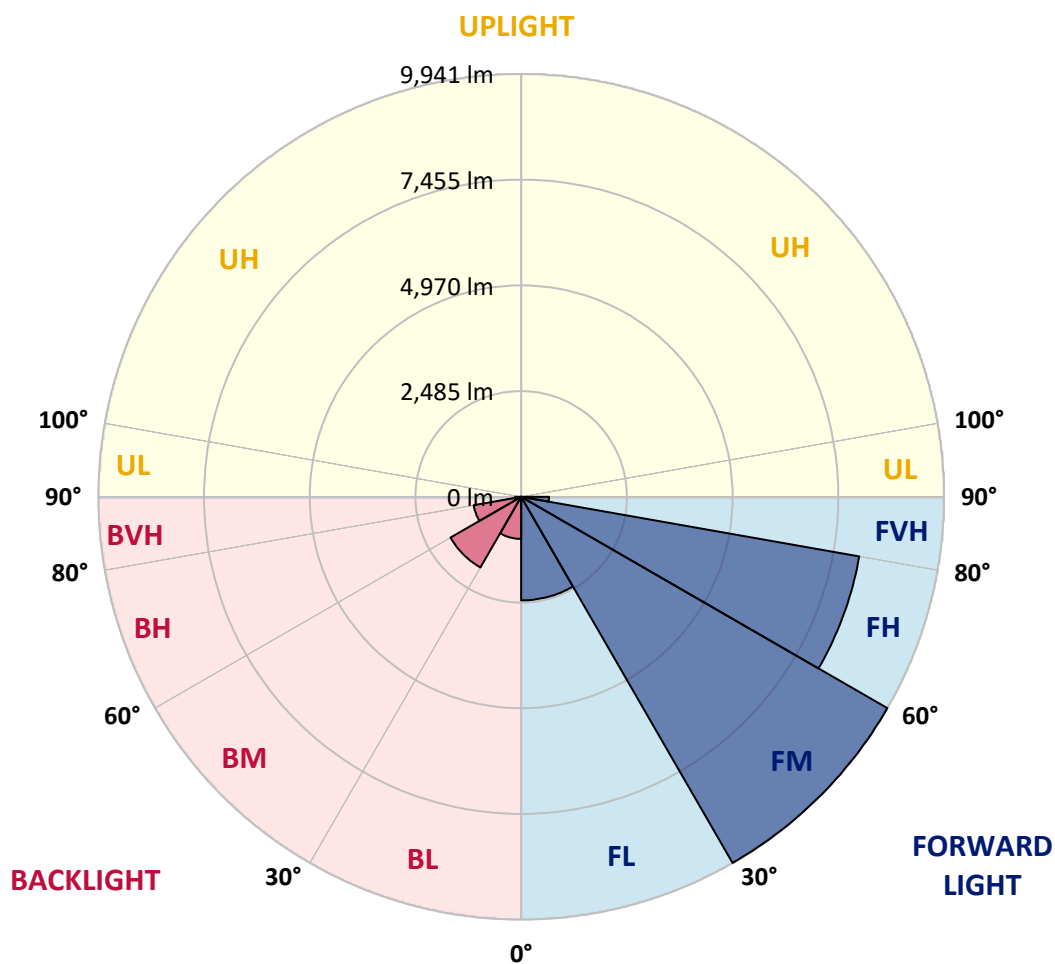
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2435.1	9.6			
FM	(30°-60°)	9940.5	39.3			
FH	(60°-80°)	8070.7	31.9			G4/12000
FVH	(80°-90°)	656.0	2.6			G4/750
BL	(0°-30°)	990.0	3.9	B2/1000		
BM	(30°-60°)	1917.4	7.6	B2/2500		
BH	(60°-80°)	1134.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.8	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°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	8876.9	8696.2	8395.9	8083.2	7892.8	7670.3	7496.6	7343.7	7037.8	6978.1	7032.3
5°	8347.3	7984.4	7418.7	6848.8	6469.3	6062.0	5745.1	5490.8	5103.0	5034.7	5116.8
7.5°	7498.0	7064.2	6316.4	5589.3	5052.9	4544.1	4202.1	3929.7	3626.7	3496.0	3504.4
10°	6765.5	6276.1	5392.1	4601.1	4161.8	3818.5	3530.7	3251.3	2944.1	2742.6	2687.0
12.5°	6355.4	5792.4	4773.4	4067.2	3660.0	3298.6	2988.7	2689.8	2361.7	2156.0	2097.6
15°	6284.5	5672.8	4541.4	3725.3	3215.2	2757.9	2392.3	2058.7	1721.0	1554.1	1519.4
17.5°	6591.6	5886.9	4466.3	3420.9	2796.8	2232.3	1783.4	1410.9	1135.6	1052.2	1045.3
20°	7181.1	6298.4	4456.5	3134.5	2383.9	1722.3	1242.8	971.7	850.7	827.1	828.5
22.5°	8008.1	6936.5	4576.1	2919.1	2004.5	1284.5	934.1	813.2	765.9	743.7	743.7
25°	9078.5	7814.9	4851.3	2762.1	1675.1	1025.8	824.3	752.0	707.6	692.2	695.0
27.5°	10115.4	8669.8	5171.0	2638.3	1459.6	931.3	781.2	715.8	677.0	661.7	668.6
30°	10924.5	9428.7	5438.0	2470.2	1349.8	904.8	796.5	729.8	674.1	650.5	651.9
32.5°	11594.5	10093.3	5661.7	2349.2	1252.4	775.6	686.7	657.5	650.5	622.8	608.8
35°	12450.7	10817.4	5811.8	2352.1	1206.5	692.2	611.7	560.2	522.7	490.7	490.7
37.5°	13454.4	11648.6	5971.7	2383.9	1190.0	643.6	585.2	533.7	499.0	468.5	462.9
40°	14447.0	12463.3	6117.7	2414.5	1180.1	614.4	564.4	517.2	485.1	454.5	446.3
42.5°	15290.7	13133.3	6248.3	2429.8	1146.7	611.7	549.0	506.0	475.4	442.1	433.6
45°	15914.8	13694.9	6388.7	2453.4	1113.5	622.8	549.0	504.6	467.1	435.1	426.7
47.5°	16472.2	14353.7	6623.7	2453.4	1073.2	601.9	567.2	506.0	465.7	432.3	425.3
50°	17218.6	15257.3	7068.4	2396.5	1016.1	579.6	597.7	500.4	453.2	426.7	418.4
52.5°	18247.3	16415.2	7774.6	2297.7	928.6	536.6	593.6	497.6	440.7	412.9	403.1
55°	19463.6	17655.1	8544.7	2182.4	797.9	506.0	572.7	490.7	426.7	396.2	386.4
57.5°	20413.0	18508.6	9086.8	2004.5	684.0	489.3	507.4	483.7	410.0	378.1	369.8
60°	20791.1	18475.3	9235.5	1766.7	628.4	475.4	443.4	542.2	396.2	364.2	354.4
62.5°	20586.7	17621.8	8818.6	1600.0	615.7	457.4	415.6	501.8	385.0	354.4	340.6
65°	19642.9	16109.4	7713.4	1555.6	651.9	439.2	397.6	393.4	369.8	340.6	326.6
67.5°	17587.0	13849.1	6176.0	1559.6	697.8	421.2	379.4	360.0	348.9	325.3	312.8
70°	14324.6	10949.5	4603.8	1570.8	721.4	400.3	360.0	339.1	326.6	303.0	294.7
72.5°	10532.5	8439.0	3344.4	1498.5	725.6	376.7	333.6	315.5	303.0	278.1	271.1
75°	7206.0	6455.5	2320.0	1241.3	632.5	343.3	304.4	287.8	279.3	248.8	244.6
77.5°	5264.1	4845.7	1484.7	921.6	488.0	301.7	268.2	255.7	250.2	216.9	211.3
80°	4224.4	3833.8	928.6	631.1	357.3	253.1	225.2	218.2	212.7	179.3	175.2
82.5°	2930.3	2567.5	596.3	410.0	268.2	196.0	177.9	175.2	166.8	136.2	132.1
85°	1545.7	1394.2	378.1	279.3	194.6	134.8	123.7	123.7	119.5	90.3	87.6
87.5°	197.4	321.1	191.9	146.0	107.1	59.8	59.8	58.4	62.6	51.5	44.5
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°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	6904.4	6971.2	6907.2	6911.4	6982.2	7193.5	7289.4	7368.7	7453.4	7509.1	7534.1
5°	5004.2	5159.9	5212.8	5323.8	5488.0	5757.6	5864.7	5942.5	5994.0	6024.5	6037.0
7.5°	3422.3	3516.8	3622.5	3801.7	4159.1	4317.5	4388.4	4370.4	4311.9	4291.1	4270.3
10°	2579.9	2542.5	2522.9	2621.6	2910.7	3070.6	3120.7	3072.1	3040.0	3047.0	3081.7
12.5°	1998.9	1933.6	1854.3	1843.2	2033.7	2176.9	2208.7	2211.6	2270.0	2321.4	2397.8
15°	1456.8	1449.9	1410.9	1387.3	1495.6	1612.4	1626.4	1651.4	1704.2	1741.7	1808.5
17.5°	1027.2	1064.7	1095.4	1110.6	1192.7	1276.0	1260.8	1248.3	1238.6	1238.6	1270.4
20°	828.5	853.6	892.4	936.9	1020.3	1078.7	1041.1	991.1	954.9	943.9	948.1
22.5°	746.5	765.9	788.2	827.1	902.2	942.5	902.2	866.0	829.9	817.4	813.2
25°	704.7	729.8	750.6	779.8	835.4	863.2	824.3	797.9	775.6	760.3	749.2
27.5°	681.1	703.4	709.0	722.9	770.1	795.1	775.6	764.5	750.6	736.7	722.9
30°	656.1	651.9	642.2	643.6	681.1	706.2	704.7	707.6	706.2	702.0	699.1
32.5°	599.1	590.8	582.5	590.8	625.5	647.8	649.1	654.7	654.7	653.4	664.4
35°	499.0	514.3	524.0	549.0	590.8	610.2	601.9	588.1	563.0	547.7	546.3
37.5°	461.5	464.3	481.0	515.7	561.6	579.6	567.2	535.2	518.6	515.7	519.8
40°	443.4	446.3	455.9	488.0	533.7	551.9	540.8	517.2	501.8	500.4	507.4
42.5°	430.9	433.6	439.2	461.5	499.0	521.2	522.7	506.0	488.0	489.3	496.2
45°	423.9	425.3	423.9	435.1	469.9	496.2	507.4	496.2	481.0	483.7	492.1
47.5°	422.7	418.4	412.9	415.6	451.8	478.2	492.1	488.0	481.0	483.7	490.7
50°	417.1	407.3	400.3	398.9	435.1	462.9	475.4	475.4	478.2	483.7	490.7
52.5°	400.3	389.2	389.2	385.0	423.9	450.3	458.7	460.1	464.3	473.9	483.7
55°	379.4	375.3	379.4	372.6	415.6	440.7	444.8	447.6	450.3	458.7	472.6
57.5°	361.4	355.8	365.6	362.8	408.6	430.9	430.9	436.5	436.5	447.6	458.7
60°	351.7	340.6	344.7	347.6	398.9	422.7	419.8	425.3	428.2	437.9	446.3
62.5°	339.1	329.4	329.4	336.4	387.9	410.0	408.6	412.9	423.9	426.7	435.1
65°	323.9	319.7	315.5	323.9	376.7	396.2	397.6	403.1	412.9	415.6	422.7
67.5°	308.5	310.0	301.7	310.0	367.0	382.3	382.3	393.4	397.6	403.1	410.0
70°	291.9	293.3	286.4	296.1	360.0	367.0	365.6	380.9	383.6	387.9	394.8
72.5°	271.1	271.1	268.2	282.2	348.9	351.7	348.9	361.4	362.8	367.0	369.8
75°	248.8	248.8	246.1	265.5	342.0	335.0	326.6	336.4	339.1	342.0	342.0
77.5°	219.6	222.5	222.5	246.1	318.3	328.1	300.3	305.8	310.0	311.4	307.2
80°	183.4	190.4	193.2	223.8	266.9	303.0	268.2	272.5	273.8	273.8	268.2
82.5°	140.4	152.9	159.8	193.2	204.4	254.3	233.5	237.7	233.5	225.2	222.5
85°	97.4	113.9	122.4	147.4	154.3	196.0	194.6	194.6	186.3	175.2	173.7
87.5°	52.8	62.6	68.1	87.6	105.7	132.1	143.1	139.0	132.1	125.1	126.5
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°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	7664.7	7853.9	8155.4	8386.2	8618.4	8842.2	9084.1	9268.9	9426.1	9487.2	9673.4
5°	6163.6	6399.9	6684.8	7199.1	7563.3	7965.0	8429.4	9043.7	9280.1	9606.7	10141.9
7.5°	4357.8	4572.0	5030.7	5446.2	5961.9	6530.5	7157.3	8005.3	8315.2	8839.4	9711.0
10°	3254.2	3503.0	3871.3	4221.6	4676.2	5257.2	5977.2	6925.3	7302.1	7870.5	8874.1
12.5°	2621.6	2914.9	3305.5	3635.0	3986.7	4396.7	5096.0	6135.7	6640.3	7137.9	8152.7
15°	2014.2	2321.4	2684.2	3102.6	3490.4	3932.5	4665.1	5802.1	6383.2	6901.7	7767.7
17.5°	1394.2	1656.9	2114.2	2550.7	3047.0	3612.7	4545.5	5873.0	6566.6	7164.3	7834.3
20°	988.4	1138.5	1513.8	2019.7	2638.3	3348.7	4523.3	6245.5	7147.6	7830.2	8262.5
22.5°	831.3	886.8	1105.0	1569.4	2283.8	3151.2	4601.1	6768.2	7931.6	8803.2	8945.0
25°	757.6	790.9	904.8	1231.6	1968.3	3008.1	4863.7	7546.6	8901.9	9776.3	9751.3
27.5°	717.3	752.0	827.1	1039.7	1730.6	2919.1	5126.6	8469.7	10011.2	10832.7	10521.3
30°	704.7	752.0	831.3	979.9	1561.0	2778.7	5342.0	9280.1	10864.7	11545.9	10871.7
32.5°	695.0	702.0	738.1	845.1	1399.8	2614.7	5488.0	10007.0	11700.1	12224.2	11376.2
35°	561.6	596.3	654.7	757.6	1305.2	2516.0	5488.0	10633.9	12523.1	12909.4	11857.2
37.5°	540.8	571.3	622.8	710.3	1252.4	2467.4	5378.2	11238.6	13364.0	13686.5	12253.3
40°	529.6	554.6	603.3	674.1	1230.1	2411.8	5218.3	11772.3	14185.5	14465.0	12623.2
42.5°	521.2	543.6	589.4	651.9	1201.0	2350.6	5089.0	12200.6	14898.6	15129.3	12976.1
45°	517.2	540.8	590.8	663.1	1142.7	2270.0	5045.9	12663.4	15485.2	15684.0	13358.5
47.5°	517.2	544.8	597.7	686.7	1073.2	2186.6	5180.7	13273.7	16040.0	16137.1	13808.8
50°	513.0	543.6	617.2	663.1	971.7	2081.0	5497.7	14042.3	16640.4	16651.5	14378.7
52.5°	504.6	540.8	664.4	649.1	854.9	1941.9	5925.7	15029.2	17528.7	17595.3	15271.1
55°	494.8	536.6	651.9	617.2	759.1	1776.4	6276.1	16229.0	18776.9	18961.8	16583.4
57.5°	482.4	531.0	631.1	572.7	696.4	1563.8	6402.6	17107.5	19648.4	20112.8	18062.4
60°	471.2	526.8	569.9	546.3	657.5	1384.6	6158.0	16933.6	19588.6	20589.6	19373.2
62.5°	460.1	531.0	519.8	529.6	639.3	1269.1	5518.5	15542.2	18597.6	20097.4	20344.8
65°	447.6	493.6	490.7	515.7	635.3	1223.2	4574.6	13455.8	16682.1	18542.0	20574.3
67.5°	430.9	455.9	469.9	497.6	649.1	1183.0	3692.0	11099.6	14020.1	16210.9	19378.8
70°	412.9	433.6	448.9	475.4	640.8	1164.9	3070.6	8753.2	11124.7	13286.2	17019.9
72.5°	389.2	407.3	421.2	446.3	632.5	1155.1	2593.9	7049.0	8305.6	9869.4	13838.0
75°	361.4	378.1	387.9	412.9	606.1	1057.8	2039.3	5964.8	6215.0	6865.6	11021.7
77.5°	329.4	342.0	350.2	378.1	536.6	879.9	1474.9	4601.1	4826.3	4984.7	8450.1
80°	291.9	304.4	308.5	335.0	444.8	688.2	961.9	3398.7	3610.0	3646.1	5518.5
82.5°	248.8	261.3	261.3	286.4	364.2	494.8	631.1	2328.4	2370.1	2492.4	3900.5
85°	200.2	209.9	209.9	222.5	282.2	369.8	433.6	1169.1	1156.5	1320.5	3379.3
87.5°	143.1	150.1	157.2	159.8	201.6	244.6	261.3	355.8	234.9	269.7	2169.9
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-05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	9813.7	9893.1	9812.5	9754.0	9502.4	9295.3	9018.7	8876.9
5°	10549.2	10750.7	10682.6	10438.0	9912.5	9321.8	8650.4	8347.3
7.5°	10460.2	10928.6	10939.8	10482.5	9708.1	8838.0	7929.0	7498.0
10°	9767.9	10367.1	10538.0	10094.6	9273.1	8300.0	7257.5	6765.5
12.5°	8995.1	9581.7	9712.4	9559.4	8872.7	7895.5	6837.7	6355.4
15°	8362.6	8625.4	8780.9	8914.5	8529.5	7734.3	6814.1	6284.5
17.5°	7977.6	7948.4	7992.9	8224.9	8290.3	7919.1	7175.5	6591.6
20°	7838.6	7392.4	7381.2	7700.9	8177.7	8359.9	7881.6	7181.1
22.5°	7915.0	7192.2	7100.4	7479.9	8237.5	8995.1	8807.4	8008.1
25°	8179.1	7208.8	7135.1	7502.2	8454.4	9672.0	9806.9	9078.5
27.5°	8594.8	7314.5	7217.2	7593.8	8742.1	10240.6	10791.0	10115.4
30°	8989.6	7498.0	7377.0	7774.6	9004.8	10465.7	11394.3	10924.5
32.5°	9469.1	7841.3	7628.6	8106.8	9330.0	10824.5	11932.3	11594.5
35°	9938.9	8330.6	8066.5	8619.8	9692.8	11270.6	12546.7	12450.7
37.5°	10454.6	8970.0	8751.7	9282.7	10189.1	11691.9	13330.6	13454.4
40°	11005.1	9817.9	9559.4	10250.2	10959.2	12220.0	14149.4	14447.0
42.5°	11559.7	10759.1	10450.4	11151.0	11805.8	12741.3	14850.0	15290.7
45°	12195.0	11780.8	11634.8	12392.4	12618.9	13237.6	15367.1	15914.8
47.5°	12934.4	12940.0	13174.9	13478.0	13439.1	13799.1	15887.0	16472.2
50°	13797.7	14387.1	14905.5	15107.2	14284.2	14402.4	16608.4	17218.6
52.5°	14834.6	16117.7	16760.0	16627.8	15194.6	15139.1	17751.1	18247.3
55°	16131.6	17949.8	18587.8	18493.3	16241.4	16142.7	19174.5	19463.6
57.5°	17633.0	19724.9	20311.6	19886.2	17498.1	17243.7	20351.8	20413.0
60°	18952.0	21131.7	21646.0	21174.8	18765.9	18415.5	21087.1	20791.1
62.5°	19686.0	21608.4	21969.9	21462.5	19634.6	19663.7	21248.4	20586.7
65°	19357.9	20403.3	20520.1	20478.4	19410.8	20388.0	20668.8	19642.9
67.5°	17562.0	17356.3	17552.3	17823.4	17492.5	19434.4	19063.2	17587.0
70°	14398.1	13268.1	13658.7	13840.9	13990.9	16723.8	16545.9	14324.6
72.5°	10850.7	9295.3	9603.9	9566.4	10261.4	13414.1	12867.8	10532.5
75°	7688.5	6302.5	6341.4	6326.1	7160.2	10494.9	9317.5	7206.0
77.5°	5379.5	4566.4	4587.1	4673.3	4813.8	7915.0	6656.9	5264.1
80°	3699.0	3465.3	3580.8	3587.7	3336.1	5317.0	4918.0	4224.4
82.5°	2755.1	2408.9	2381.2	2421.5	2614.7	4307.8	3779.6	2930.3
85°	2256.1	1426.2	1146.7	1437.3	2317.3	4266.1	2510.4	1545.7
87.5°	1270.4	677.0	305.8	567.2	924.5	2824.6	725.6	197.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)