

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: P269413

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269413
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-SLR-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 27181.1 lumens
Efficiency: N/A
Efficacy: 81.6 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

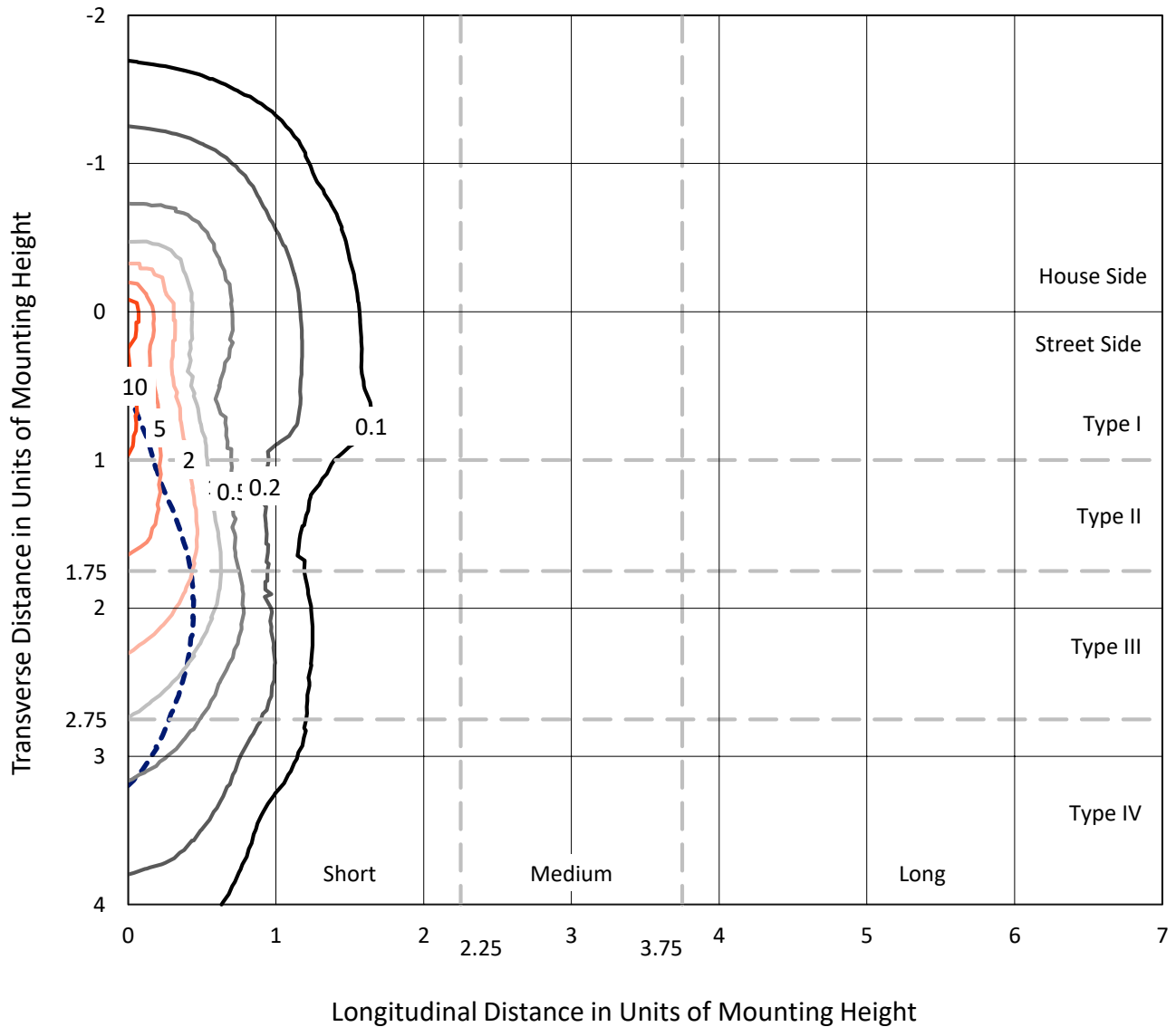
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269413
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

Iso-Footcandle Lines of Horizontal Illumination

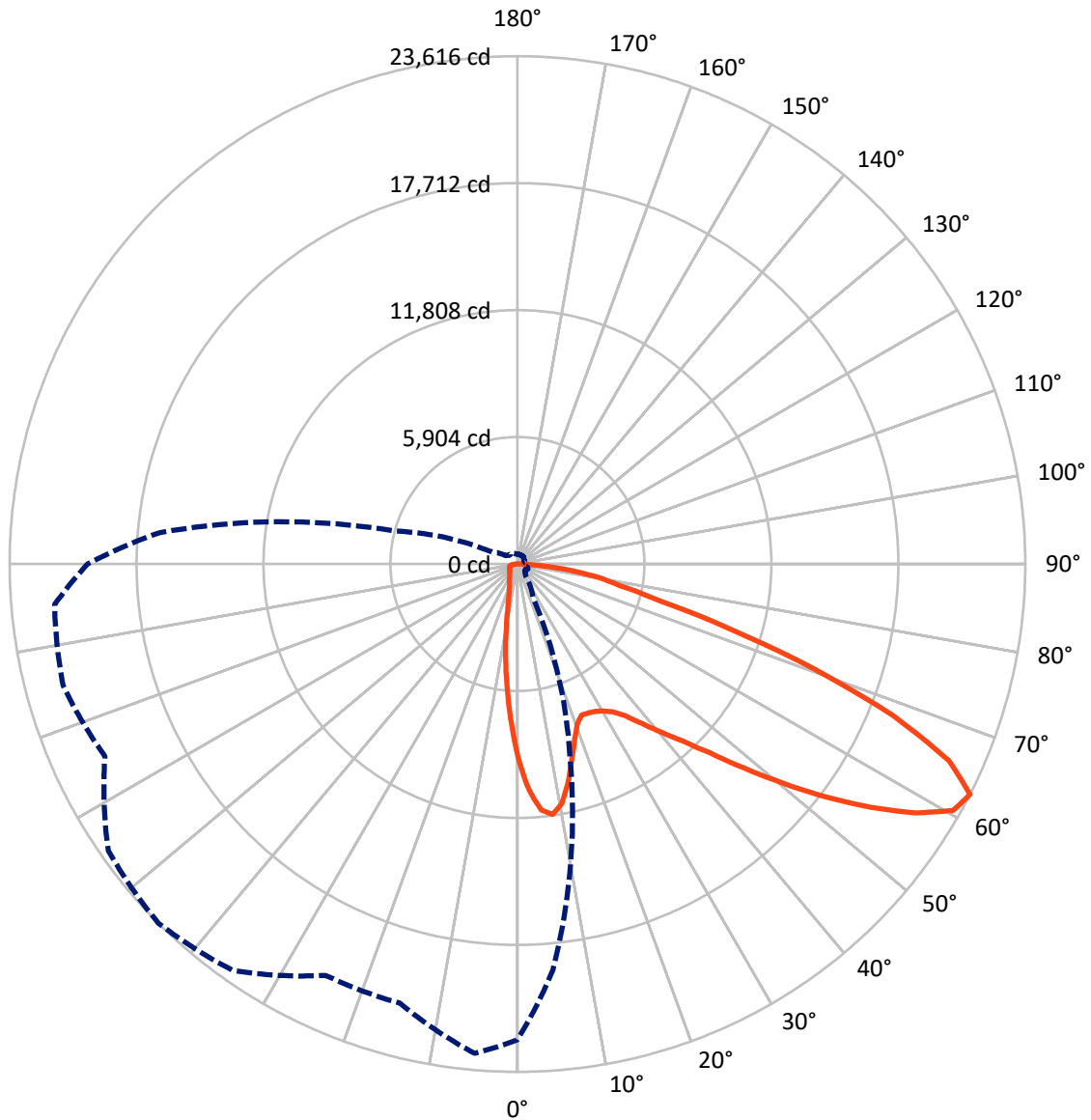
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269413
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P269413

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4498.1	0.0	4498.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22683.0	0.0	22683.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	27181.1	0.0	27181.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.5	2.5
10°-20°	1225.9	4.5
20°-30°	1787.3	6.6
30°-40°	2752.7	10.1
40°-50°	4051.2	14.9
50°-60°	5942.3	21.9
60°-70°	6642.6	24.4
70°-80°	3252.1	12.0
80°-90°	858.6	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°	27181.1	100.0
0°-180°	27181.1	100.0

Coefficient of Utilization



REPORT NUMBER: P269413

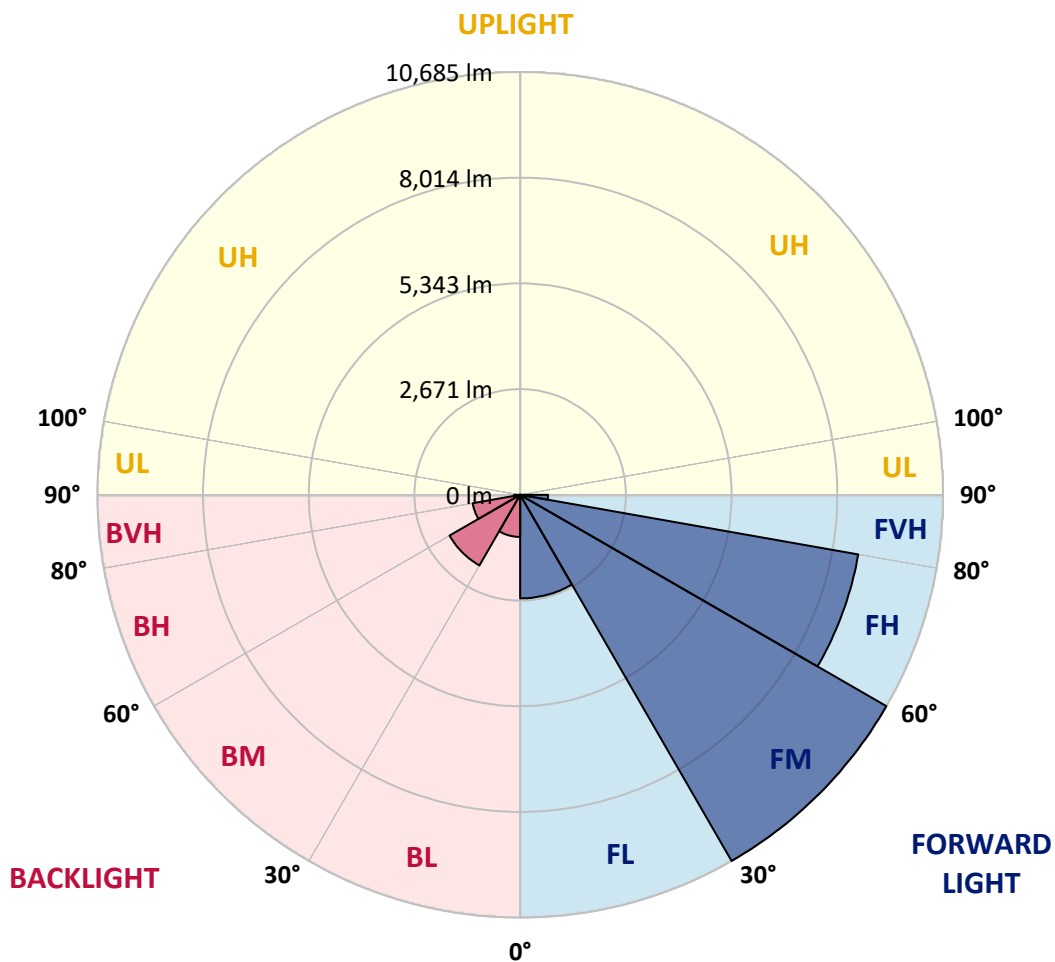
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2617.5	9.6			
FM (30°-60°)	10685.2	39.3			
FH (60°-80°)	8675.3	31.9			G4/12000
FVH (80°-90°)	705.1	2.6			G4/750
BL (0°-30°)	1064.2	3.9	B3/2500		
BM (30°-60°)	2061.0	7.6	B2/2500		
BH (60°-80°)	1219.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	153.5	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





REPORT NUMBER: P269413

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	9541.8	9347.7	9024.9	8688.6	8484.0	8245.0	8058.2	7893.8	7565.0	7500.8	7559.1
5°	8972.6	8582.5	7974.4	7361.8	6953.9	6516.1	6175.5	5902.0	5485.1	5411.8	5500.1
7.5°	8059.7	7593.5	6789.6	6008.1	5431.3	4884.4	4516.9	4224.1	3898.4	3757.9	3766.9
10°	7272.1	6746.2	5796.0	4945.8	4473.6	4104.5	3795.2	3494.9	3164.6	2948.0	2888.3
12.5°	6831.4	6226.2	5130.9	4372.1	3934.1	3545.7	3212.5	2891.3	2538.6	2317.4	2254.7
15°	6755.3	6097.8	4881.5	4004.5	3456.0	2964.4	2571.5	2212.9	1849.8	1670.5	1633.2
17.5°	7085.4	6327.9	4800.8	3677.2	3006.3	2399.6	1917.1	1516.6	1220.7	1131.1	1123.6
20°	7719.0	6770.2	4790.3	3369.5	2562.5	1851.2	1335.8	1044.4	914.5	889.1	890.5
22.5°	8608.0	7456.0	4918.8	3137.8	2154.7	1380.7	1004.0	874.1	823.2	799.4	799.4
25°	9758.5	8400.3	5214.8	2969.0	1800.6	1102.7	886.1	808.4	760.5	744.1	747.1
27.5°	10873.2	9319.2	5558.4	2835.9	1568.9	1001.2	839.7	769.5	727.6	711.3	718.7
30°	11742.9	10135.0	5845.2	2655.2	1450.9	972.8	856.2	784.4	724.8	699.3	700.8
32.5°	12462.9	10849.3	6085.7	2525.1	1346.3	833.7	738.1	706.7	699.3	669.3	654.4
35°	13383.4	11627.8	6247.3	2528.2	1297.0	744.1	657.4	602.1	561.8	527.5	527.5
37.5°	14462.3	12521.2	6419.0	2562.5	1279.0	691.9	629.1	573.7	536.4	503.5	497.7
40°	15529.1	13396.9	6576.0	2595.5	1268.5	660.4	606.6	555.8	521.5	488.6	479.6
42.5°	16436.0	14117.0	6716.4	2611.8	1232.7	657.4	590.1	543.8	511.0	475.2	466.2
45°	17107.0	14720.7	6867.3	2637.2	1196.8	669.3	590.1	542.3	502.1	467.7	458.8
47.5°	17706.1	15429.0	7119.7	2637.2	1153.6	647.0	609.6	543.8	500.5	464.8	457.1
50°	18508.5	16400.1	7598.0	2576.0	1092.2	623.1	642.5	537.9	487.2	458.8	449.7
52.5°	19614.1	17644.8	8357.0	2469.9	998.0	576.7	638.1	534.9	473.6	443.8	433.3
55°	20921.5	18977.7	9184.7	2345.8	857.6	543.8	615.6	527.5	458.8	425.8	415.3
57.5°	21942.1	19895.0	9767.5	2154.7	735.2	526.0	545.5	519.9	440.8	406.5	397.5
60°	22348.6	19859.2	9927.3	1899.0	675.3	511.0	476.6	582.7	425.8	391.5	381.1
62.5°	22128.8	18941.8	9479.2	1719.8	662.0	491.6	446.7	539.4	413.8	381.1	366.1
65°	21114.3	17316.1	8291.3	1671.9	700.8	472.1	427.4	422.8	397.5	366.1	351.1
67.5°	18904.4	14886.5	6638.7	1676.4	750.1	452.7	407.9	387.0	375.0	349.6	336.1
70°	15397.6	11769.8	4948.8	1688.5	775.4	430.3	387.0	364.6	351.1	325.7	316.7
72.5°	11321.3	9071.2	3594.9	1610.8	780.0	405.0	358.7	339.2	325.7	298.9	291.4
75°	7745.8	6939.0	2493.8	1334.3	679.8	369.1	327.3	309.2	300.4	267.4	262.9
77.5°	5658.5	5208.7	1595.7	990.7	524.5	324.3	288.4	274.9	269.0	233.1	227.1
80°	4540.8	4121.0	998.0	678.4	384.0	271.9	242.1	234.5	228.6	192.7	188.3
82.5°	3149.7	2759.8	641.0	440.8	288.4	210.7	191.2	188.3	179.3	146.5	141.9
85°	1661.5	1498.6	406.5	300.4	209.1	144.9	132.9	132.9	128.5	97.1	94.1
87.5°	212.2	345.2	206.3	156.8	115.1	64.3	64.3	62.7	67.3	55.2	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269413

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	7421.5	7493.3	7424.6	7429.2	7505.2	7732.4	7835.5	7920.6	8011.9	8071.6	8098.5
5°	5379.1	5546.4	5603.2	5722.7	5899.0	6189.0	6303.9	6387.7	6443.0	6475.8	6489.3
7.5°	3678.6	3780.2	3893.9	4086.6	4470.7	4641.0	4717.1	4697.7	4635.0	4612.5	4590.1
10°	2773.2	2732.9	2712.0	2818.1	3128.8	3300.6	3354.5	3302.2	3267.8	3275.2	3312.6
12.5°	2148.7	2078.4	1993.2	1981.3	2185.9	2339.8	2374.3	2377.3	2439.9	2495.3	2577.4
15°	1565.9	1558.4	1516.6	1491.1	1607.7	1733.3	1748.2	1775.1	1831.9	1872.2	1943.9
17.5°	1104.1	1144.5	1177.4	1193.8	1282.1	1371.6	1355.3	1341.8	1331.3	1331.3	1365.8
20°	890.5	917.3	959.3	1007.1	1096.7	1159.5	1119.2	1065.4	1026.6	1014.5	1019.0
22.5°	802.4	823.2	847.2	889.1	969.7	1013.1	969.7	930.9	892.0	878.6	874.1
25°	757.5	784.4	806.9	838.3	897.9	927.9	886.1	857.6	833.7	817.3	805.4
27.5°	732.2	756.1	762.0	776.9	827.8	854.6	833.7	821.8	806.9	791.9	776.9
30°	705.3	700.8	690.3	691.9	732.2	759.1	757.5	760.5	759.1	754.5	751.6
32.5°	643.9	635.0	626.1	635.0	672.4	696.2	697.8	703.7	703.7	702.2	714.2
35°	536.4	552.8	563.2	590.1	635.0	655.9	647.0	632.0	605.2	588.7	587.2
37.5°	496.0	499.1	517.0	554.3	603.7	623.1	609.6	575.3	557.3	554.3	558.8
40°	476.6	479.6	490.0	524.5	573.7	593.2	581.3	555.8	539.4	537.9	545.5
42.5°	463.2	466.2	472.1	496.0	536.4	560.4	561.8	543.8	524.5	526.0	533.5
45°	455.7	457.1	455.7	467.7	505.0	533.5	545.5	533.5	517.0	519.9	528.9
47.5°	454.3	449.7	443.8	446.7	485.7	514.0	528.9	524.5	517.0	519.9	527.5
50°	448.3	437.8	430.3	428.9	467.7	497.7	511.0	511.0	514.0	519.9	527.5
52.5°	430.3	418.4	418.4	413.8	455.7	484.0	493.1	494.5	499.1	509.5	519.9
55°	407.9	403.3	407.9	400.5	446.7	473.6	478.2	481.1	484.0	493.1	508.0
57.5°	388.4	382.5	393.0	390.0	439.4	463.2	463.2	469.2	469.2	481.1	493.1
60°	378.0	366.1	370.6	373.5	428.9	454.3	451.3	457.1	460.2	470.6	479.6
62.5°	364.6	354.1	354.1	361.6	416.9	440.8	439.4	443.8	455.7	458.8	467.7
65°	348.2	343.6	339.2	348.2	405.0	425.8	427.4	433.3	443.8	446.7	454.3
67.5°	331.7	333.2	324.3	333.2	394.4	411.0	411.0	422.8	427.4	433.3	440.8
70°	313.8	315.2	307.8	318.3	387.0	394.4	393.0	409.4	412.4	416.9	424.4
72.5°	291.4	291.4	288.4	303.3	375.0	378.0	375.0	388.4	390.0	394.4	397.5
75°	267.4	267.4	264.6	285.4	367.5	360.1	351.1	361.6	364.6	367.5	367.5
77.5°	236.1	239.0	239.0	264.6	342.2	352.7	322.8	328.7	333.2	334.7	330.1
80°	197.3	204.8	207.7	240.6	286.9	325.7	288.4	292.8	294.4	294.4	288.4
82.5°	150.9	164.4	171.8	207.7	219.6	273.4	251.0	255.5	251.0	242.1	239.0
85°	104.7	122.4	131.5	158.5	165.8	210.7	209.1	209.1	200.2	188.3	186.8
87.5°	56.9	67.3	73.2	94.1	113.5	141.9	153.9	149.4	141.9	134.4	136.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269413

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	8239.0	8442.1	8766.4	9014.4	9264.0	9504.4	9764.4	9963.2	10132.1	10197.7	10398.1
5°	6625.2	6879.2	7185.5	7738.4	8129.8	8561.7	9060.8	9721.2	9975.1	10326.2	10901.7
7.5°	4684.2	4914.4	5407.4	5854.3	6408.6	7019.6	7693.5	8605.0	8938.2	9501.6	10438.3
10°	3497.9	3765.3	4161.3	4537.9	5026.5	5651.0	6424.9	7444.1	7848.9	8460.1	9538.9
12.5°	2818.1	3133.3	3553.2	3907.3	4285.4	4726.2	5477.7	6595.4	7137.8	7672.7	8763.3
15°	2165.1	2495.3	2885.3	3335.0	3752.0	4227.1	5014.5	6236.8	6861.3	7418.7	8349.4
17.5°	1498.6	1781.1	2272.6	2741.8	3275.2	3883.5	4886.1	6312.8	7058.5	7701.0	8421.3
20°	1062.3	1223.8	1627.2	2171.1	2835.9	3599.5	4862.0	6713.4	7683.2	8416.7	8881.5
22.5°	893.5	953.3	1187.9	1686.9	2455.0	3387.2	4945.8	7275.3	8525.9	9462.7	9615.1
25°	814.4	850.2	972.8	1323.8	2115.8	3233.4	5228.1	8112.0	9568.7	10508.6	10481.8
27.5°	770.9	808.4	889.1	1117.6	1860.3	3137.8	5510.6	9104.1	10761.2	11644.2	11309.5
30°	757.5	808.4	893.5	1053.4	1677.9	2986.9	5742.1	9975.1	11678.5	12410.8	11686.1
32.5°	747.1	754.5	793.5	908.5	1504.7	2810.5	5899.0	10756.7	12576.5	13139.9	12228.4
35°	603.7	641.0	703.7	814.4	1403.1	2704.4	5899.0	11430.6	13461.1	13876.5	12745.4
37.5°	581.3	614.1	669.3	763.5	1346.3	2652.2	5781.0	12080.4	14365.1	14711.7	13171.2
40°	569.3	596.1	648.4	724.8	1322.3	2592.4	5609.1	12654.2	15248.2	15548.5	13568.7
42.5°	560.4	584.2	633.6	700.8	1291.0	2526.7	5470.1	13114.4	16014.7	16262.6	13948.3
45°	555.8	581.3	635.0	712.7	1228.3	2439.9	5423.8	13611.9	16645.2	16858.9	14359.0
47.5°	555.8	585.8	642.5	738.1	1153.6	2350.3	5568.9	14268.0	17241.3	17346.0	14843.2
50°	551.4	584.2	663.4	712.7	1044.4	2236.8	5909.5	15094.2	17887.0	17898.8	15455.9
52.5°	542.3	581.3	714.2	697.8	919.0	2087.4	6369.7	16155.1	18841.7	18913.4	16415.1
55°	531.9	576.7	700.8	663.4	815.8	1909.5	6746.2	17444.5	20183.5	20382.2	17825.5
57.5°	518.5	570.8	678.4	615.6	748.6	1681.0	6882.3	18388.9	21120.3	21619.4	19415.4
60°	506.6	566.3	612.6	587.2	706.7	1488.2	6619.3	18202.1	21056.0	22131.8	20824.5
62.5°	494.5	570.8	558.8	569.3	687.4	1364.2	5931.9	16706.5	19990.7	21602.9	21868.9
65°	481.1	530.4	527.5	554.3	682.8	1314.8	4917.3	14463.7	17931.6	19931.0	22115.5
67.5°	463.2	490.0	505.0	534.9	697.8	1271.6	3968.5	11931.1	15070.3	17425.2	20830.3
70°	443.8	466.2	482.6	511.0	688.8	1252.1	3300.6	9408.8	11958.0	14281.4	18294.8
72.5°	418.4	437.8	452.7	479.6	679.8	1241.6	2788.2	7577.1	8927.7	10608.8	14874.7
75°	388.4	406.5	416.9	443.8	651.5	1137.1	2192.0	6411.6	6680.4	7379.8	11847.3
77.5°	354.1	367.5	376.5	406.5	576.7	945.8	1585.2	4945.8	5187.8	5358.1	9083.1
80°	313.8	327.3	331.7	360.1	478.2	739.7	1033.9	3653.2	3880.4	3919.2	5931.9
82.5°	267.4	280.9	280.9	307.8	391.5	531.9	678.4	2502.8	2547.7	2679.0	4192.7
85°	215.1	225.7	225.7	239.0	303.3	397.5	466.2	1256.5	1243.2	1419.5	3632.3
87.5°	153.9	161.3	168.8	171.8	216.6	262.9	280.9	382.5	252.6	289.9	2332.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269413

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	10548.9	10634.1	10547.4	10484.7	10214.3	9991.6	9694.2	9541.8
5°	11339.3	11556.1	11482.9	11219.8	10655.1	10020.1	9298.3	8972.6
7.5°	11243.7	11747.2	11759.3	11267.6	10435.4	9500.0	8522.8	8059.7
10°	10499.6	11143.7	11327.4	10850.7	9967.8	8921.7	7801.2	7272.1
12.5°	9668.8	10299.3	10439.8	10275.5	9537.3	8486.9	7349.9	6831.4
15°	8989.0	9271.3	9438.9	9582.2	9168.3	8313.6	7324.5	6755.3
17.5°	8575.1	8543.7	8591.6	8841.1	8911.4	8512.3	7712.9	7085.4
20°	8425.7	7946.0	7934.1	8277.8	8790.3	8986.0	8472.0	7719.0
22.5°	8507.8	7731.0	7632.3	8040.2	8854.6	9668.8	9467.1	8608.0
25°	8791.8	7748.8	7669.6	8064.2	9087.7	10396.5	10541.5	9758.5
27.5°	9238.6	7862.3	7757.9	8162.7	9396.9	11007.7	11599.4	10873.2
30°	9662.9	8059.7	7929.7	8357.0	9679.3	11249.7	12247.9	11742.9
32.5°	10178.3	8428.6	8200.1	8714.1	10028.9	11635.1	12826.1	12462.9
35°	10683.5	8954.7	8670.7	9265.5	10418.9	12114.8	13486.6	13383.4
37.5°	11237.7	9642.0	9407.4	9978.2	10952.3	12567.6	14329.3	14462.3
40°	11829.5	10553.4	10275.5	11018.2	11780.2	13135.3	15209.4	15529.1
42.5°	12425.6	11565.0	11233.2	11986.4	12690.0	13695.6	15962.3	16436.0
45°	13108.4	12663.1	12506.4	13320.6	13564.1	14229.2	16518.3	17107.0
47.5°	13903.3	13909.4	14161.9	14487.7	14445.7	14832.8	17077.0	17706.1
50°	14831.2	15464.9	16022.1	16238.8	15354.2	15481.2	17852.6	18508.5
52.5°	15946.0	17325.2	18015.4	17873.4	16333.0	16273.2	19080.7	19614.1
55°	17340.1	19294.3	19980.2	19878.7	17458.0	17352.0	20610.8	20921.5
57.5°	18953.7	21202.4	21833.0	21375.8	18808.8	18535.4	21876.3	21942.1
60°	20371.8	22714.6	23267.4	22761.0	20171.5	19795.0	22666.8	22348.6
62.5°	21160.7	23227.0	23615.6	23070.2	21105.4	21136.7	22840.0	22128.8
65°	20808.0	21931.6	22057.2	22012.2	20864.8	21915.2	22217.1	21114.3
67.5°	18877.5	18656.4	18867.0	19158.4	18802.9	20890.2	20491.2	18904.4
70°	15476.8	14262.0	14681.9	14877.5	15039.0	17976.5	17785.3	15397.6
72.5°	11663.7	9991.6	10323.3	10283.0	11030.1	14418.9	13831.7	11321.3
75°	8264.3	6774.7	6816.5	6800.0	7696.6	11281.0	10015.6	7745.8
77.5°	5782.5	4908.3	4930.7	5023.4	5174.3	8507.8	7155.7	5658.5
80°	3976.0	3725.0	3849.0	3856.6	3586.0	5715.2	5286.4	4540.8
82.5°	2961.4	2589.5	2559.5	2602.8	2810.5	4630.5	4062.7	3149.7
85°	2425.1	1533.0	1232.7	1544.9	2490.8	4585.7	2698.5	1661.5
87.5°	1365.8	727.6	328.7	609.6	993.6	3036.2	780.0	212.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)