

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: P192565

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46924.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 448
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

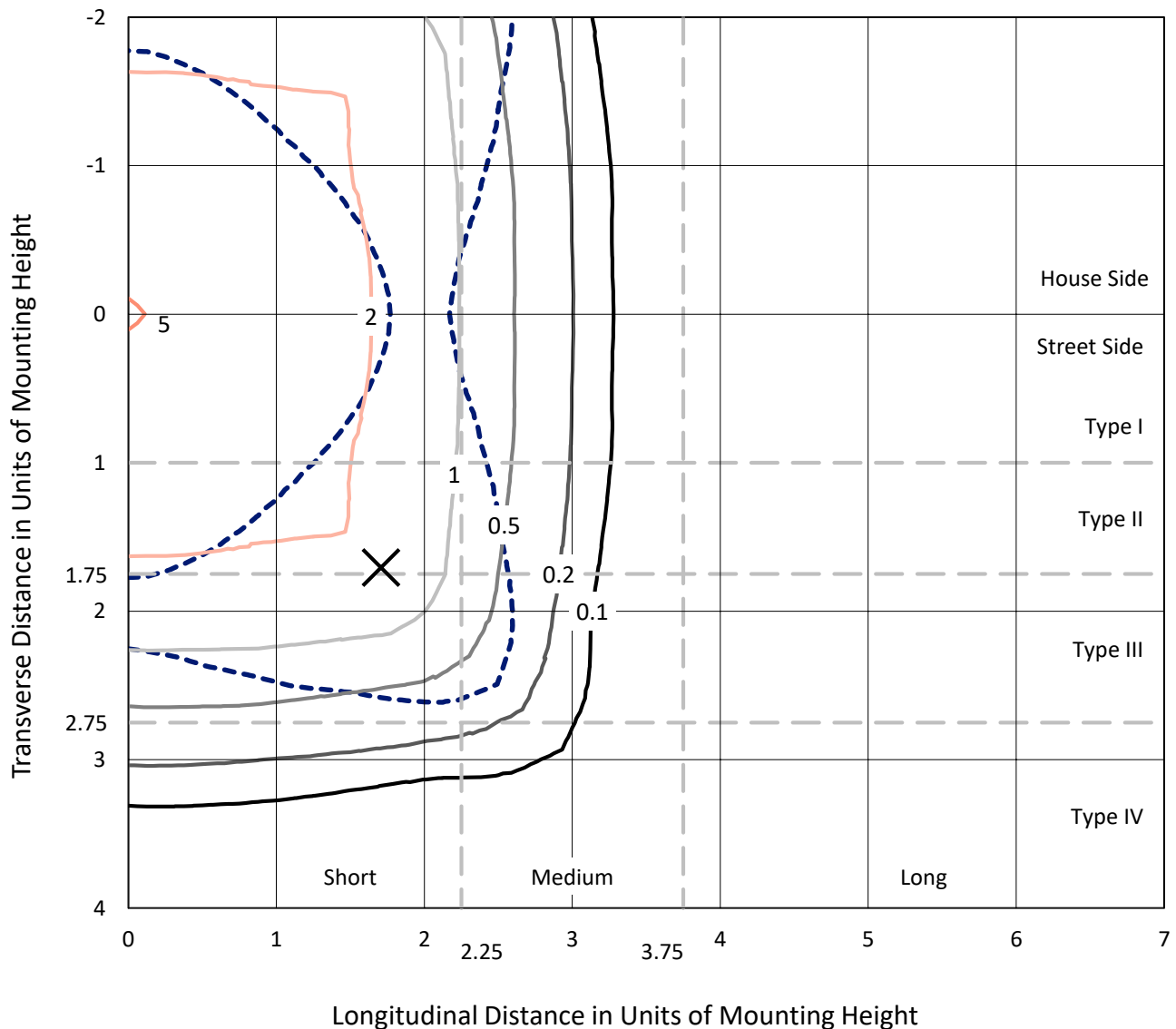


REPORT NUMBER: P192565

CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

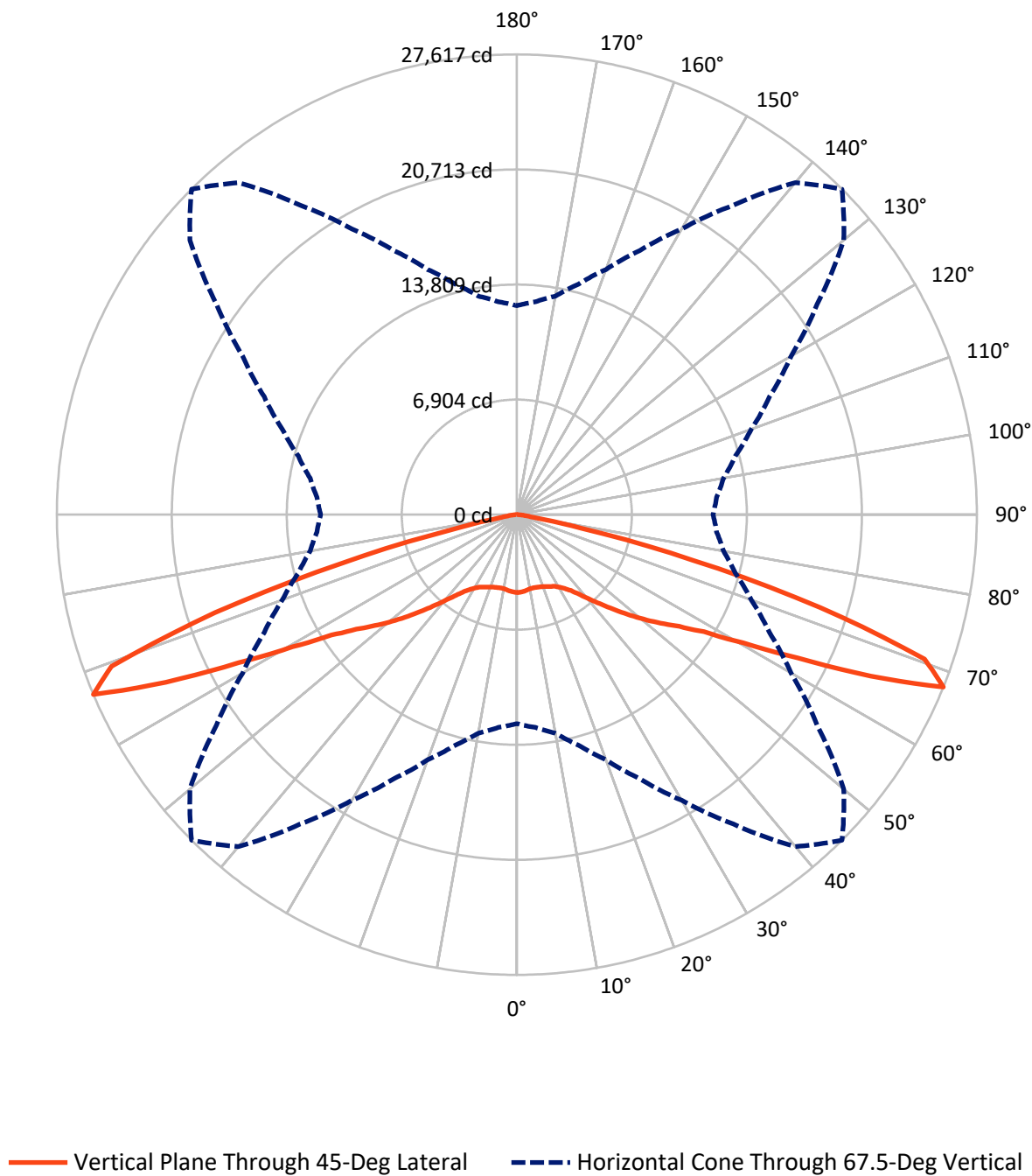


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P192565

CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P192565

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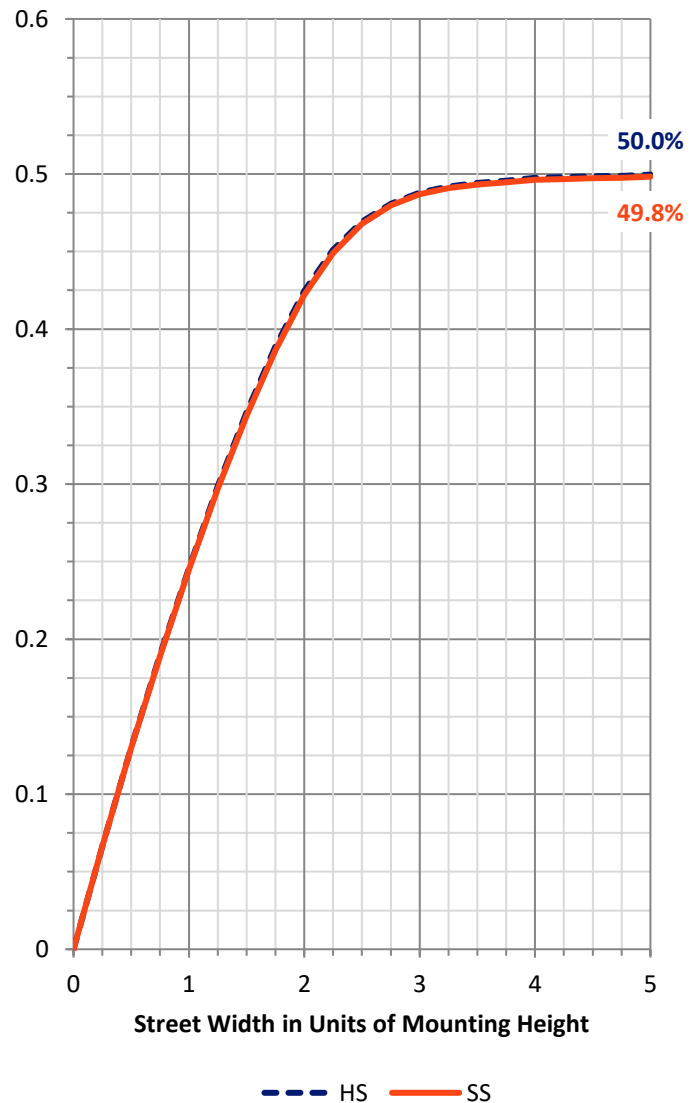
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23462.3	0.0	23462.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23462.3	0.0	23462.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	46924.7	0.0	46924.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	0.9
10°-20°	1270.1	2.7
20°-30°	2159.1	4.6
30°-40°	3529.4	7.5
40°-50°	6300.6	13.4
50°-60°	10623.0	22.6
60°-70°	16485.3	35.1
70°-80°	5792.2	12.3
80°-90°	327.3	0.7
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°	46924.7	100.0
0°-180°	46924.7	100.0

Coefficient of Utilization



REPORT NUMBER: P192565

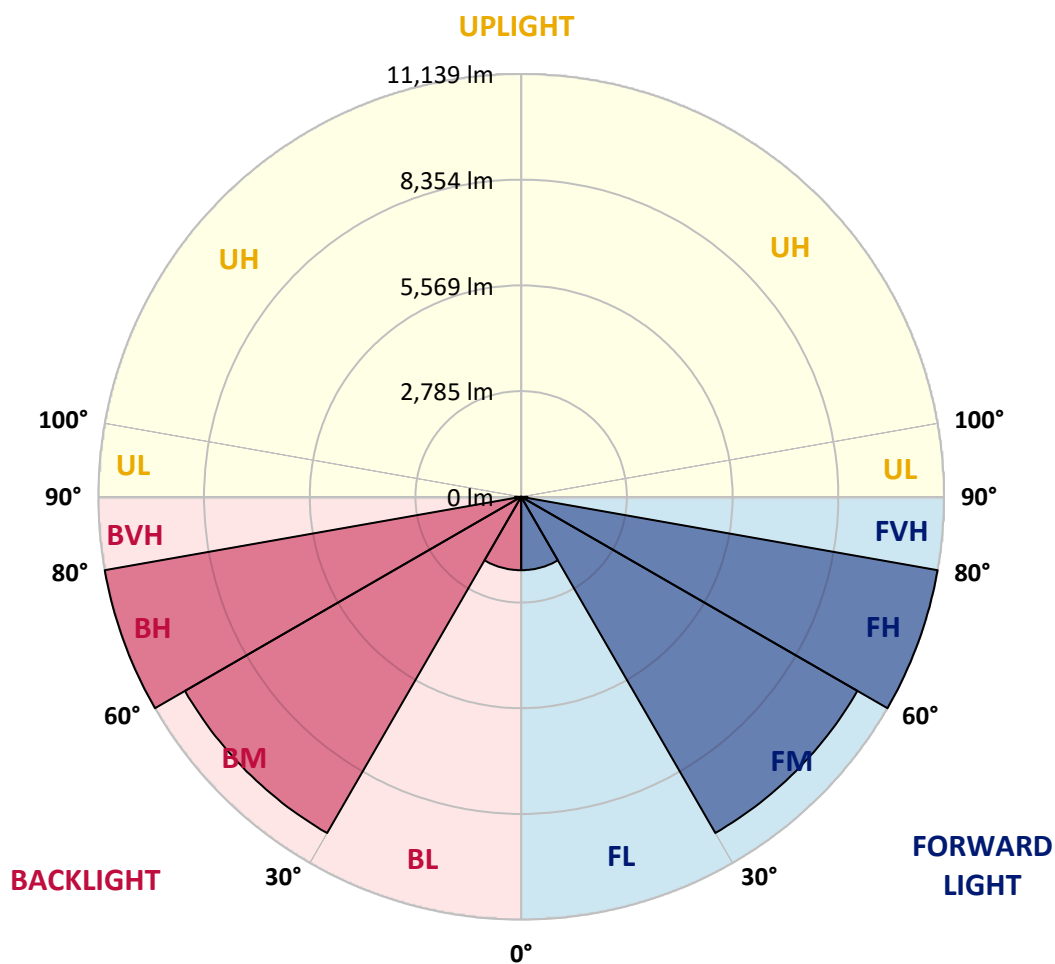
CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1933.4	4.1			
FM	(30°-60°)	10226.5	21.8			
FH	(60°-80°)	11138.8	23.7			G4/12000
FVH	(80°-90°)	163.7	0.3			G2/225
BL	(0°-30°)	1933.4	4.1	B3/2500		
BM	(30°-60°)	10226.5	21.8	B5		
BH	(60°-80°)	11138.8	23.7	B5		G4/12000
BVH	(80°-90°)	163.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



REPORT NUMBER: P192565

CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2
2.5°	4659.0	4663.3	4663.3	4663.3	4661.1	4661.1	4656.8	4661.1	4659.0	4652.5	4654.7
5°	4620.1	4624.4	4624.4	4622.3	4628.8	4626.6	4620.1	4624.4	4622.3	4618.0	4620.1
7.5°	4564.0	4570.6	4570.6	4568.3	4574.8	4572.6	4568.3	4570.6	4570.6	4564.0	4564.0
10°	4501.5	4505.8	4505.8	4503.5	4514.4	4514.4	4512.2	4518.8	4520.8	4514.4	4510.1
12.5°	4443.1	4449.7	4449.7	4458.4	4469.0	4473.4	4484.2	4492.8	4501.5	4499.3	4490.7
15°	4408.6	4413.0	4421.6	4432.4	4449.7	4464.8	4482.1	4501.5	4518.8	4523.0	4510.1
17.5°	4387.1	4393.6	4406.5	4421.6	4445.3	4471.2	4497.1	4523.0	4546.8	4555.3	4540.3
20°	4380.6	4384.9	4397.9	4423.8	4456.1	4494.9	4531.6	4561.9	4594.3	4605.1	4594.3
22.5°	4393.6	4402.2	4417.3	4447.5	4490.7	4540.3	4583.4	4624.4	4665.5	4684.8	4669.7
25°	4451.8	4460.4	4479.8	4518.8	4566.2	4618.0	4667.5	4715.1	4751.8	4771.3	4760.4
27.5°	4559.7	4570.6	4594.3	4633.0	4684.8	4741.0	4795.0	4833.7	4864.0	4870.4	4857.5
30°	4721.5	4745.3	4773.3	4816.4	4876.9	4924.5	4978.4	5013.0	5049.5	5049.5	5038.8
32.5°	4974.0	4997.7	5028.0	5069.0	5116.5	5168.3	5215.7	5246.0	5284.8	5286.9	5261.1
35°	5351.6	5362.5	5388.3	5414.3	5457.4	5502.8	5543.7	5563.2	5595.5	5597.7	5574.0
37.5°	5850.2	5852.4	5869.6	5878.2	5917.1	5966.6	6005.6	6018.4	6048.7	6044.3	6020.6
40°	6430.7	6441.4	6447.9	6460.8	6501.8	6549.3	6590.3	6596.8	6629.2	6622.7	6592.4
42.5°	7101.8	7106.1	7142.8	7162.2	7201.1	7224.8	7276.5	7283.0	7321.9	7304.6	7270.1
45°	7854.8	7893.8	7928.3	7967.0	8008.0	8036.1	8077.1	8068.5	8094.4	8068.5	8049.1
47.5°	8646.9	8674.8	8752.5	8813.0	8879.9	8903.6	8961.9	8936.0	8961.9	8925.2	8918.8
50°	9518.6	9568.3	9635.1	9704.2	9775.4	9814.3	9889.8	9857.5	9892.0	9857.5	9838.0
52.5°	10377.6	10390.4	10537.2	10638.6	10737.9	10783.3	10828.4	10813.4	10815.6	10813.4	10793.9
55°	11193.2	11223.4	11370.2	11508.3	11680.9	11808.2	11885.9	11877.2	11857.8	11838.5	11806.0
57.5°	12112.5	12142.6	12311.0	12481.4	12677.9	12859.2	13016.6	13178.6	13241.1	13258.4	13187.1
60°	13355.5	13353.3	13577.7	13784.9	14065.4	14335.2	14680.4	15032.1	15435.7	15623.4	15375.3
62.5°	14620.0	14671.8	14995.5	15362.3	15940.6	16503.8	17140.5	17766.2	18405.0	18925.2	18372.6
65°	14468.9	14667.5	15148.7	15979.5	17047.7	18316.5	19688.9	21141.2	22453.4	23355.3	22343.2
67.5°	12539.8	12822.4	13312.2	14322.2	15658.0	17487.9	19792.6	22664.7	26003.0	27617.3	25616.8
70°	9089.2	9408.7	9922.2	10908.3	12231.1	13970.4	16473.7	19922.0	24341.5	25968.5	23765.3
72.5°	4523.0	4695.6	5013.0	5640.8	6642.1	8053.4	10323.6	13638.2	17548.3	19041.6	17028.3
75°	1536.4	1616.3	1670.2	1875.2	2192.5	2747.0	3875.7	5962.4	9095.8	10904.1	8966.3
77.5°	886.8	889.1	925.8	962.5	1016.4	1076.9	1227.8	1612.0	2788.1	3959.8	2885.2
80°	574.0	571.9	602.0	630.1	666.8	697.0	705.6	746.7	861.0	1020.7	912.8
82.5°	297.8	334.5	401.4	438.0	507.1	520.1	502.8	487.8	515.7	535.2	548.2
85°	164.0	142.5	213.6	276.2	306.5	310.8	310.8	293.5	304.3	297.8	323.7
87.5°	75.5	69.1	84.1	135.9	144.5	123.0	129.5	114.4	82.1	79.9	90.6
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: P192565

CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-7030-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2	4676.2
2.5°	4654.7	4656.8	4656.8	4663.3	4665.5	4669.7	4674.1	4676.2
5°	4618.0	4624.4	4620.1	4626.6	4626.6	4631.0	4631.0	4633.0
7.5°	4564.0	4570.6	4570.6	4570.6	4568.3	4574.8	4574.8	4574.8
10°	4507.9	4512.2	4510.1	4505.8	4501.5	4507.9	4505.8	4503.5
12.5°	4490.7	4479.8	4471.2	4466.9	4458.4	4460.4	4454.0	4454.0
15°	4501.5	4482.1	4466.9	4460.4	4451.8	4447.5	4443.1	4445.3
17.5°	4529.5	4505.8	4486.3	4475.6	4464.8	4458.4	4449.7	4451.8
20°	4579.2	4551.0	4523.0	4501.5	4482.1	4471.2	4464.8	4462.5
22.5°	4652.5	4611.5	4570.6	4538.1	4512.2	4497.1	4490.7	4486.3
25°	4736.7	4691.4	4643.8	4607.1	4581.2	4561.9	4548.9	4548.9
27.5°	4842.4	4805.8	4762.6	4719.5	4695.6	4676.2	4667.5	4663.3
30°	5019.4	4984.9	4950.3	4909.3	4879.1	4859.7	4844.5	4831.7
32.5°	5246.0	5217.9	5189.9	5159.7	5131.6	5105.6	5081.9	5071.2
35°	5565.3	5543.7	5524.2	5489.7	5479.1	5463.8	5451.0	5440.1
37.5°	6005.6	5996.9	5996.9	5960.2	5951.6	5945.2	5932.1	5934.3
40°	6583.9	6592.4	6581.7	6568.7	6562.2	6544.9	6544.9	6560.2
42.5°	7267.9	7274.4	7298.1	7276.5	7300.2	7278.8	7265.7	7276.5
45°	8062.0	8085.7	8133.3	8111.6	8126.8	8090.1	8044.8	8047.0
47.5°	8953.2	8974.9	8994.2	8979.2	8981.3	8920.9	8860.5	8845.4
50°	9879.0	9887.6	9898.5	9876.8	9881.2	9814.3	9745.3	9747.3
52.5°	10793.9	10835.0	10878.2	10819.8	10807.0	10731.5	10634.3	10595.4
55°	11840.5	11898.9	11849.1	11747.8	11646.4	11545.0	11417.6	11396.1
57.5°	13131.0	13031.8	12876.4	12684.4	12544.0	12401.7	12272.2	12218.3
60°	14926.5	14553.2	14272.5	13987.7	13808.6	13633.8	13463.4	13437.5
62.5°	17464.1	16819.0	16260.1	15670.9	15189.7	14814.3	14514.2	14430.1
65°	20645.0	19119.3	17796.4	16562.2	15489.6	14680.4	14171.2	13946.7
67.5°	22013.1	19000.6	16732.6	14980.3	13577.7	12598.0	12047.7	11773.7
70°	19343.7	15757.3	13290.8	11536.3	10258.8	9214.4	8715.9	8422.4
72.5°	13308.0	10023.6	7926.1	6469.5	5448.8	4574.8	4229.5	4203.6
75°	5975.3	3957.7	2727.6	2101.8	1769.5	1538.6	1467.4	1413.5
77.5°	1672.4	1236.5	1102.8	1031.5	962.5	882.6	852.3	858.9
80°	813.6	768.2	738.0	692.7	630.1	563.2	532.9	546.0
82.5°	539.5	532.9	552.5	520.1	429.4	364.7	306.5	280.6
85°	328.0	332.3	338.8	341.0	289.2	202.9	138.1	155.3
87.5°	129.5	148.9	161.8	168.4	157.6	97.1	77.7	79.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)