

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: P192613

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19968.2 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 162
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

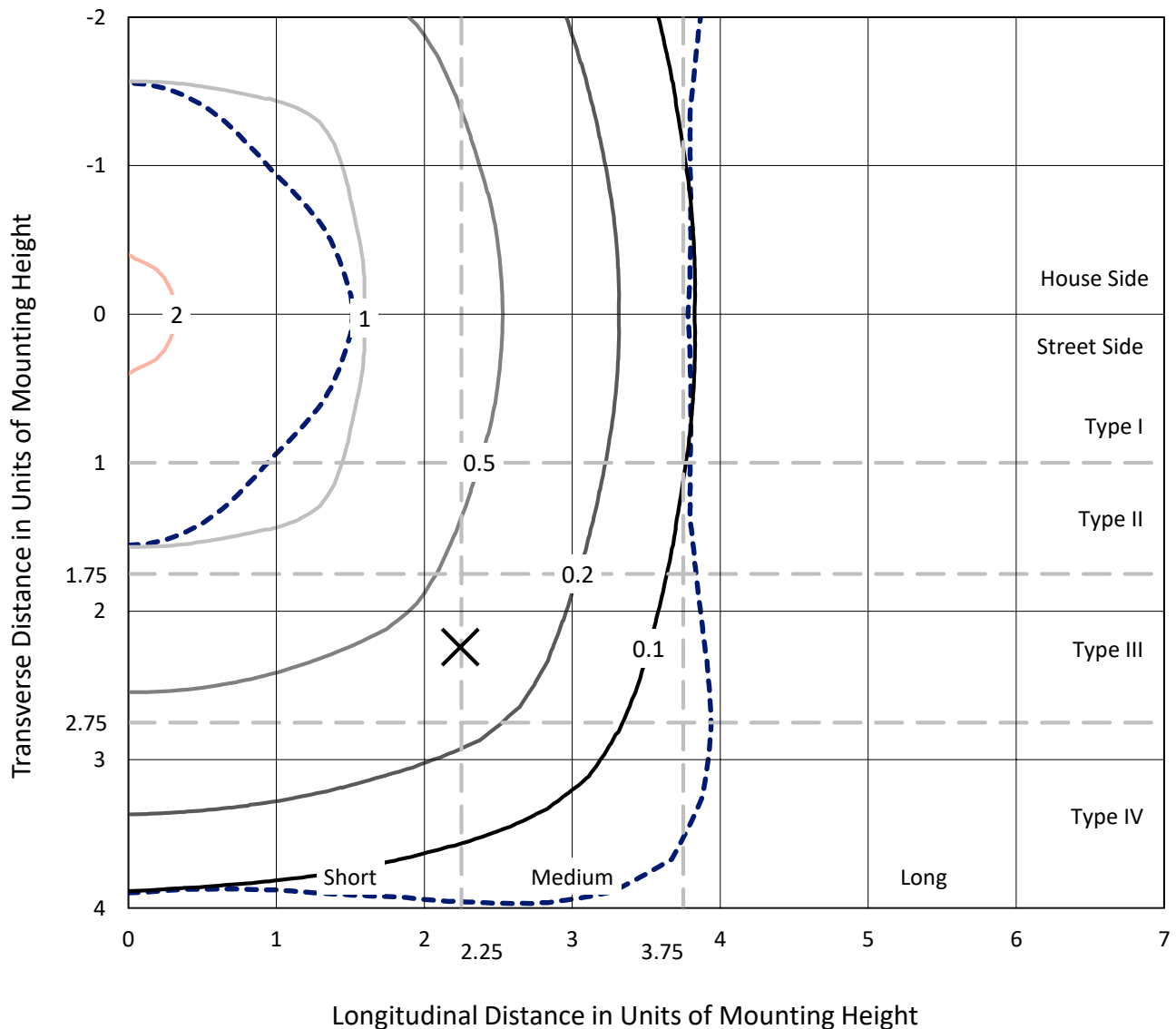


REPORT NUMBER: P192613

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

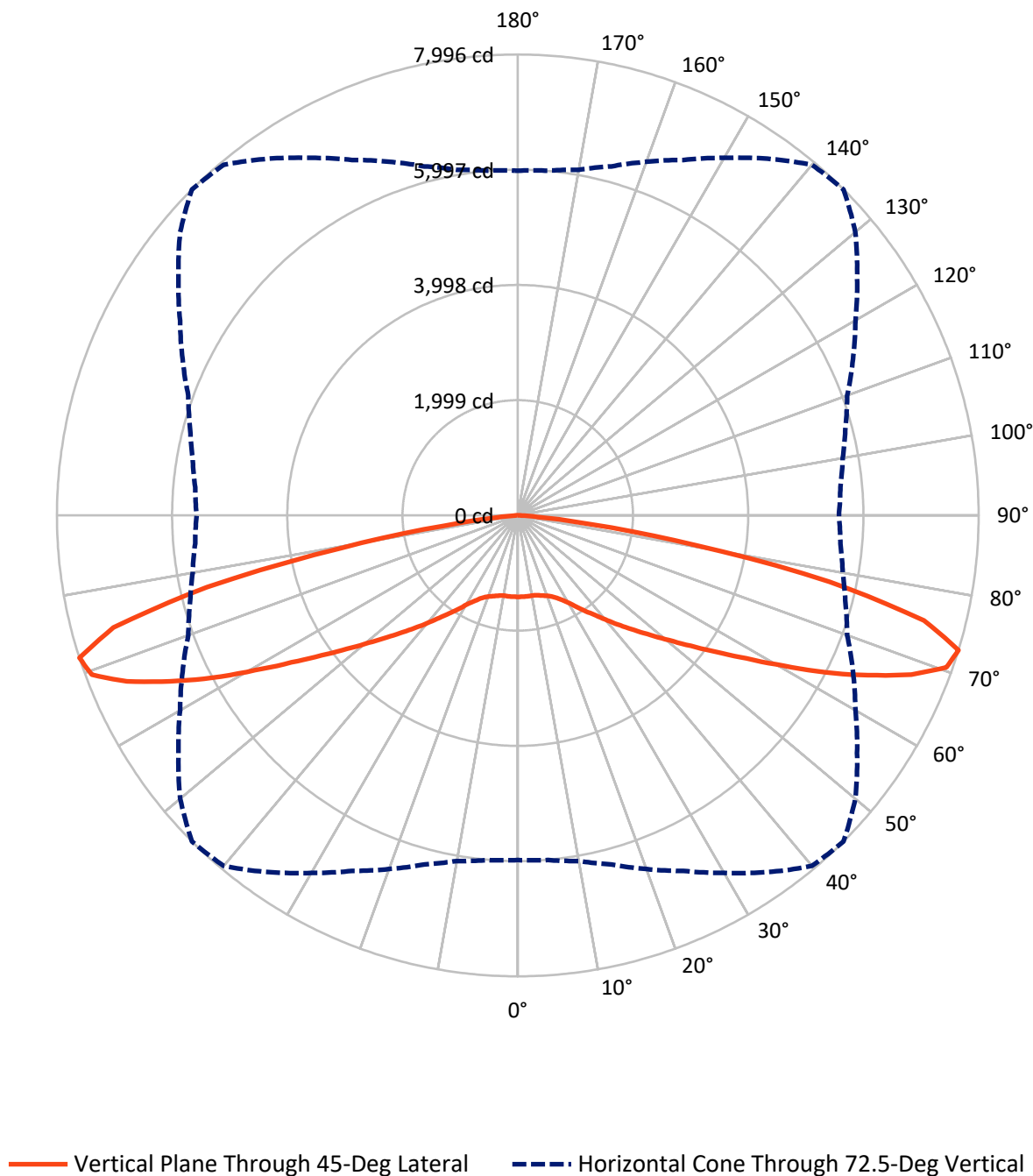


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P192613

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P192613

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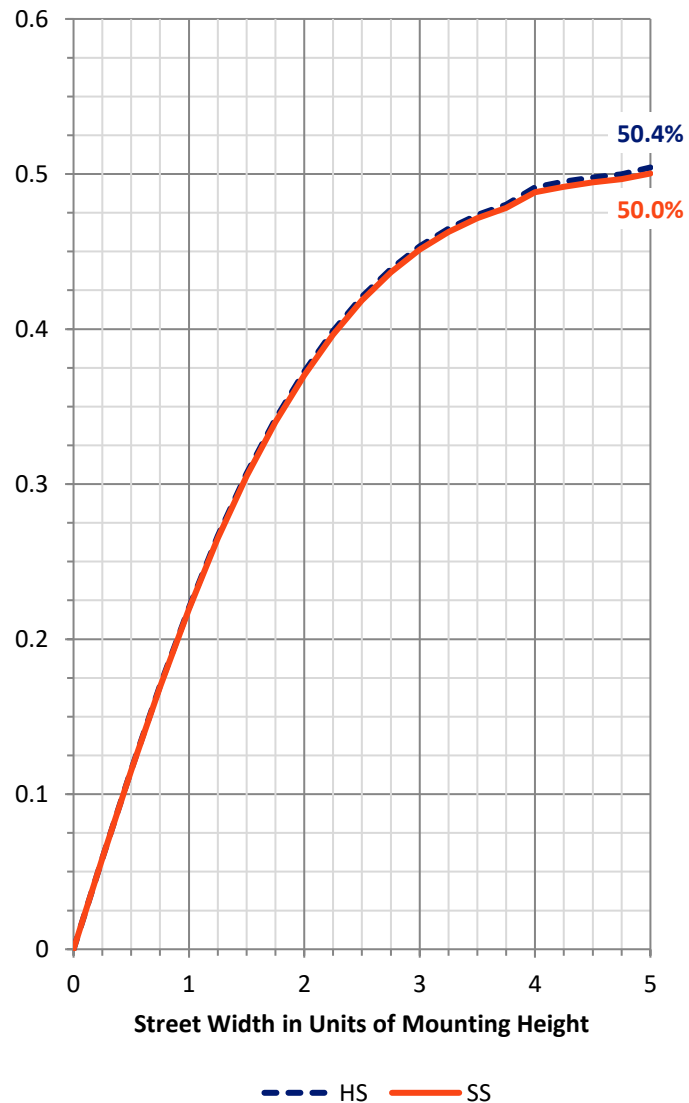
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9984.1	0.0	9984.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9984.1	0.0	9984.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	19968.2	0.0	19968.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	0.7
10°-20°	410.1	2.1
20°-30°	749.4	3.8
30°-40°	1292.1	6.5
40°-50°	2208.8	11.1
50°-60°	3580.2	17.9
60°-70°	5939.5	29.7
70°-80°	5231.3	26.2
80°-90°	421.8	2.1
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°	19968.2	100.0
0°-180°	19968.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192613

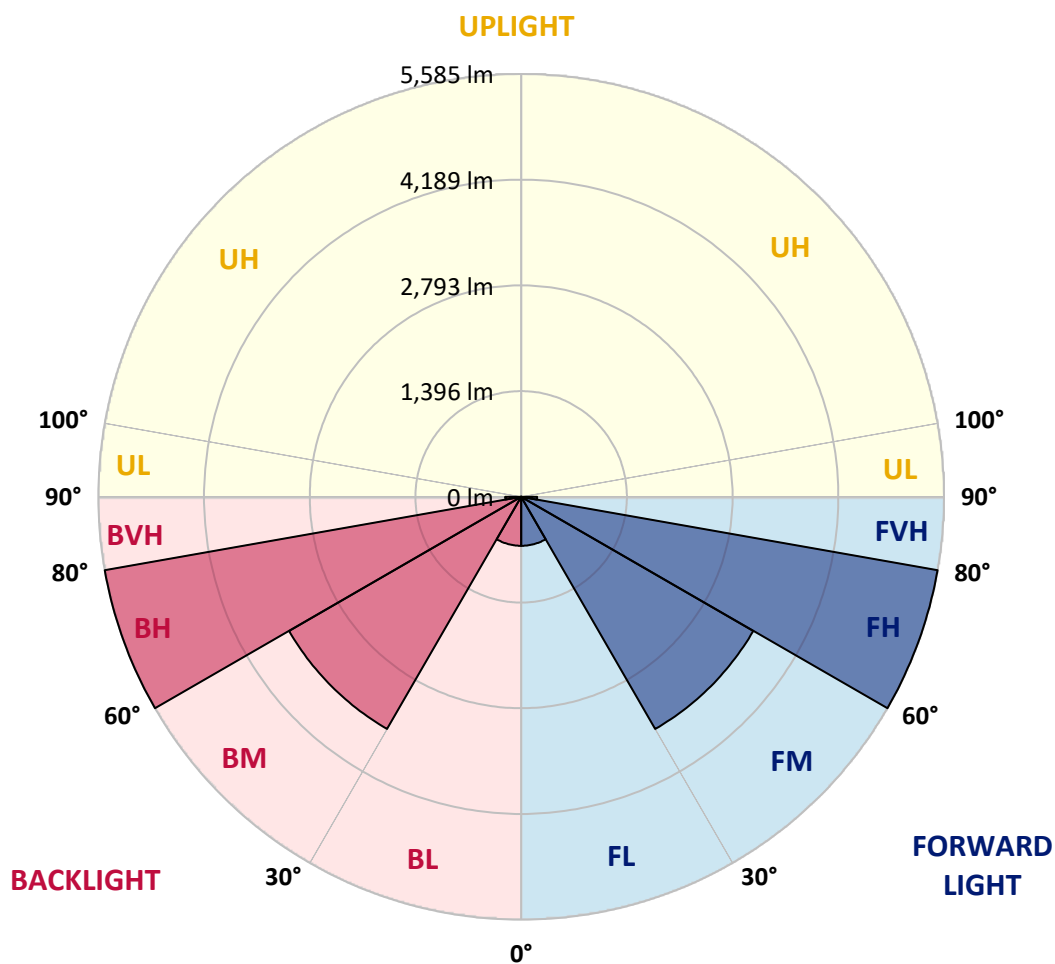
CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.3	3.2			
FM	(30°-60°)	3540.6	17.7			
FH	(60°-80°)	5585.4	28.0			G3/7500
FVH	(80°-90°)	210.9	1.1			G2/225
BL	(0°-30°)	647.3	3.2	B2/1000		
BM	(30°-60°)	3540.6	17.7	B3/5000		
BH	(60°-80°)	5585.4	28.0	B5		G3/7500
BVH	(80°-90°)	210.9	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P192613

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1
2.5°	1414.1	1415.0	1415.9	1415.0	1415.0	1414.1	1413.2	1414.1	1413.2	1411.3	1412.1
5°	1418.6	1420.5	1420.5	1418.6	1419.6	1418.6	1416.8	1417.7	1415.9	1413.2	1413.2
7.5°	1424.0	1425.1	1425.1	1423.2	1424.0	1422.3	1420.5	1419.6	1417.7	1414.1	1411.3
10°	1432.4	1433.3	1432.4	1430.5	1430.5	1427.8	1423.2	1421.4	1417.7	1412.1	1409.5
12.5°	1441.5	1442.4	1441.5	1439.7	1438.8	1434.2	1430.5	1427.8	1425.1	1420.5	1415.9
15°	1454.4	1456.2	1454.4	1450.8	1447.9	1444.3	1442.4	1443.4	1444.3	1440.6	1436.0
17.5°	1478.2	1479.1	1476.3	1468.1	1464.4	1460.8	1460.8	1462.7	1465.3	1463.5	1458.9
20°	1522.1	1519.4	1513.0	1502.9	1498.3	1491.9	1491.0	1491.9	1491.9	1491.0	1487.3
22.5°	1577.0	1575.3	1567.0	1554.2	1547.7	1544.2	1538.6	1534.0	1533.1	1530.4	1526.7
25°	1643.0	1642.0	1632.0	1621.1	1616.5	1611.9	1607.3	1600.8	1595.4	1588.9	1585.4
27.5°	1727.3	1723.6	1709.0	1703.5	1697.1	1694.3	1687.9	1680.5	1676.0	1667.8	1663.2
30°	1819.8	1819.8	1807.9	1806.0	1806.0	1799.6	1792.3	1779.5	1771.2	1763.0	1760.2
32.5°	1912.2	1913.2	1901.3	1904.9	1907.6	1912.2	1914.1	1909.6	1904.1	1903.1	1897.7
35°	2046.0	2042.3	2030.5	2033.2	2032.2	2031.3	2031.3	2041.4	2043.2	2045.2	2034.1
37.5°	2211.7	2211.7	2199.8	2199.8	2194.4	2188.9	2181.6	2187.9	2198.0	2200.8	2193.5
40°	2401.3	2407.7	2393.1	2392.2	2394.0	2376.6	2368.4	2378.5	2384.8	2395.8	2387.7
42.5°	2624.9	2620.2	2605.7	2603.7	2593.7	2588.2	2580.8	2589.1	2599.2	2606.5	2609.2
45°	2839.1	2835.5	2819.0	2819.0	2808.8	2804.3	2808.0	2821.7	2826.3	2836.4	2846.4
47.5°	3050.6	3046.0	3035.1	3039.7	3040.5	3048.9	3060.8	3073.6	3086.3	3100.1	3104.7
50°	3266.9	3267.7	3255.8	3266.9	3280.5	3303.5	3335.4	3356.6	3383.1	3400.4	3406.0
52.5°	3463.7	3467.4	3480.2	3505.8	3533.3	3578.2	3633.2	3684.4	3728.4	3757.8	3755.9
55°	3699.9	3705.5	3736.6	3780.6	3825.5	3893.2	3974.8	4065.4	4138.7	4180.8	4154.2
57.5°	4002.2	4014.1	4048.9	4108.4	4175.4	4263.3	4375.0	4511.5	4625.1	4681.8	4638.7
60°	4417.2	4424.5	4466.5	4532.5	4613.2	4722.0	4871.4	5054.6	5214.8	5289.9	5240.4
62.5°	4963.8	4977.7	5011.5	5078.4	5160.8	5284.5	5466.7	5695.5	5895.3	5999.7	5888.0
65°	5616.9	5660.8	5689.2	5757.0	5833.9	5964.9	6155.3	6400.9	6615.1	6683.8	6554.7
67.5°	6263.4	6301.8	6351.3	6429.3	6507.1	6654.6	6831.2	7069.4	7304.7	7367.1	7166.5
70°	6546.5	6568.4	6645.3	6751.5	6901.0	7074.9	7279.1	7546.5	7837.8	7889.1	7634.5
72.5°	5979.5	6001.5	6087.6	6267.9	6528.1	6804.6	7161.0	7553.8	7938.6	7996.2	7645.4
75°	4522.5	4486.7	4614.0	4853.1	5203.8	5589.3	6087.6	6650.8	7206.7	7279.1	6860.6
77.5°	2337.3	2332.6	2428.9	2725.6	3144.1	3582.7	4131.3	4767.8	5311.8	5531.7	5191.0
80°	658.5	665.8	711.6	859.1	1103.6	1420.5	1849.1	2445.3	2890.4	3117.5	2927.0
82.5°	258.3	278.4	295.8	323.3	355.3	402.1	536.7	798.5	1071.5	1280.3	1048.7
85°	92.6	98.9	140.1	165.7	168.5	177.6	202.3	236.3	284.8	339.8	279.3
87.5°	34.9	38.5	44.9	74.2	73.3	66.8	81.5	85.2	64.1	58.6	72.3
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: P192613

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1	1414.1
2.5°	1410.4	1411.3	1411.3	1412.1	1413.2	1413.2	1415.0	1415.0
5°	1411.3	1411.3	1409.5	1410.4	1409.5	1409.5	1410.4	1410.4
7.5°	1409.5	1408.6	1406.7	1405.8	1404.0	1404.0	1404.0	1404.0
10°	1406.7	1405.8	1404.0	1403.1	1402.2	1402.2	1402.2	1402.2
12.5°	1414.1	1411.3	1409.5	1408.6	1408.6	1408.6	1408.6	1408.6
15°	1433.3	1426.9	1422.3	1422.3	1423.2	1425.1	1425.1	1426.9
17.5°	1457.1	1449.8	1445.2	1441.5	1443.4	1446.1	1447.9	1449.8
20°	1485.5	1481.9	1475.4	1471.7	1471.7	1475.4	1477.3	1478.2
22.5°	1524.9	1522.1	1519.4	1514.8	1514.8	1516.6	1520.4	1520.4
25°	1583.5	1581.6	1579.8	1576.2	1575.3	1575.3	1577.0	1578.9
27.5°	1656.8	1657.7	1655.9	1655.0	1652.2	1651.2	1653.9	1653.1
30°	1754.7	1759.3	1763.9	1760.2	1755.7	1752.9	1750.3	1746.5
32.5°	1887.6	1882.1	1878.3	1871.9	1863.8	1856.5	1851.0	1844.6
35°	2013.0	2003.9	2000.2	2005.7	2004.8	2000.2	1993.8	1988.3
37.5°	2166.8	2165.1	2166.8	2177.0	2175.2	2179.7	2166.8	2165.9
40°	2361.1	2362.8	2375.8	2387.7	2394.0	2400.4	2393.1	2385.7
42.5°	2586.3	2585.4	2590.0	2606.5	2617.6	2624.9	2609.2	2607.4
45°	2824.5	2818.1	2821.7	2835.5	2846.4	2854.7	2837.3	2837.3
47.5°	3086.3	3075.4	3063.5	3079.0	3085.5	3091.0	3077.2	3072.7
50°	3378.6	3355.7	3330.0	3336.4	3336.4	3334.6	3317.2	3316.2
52.5°	3713.7	3671.6	3624.9	3607.5	3597.5	3586.4	3556.2	3541.5
55°	4099.3	4036.1	3962.9	3917.9	3894.1	3864.0	3813.5	3799.8
57.5°	4549.9	4451.0	4324.6	4269.7	4216.6	4167.0	4111.2	4095.7
60°	5083.9	4938.2	4770.6	4668.9	4611.3	4563.6	4506.0	4503.2
62.5°	5679.2	5449.3	5259.6	5168.1	5126.0	5083.9	5028.8	5036.2
65°	6284.5	6044.6	5866.9	5792.7	5753.4	5718.5	5663.6	5671.7
67.5°	6881.5	6660.9	6465.9	6389.8	6345.9	6301.8	6252.5	6260.7
70°	7310.2	7036.4	6816.5	6648.1	6542.8	6423.7	6346.8	6327.5
72.5°	7187.5	6765.4	6416.4	6082.1	5886.2	5726.8	5618.6	5572.0
75°	6220.3	5643.5	5194.6	4784.4	4553.6	4365.8	4229.3	4144.2
77.5°	4619.5	3971.1	3440.8	2968.2	2594.6	2343.6	2166.8	2052.4
80°	2528.6	1923.3	1405.8	988.1	726.2	603.5	532.9	499.1
82.5°	787.6	508.3	374.5	323.3	300.4	287.6	266.5	232.6
85°	251.0	219.8	204.2	195.0	186.0	162.1	111.8	101.6
87.5°	97.1	99.9	98.9	93.4	95.3	68.8	54.9	48.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)