

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: P302842

Luminaire Tested: **GLNA-AF-04-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-T4W-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15666.3 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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



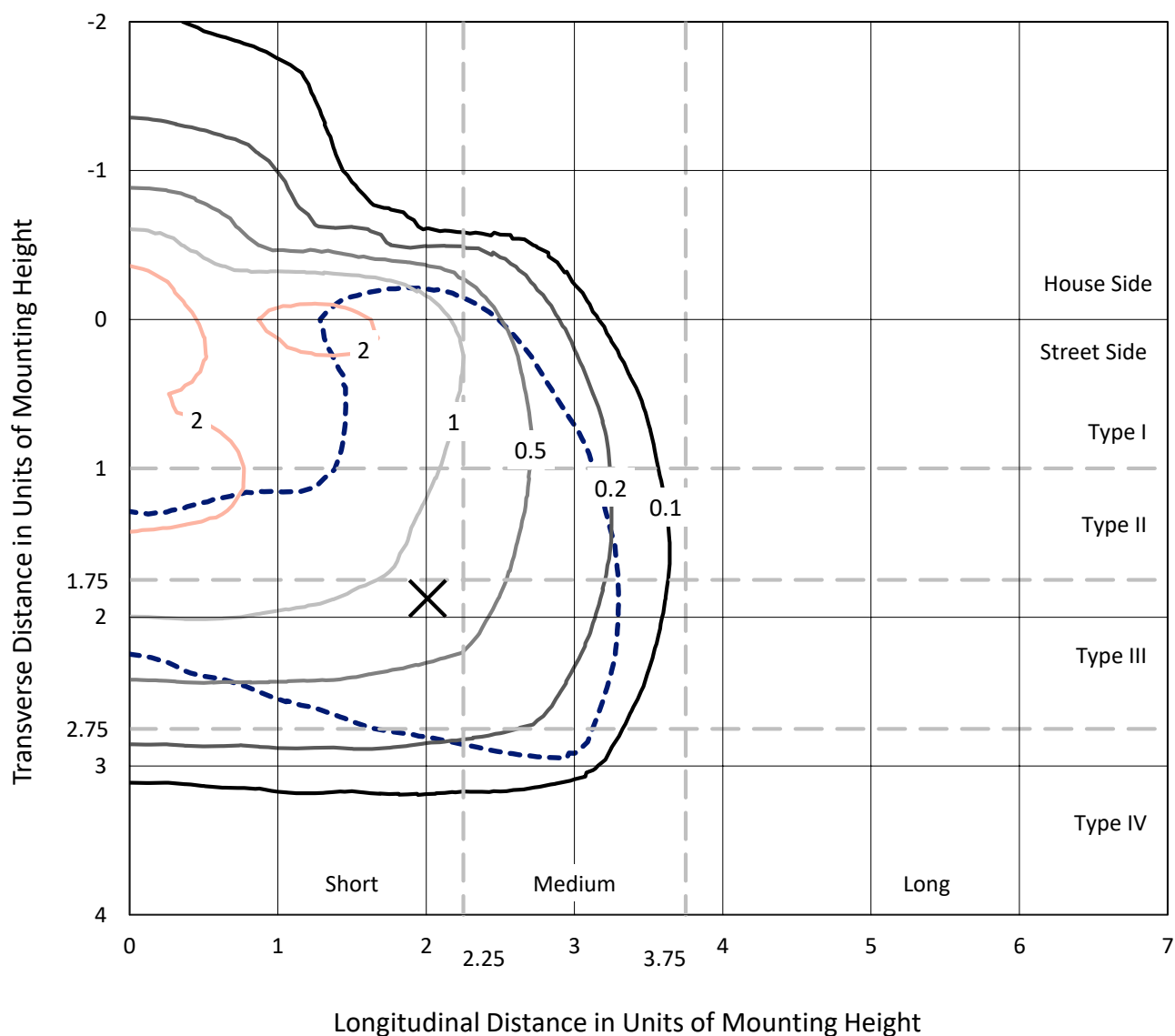
REPORT NUMBER: P302842

CATALOG NUMBER: GLNA-AF-04-LED-E1-T4W-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

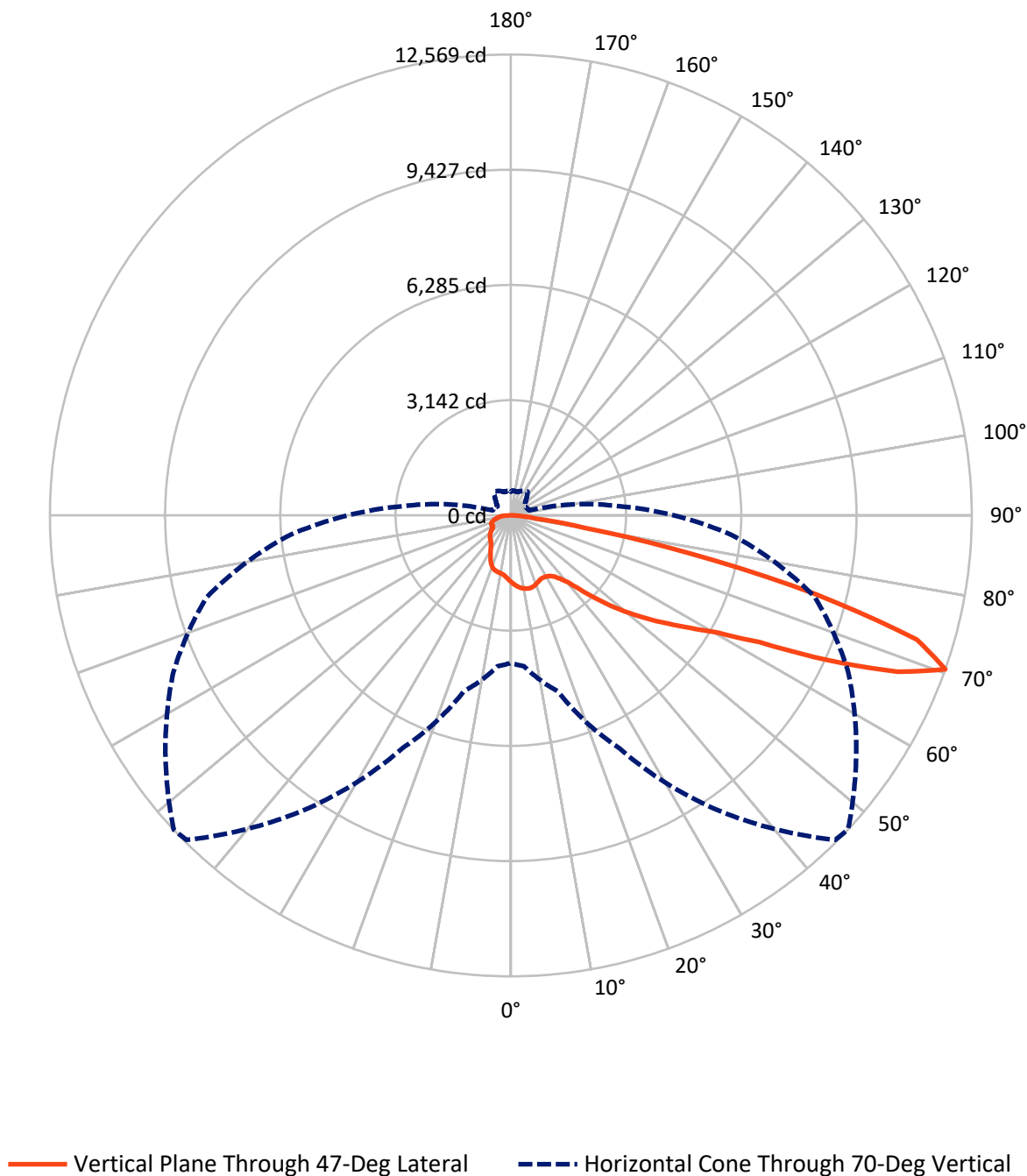


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P302842

CATALOG NUMBER: GLNA-AF-04-LED-E1-T4W-8030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P302842

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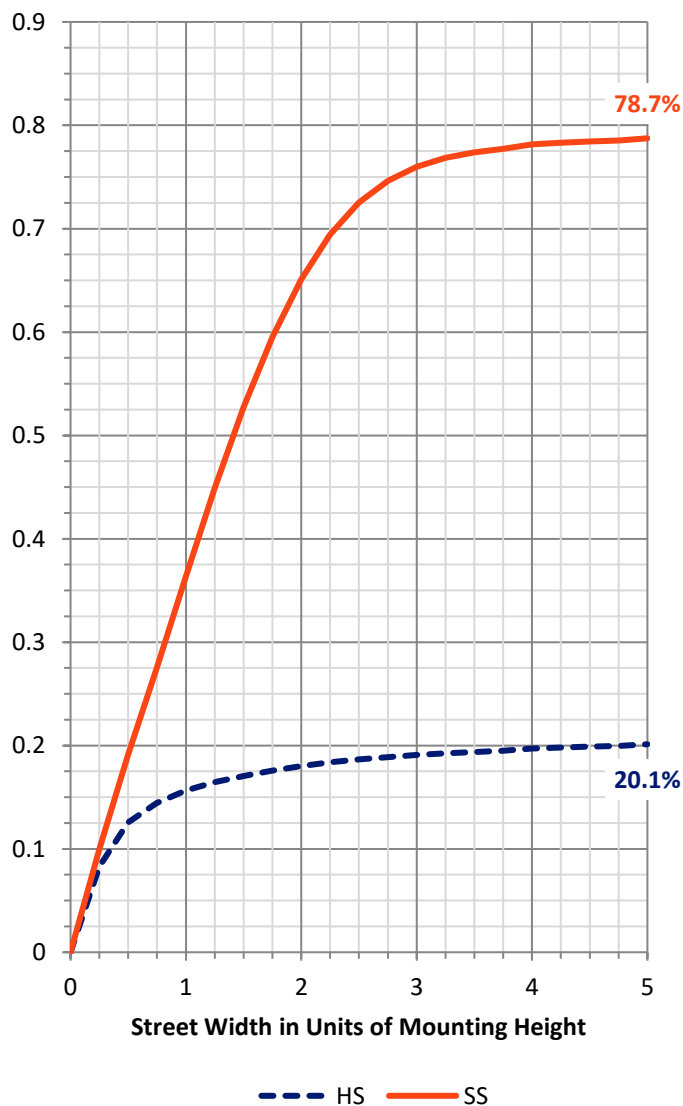
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3268.3	0.0	3268.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	12398.0	0.0	12398.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	15666.3	0.0	15666.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.1
10°-20°	511.0	3.3
20°-30°	754.6	4.8
30°-40°	1096.8	7.0
40°-50°	1973.8	12.6
50°-60°	3419.4	21.8
60°-70°	4880.5	31.2
70°-80°	2505.4	16.0
80°-90°	350.8	2.2
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°	15666.3	100.0
0°-180°	15666.3	100.0

Coefficient of Utilization



REPORT NUMBER: P302842

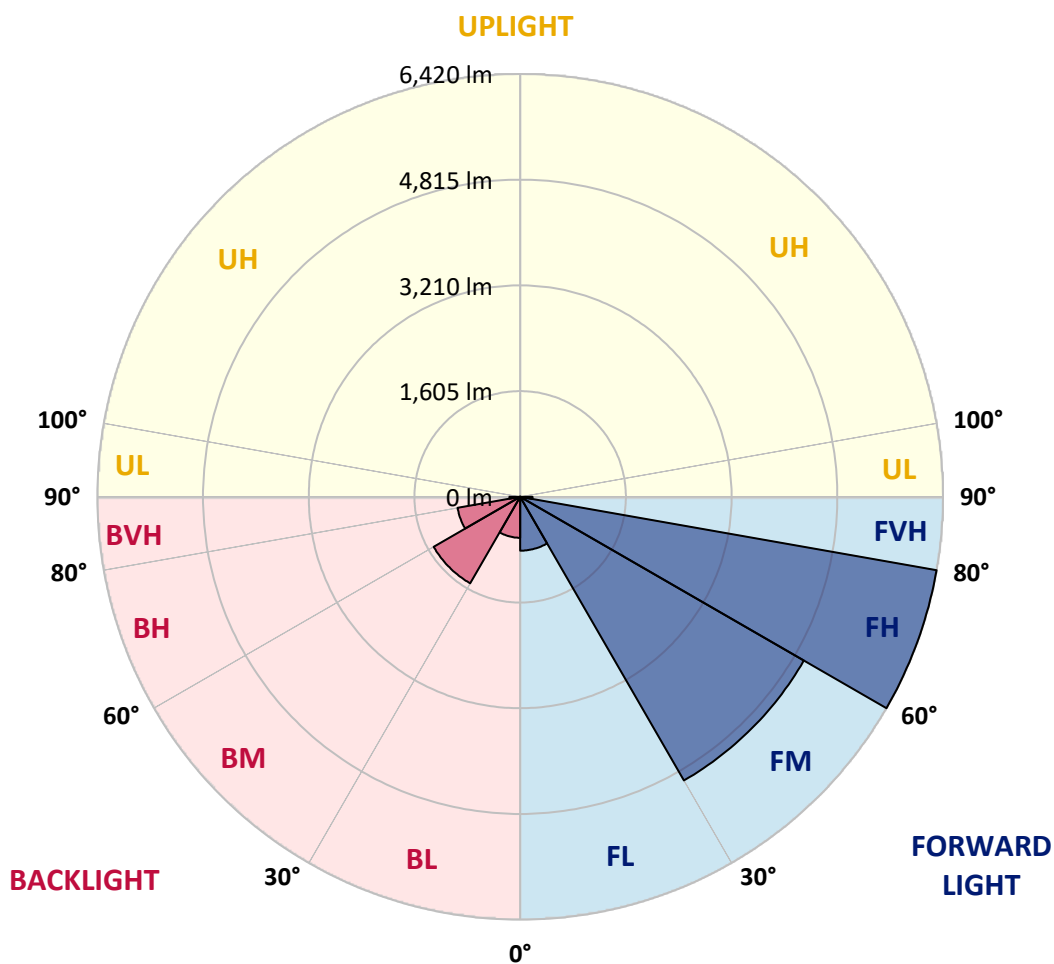
CATALOG NUMBER: GLNA-AF-04-LED-E1-T4W-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.4	5.2			
FM	(30°-60°)	4972.9	31.7			
FH	(60°-80°)	6420.5	41.0			G3/7500
FVH	(80°-90°)	187.2	1.2			G2/225
BL	(0°-30°)	622.3	4.0	B2/1000		
BM	(30°-60°)	1517.0	9.7	B2/2500		
BH	(60°-80°)	965.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	163.6	1.0			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



REPORT NUMBER: P302842

CATALOG NUMBER: GLNA-AF-04-LED-E1-T4W-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7
2.5°	1924.6	1920.8	1919.2	1916.2	1912.4	1893.2	1889.4	1875.7	1856.7	1836.7	1816.2
5°	2051.1	2050.4	2041.8	2026.6	2002.3	1960.3	1950.4	1917.0	1871.9	1828.4	1785.1
7.5°	2162.3	2155.4	2139.5	2108.8	2066.3	2009.1	1995.4	1948.9	1887.1	1827.6	1768.9
10°	2243.8	2240.0	2205.0	2163.0	2107.3	2044.0	2028.1	1976.2	1908.4	1832.9	1759.8
12.5°	2290.3	2282.7	2242.2	2192.1	2125.8	2064.0	2047.8	1995.4	1919.2	1832.9	1746.9
15°	2287.3	2282.0	2241.5	2186.6	2119.7	2065.6	2051.1	1998.5	1917.0	1825.3	1730.2
17.5°	2226.3	2228.6	2194.4	2140.2	2085.3	2044.0	2031.1	1982.5	1901.5	1810.1	1710.4
20°	2119.7	2130.4	2107.3	2059.5	2028.9	2000.8	1992.4	1951.1	1878.0	1788.1	1688.9
22.5°	2012.9	2022.8	2013.7	1973.2	1968.6	1951.9	1947.3	1917.7	1857.5	1774.5	1676.0
25°	1934.4	1943.5	1942.0	1906.8	1920.8	1920.0	1916.2	1901.5	1852.9	1774.5	1678.3
27.5°	1913.2	1916.2	1913.2	1881.0	1900.0	1915.4	1912.4	1909.9	1866.6	1796.5	1707.4
30°	1986.3	1981.8	1958.0	1893.2	1910.9	1932.2	1929.1	1930.6	1907.6	1854.4	1772.2
32.5°	2278.2	2257.4	2182.8	2000.8	1954.2	1965.6	1967.1	1992.4	1996.2	1943.5	1872.7
35°	2714.8	2692.1	2595.1	2288.8	2089.1	2049.6	2049.6	2087.6	2110.4	2071.6	2028.9
37.5°	3177.6	3152.3	3100.6	2688.3	2372.6	2195.2	2191.4	2217.9	2250.6	2260.0	2270.6
40°	3703.3	3676.7	3691.2	3136.3	2768.2	2447.3	2393.1	2374.1	2462.5	2521.2	2606.8
42.5°	4278.9	4266.5	4271.9	3635.5	3218.6	2824.7	2747.7	2649.3	2756.1	2860.4	3039.6
45°	4811.5	4822.2	4816.8	4169.8	3720.3	3284.9	3203.4	3012.8	3117.3	3296.3	3588.4
47.5°	5278.1	5233.8	5302.4	4753.6	4282.0	3800.3	3699.5	3444.4	3550.2	3771.2	4265.0
50°	5844.3	5838.2	5737.7	5532.7	4960.9	4317.7	4185.8	3890.1	4054.7	4362.0	5118.1
52.5°	6439.7	6329.1	6236.9	6138.4	5681.3	4848.2	4686.5	4334.4	4647.8	5034.0	6157.7
55°	6561.4	6512.1	6626.2	6791.8	6375.6	5399.3	5211.0	4891.5	5315.5	5802.5	7356.5
57.5°	6822.2	6821.4	7057.8	7352.7	7090.5	5983.8	5793.9	5564.6	6066.1	6682.7	8629.3
60°	6998.3	7047.7	7486.9	8059.2	7792.4	6659.1	6484.5	6341.2	6919.9	7666.6	9815.2
62.5°	7090.5	7157.6	7756.7	8345.8	8784.7	7783.3	7608.9	7402.3	8049.3	8746.0	10508.8
65°	6707.2	6838.9	7714.7	8593.6	9653.7	9605.6	9527.1	9164.4	9461.6	9598.8	10258.2
67.5°	5646.1	5781.0	6800.9	8362.5	10274.1	11363.3	11380.0	10760.4	10330.6	9671.9	8624.7
70°	4022.8	4128.6	4972.5	7011.2	9801.5	12511.8	12569.0	11495.7	10157.4	8577.4	6025.8
72.5°	1909.9	1974.7	2773.6	4563.2	7778.0	11463.8	11574.5	10556.9	8636.9	6350.3	3287.2
75°	701.9	721.7	937.3	1941.3	4511.3	8454.1	8584.5	7567.6	5725.3	3161.6	1252.2
77.5°	420.7	433.6	526.0	819.4	1774.5	4832.3	5024.9	4115.7	2502.2	1176.8	615.9
80°	294.1	303.3	377.2	509.8	838.4	1841.5	2012.9	1679.8	996.8	744.7	448.0
82.5°	199.0	203.5	265.3	344.5	557.1	657.6	709.5	747.0	672.3	554.1	284.3
85°	130.4	134.9	180.0	227.1	354.4	340.0	347.5	439.7	490.8	376.4	157.7
87.5°	74.7	77.7	108.3	121.3	173.9	144.0	145.6	231.6	314.1	253.9	95.9
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: P302842

CATALOG NUMBER: GLNA-AF-04-LED-E1-T4W-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7
2.5°	1810.9	1801.0	1779.0	1765.1	1752.2	1749.1	1743.8	1743.1	1742.3	1742.3	1740.0
5°	1770.4	1753.7	1719.5	1700.3	1684.3	1682.8	1682.1	1685.9	1687.4	1688.9	1686.6
7.5°	1744.6	1721.8	1679.0	1651.7	1632.7	1627.9	1635.7	1653.2	1664.6	1669.2	1666.9
10°	1728.6	1700.3	1650.9	1621.1	1605.1	1602.8	1612.7	1633.5	1657.0	1666.1	1665.4
12.5°	1710.4	1678.3	1625.6	1594.5	1585.4	1589.9	1602.8	1621.8	1646.4	1660.8	1661.6
15°	1691.9	1654.7	1600.6	1573.2	1569.4	1575.5	1587.6	1602.1	1621.1	1635.7	1637.3
17.5°	1669.9	1630.9	1577.0	1548.7	1545.6	1548.7	1549.4	1557.0	1569.4	1583.1	1586.9
20°	1646.4	1606.6	1550.2	1522.1	1508.4	1496.3	1482.3	1483.9	1487.7	1501.6	1504.6
22.5°	1629.4	1589.9	1529.7	1490.7	1454.2	1417.5	1390.2	1386.4	1387.9	1399.3	1403.1
25°	1630.9	1589.2	1524.4	1457.3	1377.3	1318.6	1281.9	1275.8	1275.0	1283.4	1288.9
27.5°	1660.8	1618.8	1544.1	1422.9	1293.5	1206.4	1167.7	1163.1	1157.1	1159.3	1165.4
30°	1727.1	1688.1	1592.2	1387.9	1202.6	1096.8	1056.3	1051.8	1043.4	1039.6	1044.2
32.5°	1835.2	1803.3	1662.3	1354.3	1112.0	1002.9	961.9	952.0	946.7	942.2	946.0
35°	2015.2	2001.5	1756.0	1317.8	1032.0	930.5	893.3	878.1	870.5	878.9	884.9
37.5°	2297.2	2304.8	1878.7	1260.6	970.3	882.7	851.3	833.8	822.4	829.3	836.1
40°	2696.6	2701.9	2014.4	1179.8	916.8	854.3	820.9	805.0	788.8	776.6	775.8
42.5°	3220.8	3166.9	2147.8	1092.3	855.1	836.9	799.6	779.6	755.3	721.7	714.8
45°	3842.8	3653.2	2249.1	991.5	785.7	815.6	775.8	748.5	710.3	673.8	670.0
47.5°	4559.4	4175.2	2298.7	887.2	720.9	784.2	747.0	703.5	655.4	637.1	634.9
50°	5434.2	4794.8	2322.2	785.7	664.7	743.2	705.0	653.8	613.6	609.8	607.5
52.5°	6430.6	5540.3	2330.1	702.7	618.1	689.8	670.8	621.2	589.0	592.3	592.3
55°	7473.2	6310.1	2226.3	642.4	575.4	634.9	647.8	608.3	581.4	593.8	598.4
57.5°	8430.3	6992.3	1900.0	596.1	535.1	593.1	639.4	620.4	602.2	651.6	654.6
60°	9165.1	7395.2	1419.1	554.1	505.3	578.4	661.7	667.0	671.6	789.5	805.7
62.5°	9319.0	7261.3	975.6	521.5	491.6	590.8	701.9	702.7	697.4	779.6	789.5
65°	8612.6	6412.8	709.5	503.0	480.2	612.8	736.4	720.2	685.2	747.8	729.3
67.5°	6839.6	4831.5	590.8	489.3	463.5	611.3	772.8	736.4	678.4	732.6	702.7
70°	4439.7	2921.4	526.0	477.9	443.5	582.2	794.1	734.8	658.4	681.4	646.2
72.5°	2166.0	1306.4	482.5	461.2	423.0	542.0	793.3	720.9	637.9	636.4	617.4
75°	847.5	598.4	442.7	435.9	388.1	496.1	772.1	701.2	613.6	589.0	582.2
77.5°	496.1	426.8	392.6	398.7	346.0	450.3	740.9	667.0	579.9	551.1	543.5
80°	361.2	319.5	334.6	344.5	295.7	404.8	698.9	625.0	542.7	557.1	546.5
82.5°	231.6	205.8	271.4	281.2	246.3	358.2	653.1	580.7	490.1	445.0	434.4
85°	118.2	130.4	202.0	214.1	189.8	294.1	597.6	522.2	430.6	370.3	376.4
87.5°	66.3	89.1	128.8	144.0	134.2	226.3	484.7	430.6	351.3	285.8	251.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)