

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: P199964

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL3-7030-600-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6648.6 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

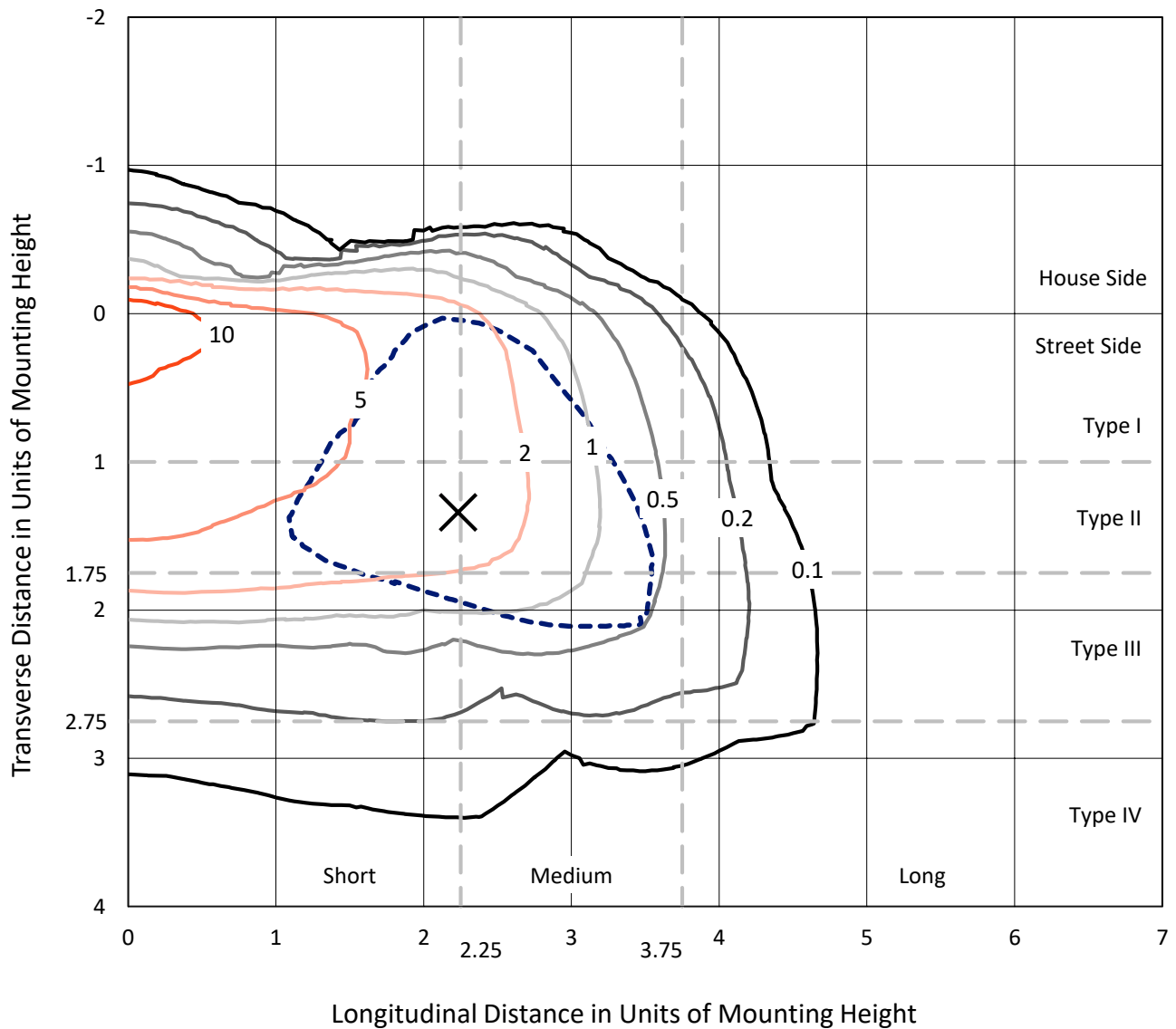


REPORT NUMBER: P199964

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

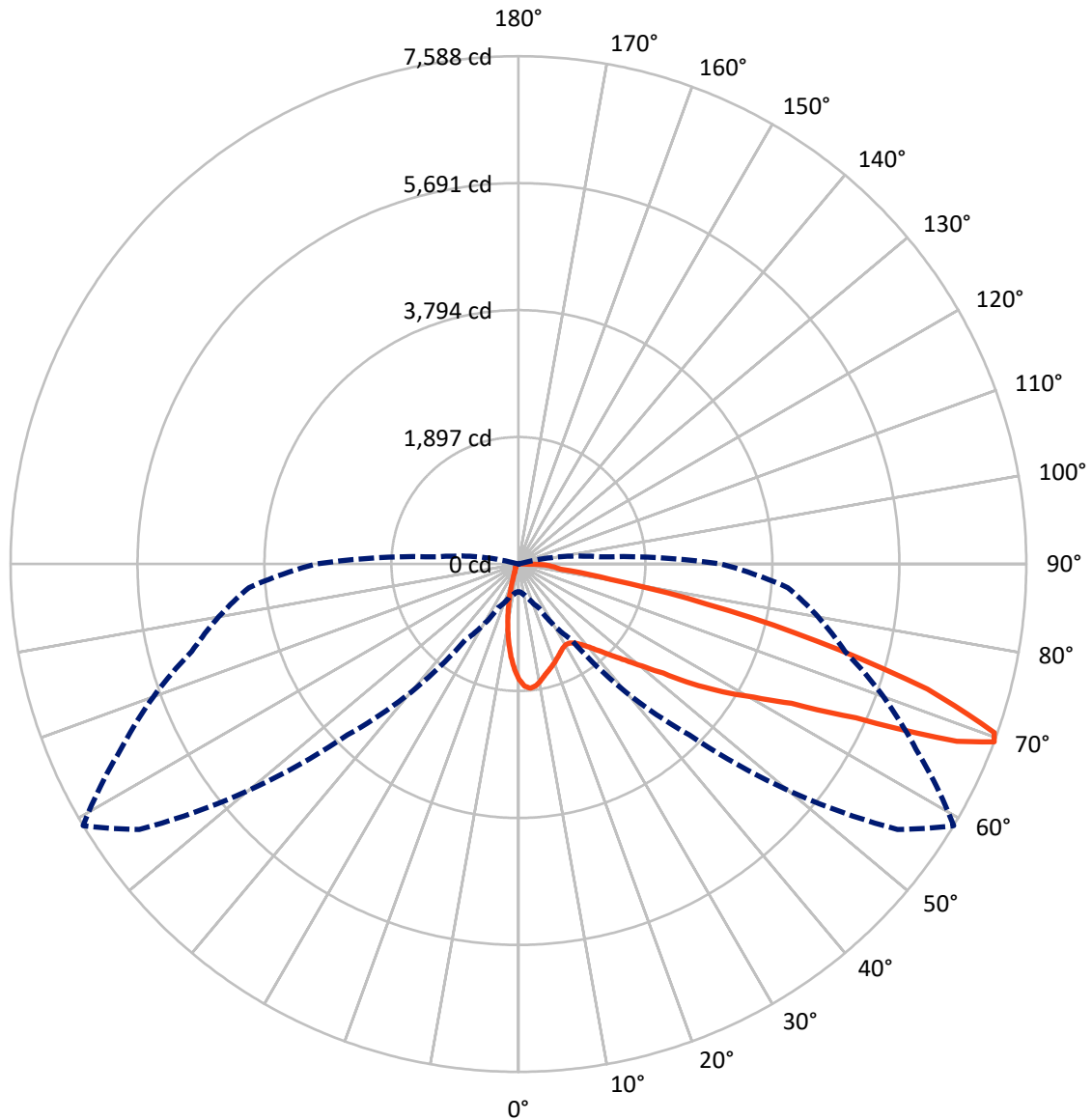


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P199964

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-600-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P199964

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-600-HSS

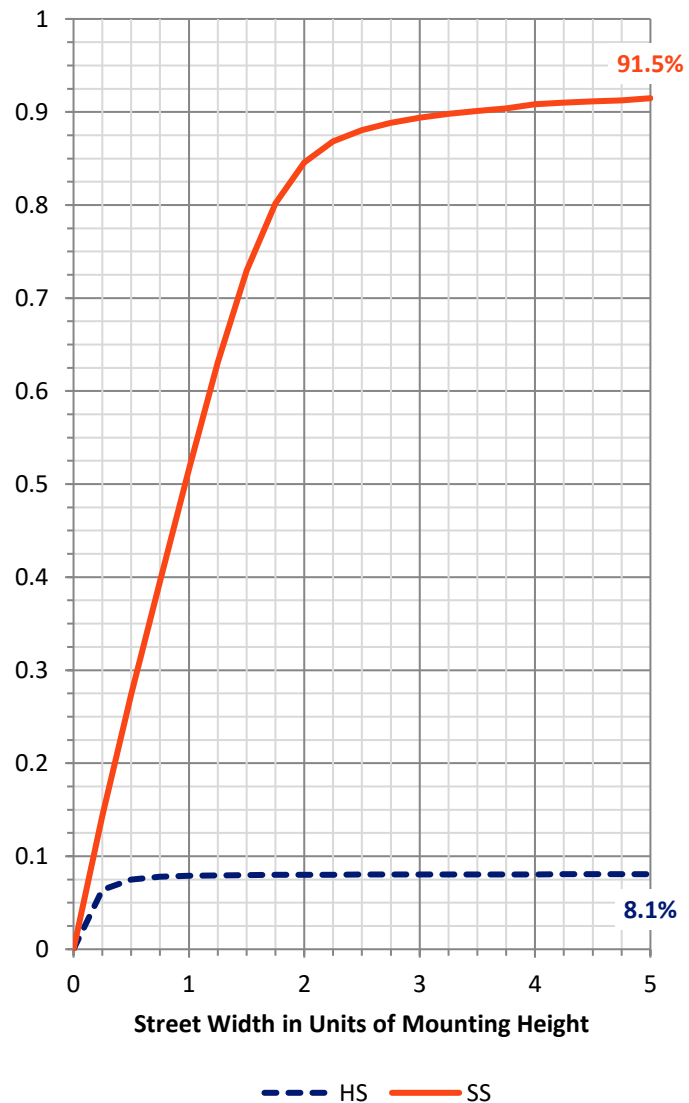
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	541.5	0.0	541.5
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	6107.1	0.0	6107.1
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	6648.6	0.0	6648.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	2.1
10°-20°	290.2	4.4
20°-30°	390.6	5.9
30°-40°	567.1	8.5
40°-50°	944.2	14.2
50°-60°	1473.0	22.2
60°-70°	1822.7	27.4
70°-80°	923.7	13.9
80°-90°	96.7	1.5
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°	6648.6	100.0
0°-180°	6648.6	100.0



REPORT NUMBER: P199964

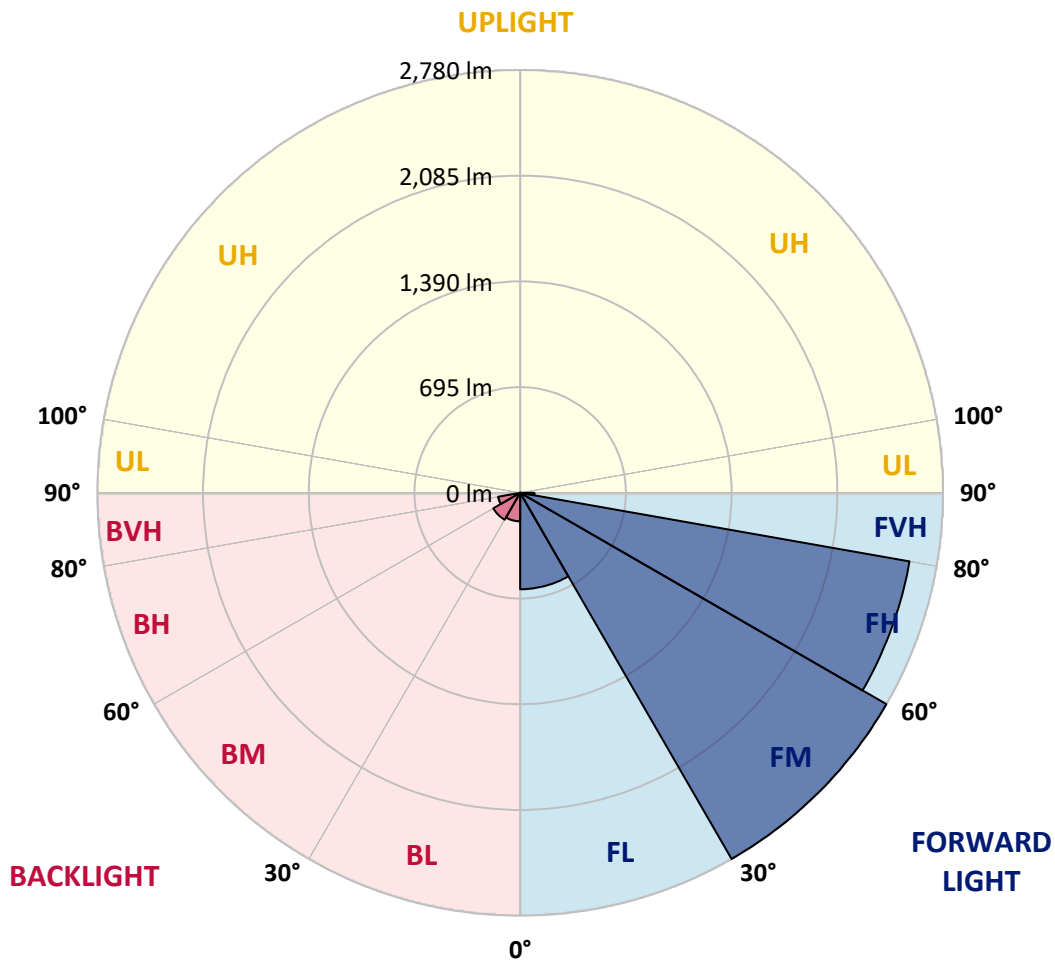
CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-600-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.9	9.5			
FM (30°-60°)	2780.2	41.8			
FH (60°-80°)	2599.3	39.1			G2/5000
FVH (80°-90°)	93.7	1.4			G1/100
BL (0°-30°)	187.4	2.8	B1/500		
BM (30°-60°)	204.0	3.1	B0/220		
BH (60°-80°)	147.1	2.2	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





REPORT NUMBER: P199964

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-600-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1896.7	1896.0	1887.7	1883.9	1877.2	1862.9	1840.6	1829.0	1810.2	1777.5	1733.6
5°	1879.4	1888.4	1893.3	1893.7	1898.5	1893.3	1873.4	1863.6	1837.6	1785.0	1706.1
7.5°	1762.1	1765.5	1779.4	1791.4	1814.8	1836.9	1844.1	1839.9	1824.5	1768.1	1663.2
10°	1636.6	1639.9	1656.4	1672.2	1703.8	1738.1	1774.2	1781.7	1788.0	1744.1	1621.9
12.5°	1528.3	1531.6	1548.6	1569.2	1606.1	1648.2	1704.2	1716.6	1744.8	1721.1	1588.8
15°	1435.1	1436.6	1453.1	1478.7	1522.6	1576.7	1640.3	1660.2	1703.5	1705.0	1559.9
17.5°	1355.7	1359.5	1369.6	1394.0	1442.2	1509.1	1583.2	1611.8	1662.5	1691.5	1531.6
20°	1307.1	1310.9	1310.6	1324.1	1367.3	1438.8	1526.0	1560.2	1621.9	1677.5	1506.5
22.5°	1297.8	1297.8	1288.0	1286.1	1311.7	1371.5	1466.6	1508.3	1585.4	1671.5	1488.8
25°	1331.2	1329.7	1305.3	1285.3	1286.5	1322.2	1409.1	1458.7	1554.6	1675.7	1479.4
27.5°	1401.9	1400.1	1369.2	1331.2	1300.8	1300.4	1365.5	1418.9	1530.1	1695.2	1483.2
30°	1499.7	1499.0	1465.5	1417.7	1362.5	1311.7	1350.4	1398.9	1514.3	1730.5	1491.8
32.5°	1606.5	1605.3	1580.2	1529.8	1459.9	1362.5	1366.2	1406.8	1518.8	1777.5	1512.8
35°	1719.6	1717.8	1706.8	1662.9	1585.8	1456.1	1418.1	1449.7	1547.4	1847.8	1554.2
37.5°	1842.1	1844.1	1851.9	1809.8	1729.0	1587.3	1505.0	1526.4	1605.0	1943.3	1621.5
40°	2023.0	2022.6	2025.3	1970.0	1892.2	1747.8	1626.4	1633.1	1701.2	2070.0	1723.8
42.5°	2351.3	2328.3	2258.8	2146.0	2067.7	1931.3	1779.4	1772.2	1818.8	2226.8	1867.0
45°	2792.2	2743.3	2562.8	2346.7	2246.7	2138.1	1967.7	1944.8	1974.5	2415.2	2043.6
47.5°	3171.5	3120.8	2865.5	2555.8	2436.5	2334.3	2188.4	2147.1	2156.8	2626.0	2267.8
50°	3300.5	3275.7	3052.7	2737.7	2620.4	2581.3	2444.5	2394.1	2380.1	2870.0	2527.5
52.5°	3255.7	3253.9	3105.4	2855.7	2788.8	2837.0	2766.6	2708.4	2657.3	3127.2	2791.8
55°	3184.0	3193.3	3126.8	2959.2	2956.9	3070.5	3207.3	3158.7	3010.6	3406.5	3019.7
57.5°	2985.8	3026.1	3114.8	3154.7	3247.1	3363.2	3574.2	3602.8	3427.6	3620.5	3208.8
60°	2422.7	2511.0	2801.2	3182.8	3621.2	3910.7	4017.0	4041.5	3769.7	3798.2	3464.0
62.5°	1719.6	1809.8	2177.9	2823.4	3626.8	4629.9	4676.8	4581.0	4146.4	4061.8	3904.3
65°	912.9	982.3	1283.1	2038.1	3144.5	4796.8	5830.7	5544.9	4811.1	4580.3	4473.1
67.5°	466.9	488.0	607.5	997.4	2161.8	4260.6	6864.9	7066.0	5956.6	5094.5	4445.7
69°	413.2	425.5	504.9	721.1	1384.3	3608.8	6915.3	7588.2	6556.3	5051.7	4040.0
70°	400.0	410.9	483.1	652.6	1082.0	3026.4	6722.4	7542.4	6709.6	4888.5	3737.0
72.5°	339.5	348.9	430.1	576.7	879.3	1502.3	5460.7	6391.2	6020.9	4072.4	2704.9
75°	227.1	257.9	412.8	540.6	818.1	853.5	3600.2	4618.6	4290.4	2746.7	1409.1
77.5°	54.6	58.6	116.5	430.1	748.2	751.2	1851.6	2871.2	2341.8	979.0	333.1
80°	29.3	28.2	32.8	85.4	696.6	704.9	833.5	1393.6	836.2	162.4	109.8
82.5°	20.7	19.5	21.1	35.8	219.2	642.1	603.0	630.8	346.6	62.4	49.3
85°	7.5	7.2	11.7	32.3	68.8	369.2	619.5	520.3	280.9	28.6	36.1
87.5°	2.7	2.3	4.5	17.7	21.1	157.1	382.4	393.2	110.5	17.3	17.0
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: P199964

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1715.1	1691.8	1648.9	1605.0	1564.4	1515.5	1491.0	1467.0	1456.9	1453.1	1435.4
5°	1665.5	1626.0	1535.1	1443.7	1359.5	1270.0	1210.9	1163.5	1135.7	1122.2	1100.8
7.5°	1602.0	1537.3	1399.3	1258.3	1127.1	997.8	901.9	828.2	777.5	753.0	730.9
10°	1540.3	1454.2	1258.0	1065.8	887.6	716.2	583.9	488.0	426.7	398.5	380.4
12.5°	1485.0	1373.3	1121.4	878.3	654.5	453.8	319.2	242.8	204.9	191.7	185.4
15°	1435.8	1298.9	992.6	700.0	443.3	259.4	174.4	148.5	142.5	142.5	141.8
17.5°	1389.1	1225.9	868.1	532.7	278.2	158.6	132.8	129.3	129.3	130.8	130.8
20°	1344.4	1156.5	747.8	382.4	175.2	126.0	120.0	119.2	120.0	121.8	121.8
22.5°	1306.1	1093.3	635.3	262.4	130.1	113.5	110.5	109.4	109.8	111.0	111.7
25°	1277.5	1039.9	529.3	177.9	112.0	103.4	100.0	98.2	96.7	96.7	97.4
27.5°	1259.5	994.8	426.7	129.3	100.7	94.0	88.7	85.7	82.4	80.4	81.2
30°	1246.2	952.0	330.5	105.7	90.2	83.5	76.7	71.9	66.9	64.7	65.4
32.5°	1241.4	917.4	247.0	93.2	80.9	73.4	65.1	58.6	53.4	51.6	51.9
35°	1254.5	889.9	180.9	84.2	73.4	63.9	54.6	47.4	43.3	42.1	42.5
37.5°	1289.1	875.3	135.3	76.7	66.6	56.1	45.5	38.8	36.1	36.1	36.5
40°	1354.5	874.8	108.7	71.4	60.6	48.5	37.6	32.8	31.3	32.0	32.3
42.5°	1450.1	894.8	94.7	66.6	55.3	41.4	31.3	27.8	27.5	28.2	28.6
45°	1580.5	931.2	87.2	62.4	49.6	34.6	26.3	24.1	24.1	25.2	25.6
47.5°	1740.3	984.6	80.9	58.3	44.0	29.0	22.6	21.1	21.5	22.6	23.0
50°	1932.8	1051.9	74.4	53.8	39.8	24.1	19.5	18.5	18.8	20.3	20.7
52.5°	2152.0	1142.5	69.2	49.6	34.6	20.0	16.5	15.8	16.5	18.0	18.5
55°	2340.0	1223.7	62.8	46.3	27.8	16.5	13.5	13.5	14.3	16.2	16.5
57.5°	2520.7	1308.7	57.1	39.8	21.8	13.2	11.3	11.7	12.8	14.7	15.0
60°	2786.1	1452.7	50.4	33.5	16.5	10.5	9.5	9.8	11.3	13.2	13.5
62.5°	3236.9	1671.9	43.6	27.8	12.8	8.3	7.5	8.3	10.2	12.5	12.8
65°	3643.8	1760.9	35.8	23.3	9.8	6.4	6.4	7.5	9.8	12.0	12.5
67.5°	3417.1	1482.4	27.8	18.5	7.5	4.9	5.3	7.2	9.5	12.0	12.5
69°	3021.9	1212.1	23.7	14.7	6.4	4.5	4.9	7.2	9.5	11.7	12.0
70°	2714.0	1023.4	21.1	12.5	5.7	4.5	4.9	6.8	9.5	11.7	12.0
72.5°	1817.8	552.6	17.0	9.0	5.3	4.2	4.2	6.8	9.0	11.3	11.7
75°	781.3	152.6	13.5	6.4	4.5	3.8	3.8	6.4	8.7	11.0	11.7
77.5°	142.9	38.8	11.0	5.7	4.5	3.8	3.4	6.0	8.3	10.5	11.0
80°	56.8	19.2	8.7	4.9	4.2	3.4	3.0	5.7	7.9	10.2	10.5
82.5°	34.3	11.0	7.2	4.5	4.2	3.0	2.7	4.9	7.5	9.8	10.2
85°	27.8	7.5	5.7	4.5	3.8	3.0	2.3	4.5	6.8	9.5	9.8
87.5°	13.5	5.3	5.3	4.2	3.8	3.0	2.3	4.2	6.4	9.0	9.5
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)