

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: STREETWORKS

Report Number: P200634

Luminaire Tested: **GAW-AF-02-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-02-LED-E1-SL4-8030-1200
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10566 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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: 28.75 FT

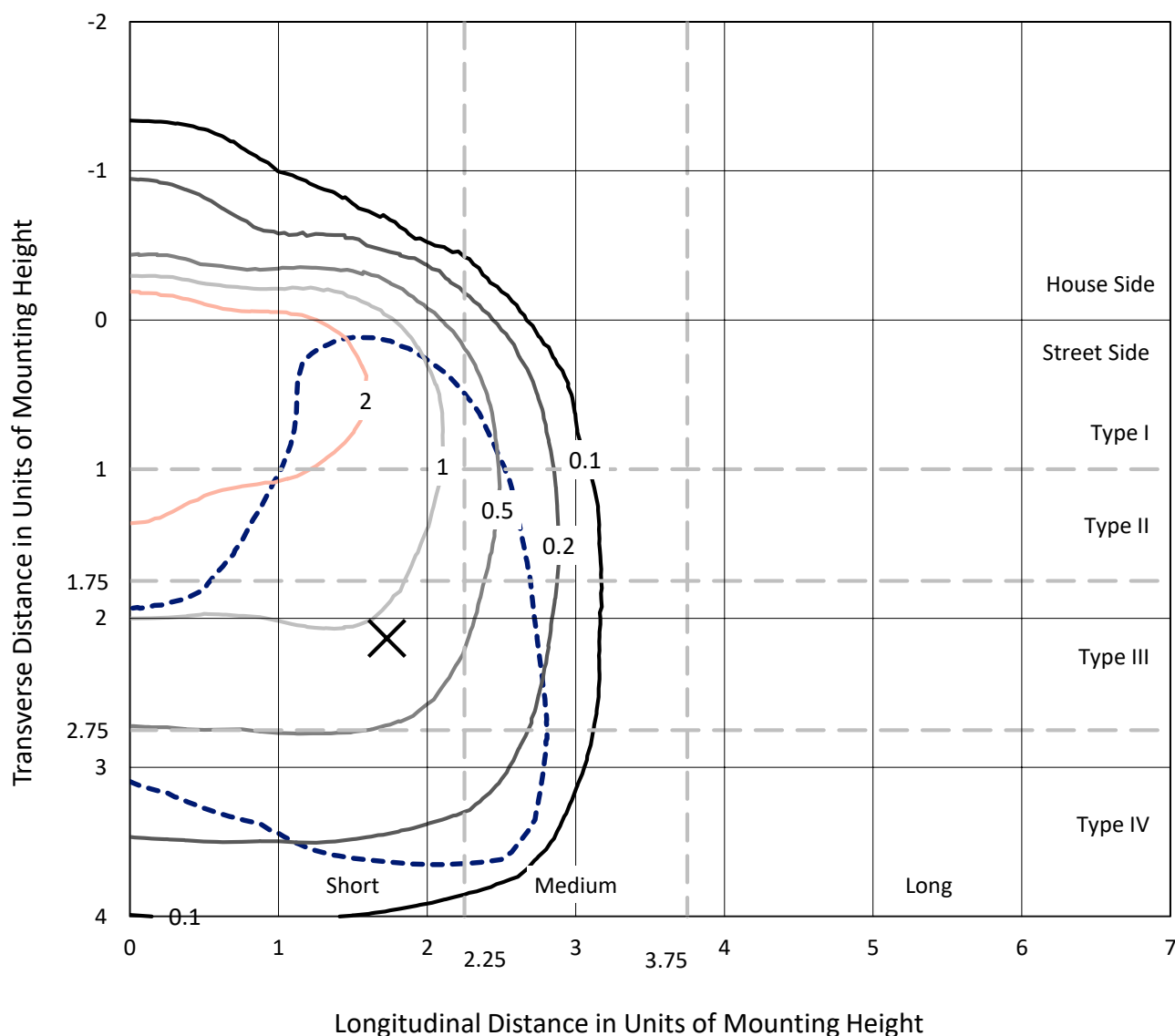


REPORT NUMBER: P200634

CATALOG NUMBER: GAW-AF-02-LED-E1-SL4-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

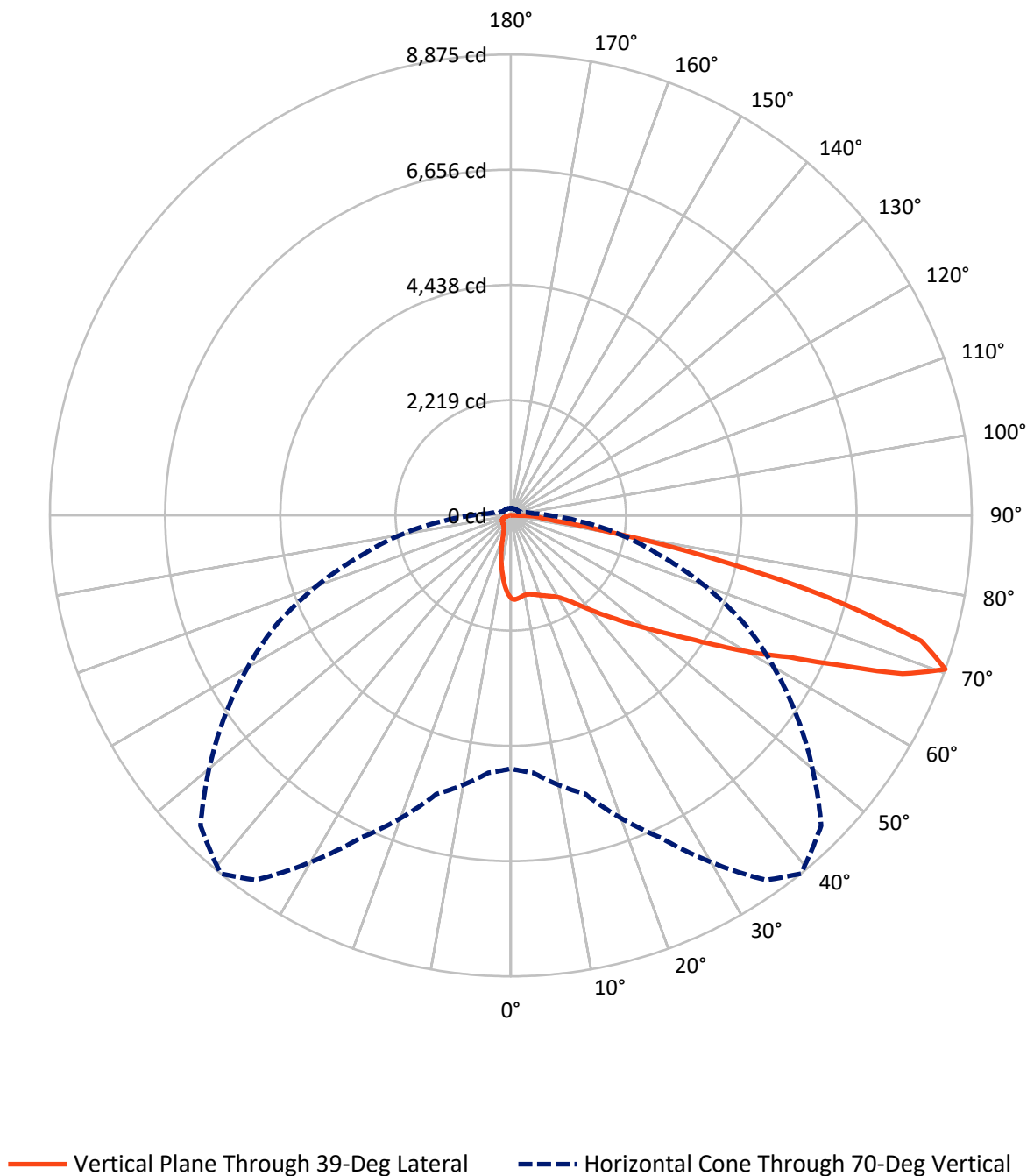


Based on 20 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P200634

CATALOG NUMBER: GAW-AF-02-LED-E1-SL4-8030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P200634

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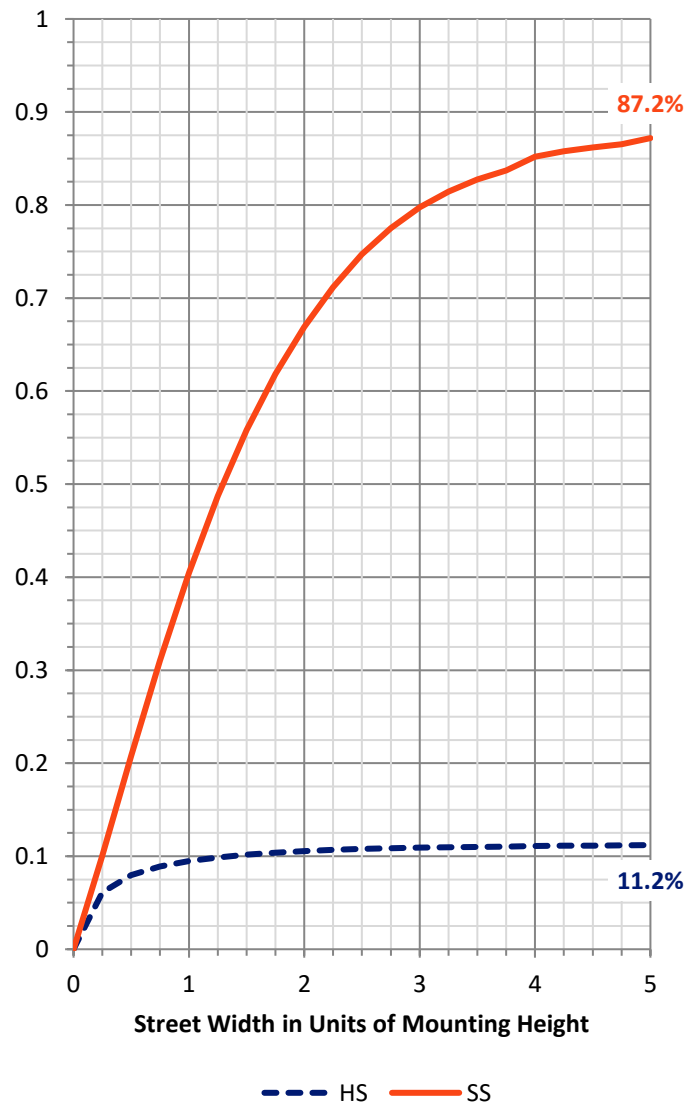
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1201.7	0.0	1201.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	9364.3	0.0	9364.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	10566.0	0.0	10566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.3
10°-20°	344.1	3.3
20°-30°	535.8	5.1
30°-40°	834.6	7.9
40°-50°	1401.2	13.3
50°-60°	2225.9	21.1
60°-70°	2969.2	28.1
70°-80°	1793.0	17.0
80°-90°	324.5	3.1
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°	10566.0	100.0
0°-180°	10566.0	100.0

Coefficient of Utilization



REPORT NUMBER: P200634

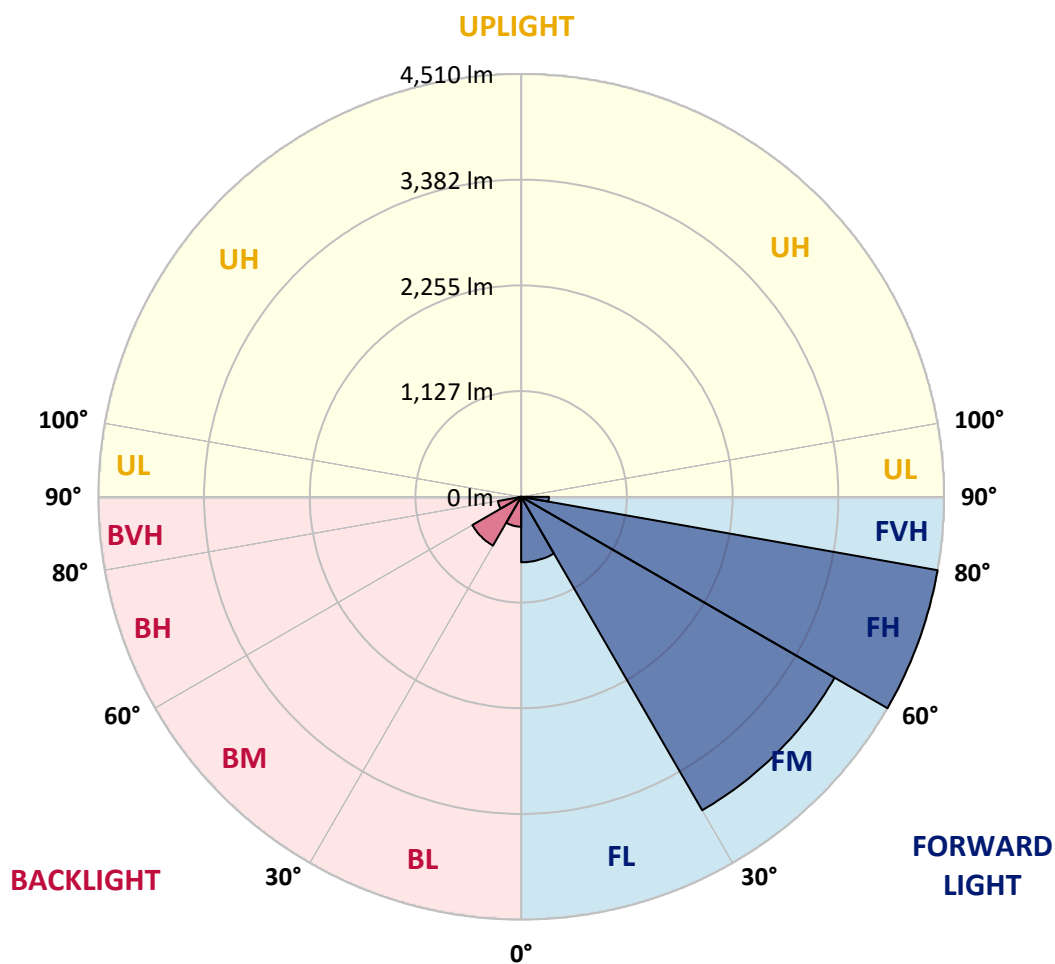
CATALOG NUMBER: GAW-AF-02-LED-E1-SL4-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.7	6.6			
FM	(30°-60°)	3860.4	36.5			
FH	(60°-80°)	4509.9	42.7			G2/5000
FVH	(80°-90°)	295.3	2.8			G3/500
BL	(0°-30°)	318.8	3.0	B1/500		
BM	(30°-60°)	601.4	5.7	B1/1000		
BH	(60°-80°)	252.3	2.4	B1/500		G1/500
BVH	(80°-90°)	29.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P200634

CATALOG NUMBER: GAW-AF-02-LED-E1-SL4-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1635.2	1634.7	1630.4	1627.2	1624.5	1623.4	1625.6	1617.5	1610.5	1601.9	1592.8
5°	1622.9	1622.3	1615.4	1608.9	1602.5	1600.3	1599.8	1585.3	1576.7	1563.8	1546.6
7.5°	1609.5	1606.8	1597.6	1586.9	1575.6	1570.2	1564.9	1546.1	1536.4	1523.5	1503.6
10°	1595.5	1592.3	1583.7	1572.9	1562.2	1554.1	1545.0	1526.7	1516.5	1506.8	1483.7
12.5°	1581.0	1578.3	1576.1	1571.3	1563.8	1556.8	1549.8	1534.2	1523.5	1512.2	1485.4
15°	1578.8	1577.8	1582.6	1585.8	1581.5	1577.2	1569.7	1556.3	1545.0	1533.7	1498.8
17.5°	1596.0	1595.5	1607.8	1616.4	1614.3	1606.8	1596.6	1581.5	1572.4	1562.7	1519.2
20°	1633.6	1636.3	1651.4	1662.6	1651.9	1641.1	1624.5	1603.5	1598.7	1594.4	1540.2
22.5°	1704.5	1707.2	1718.0	1722.3	1694.3	1678.8	1655.7	1628.8	1625.6	1628.8	1565.4
25°	1815.2	1812.5	1810.9	1794.8	1743.8	1719.6	1690.0	1662.1	1663.7	1678.2	1600.9
27.5°	1961.9	1947.4	1924.8	1876.4	1795.3	1768.5	1732.5	1706.7	1716.9	1744.8	1654.0
30°	2113.9	2097.8	2045.7	1966.7	1863.0	1833.5	1793.2	1764.2	1791.0	1835.1	1725.0
32.5°	2254.6	2252.5	2176.2	2074.7	1956.5	1930.7	1890.4	1857.6	1901.2	1968.3	1831.3
35°	2408.3	2413.1	2321.8	2199.8	2082.7	2055.9	2026.9	2002.1	2060.2	2152.6	1985.5
37.5°	2572.7	2582.3	2474.3	2336.8	2226.7	2215.4	2198.2	2187.5	2277.2	2405.0	2200.9
40°	2792.4	2782.7	2632.8	2491.5	2403.4	2402.9	2397.5	2410.4	2559.8	2734.9	2477.6
42.5°	3027.7	2999.2	2801.0	2657.5	2597.4	2615.6	2626.4	2679.0	2899.8	3135.6	2814.9
45°	3281.2	3217.3	2975.6	2833.2	2812.8	2851.5	2888.0	3002.4	3300.0	3591.7	3184.5
47.5°	3483.7	3422.0	3156.1	3017.5	3062.0	3120.6	3191.0	3372.0	3748.1	4062.9	3549.3
50°	3643.3	3603.0	3338.2	3232.3	3336.6	3426.8	3541.8	3790.5	4214.3	4521.6	3887.2
52.5°	3798.0	3767.9	3521.9	3452.6	3658.9	3783.5	3939.8	4239.6	4692.5	4972.9	4171.4
55°	3937.7	3916.2	3719.6	3727.1	4038.1	4200.4	4397.0	4751.0	5213.5	5375.2	4412.0
57.5°	4095.1	4067.7	3945.2	4071.4	4525.4	4736.0	4991.7	5325.8	5702.4	5733.0	4595.2
60°	4253.6	4229.9	4195.5	4469.0	5144.2	5365.6	5607.8	5882.9	6198.2	6010.7	4584.5
62.5°	4391.1	4393.8	4454.5	4886.4	5750.2	6006.4	6301.9	6573.7	6646.8	6059.1	4245.5
65°	4624.2	4666.7	4847.7	5477.3	6603.3	6946.0	7308.6	7265.1	6770.9	5607.3	3518.7
67.5°	4901.4	4976.1	5343.0	6264.8	7681.4	8136.4	8276.7	7421.4	6274.0	4558.2	2508.2
70°	4873.5	4976.1	5556.8	6852.0	8570.0	8875.1	8449.6	6716.6	4982.0	2977.7	1332.3
72.5°	4327.7	4474.3	5121.1	6582.9	8290.1	8263.2	7335.5	5007.3	2960.0	1195.8	520.5
75°	3298.4	3446.7	4003.2	5200.6	6552.2	6326.6	5204.9	2766.0	1123.3	474.9	328.2
77.5°	1897.4	2012.4	2442.1	3189.4	4156.9	3925.3	2897.1	1230.2	546.9	330.9	256.2
80°	1059.4	1123.3	1384.4	1618.0	2037.1	1867.3	1296.3	764.4	408.3	240.1	197.7
82.5°	837.5	894.4	1119.5	1020.7	930.4	858.4	744.6	680.6	326.1	151.5	118.2
85°	731.7	785.9	947.6	803.7	635.5	582.9	604.9	669.9	253.6	91.3	101.0
87.5°	677.9	750.5	844.5	619.4	494.8	438.4	558.2	734.4	81.7	56.9	40.8
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: P200634

CATALOG NUMBER: GAW-AF-02-LED-E1-SL4-8030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1584.7	1576.1	1562.2	1549.8	1530.5	1520.3	1509.0	1500.9	1494.5	1489.1	1497.7
5°	1535.9	1519.7	1490.2	1458.5	1420.9	1391.4	1366.6	1343.5	1327.4	1316.7	1324.2
7.5°	1489.7	1463.3	1417.1	1359.7	1295.2	1240.4	1195.3	1155.5	1128.1	1110.4	1117.4
10°	1463.3	1430.6	1359.1	1268.9	1173.8	1088.4	1017.5	956.2	913.8	889.6	893.4
12.5°	1456.9	1414.5	1315.6	1191.5	1061.5	942.8	842.9	758.0	698.4	667.2	668.3
15°	1461.7	1407.5	1274.8	1117.4	953.0	803.1	678.5	575.3	506.0	470.6	470.1
17.5°	1469.8	1402.1	1231.8	1037.3	842.9	668.8	529.7	428.7	367.4	339.0	336.8
20°	1478.4	1393.5	1183.5	950.8	728.4	544.2	414.7	335.8	297.1	281.5	280.4
22.5°	1490.7	1386.0	1133.5	859.5	616.2	443.2	341.1	287.9	267.5	259.5	258.4
25°	1510.6	1382.2	1080.3	764.4	515.2	370.7	297.1	264.3	252.5	247.1	246.6
27.5°	1543.9	1387.6	1030.4	672.0	433.0	321.8	272.4	252.5	243.9	239.1	238.5
30°	1586.9	1404.2	977.7	584.5	369.1	288.5	257.3	244.4	237.4	232.6	232.6
32.5°	1658.3	1432.2	922.4	508.7	323.4	265.4	246.0	237.4	231.5	227.8	227.2
35°	1763.6	1484.8	870.8	445.9	290.6	248.7	236.4	229.9	225.6	223.5	223.5
37.5°	1916.7	1568.1	825.1	400.8	270.7	237.4	227.2	222.4	219.7	219.7	219.7
40°	2122.5	1683.1	788.1	370.7	259.5	229.4	220.3	216.5	214.9	215.4	215.4
42.5°	2376.6	1832.4	763.4	349.7	254.1	224.6	215.4	212.2	210.6	210.0	210.6
45°	2666.1	2002.1	760.7	334.1	248.7	221.3	212.2	209.0	205.7	203.6	203.6
47.5°	2947.6	2174.6	782.7	328.8	242.8	217.6	209.5	206.3	201.5	196.6	196.6
50°	3196.3	2321.2	812.2	330.9	240.7	212.2	205.2	203.6	196.1	190.7	190.2
52.5°	3394.0	2434.1	836.4	337.4	242.8	208.4	199.8	200.4	192.3	186.4	185.9
55°	3552.5	2508.2	830.0	343.8	247.6	206.3	195.0	196.1	189.6	183.7	183.7
57.5°	3621.8	2480.8	758.5	338.4	251.4	206.8	191.2	195.5	190.2	184.8	184.8
60°	3473.0	2237.4	624.8	314.8	246.6	205.2	189.6	197.7	197.2	191.8	191.2
62.5°	3022.8	1801.8	484.6	279.9	229.9	197.2	185.3	197.2	203.1	201.5	200.9
65°	2329.8	1283.4	370.1	242.3	207.4	183.7	174.1	184.8	192.9	195.0	194.5
67.5°	1512.2	786.5	285.3	206.8	182.1	168.1	159.5	164.4	166.0	166.0	164.9
70°	743.5	423.3	227.2	174.1	156.3	151.5	146.7	144.0	141.3	139.1	139.1
72.5°	366.9	276.7	186.9	147.2	134.8	132.7	131.6	128.4	126.2	123.6	122.5
75°	271.3	225.1	159.0	124.1	116.0	113.9	116.0	113.3	112.8	110.7	109.6
77.5°	222.9	191.8	137.0	106.4	99.4	95.6	98.8	99.4	99.9	96.7	95.6
80°	181.0	162.2	114.4	88.1	81.7	79.0	81.1	85.4	86.5	81.7	79.5
82.5°	130.5	132.7	92.4	68.8	63.4	61.2	65.5	70.9	72.0	65.0	63.4
85°	109.6	110.7	70.9	48.9	43.5	40.3	47.3	52.6	56.4	49.4	47.8
87.5°	45.7	65.0	40.8	27.4	24.2	21.0	25.2	27.9	33.8	31.2	30.6
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)