

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: P200341

Luminaire Tested: **GAP-AF-01-LED-U-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-T2R-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5351 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

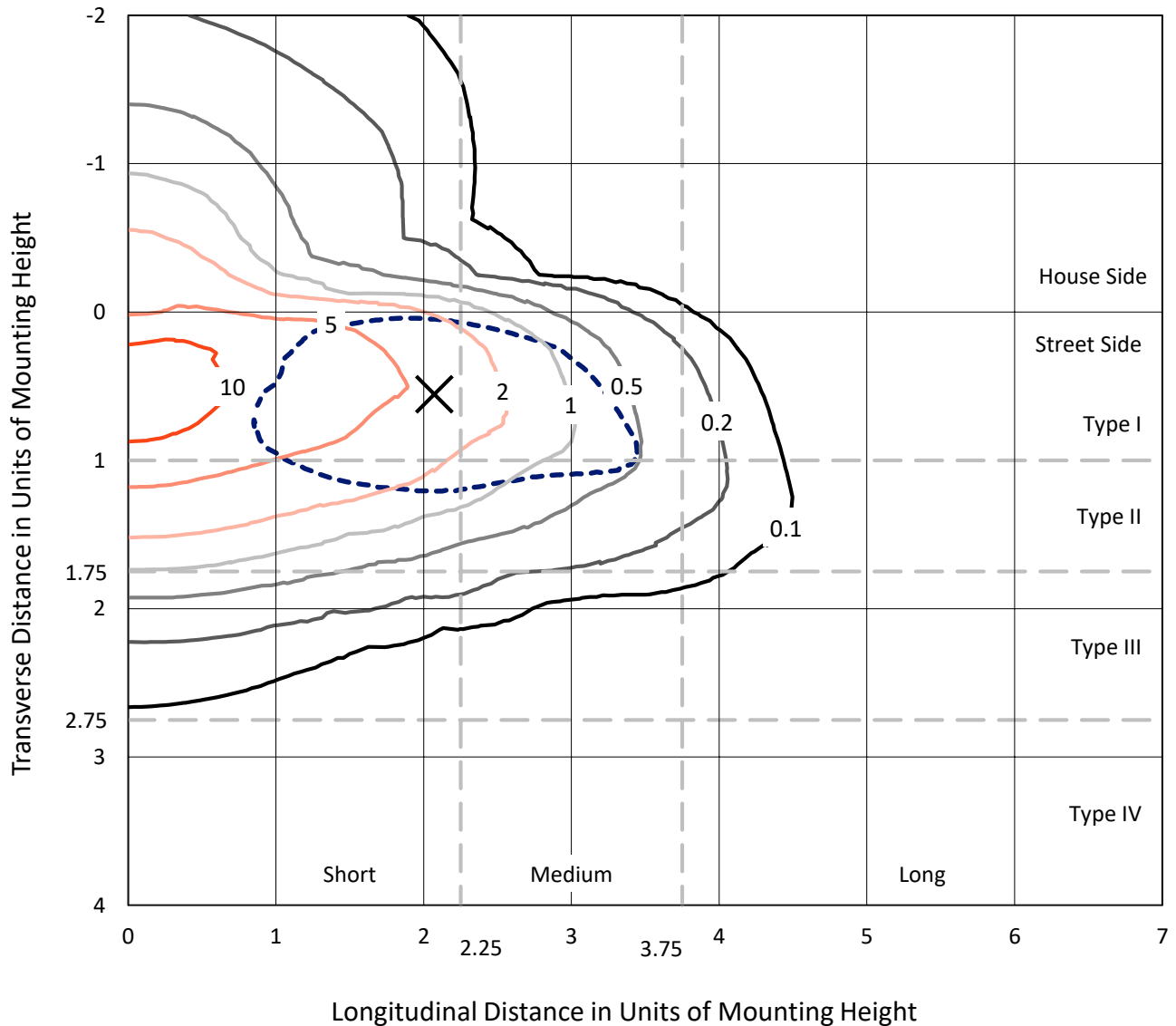
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

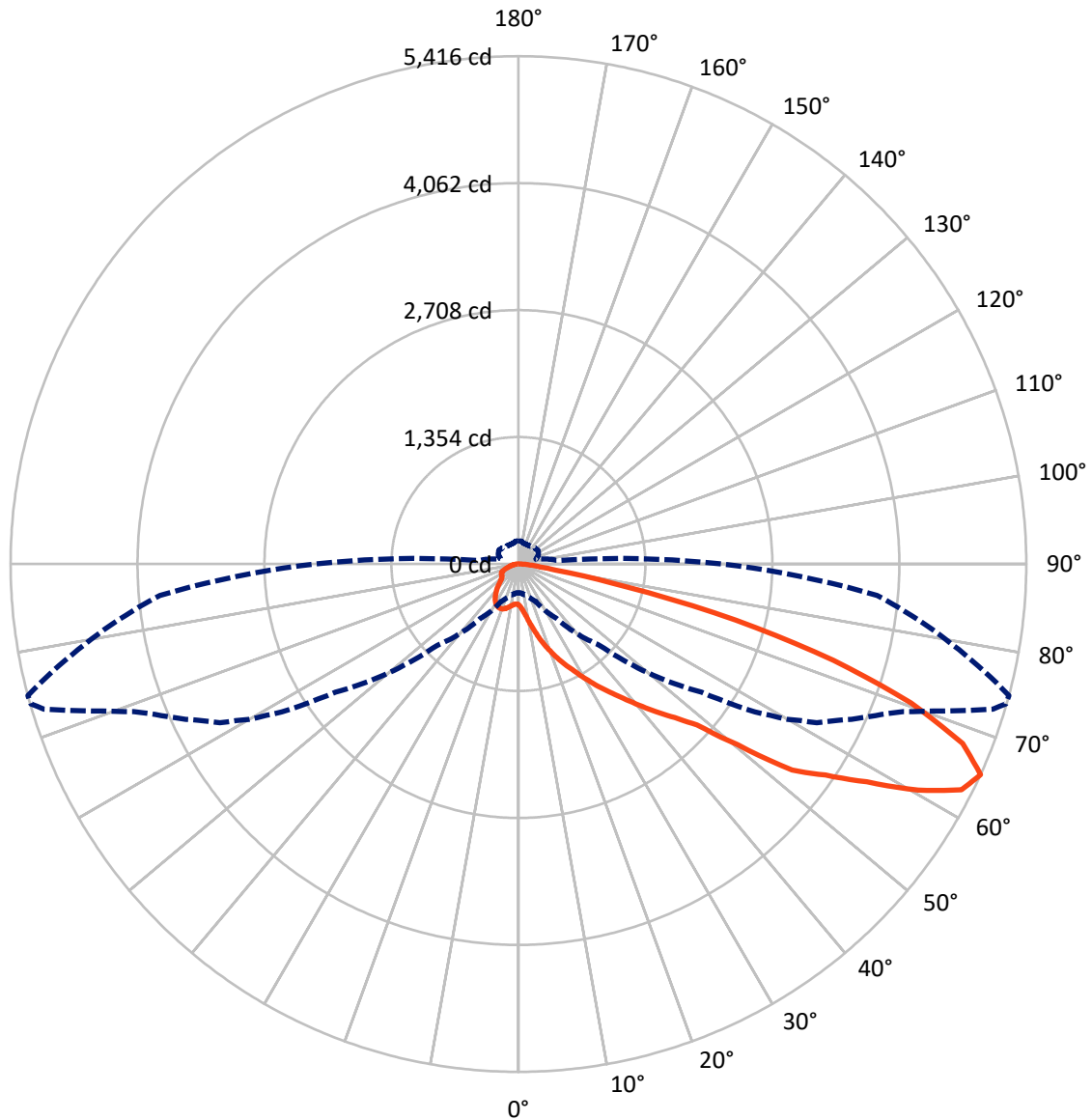
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.0	0.0	825.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4526.0	0.0	4526.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	5351.0	0.0	5351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	1.0
10°-20°	210.0	3.9
20°-30°	430.9	8.1
30°-40°	725.0	13.5
40°-50°	1001.7	18.7
50°-60°	1250.4	23.4
60°-70°	1125.2	21.0
70°-80°	471.7	8.8
80°-90°	82.4	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°	5351.0	100.0
0°-180°	5351.0	100.0

Coefficient of Utilization



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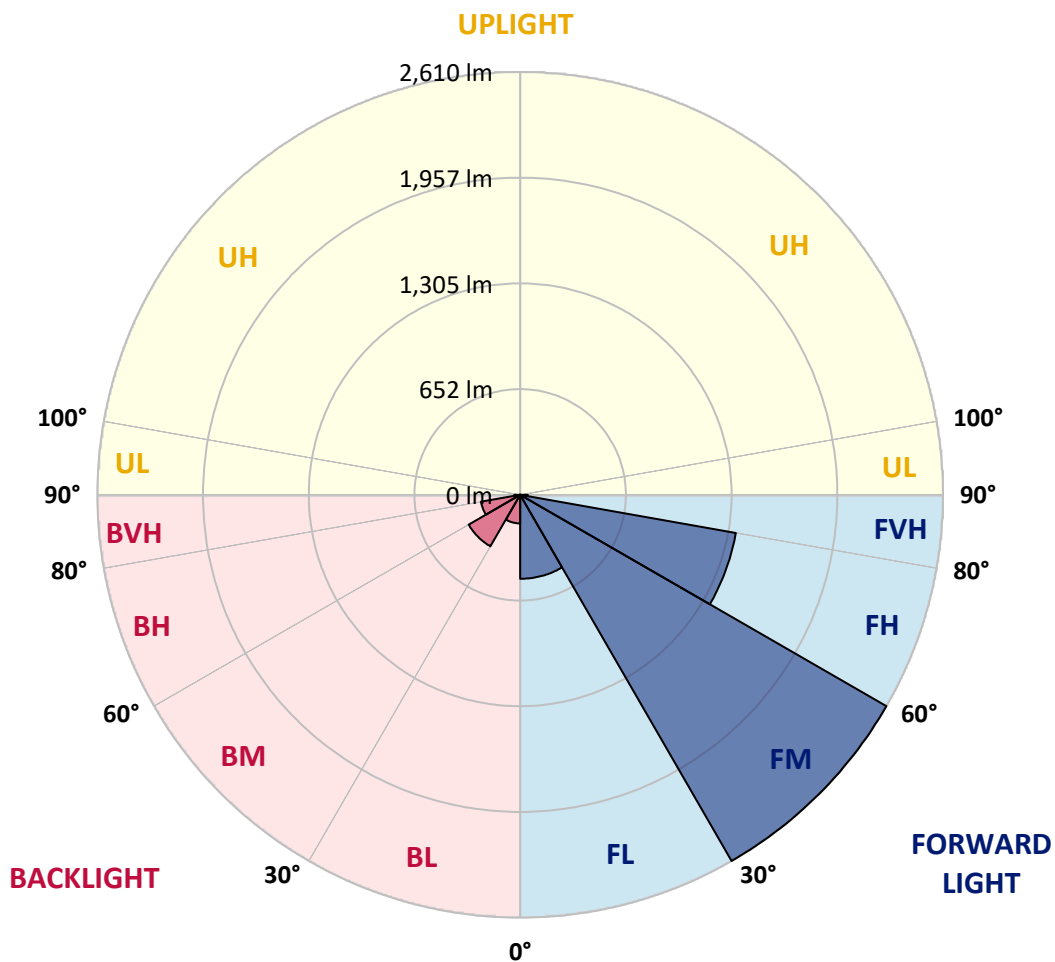
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.2	9.7			
FM	(30°-60°)	2609.8	48.8			
FH	(60°-80°)	1351.6	25.3			G1/1800
FVH	(80°-90°)	46.3	0.9			G1/100
BL	(0°-30°)	176.4	3.3	B1/500		
BM	(30°-60°)	367.2	6.9	B1/1000		
BH	(60°-80°)	245.3	4.6	B1/500		G1/500
BVH	(80°-90°)	36.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	552.1	546.1	547.6	537.4	525.0	508.8	490.8	490.6	490.8	489.1	482.5
5°	765.6	758.3	755.5	732.7	699.3	651.7	600.0	594.4	592.2	586.3	572.9
7.5°	921.4	917.4	913.1	895.8	865.4	812.2	742.9	730.9	719.6	716.8	701.6
10°	1022.0	1020.9	1011.8	1007.3	988.3	942.2	874.6	863.2	850.7	846.4	830.5
12.5°	1101.5	1101.2	1096.9	1098.2	1081.7	1048.3	990.0	979.7	970.5	957.4	946.0
15°	1156.4	1156.7	1163.0	1170.1	1167.6	1145.1	1090.3	1085.8	1077.9	1068.8	1055.4
17.5°	1201.5	1202.8	1209.4	1222.3	1236.2	1234.5	1191.1	1187.3	1180.5	1168.1	1161.0
20°	1303.3	1308.2	1295.5	1295.5	1297.0	1303.9	1283.1	1280.0	1270.4	1263.8	1258.3
22.5°	1475.3	1480.9	1452.3	1423.1	1394.5	1373.8	1353.0	1356.8	1350.2	1345.6	1342.4
25°	1698.7	1703.0	1656.7	1607.5	1549.3	1473.3	1421.9	1419.6	1416.1	1413.3	1411.7
27.5°	1908.9	1910.7	1866.9	1795.0	1727.3	1618.2	1491.8	1489.0	1484.7	1479.4	1474.8
30°	2088.7	2088.2	2043.2	1974.5	1902.1	1781.3	1597.9	1589.3	1576.6	1562.2	1551.0
32.5°	2244.5	2243.8	2194.4	2123.2	2047.2	1942.9	1743.3	1725.6	1705.8	1677.7	1660.7
35°	2367.1	2366.6	2320.0	2245.8	2158.7	2095.1	1909.9	1888.2	1863.1	1825.3	1799.3
37.5°	2413.4	2413.4	2387.4	2336.7	2259.7	2216.1	2095.1	2068.7	2041.9	1999.1	1969.7
40°	2386.3	2386.9	2392.4	2383.1	2345.6	2312.1	2267.8	2252.1	2229.1	2190.6	2159.9
42.5°	2295.4	2298.2	2335.2	2380.5	2399.3	2393.9	2421.0	2414.0	2397.7	2368.1	2343.8
45°	2180.2	2188.8	2229.3	2314.9	2414.2	2464.6	2549.5	2550.2	2547.2	2531.2	2512.5
47.5°	2021.9	2034.0	2087.5	2203.2	2379.3	2533.2	2679.9	2686.7	2693.1	2682.7	2674.1
50°	1811.7	1826.1	1906.1	2059.6	2308.1	2604.4	2926.3	2957.2	2986.1	2982.6	2988.4
52.5°	1586.5	1603.5	1701.5	1872.5	2185.8	2620.9	3083.9	3134.3	3184.7	3225.9	3269.8
55°	1383.4	1374.3	1472.3	1652.4	1984.7	2546.7	3225.4	3286.2	3342.5	3393.1	3445.3
57.5°	1108.1	1123.0	1221.3	1399.3	1718.5	2337.2	3323.0	3411.9	3492.6	3576.5	3650.4
60°	810.0	824.9	931.5	1112.4	1429.5	2019.6	3248.5	3383.2	3512.7	3641.1	3741.4
62.5°	489.1	500.2	594.2	766.4	1102.2	1643.0	2916.7	3093.5	3283.9	3437.4	3591.2
65°	304.4	310.8	345.5	440.2	707.9	1226.6	2383.1	2575.8	2780.9	2975.7	3135.5
67.5°	249.2	251.5	257.8	278.1	388.8	799.8	1773.7	1944.4	2129.5	2318.0	2495.8
70°	224.1	222.6	222.6	223.9	249.2	430.1	1161.3	1272.4	1426.7	1590.6	1753.2
72.5°	202.4	200.8	198.1	194.3	203.4	262.4	600.3	684.1	795.3	940.9	1096.7
75°	181.9	179.8	176.5	171.7	178.1	198.1	288.2	323.4	377.6	455.1	542.0
77.5°	160.6	158.0	155.0	151.5	159.6	154.0	168.9	181.6	202.4	227.2	259.9
80°	136.5	134.2	133.2	131.4	141.1	117.3	119.3	127.1	139.3	152.7	167.9
82.5°	106.9	106.9	110.9	111.7	122.3	84.3	89.2	96.0	102.3	109.4	116.5
85°	70.4	70.9	84.6	89.9	96.5	56.7	66.9	69.1	74.2	78.3	81.3
87.5°	22.0	23.8	51.7	57.2	55.5	32.2	41.0	42.0	45.6	48.4	50.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	482.5	479.4	476.7	476.4	474.4	471.6	472.6	468.3	468.6	466.3	463.7
5°	567.3	565.3	555.2	552.4	544.8	540.0	539.2	529.1	527.8	522.0	515.7
7.5°	689.4	682.8	668.6	661.8	648.9	639.3	634.7	621.3	614.7	599.5	592.7
10°	817.3	809.0	791.5	781.9	769.4	754.0	745.6	726.1	718.5	704.6	687.9
12.5°	935.8	927.5	909.5	902.2	885.7	869.2	860.1	838.1	828.2	805.9	792.7
15°	1045.5	1037.2	1021.5	1013.9	997.4	984.0	971.8	950.0	938.4	917.6	900.4
17.5°	1151.9	1143.0	1129.3	1122.5	1106.6	1092.9	1079.7	1059.2	1047.3	1026.5	1011.1
20°	1250.7	1244.1	1234.2	1225.1	1209.1	1196.7	1181.0	1163.3	1146.1	1130.9	1116.2
22.5°	1336.8	1334.2	1323.6	1319.6	1305.9	1295.2	1281.6	1264.1	1251.7	1232.4	1218.8
25°	1411.0	1410.2	1405.2	1403.9	1394.3	1384.1	1381.1	1366.7	1355.3	1338.3	1324.1
27.5°	1474.8	1475.6	1474.3	1477.9	1475.3	1470.8	1471.0	1466.2	1459.6	1445.4	1433.0
30°	1545.7	1541.7	1544.0	1549.0	1550.5	1551.0	1559.4	1562.2	1561.7	1552.3	1546.2
32.5°	1646.0	1636.4	1627.5	1626.8	1631.8	1633.9	1648.1	1655.4	1661.7	1664.0	1665.0
35°	1773.9	1754.7	1736.2	1726.3	1717.7	1720.0	1730.1	1742.0	1755.9	1765.6	1777.0
37.5°	1935.0	1911.5	1878.8	1855.5	1849.7	1837.0	1843.6	1853.0	1866.6	1881.6	1901.3
40°	2130.3	2094.6	2057.8	2027.0	2010.2	1986.9	1986.7	1984.9	1993.3	2007.2	2035.1
42.5°	2318.2	2286.6	2247.6	2215.1	2193.4	2162.2	2155.9	2139.4	2143.2	2155.4	2182.5
45°	2494.2	2468.2	2444.3	2406.9	2388.4	2354.7	2344.0	2324.5	2313.7	2319.2	2346.3
47.5°	2664.7	2648.0	2623.2	2598.8	2584.7	2554.5	2540.8	2526.9	2513.0	2512.5	2540.8
50°	2997.0	2988.1	2958.7	2933.4	2940.3	2903.3	2905.6	2868.1	2885.0	2887.1	2946.6
52.5°	3309.3	3340.2	3362.0	3388.6	3405.8	3409.1	3420.5	3437.4	3457.9	3498.5	3553.7
55°	3488.1	3526.8	3549.4	3569.6	3603.1	3610.2	3629.2	3651.7	3669.7	3715.3	3762.1
57.5°	3700.6	3772.5	3807.5	3839.6	3884.7	3901.9	3933.6	3958.2	3981.5	4035.4	4092.1
60°	3831.5	3919.2	3990.3	4041.2	4097.7	4138.2	4186.1	4224.6	4279.3	4343.9	4428.5
62.5°	3727.4	3856.1	3950.6	4037.9	4114.7	4192.2	4260.8	4332.8	4415.8	4513.6	4644.8
65°	3312.8	3443.8	3605.6	3696.3	3797.8	3917.4	4021.7	4138.2	4251.5	4393.8	4587.8
67.5°	2667.0	2819.2	3001.0	3092.5	3209.2	3342.7	3459.7	3602.1	3734.3	3906.7	4146.6
70°	1922.3	2119.1	2272.1	2367.6	2503.9	2641.4	2754.4	2920.0	3029.4	3206.2	3454.1
72.5°	1217.2	1372.5	1559.9	1680.2	1801.3	1940.6	2056.1	2198.9	2301.0	2462.1	2686.7
75°	654.5	768.9	933.6	1047.8	1177.5	1296.5	1431.8	1527.5	1603.0	1730.4	1912.7
77.5°	306.7	376.4	459.7	547.6	635.5	727.1	816.3	893.8	926.2	999.2	1106.8
80°	186.2	208.7	233.0	260.1	296.8	326.5	365.7	394.1	396.1	419.2	452.1
82.5°	124.4	132.7	140.1	146.9	156.3	163.6	172.0	181.9	185.9	191.2	201.9
85°	84.8	88.9	90.4	94.7	93.7	96.2	99.5	102.8	104.6	104.3	109.2
87.5°	52.2	54.2	55.2	56.2	55.5	54.5	56.0	57.7	58.3	56.7	57.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	464.3	462.0	459.7	458.2	457.7	444.2	438.4	434.6	426.5	419.9	414.6
5°	512.1	507.3	503.5	498.9	496.4	462.5	450.1	441.5	427.3	418.9	411.3
7.5°	589.1	575.7	567.8	559.0	551.4	490.1	469.6	456.1	436.4	425.2	416.6
10°	676.5	662.6	650.2	636.5	624.6	526.8	496.9	476.2	450.1	435.6	424.2
12.5°	774.0	760.3	744.6	727.1	712.0	573.4	531.9	502.2	466.5	447.3	431.3
15°	889.2	865.2	846.2	825.9	808.2	629.1	572.7	531.6	484.0	457.9	436.6
17.5°	996.4	971.1	945.2	927.5	907.0	691.7	613.7	561.5	498.4	464.8	437.7
20°	1101.0	1073.4	1051.1	1027.3	1005.8	756.5	657.5	587.8	507.8	465.0	431.3
22.5°	1193.2	1176.0	1151.1	1125.3	1103.5	821.4	698.5	610.1	511.4	459.2	420.2
25°	1298.0	1279.8	1249.4	1227.6	1203.3	887.5	738.8	627.4	509.3	448.3	403.0
27.5°	1410.0	1389.7	1358.6	1335.8	1306.4	956.1	775.8	639.8	501.7	430.6	379.9
30°	1526.7	1508.2	1477.6	1454.6	1424.9	1028.8	817.1	648.1	486.5	406.0	353.1
32.5°	1652.1	1636.7	1606.3	1582.2	1550.5	1107.6	855.6	650.7	463.5	376.9	324.7
35°	1771.1	1760.5	1734.9	1712.4	1679.5	1182.0	896.3	649.4	436.1	345.0	298.9
37.5°	1905.1	1898.8	1886.1	1857.5	1817.2	1283.1	945.2	644.1	402.7	313.3	279.1
40°	2048.0	2048.5	2034.8	2015.3	1977.8	1405.7	1003.5	633.7	366.2	285.4	261.1
42.5°	2199.2	2207.0	2200.4	2186.5	2150.5	1529.3	1073.1	621.0	330.8	258.3	243.4
45°	2372.4	2382.0	2392.2	2371.7	2336.7	1692.4	1164.8	604.6	292.5	235.8	231.2
47.5°	2572.2	2587.4	2596.6	2596.8	2561.9	1894.5	1313.7	594.7	258.6	220.6	225.4
50°	2993.9	2998.8	3020.3	3057.8	3030.9	2362.3	1573.8	588.6	235.5	211.2	221.1
52.5°	3601.6	3654.5	3691.7	3689.2	3652.7	2659.4	1717.2	557.2	221.9	207.7	219.1
55°	3849.0	3915.1	3984.0	4002.2	3973.9	2912.9	1852.7	525.8	215.3	210.2	219.8
57.5°	4178.8	4290.2	4384.7	4424.4	4383.4	3237.3	2031.0	509.3	213.3	217.1	224.7
60°	4564.0	4701.8	4825.9	4897.3	4897.3	3610.2	2215.9	502.5	210.5	227.2	232.8
62.5°	4811.4	5013.8	5201.2	5305.8	5302.8	3869.8	2298.0	479.2	204.1	234.3	243.9
65°	4812.5	5053.1	5291.9	5409.4	5415.5	3837.9	2162.5	423.2	192.5	235.3	255.0
67.5°	4411.3	4667.8	4946.2	5077.6	5108.0	3532.9	1871.9	348.0	173.5	225.2	259.1
70°	3725.7	3976.1	4260.3	4389.5	4443.4	3011.7	1507.7	268.2	149.2	202.9	250.7
72.5°	2935.2	3180.9	3378.7	3473.1	3515.2	2302.0	1097.9	202.6	122.3	171.0	228.2
75°	2078.1	2262.5	2367.6	2388.6	2395.2	1387.7	667.1	150.7	100.8	133.0	192.7
77.5°	1172.9	1251.9	1243.3	1252.7	1174.7	535.7	290.5	107.9	83.1	101.1	149.4
80°	457.9	472.1	443.5	434.6	398.7	199.3	128.2	75.2	66.4	76.5	104.6
82.5°	201.9	208.4	202.4	203.9	195.0	102.8	76.7	54.5	50.7	56.0	69.4
85°	111.2	113.2	112.7	116.0	111.2	41.0	36.5	33.4	35.5	38.0	44.6
87.5°	54.2	54.7	52.9	55.7	53.9	20.8	18.0	19.0	20.8	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	410.8	408.8	409.0	408.5	407.5	407.5
5°	407.3	405.2	405.2	404.7	403.5	403.7
7.5°	410.8	407.5	406.3	404.5	402.7	402.7
10°	414.9	409.0	405.5	402.5	400.2	400.2
12.5°	417.9	408.8	403.0	398.9	396.6	396.6
15°	418.9	407.0	398.9	394.1	392.1	391.8
17.5°	415.6	400.2	390.3	384.7	382.2	381.4
20°	405.5	387.8	375.9	369.5	366.0	364.7
22.5°	390.3	370.0	356.1	349.5	345.0	344.2
25°	369.0	347.2	333.6	327.2	324.7	323.9
27.5°	344.2	323.9	312.3	308.2	306.0	305.7
30°	320.6	303.4	294.8	291.8	289.0	288.5
32.5°	298.6	287.7	284.4	280.1	273.5	272.8
35°	282.9	281.9	279.6	270.0	261.9	259.6
37.5°	273.3	282.7	271.0	252.0	246.2	245.7
40°	267.7	274.8	254.8	248.2	248.7	248.2
42.5°	255.0	262.4	255.3	252.3	254.3	254.8
45°	242.4	250.5	259.1	257.1	261.9	261.9
47.5°	235.3	247.4	258.8	258.8	265.9	268.5
50°	227.2	244.9	254.8	258.3	263.9	261.9
52.5°	226.7	240.6	249.0	255.3	257.8	255.6
55°	227.4	237.1	243.1	250.2	253.3	253.5
57.5°	228.5	235.0	239.1	242.4	251.5	251.5
60°	231.0	233.3	235.5	237.3	249.2	249.5
62.5°	235.0	231.5	231.0	232.8	248.0	246.9
65°	241.4	229.0	225.2	226.9	246.7	243.6
67.5°	250.0	225.2	217.8	219.1	245.7	239.1
70°	257.8	219.1	208.7	207.4	236.1	224.4
72.5°	258.6	212.0	196.0	192.2	205.2	194.0
75°	245.9	207.2	182.1	171.0	169.4	167.9
77.5°	221.6	204.4	165.9	148.4	145.4	146.4
80°	185.4	194.0	146.4	125.6	142.1	140.3
82.5°	138.5	171.2	124.4	111.2	110.9	98.0
85°	77.0	133.5	101.3	83.3	58.0	56.2
87.5°	21.5	74.2	70.9	47.1	32.2	33.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)