

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: P268221

Luminaire Tested: **GAN-AF-01-LED-U-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268221
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: GAN-AF-01-LED-U-T2R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5641.5 lumens
Efficiency: N/A
Efficacy: 95.6 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

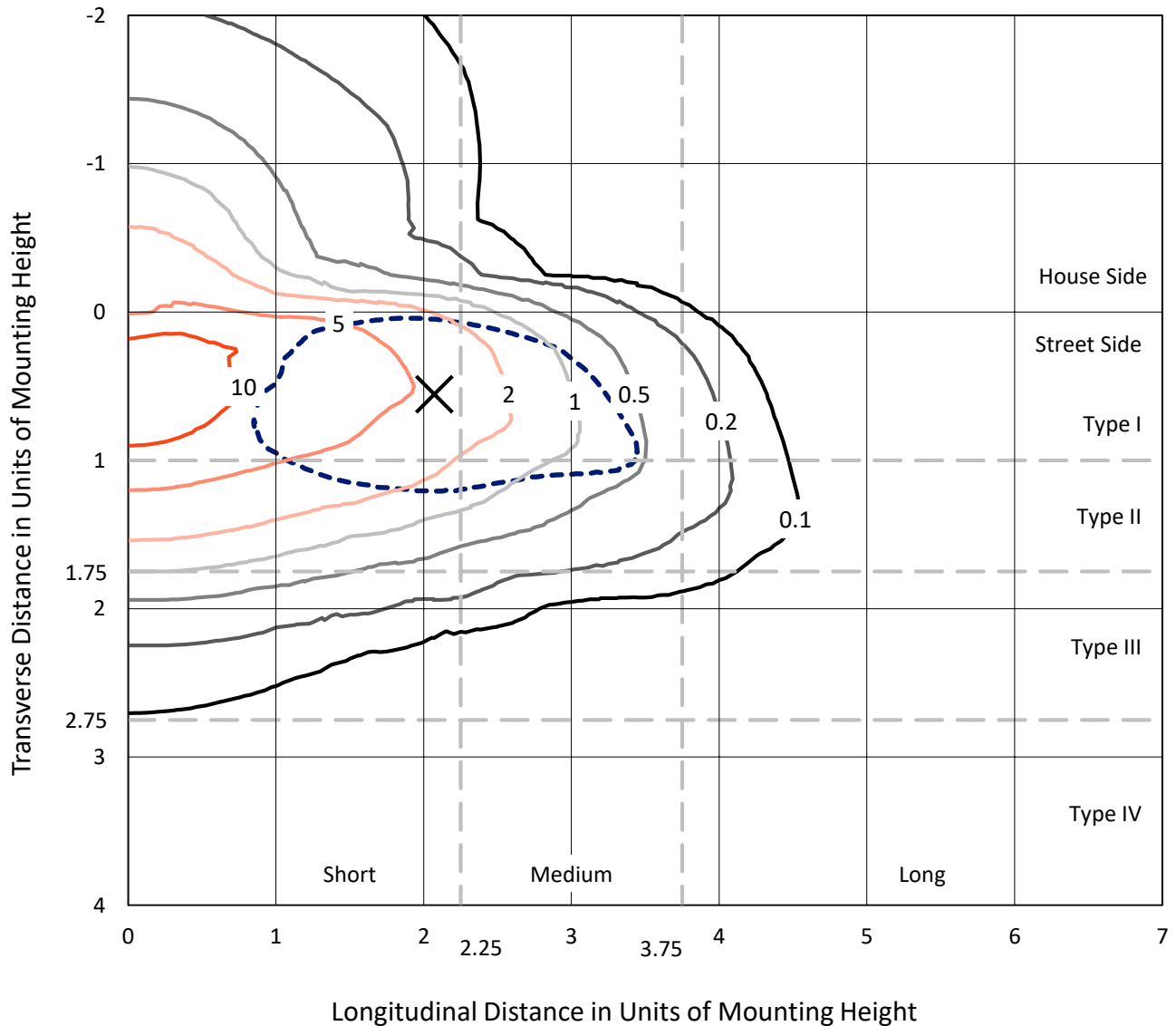
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

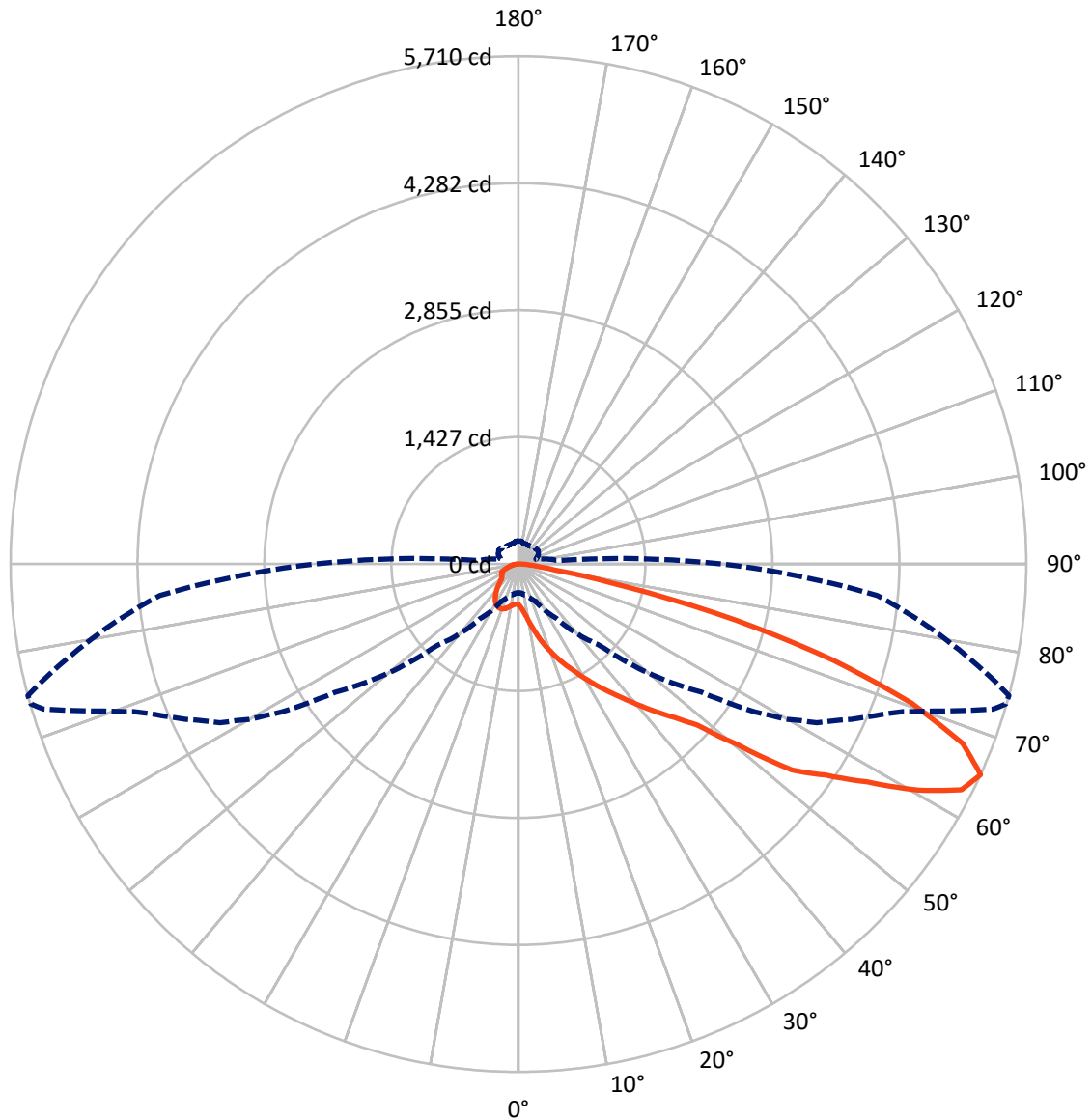
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 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	869.8	0.0	869.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4771.7	0.0	4771.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	5641.5	0.0	5641.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	1.0
10°-20°	221.4	3.9
20°-30°	454.3	8.1
30°-40°	764.3	13.5
40°-50°	1056.1	18.7
50°-60°	1318.3	23.4
60°-70°	1186.3	21.0
70°-80°	497.3	8.8
80°-90°	86.9	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°	5641.5	100.0
0°-180°	5641.5	100.0

Coefficient of Utilization



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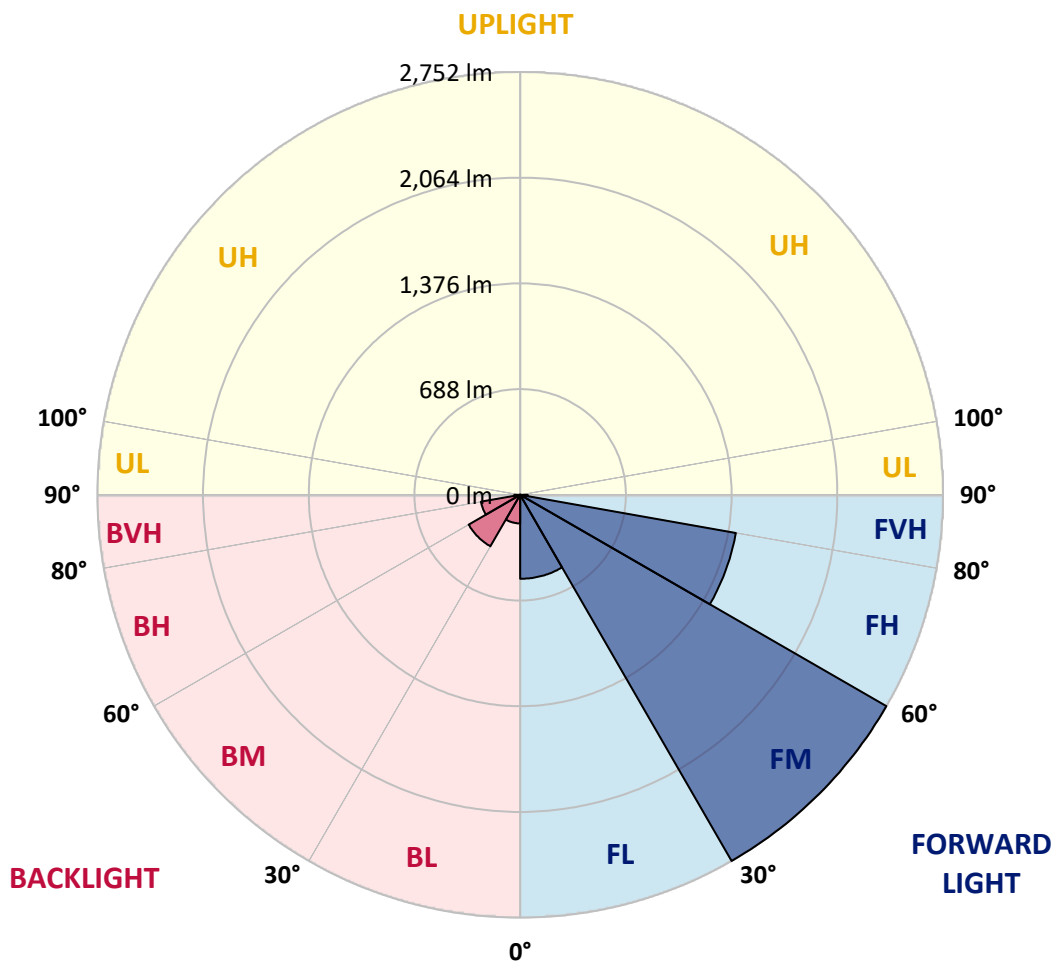
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.4	9.7			
FM (30°-60°)	2751.5	48.8			
FH (60°-80°)	1425.0	25.3			G1/1800
FVH (80°-90°)	48.8	0.9			G1/100
BL (0°-30°)	186.0	3.3	B1/500		
BM (30°-60°)	387.2	6.9	B1/1000		
BH (60°-80°)	258.6	4.6	B1/500		G1/500
BVH (80°-90°)	38.0	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°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	582.1	575.8	577.3	566.7	553.5	536.5	517.6	517.2	517.6	515.6	508.7
5°	807.2	799.5	796.5	772.5	737.2	687.1	632.5	626.7	624.3	618.2	604.0
7.5°	971.4	967.1	962.7	944.5	912.4	856.4	783.2	770.7	758.6	755.7	739.7
10°	1077.4	1076.3	1066.7	1061.9	1041.9	993.3	922.0	910.1	897.0	892.3	875.6
12.5°	1161.2	1161.0	1156.5	1157.8	1140.5	1105.3	1043.8	1032.8	1023.3	1009.3	997.4
15°	1219.2	1219.4	1226.1	1233.6	1230.9	1207.2	1149.6	1144.7	1136.4	1126.8	1112.7
17.5°	1266.8	1268.0	1275.1	1288.7	1303.4	1301.5	1255.8	1251.8	1244.6	1231.5	1224.0
20°	1374.0	1379.2	1365.9	1365.9	1367.4	1374.6	1352.8	1349.6	1339.5	1332.5	1326.5
22.5°	1555.4	1561.3	1531.2	1500.3	1470.3	1448.3	1426.5	1430.6	1423.5	1418.8	1415.2
25°	1791.0	1795.5	1746.7	1694.8	1633.4	1553.3	1499.1	1496.7	1493.0	1490.0	1488.4
27.5°	2012.7	2014.4	1968.2	1892.4	1821.1	1706.1	1572.8	1569.9	1565.2	1559.6	1554.8
30°	2202.1	2201.7	2154.0	2081.7	2005.3	1877.9	1684.7	1675.6	1662.3	1647.0	1635.3
32.5°	2366.3	2365.5	2313.6	2238.4	2158.4	2048.3	1837.9	1819.2	1798.4	1768.9	1750.8
35°	2495.6	2495.1	2445.9	2367.8	2275.9	2208.8	2013.6	1990.6	1964.2	1924.4	1897.0
37.5°	2544.4	2544.4	2517.1	2463.6	2382.5	2336.5	2208.8	2181.1	2152.8	2107.7	2076.6
40°	2516.0	2516.4	2522.4	2512.5	2472.9	2437.7	2391.0	2374.4	2350.1	2309.5	2277.3
42.5°	2420.0	2423.0	2462.0	2509.8	2529.5	2524.0	2552.5	2545.0	2527.9	2496.7	2471.1
45°	2298.6	2307.7	2350.3	2440.7	2545.3	2598.4	2687.9	2688.6	2685.6	2668.7	2648.9
47.5°	2131.7	2144.6	2200.8	2322.8	2508.4	2670.8	2825.3	2832.6	2839.4	2828.4	2819.3
50°	1910.1	1925.2	2009.7	2171.5	2433.4	2745.8	3085.1	3117.7	3148.2	3144.4	3150.6
52.5°	1672.6	1690.5	1793.8	1974.1	2304.4	2763.1	3251.3	3304.4	3357.5	3401.2	3447.3
55°	1458.5	1448.8	1552.2	1742.1	2092.4	2684.9	3400.5	3464.7	3524.0	3577.3	3632.3
57.5°	1168.2	1184.0	1287.6	1475.3	1811.8	2464.1	3503.4	3597.2	3682.3	3770.6	3848.7
60°	854.0	869.6	982.1	1172.7	1507.0	2129.3	3424.9	3566.9	3703.4	3838.7	3944.5
62.5°	515.6	527.3	626.5	808.0	1162.0	1732.2	3075.1	3261.4	3462.2	3624.1	3786.1
65°	321.0	327.6	364.3	464.1	746.3	1293.2	2512.5	2715.7	2932.0	3137.3	3305.9
67.5°	262.8	265.2	271.8	293.1	409.8	843.2	1870.0	2049.9	2245.1	2443.7	2631.2
70°	236.3	234.6	234.6	236.1	262.8	453.5	1224.3	1341.6	1504.1	1677.0	1848.4
72.5°	213.3	211.7	208.9	204.9	214.4	276.7	632.9	721.2	838.5	992.0	1156.2
75°	191.7	189.6	186.0	181.1	187.7	208.9	303.8	340.9	398.0	479.9	571.4
77.5°	169.3	166.6	163.4	159.7	168.3	162.4	178.1	191.5	213.3	239.5	274.0
80°	143.9	141.6	140.4	138.6	148.7	123.6	125.8	134.0	146.9	161.1	177.1
82.5°	112.6	112.6	117.0	117.8	128.9	88.9	94.1	101.1	107.8	115.3	122.8
85°	74.2	74.7	89.2	94.9	101.8	59.7	70.4	72.9	78.2	82.6	85.7
87.5°	23.3	25.2	54.4	60.4	58.5	34.0	43.3	44.3	48.1	51.1	53.7
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°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	508.7	505.4	502.5	502.3	500.1	497.2	498.3	493.7	494.0	491.6	488.9
5°	598.1	595.9	585.3	582.5	574.3	569.3	568.4	557.8	556.5	550.3	543.7
7.5°	726.9	719.9	705.0	697.8	684.1	674.0	669.1	655.0	648.0	632.0	624.9
10°	861.7	852.9	834.4	824.4	811.2	794.9	786.1	765.5	757.5	742.9	725.2
12.5°	986.7	977.8	958.9	951.1	933.8	916.5	906.7	883.7	873.2	849.6	835.9
15°	1102.3	1093.4	1076.9	1069.0	1051.6	1037.5	1024.5	1001.6	989.4	967.5	949.2
17.5°	1214.4	1205.0	1190.7	1183.4	1166.7	1152.3	1138.3	1116.8	1104.1	1082.3	1066.0
20°	1318.6	1311.6	1301.3	1291.7	1274.8	1261.7	1245.1	1226.5	1208.3	1192.3	1176.8
22.5°	1409.4	1406.7	1395.4	1391.2	1376.8	1365.6	1351.1	1332.7	1319.6	1299.4	1284.9
25°	1487.7	1486.9	1481.5	1480.1	1469.9	1459.2	1456.2	1440.9	1428.8	1411.0	1396.1
27.5°	1554.8	1555.7	1554.3	1558.1	1555.4	1550.7	1551.0	1545.9	1538.8	1524.0	1510.8
30°	1629.6	1625.5	1627.8	1633.1	1634.7	1635.3	1644.1	1647.0	1646.6	1636.6	1630.2
32.5°	1735.3	1725.3	1715.9	1715.1	1720.4	1722.6	1737.5	1745.2	1752.0	1754.4	1755.5
35°	1870.2	1850.0	1830.4	1820.1	1811.0	1813.4	1824.1	1836.7	1851.2	1861.5	1873.4
37.5°	2040.1	2015.3	1980.9	1956.1	1950.1	1936.7	1943.8	1953.5	1967.9	1983.7	2004.6
40°	2245.9	2208.4	2169.5	2137.0	2119.5	2094.8	2094.6	2092.7	2101.4	2116.1	2145.5
42.5°	2444.1	2410.7	2369.5	2335.5	2312.4	2279.5	2272.9	2255.6	2259.5	2272.4	2301.0
45°	2629.7	2602.2	2577.1	2537.5	2518.0	2482.6	2471.3	2450.8	2439.3	2445.1	2473.8
47.5°	2809.4	2791.8	2765.6	2740.0	2725.0	2693.2	2678.8	2664.2	2649.5	2648.9	2678.8
50°	3159.7	3150.4	3119.5	3092.8	3100.0	3061.0	3063.3	3023.9	3041.8	3043.8	3106.6
52.5°	3488.9	3521.5	3544.5	3572.6	3590.7	3594.2	3606.2	3624.1	3645.7	3688.4	3746.7
55°	3677.5	3718.4	3742.1	3763.4	3798.8	3806.2	3826.2	3850.0	3868.9	3917.0	3966.3
57.5°	3901.5	3977.3	4014.2	4048.1	4095.6	4113.8	4147.1	4173.0	4197.7	4254.6	4314.3
60°	4039.6	4131.9	4207.0	4260.8	4320.2	4363.0	4413.5	4453.9	4511.6	4579.7	4668.9
62.5°	3929.8	4065.5	4165.1	4257.2	4338.2	4419.8	4492.2	4568.1	4655.6	4758.7	4897.0
65°	3492.7	3630.8	3801.4	3896.9	4004.0	4130.0	4240.1	4363.0	4482.4	4632.4	4837.0
67.5°	2811.8	2972.3	3164.0	3260.4	3383.5	3524.2	3647.6	3797.7	3937.0	4118.9	4371.7
70°	2026.8	2234.3	2395.5	2496.2	2639.8	2784.8	2904.0	3078.5	3194.0	3380.3	3641.6
72.5°	1283.3	1447.0	1644.5	1771.5	1899.0	2046.0	2167.7	2318.3	2426.0	2595.7	2832.6
75°	690.0	810.7	984.3	1104.6	1241.4	1367.0	1509.5	1610.4	1690.0	1824.3	2016.5
77.5°	323.4	396.8	484.6	577.3	670.0	766.7	860.7	942.3	976.5	1053.4	1166.9
80°	196.3	220.1	245.6	274.3	313.0	344.2	385.6	415.5	417.6	442.0	476.6
82.5°	131.2	140.0	147.7	154.9	164.7	172.6	181.3	191.7	196.0	201.6	212.8
85°	89.4	93.8	95.3	99.9	98.9	101.5	104.9	108.4	110.3	110.0	115.2
87.5°	54.9	57.1	58.2	59.3	58.5	57.4	59.0	60.8	61.4	59.7	60.4
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°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	489.4	487.1	484.6	483.1	482.5	468.3	462.2	458.2	449.7	442.8	437.1
5°	539.9	534.9	530.9	526.0	523.4	487.6	474.6	465.4	450.5	441.6	433.6
7.5°	621.1	607.0	598.7	589.3	581.4	516.6	495.1	481.0	460.1	448.3	439.2
10°	713.3	698.5	685.4	671.0	658.5	555.4	523.9	502.1	474.6	459.4	447.3
12.5°	816.0	801.6	785.1	766.7	750.7	604.6	560.7	529.6	491.8	471.6	454.7
15°	937.6	912.1	892.1	870.7	852.1	663.3	603.8	560.5	510.2	482.7	460.3
17.5°	1050.5	1023.8	996.5	977.8	956.2	729.2	647.0	592.1	525.5	489.9	461.4
20°	1160.8	1131.7	1108.1	1083.0	1060.4	797.7	693.2	619.8	535.4	490.3	454.7
22.5°	1257.9	1239.8	1213.6	1186.4	1163.5	866.0	736.5	643.2	539.2	484.1	443.0
25°	1368.5	1349.3	1317.3	1294.3	1268.6	935.7	778.9	661.4	536.9	472.7	424.9
27.5°	1486.5	1465.1	1432.3	1408.4	1377.3	1008.0	817.8	674.4	529.0	454.0	400.6
30°	1609.7	1590.1	1557.8	1533.5	1502.2	1084.7	861.5	683.3	512.9	428.0	372.3
32.5°	1741.9	1725.6	1693.5	1668.2	1634.7	1167.6	902.0	685.9	488.7	397.3	342.3
35°	1867.2	1856.1	1829.0	1805.4	1770.6	1246.2	944.9	684.7	459.8	363.8	315.0
37.5°	2008.6	2002.0	1988.6	1958.3	1915.9	1352.8	996.5	679.1	424.5	330.2	294.3
40°	2159.2	2159.7	2145.3	2124.8	2085.2	1482.1	1057.9	668.1	386.1	300.9	275.3
42.5°	2318.5	2326.9	2320.0	2305.2	2267.3	1612.3	1131.3	654.8	348.7	272.4	256.6
45°	2501.2	2511.4	2522.1	2500.4	2463.6	1784.3	1228.1	637.3	308.4	248.7	243.8
47.5°	2712.0	2728.0	2737.6	2737.9	2700.9	1997.3	1385.0	626.9	272.6	232.7	237.6
50°	3156.6	3161.6	3184.3	3223.7	3195.5	2490.6	1659.3	620.5	248.3	222.7	233.1
52.5°	3797.1	3852.9	3892.1	3889.5	3851.0	2803.8	1810.4	587.4	233.9	218.9	231.0
55°	4058.1	4127.7	4200.4	4219.6	4189.6	3071.0	1953.4	554.3	227.0	221.6	231.9
57.5°	4405.6	4523.1	4622.8	4664.7	4621.4	3413.1	2141.3	536.9	224.8	228.9	236.9
60°	4811.9	4957.0	5087.9	5163.2	5163.2	3806.2	2336.2	529.8	221.9	239.5	245.3
62.5°	5072.6	5286.0	5483.7	5593.9	5590.7	4079.9	2422.6	505.1	215.2	247.0	257.2
65°	5073.7	5327.5	5579.3	5703.2	5709.5	4046.2	2279.9	446.2	202.9	248.0	269.0
67.5°	4650.7	4921.4	5214.8	5353.4	5385.3	3724.7	1973.5	366.9	183.0	237.4	273.2
70°	3928.0	4192.0	4491.6	4627.9	4684.8	3175.1	1589.6	282.7	157.3	213.8	264.3
72.5°	3094.7	3353.6	3562.0	3661.8	3706.0	2427.0	1157.6	213.6	128.9	180.2	240.6
75°	2191.0	2385.4	2496.2	2518.3	2525.2	1463.0	703.4	158.9	106.3	140.1	203.1
77.5°	1236.5	1319.9	1310.8	1320.7	1238.5	564.8	306.3	113.7	87.6	106.5	157.6
80°	482.7	497.8	467.6	458.2	420.2	210.2	135.1	79.3	70.0	80.7	110.3
82.5°	212.8	219.7	213.3	215.0	205.6	108.4	80.8	57.4	53.4	59.0	73.1
85°	117.1	119.4	118.8	122.3	117.1	43.3	38.4	35.3	37.4	40.1	47.0
87.5°	57.1	57.8	55.9	58.7	56.9	21.9	19.0	20.0	21.9	22.5	22.5
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: GAN-AF-01-LED-U-T2R-7027

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	433.2	430.9	431.2	430.6	429.7	429.7
5°	429.4	427.2	427.2	426.8	425.3	425.6
7.5°	433.2	429.7	428.3	426.4	424.5	424.5
10°	437.4	431.2	427.6	424.3	421.9	421.9
12.5°	440.6	430.9	424.9	420.5	418.3	418.3
15°	441.6	429.1	420.5	415.5	413.4	413.1
17.5°	438.3	421.9	411.6	405.7	402.9	402.1
20°	427.6	408.8	396.2	389.5	385.8	384.6
22.5°	411.6	390.1	375.4	368.5	363.8	362.8
25°	389.1	366.1	351.6	344.9	342.3	341.5
27.5°	362.8	341.5	329.3	324.9	322.6	322.3
30°	338.0	319.8	310.9	307.6	304.6	304.2
32.5°	314.9	303.4	299.9	295.4	288.4	287.5
35°	298.2	297.2	294.9	284.7	276.0	273.8
37.5°	288.1	298.0	285.8	265.7	259.5	259.0
40°	282.2	289.8	268.7	261.6	262.2	261.6
42.5°	269.0	276.7	269.1	266.0	268.1	268.7
45°	255.6	264.1	273.2	271.0	276.0	276.0
47.5°	248.0	260.9	272.9	272.9	280.5	283.1
50°	239.5	258.3	268.7	272.4	278.3	276.0
52.5°	238.9	253.7	262.5	269.1	271.8	269.4
55°	239.8	250.0	256.3	263.8	267.1	267.2
57.5°	240.8	247.8	252.1	255.6	265.2	265.2
60°	243.5	246.0	248.3	250.2	262.8	263.1
62.5°	247.8	244.1	243.5	245.3	261.4	260.4
65°	254.5	241.4	237.4	239.3	260.1	256.8
67.5°	263.6	237.4	229.6	231.0	259.0	252.1
70°	271.8	231.0	220.1	218.6	248.9	236.6
72.5°	272.6	223.5	206.7	202.7	216.3	204.5
75°	259.3	218.4	192.0	180.2	178.7	177.1
77.5°	233.6	215.6	174.9	156.5	153.3	154.4
80°	195.6	204.5	154.4	132.4	149.7	148.0
82.5°	146.1	180.5	131.2	117.1	117.0	103.3
85°	81.1	140.8	106.8	87.9	61.2	59.3
87.5°	22.6	78.2	74.7	49.6	34.0	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)