

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: P193139

Luminaire Tested: **GAN-AF-01-LED-U-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193139
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 5074 lumens
Efficiency: N/A
Efficacy: 115.3 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

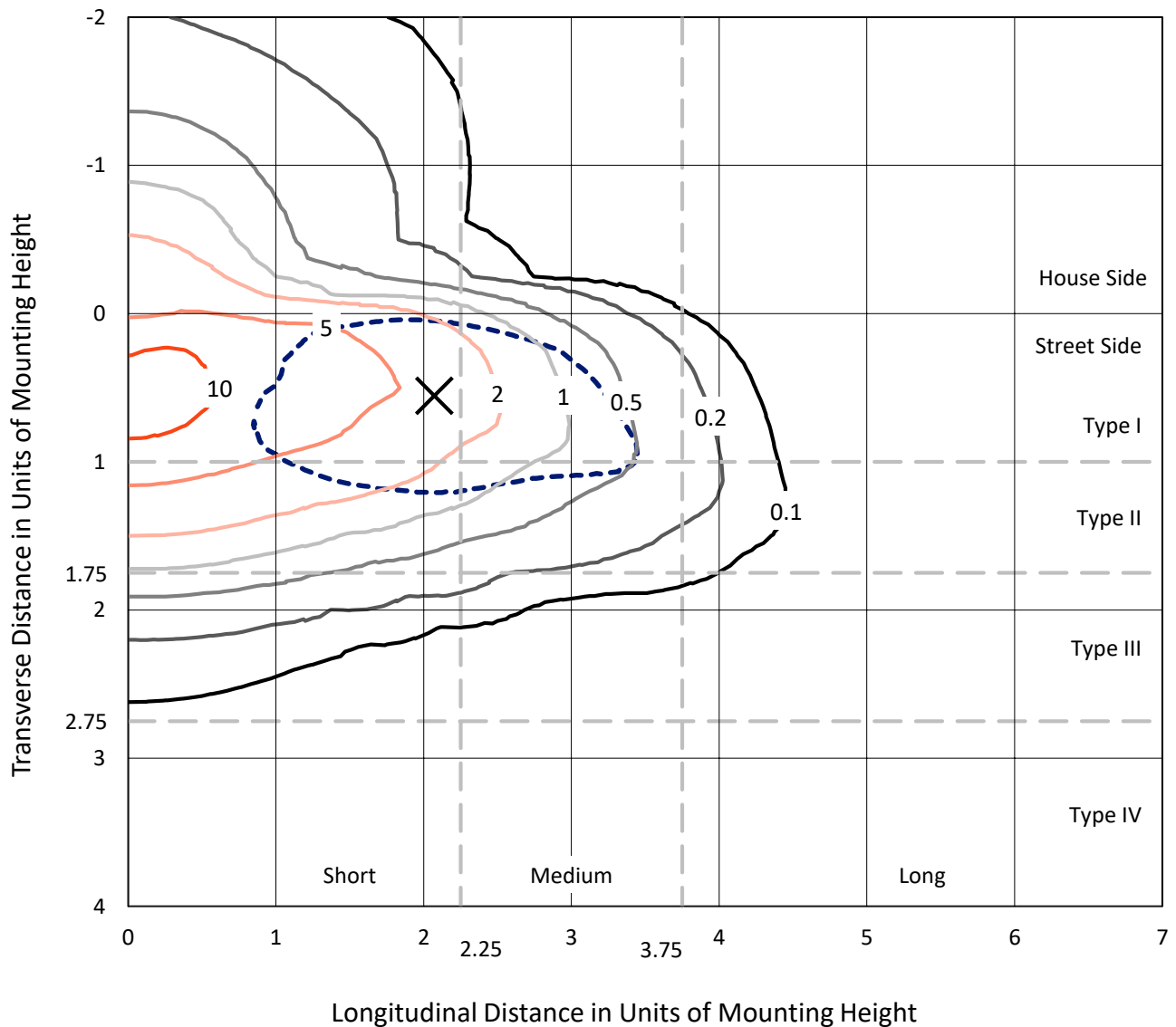
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

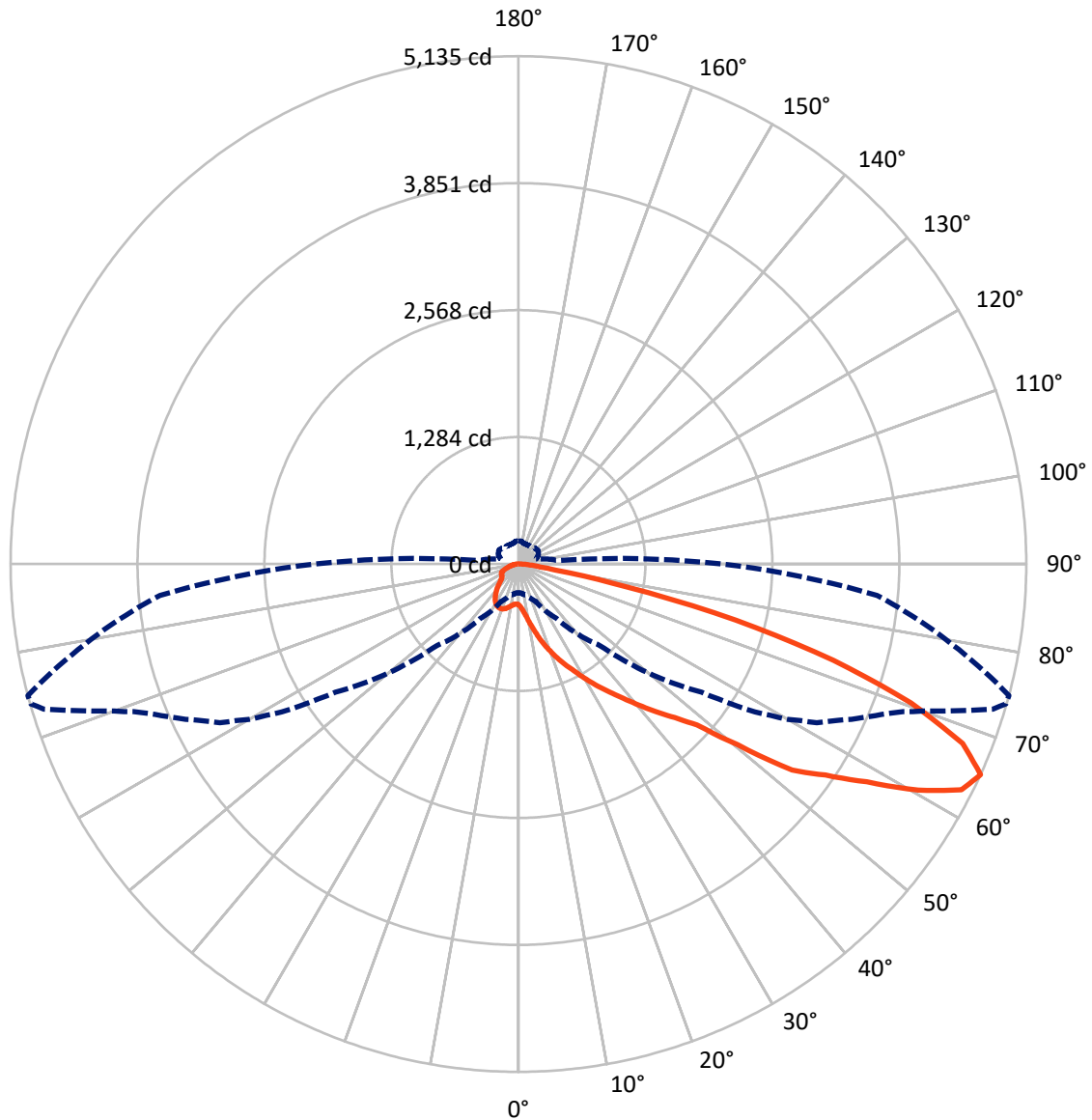
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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	782.3	0.0	782.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4291.7	0.0	4291.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	5074.0	0.0	5074.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	1.0
10°-20°	199.1	3.9
20°-30°	408.6	8.1
30°-40°	687.4	13.5
40°-50°	949.8	18.7
50°-60°	1185.7	23.4
60°-70°	1067.0	21.0
70°-80°	447.3	8.8
80°-90°	78.1	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°	5074.0	100.0
0°-180°	5074.0	100.0



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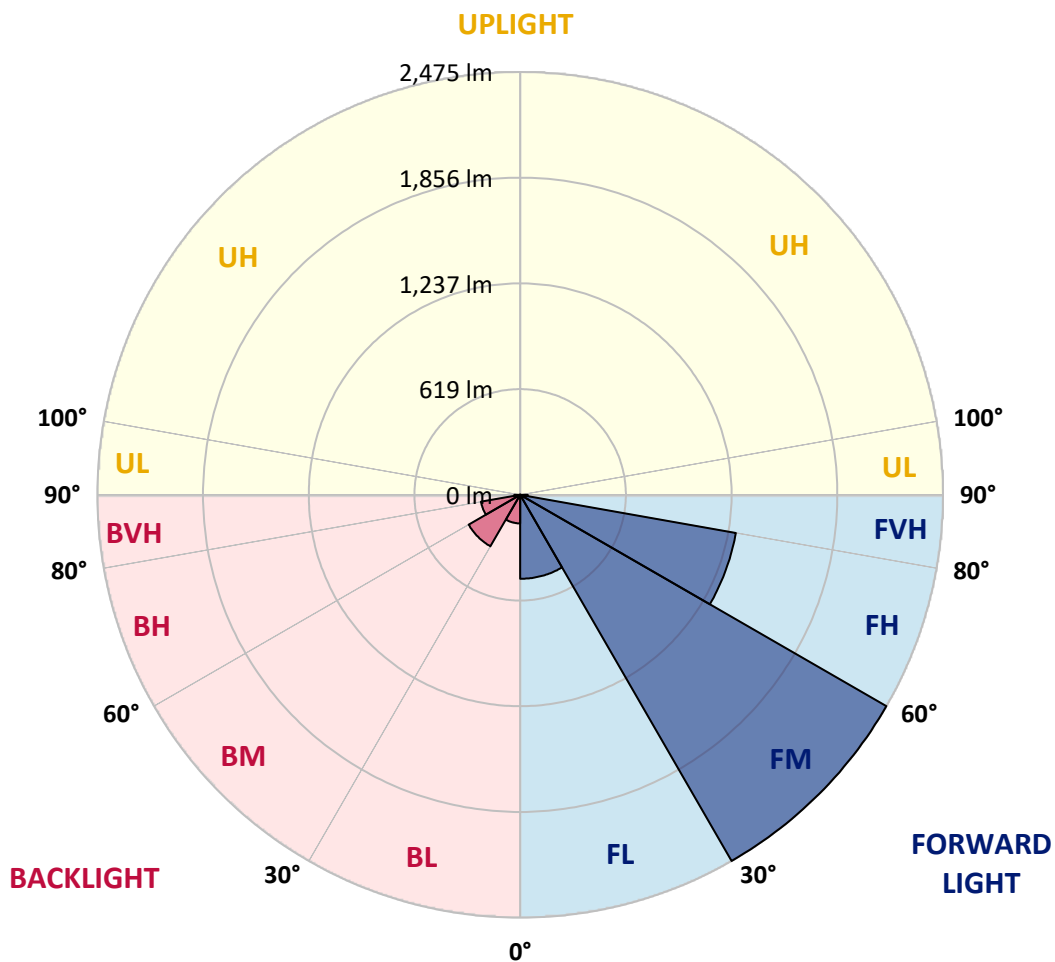
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.4	9.7			
FM	(30°-60°)	2474.7	48.8			
FH	(60°-80°)	1281.7	25.3			G1/1800
FVH	(80°-90°)	43.9	0.9			G1/100
BL	(0°-30°)	167.3	3.3	B1/500		
BM	(30°-60°)	348.2	6.9	B1/1000		
BH	(60°-80°)	232.6	4.6	B1/500		G1/500
BVH	(80°-90°)	34.2	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°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	523.6	517.8	519.2	509.5	497.9	482.5	465.5	465.2	465.5	463.8	457.5
5°	726.0	719.0	716.4	694.8	663.1	618.0	568.9	563.7	561.5	556.0	543.2
7.5°	873.7	869.9	865.8	849.5	820.6	770.2	704.4	693.1	682.4	679.7	665.3
10°	969.0	968.1	959.4	955.2	937.1	893.4	829.3	818.5	806.7	802.6	787.5
12.5°	1044.5	1044.2	1040.1	1041.4	1025.7	994.0	938.7	928.9	920.3	907.8	897.0
15°	1096.6	1096.9	1102.9	1109.5	1107.2	1085.8	1033.9	1029.6	1022.1	1013.5	1000.7
17.5°	1139.3	1140.5	1146.7	1159.0	1172.3	1170.6	1129.5	1125.9	1119.4	1107.7	1100.9
20°	1235.8	1240.4	1228.4	1228.4	1229.8	1236.4	1216.7	1213.8	1204.7	1198.5	1193.1
22.5°	1398.9	1404.2	1377.1	1349.5	1322.4	1302.6	1282.9	1286.5	1280.3	1276.0	1272.9
25°	1610.8	1614.9	1570.9	1524.2	1469.1	1397.0	1348.3	1346.1	1342.8	1340.1	1338.7
27.5°	1810.1	1811.7	1770.2	1702.0	1637.9	1534.4	1414.6	1411.9	1407.8	1402.8	1398.5
30°	1980.7	1980.1	1937.3	1872.2	1803.7	1689.0	1515.2	1507.0	1495.0	1481.3	1470.7
32.5°	2128.4	2127.6	2080.8	2013.3	1941.2	1842.3	1653.1	1636.2	1617.5	1590.9	1574.8
35°	2244.5	2244.0	2199.9	2129.6	2046.9	1986.7	1811.1	1790.4	1766.6	1730.8	1706.1
37.5°	2288.6	2288.6	2263.8	2215.8	2142.7	2101.4	1986.7	1961.6	1936.2	1895.6	1867.8
40°	2262.9	2263.3	2268.5	2259.7	2224.2	2192.4	2150.4	2135.6	2113.6	2077.1	2048.1
42.5°	2176.6	2179.2	2214.2	2257.3	2275.1	2270.0	2295.7	2289.0	2273.5	2245.5	2222.5
45°	2067.3	2075.5	2113.9	2195.1	2289.2	2337.0	2417.5	2418.2	2415.2	2400.2	2382.4
47.5°	1917.2	1928.8	1979.4	2089.1	2256.1	2402.1	2541.2	2547.6	2553.6	2543.8	2535.7
50°	1717.9	1731.5	1807.4	1953.0	2188.6	2469.6	2774.8	2804.1	2831.6	2828.1	2833.6
52.5°	1504.4	1520.5	1613.4	1775.6	2072.6	2485.2	2924.3	2972.0	3019.8	3058.9	3100.4
55°	1311.7	1303.1	1396.2	1566.8	1881.9	2414.8	3058.5	3116.1	3169.4	3217.4	3267.0
57.5°	1050.7	1064.8	1158.0	1327.0	1629.5	2216.3	3150.9	3235.2	3311.8	3391.3	3461.5
60°	768.1	782.2	883.4	1054.8	1355.5	1915.1	3080.3	3208.1	3330.8	3452.6	3547.6
62.5°	463.8	474.3	563.4	726.7	1045.2	1557.9	2765.7	2933.4	3114.0	3259.5	3405.3
65°	288.7	294.7	327.6	417.4	671.3	1163.1	2259.7	2442.5	2637.0	2821.6	2973.2
67.5°	236.3	238.5	244.5	263.8	368.6	758.5	1681.8	1843.7	2019.3	2198.0	2366.5
70°	212.5	211.1	211.1	212.3	236.3	407.7	1101.2	1206.5	1352.8	1508.3	1662.4
72.5°	191.9	190.4	187.8	184.2	192.9	248.8	569.1	648.7	754.1	892.2	1039.9
75°	172.4	170.6	167.3	162.8	168.8	187.8	273.2	306.7	358.1	431.6	513.9
77.5°	152.3	149.9	147.0	143.5	151.4	146.0	160.2	172.2	191.9	215.5	246.4
80°	129.5	127.3	126.3	124.7	133.8	111.2	113.1	120.5	132.1	144.8	159.2
82.5°	101.4	101.4	105.2	105.9	116.1	80.0	84.5	91.0	97.0	103.8	110.5
85°	66.7	67.2	80.2	85.2	91.4	53.7	63.4	65.5	70.4	74.2	77.1
87.5°	20.9	22.6	48.9	54.3	52.6	30.5	38.9	39.9	43.2	45.9	48.3
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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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	457.5	454.6	452.0	451.8	449.8	447.2	448.2	444.0	444.2	442.2	439.8
5°	538.0	536.0	526.4	523.8	516.6	512.0	511.4	501.7	500.5	495.0	488.9
7.5°	653.7	647.5	634.0	627.5	615.3	606.2	601.8	589.1	582.9	568.4	562.0
10°	774.9	767.1	750.5	741.5	729.7	715.0	707.0	688.6	681.3	668.1	652.3
12.5°	887.4	879.4	862.4	855.5	839.8	824.3	815.6	794.8	785.3	764.2	751.7
15°	991.4	983.5	968.6	961.4	945.7	933.1	921.5	900.9	889.8	870.1	853.8
17.5°	1092.3	1083.9	1070.8	1064.4	1049.3	1036.4	1023.9	1004.3	993.0	973.4	958.7
20°	1185.9	1179.7	1170.2	1161.7	1146.5	1134.7	1119.9	1103.1	1086.7	1072.4	1058.4
22.5°	1267.6	1265.2	1255.1	1251.2	1238.2	1228.2	1215.2	1198.7	1186.9	1168.6	1155.6
25°	1338.0	1337.3	1332.4	1331.3	1322.1	1312.5	1309.6	1296.0	1285.1	1269.0	1255.6
27.5°	1398.5	1399.2	1398.0	1401.4	1398.9	1394.5	1394.9	1390.4	1384.1	1370.6	1358.8
30°	1465.7	1461.9	1464.1	1468.9	1470.3	1470.7	1478.8	1481.3	1480.8	1471.9	1466.1
32.5°	1560.8	1551.7	1543.3	1542.5	1547.3	1549.3	1562.7	1569.7	1575.7	1577.9	1578.8
35°	1682.0	1663.8	1646.3	1636.9	1628.8	1630.9	1640.5	1651.9	1665.0	1674.2	1685.0
37.5°	1834.8	1812.5	1781.6	1759.4	1753.9	1741.9	1748.1	1757.0	1770.0	1784.2	1802.9
40°	2019.9	1986.2	1951.4	1922.0	1906.1	1884.0	1883.8	1882.2	1890.0	1903.3	1929.7
42.5°	2198.2	2168.1	2131.2	2100.5	2079.9	2050.2	2044.2	2028.6	2032.2	2043.8	2069.5
45°	2365.1	2340.4	2317.8	2282.3	2264.7	2232.8	2222.7	2204.2	2193.9	2199.2	2224.8
47.5°	2526.7	2510.9	2487.4	2464.4	2450.9	2422.3	2409.2	2396.0	2383.0	2382.4	2409.2
50°	2841.9	2833.4	2805.6	2781.5	2788.1	2753.0	2755.2	2719.6	2735.8	2737.6	2794.1
52.5°	3137.9	3167.3	3187.9	3213.1	3229.4	3232.6	3243.4	3259.5	3279.0	3317.3	3369.8
55°	3307.5	3344.3	3365.6	3384.9	3416.5	3423.3	3441.3	3462.7	3479.7	3522.9	3567.5
57.5°	3509.0	3577.2	3610.4	3640.8	3683.5	3699.9	3730.0	3753.3	3775.4	3826.5	3880.4
60°	3633.2	3716.2	3783.7	3832.0	3885.6	3924.0	3969.4	4005.9	4057.8	4119.1	4199.3
62.5°	3534.4	3656.5	3746.1	3828.9	3901.6	3975.2	4040.3	4108.4	4187.3	4279.9	4404.3
65°	3141.3	3265.5	3418.9	3504.9	3601.3	3714.6	3813.5	3924.0	4031.3	4166.4	4350.2
67.5°	2529.0	2673.2	2845.6	2932.4	3043.1	3169.7	3280.6	3415.6	3541.0	3704.6	3931.9
70°	1822.9	2009.5	2154.5	2245.1	2374.2	2504.7	2611.8	2768.8	2872.5	3040.2	3275.4
72.5°	1154.3	1301.5	1479.2	1593.2	1708.0	1840.2	1949.6	2085.1	2181.9	2334.7	2547.6
75°	620.6	729.1	885.2	993.6	1116.5	1229.3	1357.6	1448.4	1520.1	1640.7	1813.7
77.5°	290.8	356.8	436.0	519.2	602.6	689.5	774.0	847.6	878.2	947.5	1049.6
80°	176.6	197.9	220.9	246.6	281.5	309.5	346.8	373.6	375.7	397.4	428.8
82.5°	117.9	125.8	132.9	139.3	148.1	155.1	163.2	172.4	176.2	181.4	191.4
85°	80.5	84.3	85.8	89.8	88.8	91.2	94.4	97.5	99.2	99.0	103.5
87.5°	49.5	51.4	52.3	53.3	52.6	51.7	53.1	54.7	55.2	53.7	54.3
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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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	440.2	438.0	436.0	434.5	434.0	421.2	415.7	412.1	404.5	398.1	393.2
5°	485.6	481.1	477.5	473.1	470.7	438.5	426.7	418.6	405.2	397.2	390.0
7.5°	558.7	545.9	538.4	530.0	522.8	464.7	445.2	432.5	413.8	403.2	395.1
10°	641.5	628.2	616.6	603.5	592.3	499.6	471.2	451.5	426.7	413.1	402.3
12.5°	733.9	721.0	706.1	689.5	675.1	543.7	504.3	476.3	442.4	424.2	408.9
15°	843.3	820.4	802.4	783.2	766.4	596.5	543.0	504.1	459.0	434.2	414.1
17.5°	944.8	920.8	896.3	879.4	860.0	655.9	582.0	532.4	472.6	440.8	414.9
20°	1044.0	1017.9	996.7	974.0	953.8	717.4	623.5	557.4	481.5	441.0	408.9
22.5°	1131.4	1115.1	1091.5	1067.0	1046.3	778.8	662.3	578.5	484.9	435.4	398.5
25°	1230.8	1213.6	1184.7	1164.0	1141.0	841.6	700.6	594.9	482.9	425.1	382.1
27.5°	1337.0	1317.7	1288.2	1266.7	1238.8	906.7	735.7	606.6	475.8	408.3	360.2
30°	1447.6	1430.2	1401.1	1379.3	1351.2	975.5	774.7	614.6	461.4	385.0	334.8
32.5°	1566.6	1551.9	1523.1	1500.3	1470.3	1050.2	811.2	617.0	439.6	357.4	307.9
35°	1679.5	1669.4	1645.1	1623.7	1592.6	1120.9	849.9	615.7	413.5	327.1	283.4
37.5°	1806.5	1800.5	1788.5	1761.4	1723.1	1216.7	896.3	610.8	381.9	297.0	264.6
40°	1942.0	1942.4	1929.5	1911.0	1875.4	1332.9	951.5	600.9	347.2	270.6	247.6
42.5°	2085.3	2092.8	2086.6	2073.3	2039.3	1450.1	1017.5	588.9	313.7	245.0	230.7
45°	2249.6	2258.7	2268.3	2248.9	2215.8	1604.8	1104.5	573.3	277.4	223.6	219.3
47.5°	2439.1	2453.5	2462.1	2462.3	2429.3	1796.4	1245.8	563.9	245.2	209.2	213.7
50°	2839.0	2843.6	2863.9	2899.5	2874.1	2240.1	1492.4	558.1	223.3	200.3	209.7
52.5°	3415.1	3465.2	3500.6	3498.3	3463.6	2521.7	1628.3	528.4	210.5	196.8	207.7
55°	3649.8	3712.4	3777.7	3795.0	3768.2	2762.1	1756.8	498.6	204.1	199.3	208.4
57.5°	3962.4	4068.2	4157.8	4195.4	4156.5	3069.7	1925.9	482.9	202.2	205.9	213.0
60°	4327.8	4458.5	4576.1	4643.7	4643.7	3423.3	2101.2	476.5	199.6	215.5	220.7
62.5°	4562.3	4754.3	4932.0	5031.2	5028.3	3669.5	2178.9	454.4	193.6	222.2	231.3
65°	4563.3	4791.4	5017.9	5129.4	5135.1	3639.2	2050.5	401.3	182.6	223.1	241.8
67.5°	4182.9	4426.2	4690.2	4814.8	4843.6	3350.0	1775.0	330.0	164.6	213.5	245.8
70°	3532.8	3770.3	4039.8	4162.2	4213.4	2855.8	1429.6	254.3	141.5	192.4	237.7
72.5°	2783.3	3016.2	3203.8	3293.4	3333.2	2182.9	1041.1	192.1	116.1	162.1	216.4
75°	1970.5	2145.5	2245.1	2265.0	2271.2	1315.8	632.6	142.9	95.6	126.0	182.8
77.5°	1112.1	1187.1	1178.9	1187.8	1113.9	507.9	275.5	102.2	78.7	95.8	141.7
80°	434.2	447.6	420.5	412.1	378.0	189.0	121.5	71.3	63.0	72.5	99.2
82.5°	191.4	197.6	191.9	193.3	184.9	97.5	72.7	51.7	48.1	53.1	65.8
85°	105.4	107.4	106.8	110.1	105.4	38.9	34.6	31.6	33.7	36.0	42.3
87.5°	51.4	51.9	50.1	52.9	51.2	19.6	17.1	18.0	19.6	20.2	20.2
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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CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	389.5	387.7	387.9	387.5	386.4	386.4
5°	386.2	384.3	384.3	383.8	382.6	382.9
7.5°	389.5	386.4	385.2	383.5	381.9	381.9
10°	393.4	387.9	384.5	381.7	379.4	379.4
12.5°	396.3	387.7	382.1	378.2	376.1	376.1
15°	397.2	385.9	378.2	373.6	371.8	371.5
17.5°	394.1	379.4	370.1	364.8	362.4	361.6
20°	384.5	367.6	356.4	350.4	347.0	345.8
22.5°	370.1	350.8	337.7	331.4	327.1	326.3
25°	349.9	329.3	316.3	310.3	307.9	307.1
27.5°	326.3	307.1	296.1	292.3	290.1	289.9
30°	304.1	287.7	279.6	276.7	274.0	273.5
32.5°	283.2	272.8	269.7	265.6	259.4	258.6
35°	268.2	267.2	265.2	256.0	248.3	246.2
37.5°	259.2	268.0	257.0	239.0	233.5	232.9
40°	253.8	260.6	241.6	235.4	235.9	235.4
42.5°	241.8	248.8	242.1	239.2	241.1	241.6
45°	229.9	237.5	245.8	243.7	248.3	248.3
47.5°	223.1	234.7	245.4	245.4	252.2	254.6
50°	215.5	232.2	241.6	245.0	250.2	248.3
52.5°	214.9	228.2	236.1	242.1	244.5	242.3
55°	215.7	224.7	230.5	237.3	240.2	240.4
57.5°	216.7	222.9	226.7	229.9	238.5	238.5
60°	219.1	221.1	223.3	225.1	236.3	236.5
62.5°	222.9	219.5	219.1	220.7	235.1	234.2
65°	228.9	217.1	213.5	215.1	234.0	231.1
67.5°	237.1	213.5	206.5	207.7	232.9	226.7
70°	244.5	207.7	197.9	196.6	223.9	212.8
72.5°	245.2	201.0	185.8	182.3	194.5	184.0
75°	233.2	196.4	172.6	162.1	160.7	159.2
77.5°	210.1	193.8	157.4	140.7	137.8	138.9
80°	175.8	184.0	138.9	119.1	134.7	133.1
82.5°	131.3	162.4	117.9	105.4	105.2	93.0
85°	72.9	126.5	96.0	79.0	54.9	53.3
87.5°	20.4	70.4	67.2	44.7	30.5	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)