

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: P191298

Luminaire Tested: **GAN-AF-10-LED-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52965.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
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

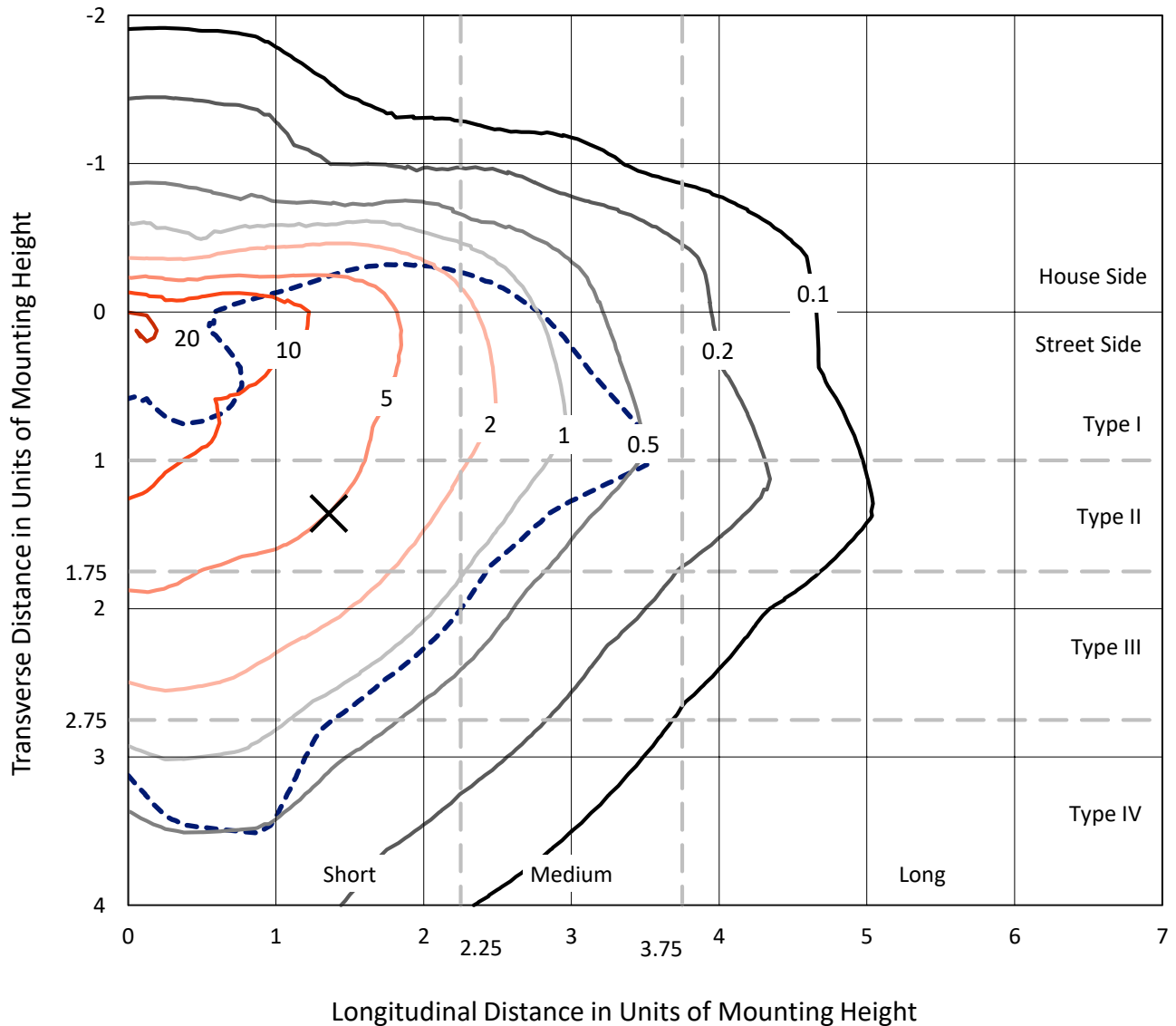


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

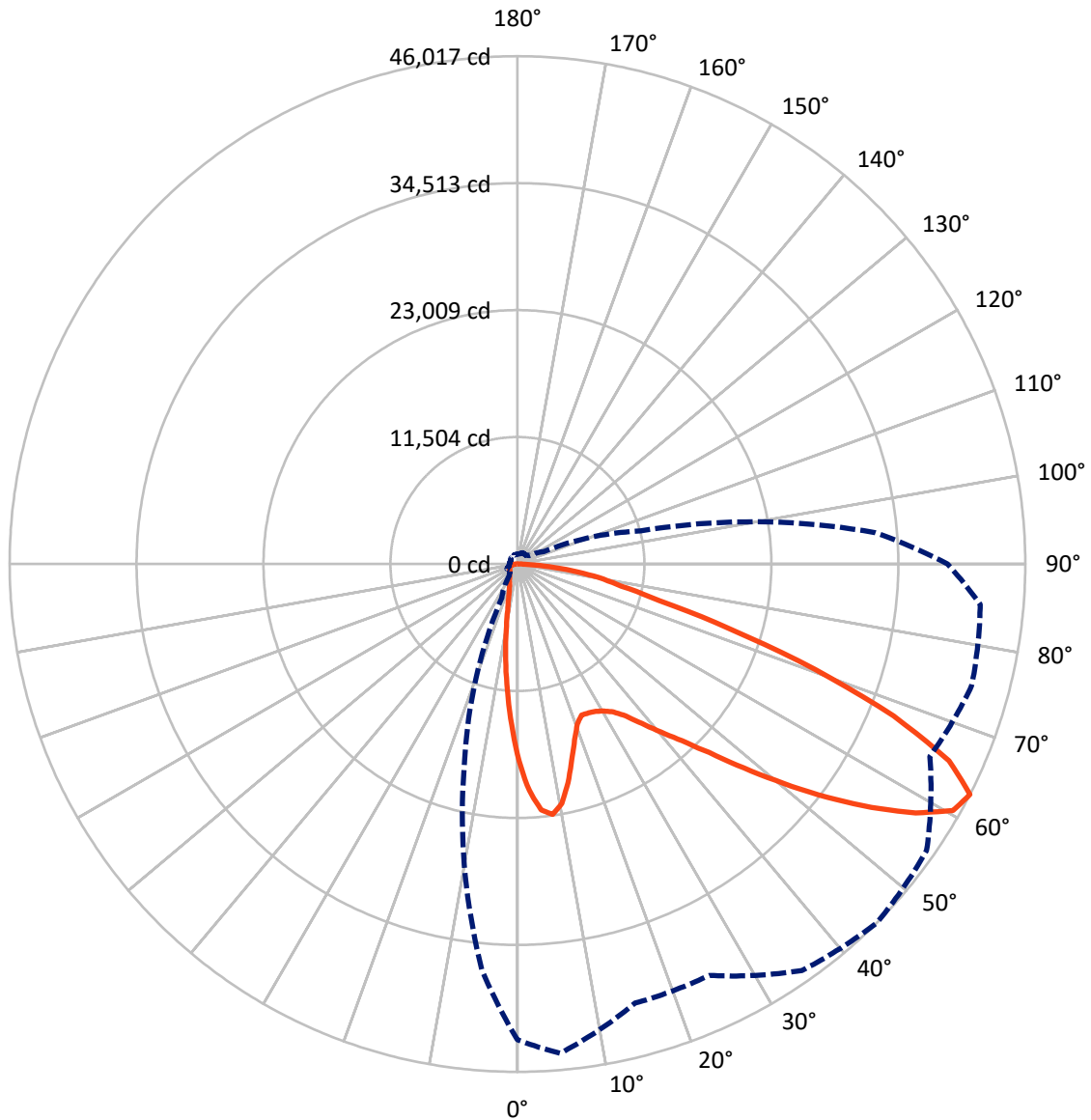


Based on 30 foot mounting height. Maximum calculated value = 23.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8765.0	0.0	8765.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	44200.3	0.0	44200.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	52965.3	0.0	52965.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.6	2.5
10°-20°	2388.7	4.5
20°-30°	3482.7	6.6
30°-40°	5363.9	10.1
40°-50°	7894.2	14.9
50°-60°	11579.1	21.9
60°-70°	12943.8	24.4
70°-80°	6337.1	12.0
80°-90°	1673.2	3.2
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°	52965.3	100.0
0°-180°	52965.3	100.0

Coefficient of Utilization



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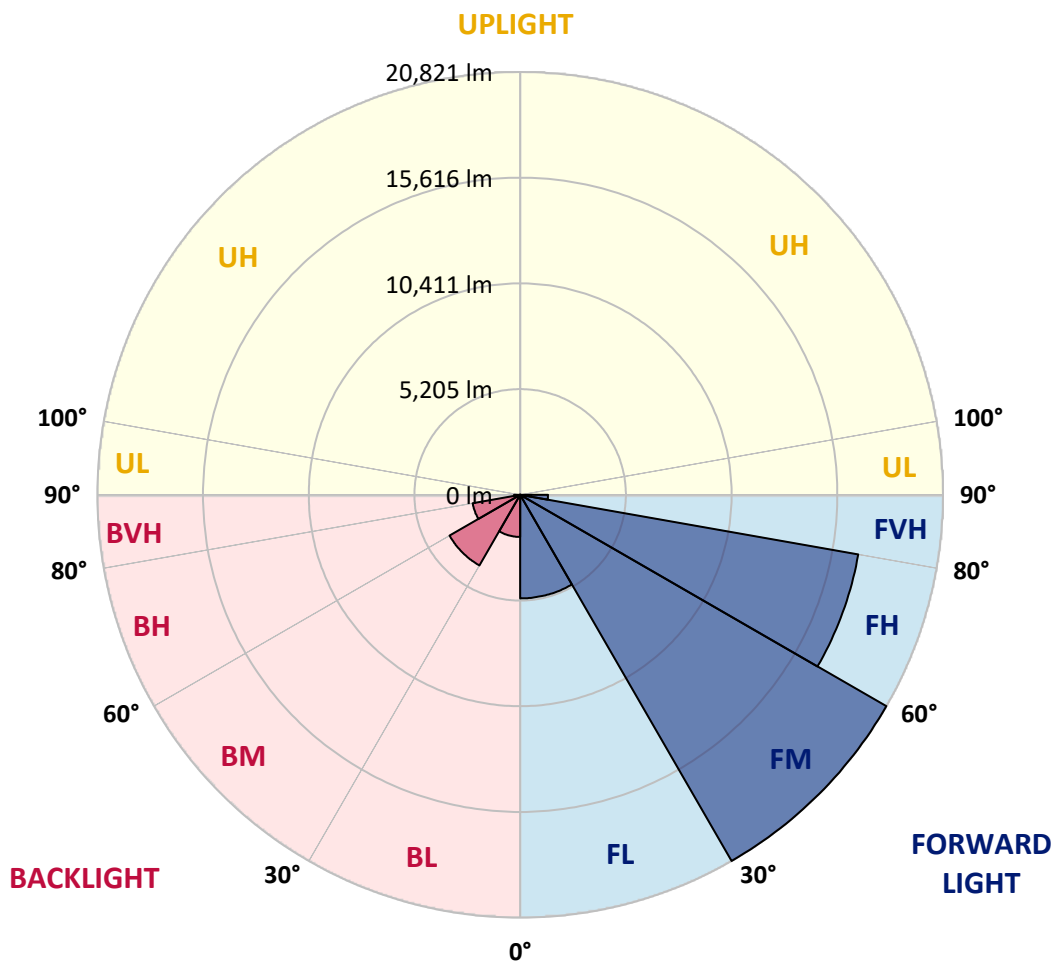
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5100.4	9.6			
FM	(30°-60°)	20821.1	39.3			
FH	(60°-80°)	16904.7	31.9			G5
FVH	(80°-90°)	1374.1	2.6			G5
BL	(0°-30°)	2073.7	3.9	B3/2500		
BM	(30°-60°)	4016.1	7.6	B3/5000		
BH	(60°-80°)	2376.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	299.1	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	18593.4	18890.3	19469.7	19903.6	20430.5	20552.8	20721.7	20555.7	20261.7	19871.5	19743.4
5°	17484.0	18118.7	19525.1	20762.4	21863.0	22375.4	22518.1	22095.9	21242.8	20121.9	19437.7
7.5°	15705.1	16607.6	18511.8	20334.4	21956.2	22914.1	22890.8	21909.6	20340.3	18514.7	17417.1
10°	14170.6	15201.4	17385.0	19423.1	21143.9	22072.6	21714.5	20459.6	18587.5	16485.4	15294.5
12.5°	13311.8	14322.0	16537.7	18584.6	20022.9	20343.2	20069.5	18840.8	17076.4	14950.9	13908.6
15°	13163.2	14272.5	16200.0	17865.4	18671.9	18392.5	18066.3	17516.0	16269.9	14455.9	13370.0
17.5°	13806.7	15029.5	16587.2	17364.6	17227.8	16741.5	16648.4	16709.5	16409.7	15006.3	13754.3
20°	15041.2	16508.6	17510.3	17128.8	16130.1	15460.5	15483.8	16418.4	17306.4	16400.9	14971.3
22.5°	16773.6	18447.7	18840.8	17254.0	15667.2	14872.4	15064.5	16578.6	18736.0	18439.0	16613.4
25°	19015.5	20541.2	20258.7	17708.2	15713.8	14945.1	15099.5	17131.7	20424.7	20477.1	18645.7
27.5°	21187.6	22602.5	21449.5	18310.9	15906.0	15116.9	15320.7	18002.3	22037.7	22689.9	20969.2
30°	22882.1	23866.2	21921.2	18861.2	16284.5	15451.8	15705.1	18829.1	22771.4	24183.6	22756.9
32.5°	24285.5	24992.9	22672.5	19542.5	16980.3	15978.7	16424.2	19833.7	23828.3	25604.4	24506.7
35°	26079.0	26279.9	23607.0	20302.4	18054.7	16895.9	17449.1	20817.8	24835.7	27039.8	26230.4
37.5°	28181.2	27922.0	24489.2	21341.8	19443.5	18331.3	18788.4	21898.0	25665.5	28667.4	27991.9
40°	30260.0	29636.9	25595.7	22954.8	21470.0	20022.9	20564.5	23051.0	26440.0	30297.9	29712.6
42.5°	32027.4	31104.4	26687.5	24728.0	23356.6	21889.2	22535.6	24212.6	27179.6	31689.6	31206.2
45°	33334.6	32187.5	27726.9	26431.3	25956.7	24369.9	24675.6	25543.3	27980.3	32851.3	32434.9
47.5°	34502.2	33276.4	28903.2	28149.2	28230.7	27595.9	27103.9	27092.2	28923.6	33800.4	33596.7
50°	36065.7	34787.5	30166.8	29919.4	31643.0	31220.9	30134.8	28900.3	30117.3	34877.7	34854.5
52.5°	38220.2	37180.8	31709.9	31826.5	34828.3	35104.9	33759.7	31072.3	31986.5	36854.7	36714.9
55°	40767.9	40162.3	33812.1	34018.8	38735.6	38933.6	37597.1	33788.8	34735.1	39716.8	39329.6
57.5°	42756.5	42628.4	36118.0	36650.9	41653.0	42543.9	41315.2	36933.3	37833.0	42127.6	41155.2
60°	43548.4	44168.6	38572.5	39306.3	44352.0	45339.0	44261.8	39696.4	40578.6	43126.3	41029.9
62.5°	43120.4	44506.3	41187.2	41126.0	44954.7	46017.4	45260.5	41233.7	42613.8	42095.6	38954.0
65°	41143.5	43292.2	42704.1	40657.3	42893.4	42980.7	42736.1	40546.6	43094.3	38837.5	34941.9
67.5°	36837.3	39929.4	40706.7	36639.2	37332.2	36764.4	36353.9	36784.8	40590.3	33954.8	29366.2
70°	30003.8	34656.4	35029.1	29305.0	28990.5	28609.2	27791.0	30158.1	35649.3	27828.9	23301.3
72.5°	22061.0	26952.4	28096.7	21493.2	20037.5	20116.0	19469.7	22727.7	28984.7	20672.2	17396.7
75°	15093.6	19516.3	21982.4	14997.5	13250.6	13282.6	13201.1	16103.9	23085.9	14380.2	13017.7
77.5°	11026.2	13943.5	16578.6	10082.8	9788.7	9608.2	9564.5	11267.8	17699.5	10441.0	10109.0
80°	8848.3	10301.1	11136.8	6987.8	7514.8	7500.2	7258.6	7747.7	11558.9	7637.0	7561.3
82.5°	6137.6	7916.6	9022.9	5476.7	5072.0	4987.5	5045.8	5770.8	8169.9	5220.4	4964.3
85°	3237.6	5258.3	8935.6	4853.6	3010.5	2402.1	2987.3	4725.5	7078.0	2766.0	2422.4
87.5°	413.5	1519.8	5916.3	1936.2	1188.0	640.6	1417.9	2661.2	4545.0	564.9	492.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	19414.4	19027.2	18520.5	18051.8	17565.5	17082.3	16450.4	16054.4	15780.8	15728.3	15611.9
5°	18942.7	17655.8	16683.3	15841.9	15079.0	14001.7	13404.8	12909.9	12645.0	12618.8	12554.7
7.5°	16767.8	14991.7	13678.6	12487.8	11407.5	10537.0	9576.1	9127.8	8944.4	8988.1	9031.7
10°	14505.4	12519.8	11011.6	9794.5	8842.5	8108.7	7337.2	6816.0	6454.9	6382.2	6367.7
12.5°	12851.7	10673.9	9209.3	8350.3	7613.7	6923.7	6105.6	5491.2	5022.5	4862.3	4754.6
15°	12153.0	9771.2	8236.8	7310.9	6498.6	5622.2	4862.3	4218.9	3788.0	3648.3	3569.6
17.5°	12301.4	9520.8	7567.2	6382.2	5342.8	4428.5	3470.6	2920.3	2661.2	2594.2	2594.2
20°	13081.7	9474.3	7014.0	5526.2	4230.5	3170.7	2384.6	2070.1	1985.6	1977.0	2000.3
22.5°	14176.5	9637.3	6600.6	4783.7	3287.2	2314.7	1857.6	1741.2	1703.3	1712.0	1738.2
25°	15806.9	10187.6	6300.7	4122.8	2579.7	1895.4	1656.7	1586.8	1569.3	1592.6	1624.7
27.5°	17740.2	10737.9	6114.3	3624.9	2177.9	1732.4	1575.1	1502.4	1514.1	1543.1	1572.3
30°	19437.7	11189.1	5820.3	3269.7	2052.7	1741.2	1575.1	1476.1	1464.6	1470.4	1479.1
32.5°	20960.5	11494.9	5476.7	2932.0	1770.2	1546.1	1470.4	1455.8	1391.7	1368.4	1371.4
35°	22273.5	11494.9	5269.9	2733.9	1586.8	1371.4	1249.0	1176.3	1144.3	1147.1	1179.2
37.5°	23540.0	11264.8	5168.0	2623.4	1487.8	1304.4	1196.6	1132.6	1088.9	1080.2	1086.1
40°	24658.1	10930.0	5051.5	2576.7	1412.1	1263.7	1161.8	1109.3	1062.7	1048.2	1051.1
42.5°	25554.8	10659.2	4923.5	2515.6	1365.5	1234.5	1138.4	1091.8	1039.4	1024.9	1021.9
45°	26524.4	10569.0	4754.6	2393.3	1388.9	1237.5	1132.6	1083.1	1030.7	1013.2	1007.4
47.5°	27802.7	10851.5	4580.0	2247.7	1438.3	1252.0	1141.3	1083.1	1027.8	1013.2	1007.4
50°	29412.7	11515.3	4358.6	2035.2	1388.9	1292.7	1138.4	1074.4	1027.8	1013.2	1001.6
52.5°	31480.0	12412.1	4067.5	1790.6	1359.7	1391.7	1132.6	1056.9	1013.2	992.9	972.4
55°	33992.7	13145.7	3721.0	1589.8	1292.7	1365.5	1123.9	1036.6	989.9	960.9	943.4
57.5°	35832.7	13410.7	3275.5	1458.7	1199.6	1321.9	1112.3	1010.3	960.9	937.5	914.2
60°	35468.8	12898.3	2900.0	1377.2	1144.3	1193.8	1103.5	987.0	934.6	917.2	896.7
62.5°	32554.3	11558.9	2658.2	1339.3	1109.3	1088.9	1112.3	963.7	911.3	893.9	888.0
65°	28184.0	9582.0	2562.2	1330.6	1080.2	1027.8	1033.6	937.5	885.2	870.5	864.7
67.5°	23248.9	7733.1	2477.8	1359.7	1042.4	984.1	955.0	902.5	858.9	844.3	832.7
70°	18334.1	6431.7	2439.9	1342.2	995.7	940.4	908.4	864.7	826.9	812.3	803.6
72.5°	14764.6	5433.0	2419.5	1324.7	934.6	882.2	853.1	815.3	774.5	768.6	760.0
75°	12493.6	4271.3	2215.7	1269.5	864.7	812.3	792.0	757.0	716.3	716.3	710.4
77.5°	9637.3	3089.2	1843.1	1123.9	792.0	733.8	716.3	690.1	643.4	652.2	649.3
80°	7118.8	2014.8	1441.2	931.7	701.6	646.4	637.6	611.4	561.9	573.6	573.6
82.5°	4876.9	1321.9	1036.6	762.8	599.8	547.4	547.4	521.2	465.9	471.7	489.2
85°	2448.6	908.4	774.5	591.1	465.9	439.7	439.7	419.3	364.0	366.8	390.2
87.5°	745.3	547.4	512.4	422.2	334.8	329.0	314.5	299.9	264.9	262.1	276.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	15434.3	15268.3	15067.3	14624.8	14476.4	14467.6	14601.5	14461.8	14729.7	14616.1	14741.3
5°	12447.0	12283.9	12059.8	11494.9	11151.3	10918.4	10807.8	10481.7	10717.6	10545.7	10688.4
7.5°	9154.0	9191.8	9043.4	8711.4	7963.2	7587.5	7366.3	7168.3	7340.1	7322.6	7596.3
10°	6434.6	6536.5	6431.7	6096.8	5491.2	5284.5	5325.3	5403.8	5628.1	5744.6	6166.8
12.5°	4632.3	4626.5	4559.5	4259.7	3860.7	3884.0	4050.0	4186.8	4393.6	4515.8	4946.8
15°	3458.9	3406.5	3377.5	3132.9	2905.8	2955.2	3036.7	3051.4	3182.4	3255.1	3604.6
17.5°	2614.6	2640.7	2672.9	2498.1	2326.4	2294.3	2230.2	2151.7	2189.5	2204.0	2378.8
20°	2076.0	2180.7	2259.4	2137.0	1962.4	1869.2	1787.7	1735.3	1735.3	1732.4	1781.9
22.5°	1813.9	1889.6	1974.1	1889.6	1732.4	1650.8	1604.3	1563.5	1557.6	1557.6	1604.3
25°	1671.2	1726.5	1808.1	1749.9	1633.3	1572.3	1528.6	1476.1	1455.8	1449.9	1481.9
27.5°	1601.3	1624.7	1665.5	1613.0	1514.1	1484.9	1473.3	1426.7	1400.4	1385.9	1417.9
30°	1481.9	1476.1	1479.1	1426.7	1348.0	1345.2	1365.5	1374.2	1365.5	1362.6	1412.1
32.5°	1371.4	1359.7	1356.8	1310.2	1237.5	1220.0	1237.5	1254.9	1275.3	1304.4	1362.6
35°	1231.6	1260.7	1278.2	1237.5	1150.1	1097.6	1077.3	1045.3	1027.8	1027.8	1094.8
37.5°	1120.9	1188.0	1214.1	1176.3	1080.2	1007.4	972.4	966.7	969.6	981.2	1045.3
40°	1083.1	1132.6	1155.9	1118.1	1021.9	955.0	934.6	928.8	934.6	952.1	1016.1
42.5°	1059.8	1094.8	1091.8	1045.3	966.7	920.0	908.4	902.5	908.4	925.9	995.7
45°	1039.4	1062.7	1039.4	984.1	911.3	888.0	891.0	888.0	893.9	911.3	978.2
47.5°	1021.9	1030.7	1001.6	946.2	870.5	864.7	876.4	885.2	891.0	905.5	975.4
50°	995.7	995.7	969.6	911.3	835.6	838.5	853.1	873.5	876.4	893.9	949.2
52.5°	963.7	960.9	943.4	888.0	806.5	815.3	815.3	838.5	844.3	864.7	923.0
55°	937.5	931.7	923.0	870.5	780.3	794.8	786.1	794.8	809.5	829.8	893.9
57.5°	914.2	902.5	902.5	856.0	760.0	765.8	745.3	757.0	774.5	792.0	858.9
60°	891.0	879.3	885.2	835.6	727.9	722.1	713.3	736.6	742.5	762.8	829.8
62.5°	864.7	856.0	858.9	812.3	704.6	690.1	690.1	710.4	713.3	742.5	806.5
65°	844.3	832.7	829.8	789.0	678.4	660.9	669.6	678.4	684.3	713.3	774.5
67.5°	824.0	800.7	800.7	768.6	649.3	631.8	649.3	646.4	655.1	681.3	730.8
70°	797.8	765.8	768.6	754.1	620.2	599.8	614.4	611.4	617.2	634.7	684.3
72.5°	757.0	730.8	736.6	730.8	591.1	561.9	567.7	567.7	567.7	582.4	634.7
75°	704.6	684.3	701.6	716.3	556.1	515.4	521.2	521.2	512.4	521.2	585.2
77.5°	640.6	628.9	687.1	666.8	515.4	465.9	465.9	460.0	442.5	454.2	524.1
80°	570.7	561.9	634.7	559.0	468.7	404.7	398.8	384.3	366.8	375.6	445.5
82.5°	497.9	489.2	532.9	428.0	404.7	334.8	320.3	294.1	276.6	285.3	349.4
85°	407.6	407.6	410.5	323.2	308.6	256.2	238.8	203.8	183.4	189.2	250.4
87.5°	291.1	299.9	276.6	221.3	183.4	142.7	131.0	110.7	93.2	107.7	131.0
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: P191298

CATALOG NUMBER: GAN-AF-10-LED-U-SLL

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6	17894.6
2.5°	15381.8	15702.1	16066.1	16531.9	16930.9	17586.0	18214.8	18593.4
5°	11500.7	12033.6	12697.4	13550.5	14345.4	15539.0	16724.1	17484.0
7.5°	8231.1	8801.7	9517.9	10583.6	11707.5	13230.2	14796.6	15705.1
10°	6810.2	7395.4	7998.1	8717.3	9637.3	11294.0	13145.7	14170.6
12.5°	5633.9	6259.8	6909.2	7666.2	8519.2	9998.3	12132.5	13311.8
15°	4312.0	5010.8	5776.6	6734.5	7803.1	9512.1	11882.2	13163.2
17.5°	2955.2	3735.5	4676.0	5858.1	7165.4	9354.9	12330.5	13806.7
20°	2035.2	2602.9	3607.4	4993.3	6565.6	9334.5	13192.4	15041.2
22.5°	1703.3	1956.6	2690.3	4198.5	6114.3	9584.9	14528.8	16773.6
25°	1575.1	1726.5	2148.7	3508.4	5785.3	10161.4	16368.8	19015.5
27.5°	1499.4	1636.3	1950.8	3057.2	5526.2	10831.1	18159.5	21187.6
30°	1528.6	1668.3	1895.4	2827.1	5173.9	11390.0	19749.2	22882.1
32.5°	1377.2	1438.3	1624.7	2623.4	4920.6	11858.9	21140.9	24285.5
35°	1173.3	1281.1	1449.9	2527.2	4926.4	12173.3	22657.8	26079.0
37.5°	1118.1	1225.8	1348.0	2492.3	4993.3	12508.1	24399.0	28181.2
40°	1083.1	1182.1	1286.9	2472.0	5057.4	12813.9	26105.2	30260.0
42.5°	1059.8	1150.1	1281.1	2402.1	5089.4	13087.5	27508.6	32027.4
45°	1056.9	1150.1	1304.4	2332.1	5138.9	13381.6	28684.9	33334.6
47.5°	1059.8	1188.0	1260.7	2247.7	5138.9	13873.7	30064.9	34502.2
50°	1048.2	1252.0	1214.1	2128.4	5019.5	14805.4	31957.5	36065.7
52.5°	1042.4	1243.2	1123.9	1944.9	4812.9	16284.5	34382.8	38220.2
55°	1027.8	1199.6	1059.8	1671.2	4571.2	17897.4	36979.9	40767.9
57.5°	1013.2	1062.7	1024.9	1432.5	4198.5	19032.9	38767.6	42756.5
60°	1135.5	928.8	995.7	1316.0	3700.6	19344.5	38697.7	43548.4
62.5°	1051.1	870.5	957.9	1289.8	3351.2	18471.0	36910.0	43120.4
65°	824.0	832.7	920.0	1365.5	3258.1	16156.3	33742.2	41143.5
67.5°	754.1	794.8	882.2	1461.6	3266.8	12936.1	29008.0	36837.3
70°	710.4	754.1	838.5	1511.1	3290.1	9643.2	22934.5	30003.8
72.5°	660.9	698.8	789.0	1519.8	3138.7	7005.3	17676.2	22061.0
75°	602.7	637.6	719.1	1324.7	2600.0	4859.4	13521.4	15093.6
77.5°	535.7	561.9	631.8	1021.9	1930.4	3109.6	10149.7	11026.2
80°	457.2	471.7	529.9	748.3	1321.9	1944.9	8030.2	8848.3
82.5°	366.8	372.7	410.5	561.9	858.9	1249.0	5377.7	6137.6
85°	259.1	259.1	282.4	407.6	585.2	792.0	2920.3	3237.6
87.5°	122.2	125.2	125.2	224.2	305.8	401.8	672.6	413.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)