

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: P266782

Luminaire Tested: **GAN-AF-03-LED-U-T2R-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266782
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-03-LED-U-T2R-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13289.2 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

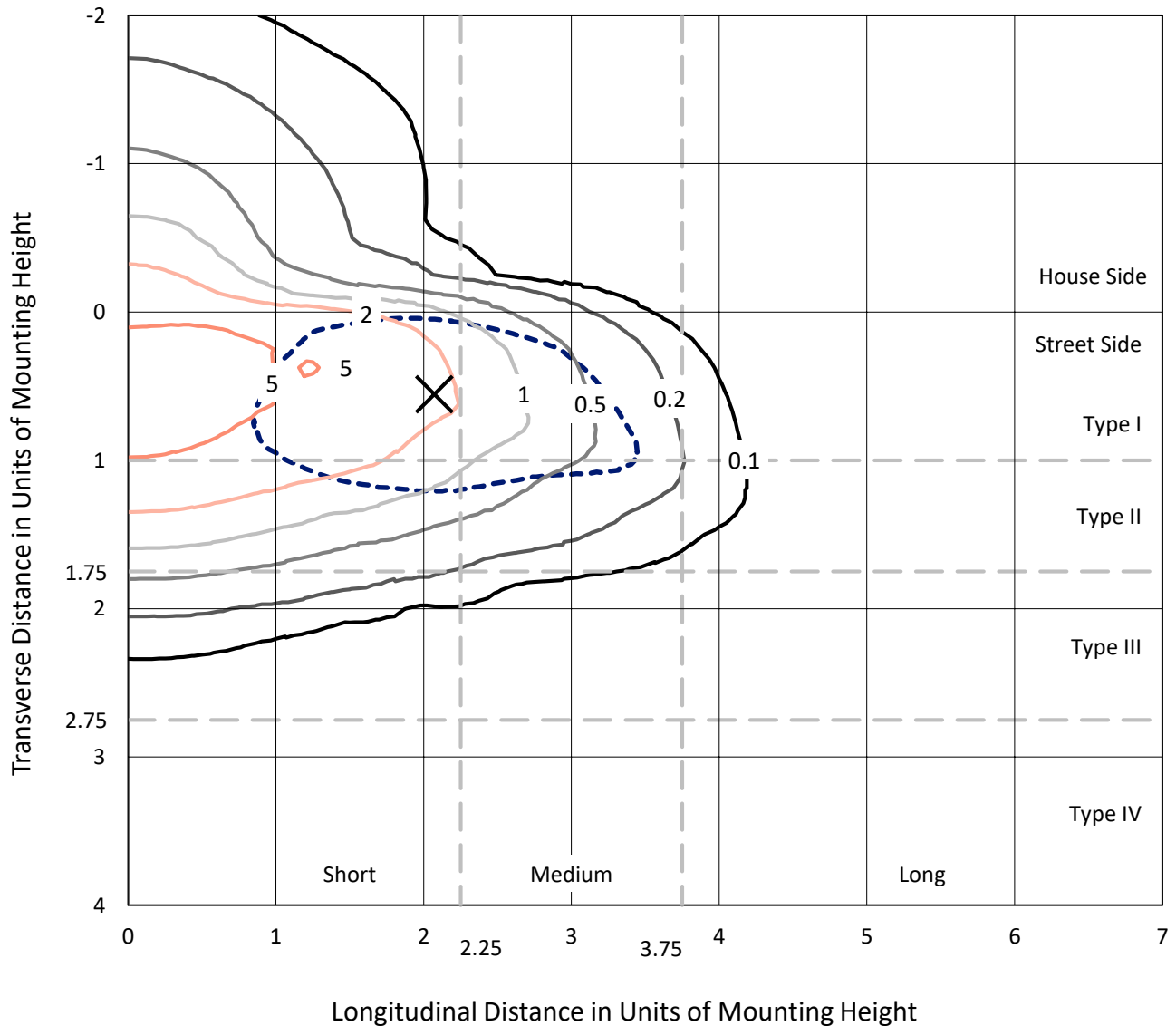


REPORT NUMBER: P266782

CATALOG NUMBER: GAN-AF-03-LED-U-T2R-7027-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

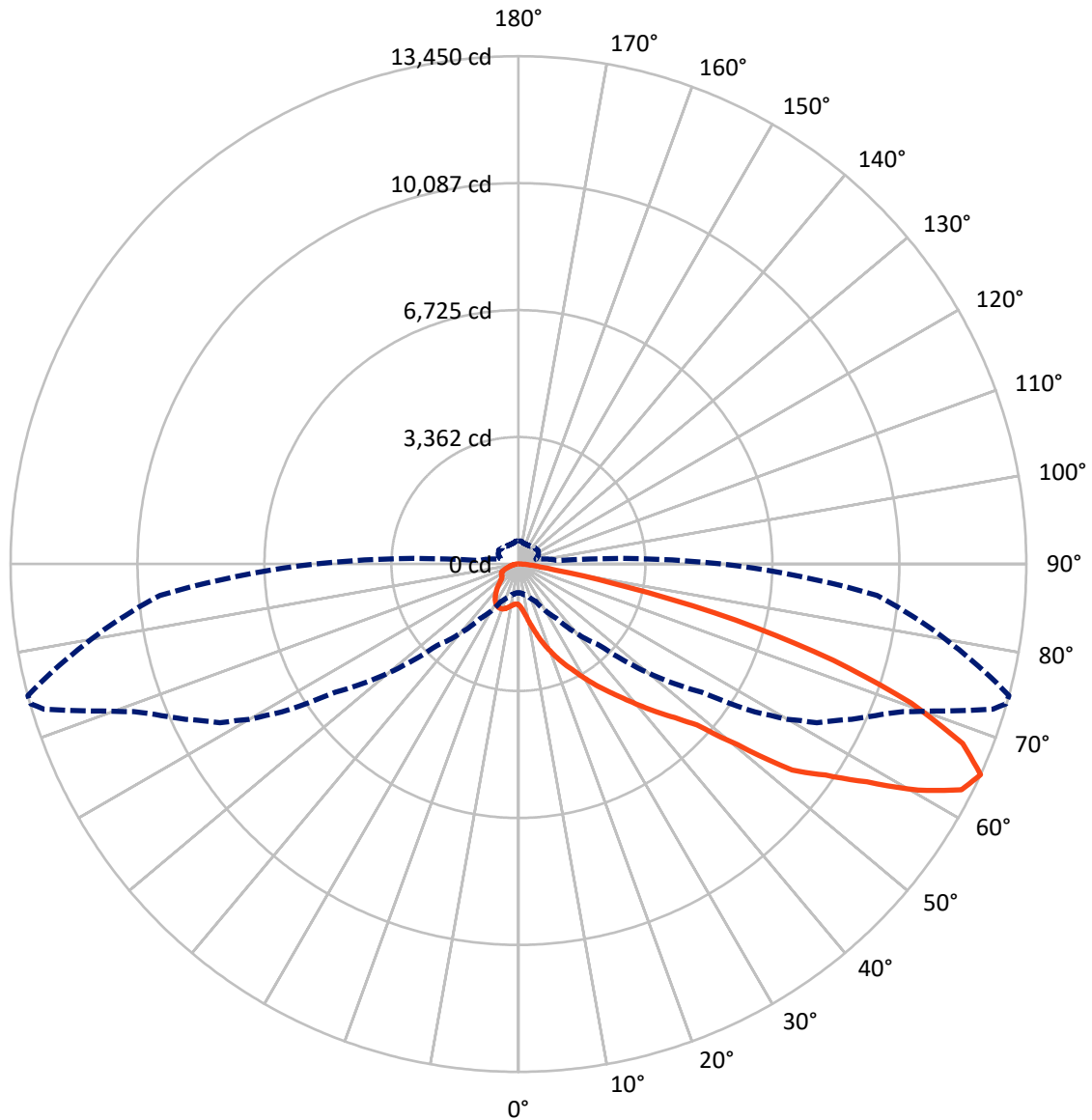


Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P266782

CATALOG NUMBER: GAN-AF-03-LED-U-T2R-7027-800-ADJ

Luminous Intensity Polar Plot



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



REPORT NUMBER: P266782

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2048.9	0.0	2048.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11240.4	0.0	11240.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	13289.2	0.0	13289.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.0
10°-20°	521.6	3.9
20°-30°	1070.1	8.1
30°-40°	1800.4	13.5
40°-50°	2487.7	18.7
50°-60°	3105.4	23.4
60°-70°	2794.5	21.0
70°-80°	1171.4	8.8
80°-90°	204.6	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°	13289.2	100.0
0°-180°	13289.2	100.0

Coefficient of Utilization



REPORT NUMBER: P266782

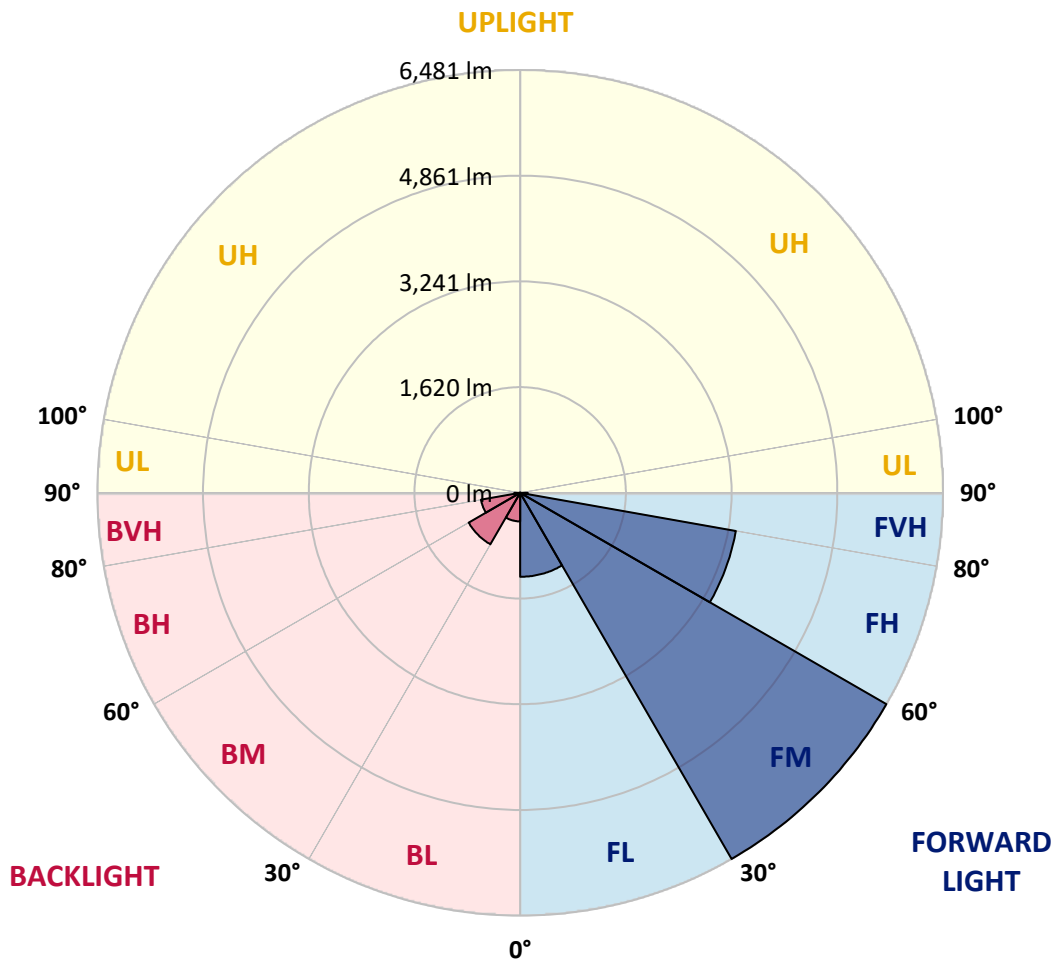
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1287.0	9.7			
FM	(30°-60°)	6481.5	48.8			
FH	(60°-80°)	3356.8	25.3			G2/5000
FVH	(80°-90°)	115.0	0.9			G2/225
BL	(0°-30°)	438.2	3.3	B1/500		
BM	(30°-60°)	912.0	6.9	B1/1000		
BH	(60°-80°)	609.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	89.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P266782

CATALOG NUMBER: GAN-AF-03-LED-U-T2R-7027-800-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1371.3	1356.1	1359.9	1334.7	1303.9	1263.6	1219.0	1218.5	1219.0	1214.6	1198.2
5°	1901.5	1883.2	1876.3	1819.7	1736.8	1618.4	1490.1	1476.3	1470.6	1456.2	1422.8
7.5°	2288.3	2278.3	2267.6	2224.8	2149.4	2017.2	1844.8	1815.4	1787.0	1780.1	1742.4
10°	2538.0	2535.6	2512.9	2501.6	2454.3	2339.9	2171.9	2143.6	2112.9	2102.2	2062.5
12.5°	2735.6	2734.9	2724.2	2727.3	2686.6	2603.5	2458.8	2433.0	2410.3	2377.6	2349.3
15°	2872.1	2872.7	2888.4	2905.9	2899.6	2843.8	2707.9	2696.5	2677.0	2654.4	2621.1
17.5°	2984.0	2987.1	3003.6	3035.6	3070.1	3065.7	2958.2	2948.7	2931.8	2900.9	2883.4
20°	3236.9	3248.8	3217.4	3217.4	3221.1	3238.1	3186.6	3179.0	3155.0	3138.8	3124.9
22.5°	3663.9	3677.8	3606.8	3534.4	3463.3	3411.8	3360.2	3369.6	3353.3	3342.0	3333.7
25°	4218.8	4229.4	4114.3	3992.2	3847.6	3658.9	3531.2	3525.6	3516.8	3509.9	3506.1
27.5°	4740.9	4745.2	4636.4	4457.7	4289.9	4018.7	3704.9	3698.0	3687.3	3674.1	3662.7
30°	5187.4	5186.2	5074.2	4903.8	4723.8	4423.9	3968.4	3947.1	3915.6	3879.7	3852.0
32.5°	5574.3	5572.4	5449.7	5273.1	5084.2	4825.2	4329.4	4285.5	4236.3	4166.6	4124.4
35°	5878.7	5877.4	5761.6	5577.3	5361.1	5203.2	4743.3	4689.2	4627.0	4533.2	4468.4
37.5°	5993.9	5993.9	5929.1	5803.2	5612.0	5503.8	5203.2	5137.8	5071.0	4964.8	4891.8
40°	5926.5	5927.7	5941.6	5918.4	5825.2	5742.2	5632.2	5593.1	5535.9	5440.2	5364.1
42.5°	5700.7	5707.7	5799.5	5912.0	5958.5	5945.4	6012.6	5995.1	5954.9	5881.3	5820.8
45°	5414.5	5435.9	5536.6	5749.2	5995.6	6121.0	6331.7	6333.5	6326.0	6286.2	6239.7
47.5°	5021.3	5051.6	5184.3	5471.8	5909.0	6291.3	6655.5	6672.5	6688.2	6662.5	6641.1
50°	4499.3	4535.2	4733.9	5115.0	5732.2	6468.1	7267.6	7344.4	7416.0	7407.2	7421.6
52.5°	3940.1	3982.2	4225.6	4650.3	5428.4	6508.9	7658.8	7784.0	7909.1	8011.7	8120.5
55°	3435.7	3413.0	3656.5	4103.6	4928.9	6324.6	8010.5	8161.5	8301.0	8426.8	8556.4
57.5°	2751.9	2789.0	3033.0	3475.3	4267.8	5804.5	8252.5	8473.4	8674.0	8882.3	9065.9
60°	2011.6	2048.7	2313.4	2762.6	3550.1	5015.6	8067.7	8402.2	8723.7	9042.6	9291.7
62.5°	1214.6	1242.3	1475.6	1903.4	2737.4	4080.5	7243.7	7682.8	8155.7	8537.0	8918.7
65°	756.1	771.9	858.1	1093.1	1758.1	3046.3	5918.4	6397.0	6906.4	7390.3	7787.0
67.5°	618.9	624.6	640.3	690.6	965.5	1986.4	4405.0	4828.8	5288.7	5756.7	6198.2
70°	556.7	552.8	552.8	556.1	618.9	1068.1	2884.0	3160.1	3543.3	3950.1	4353.9
72.5°	502.6	498.7	491.9	482.5	505.0	651.6	1490.7	1699.0	1975.2	2336.9	2723.7
75°	451.6	446.5	438.5	426.4	442.1	491.9	715.8	803.3	937.8	1130.3	1346.1
77.5°	398.8	392.5	385.0	376.1	396.3	382.5	419.6	450.9	502.6	564.2	645.3
80°	339.0	333.5	330.8	326.4	350.3	291.2	296.4	315.8	345.9	379.3	417.1
82.5°	265.4	265.4	275.5	277.3	303.7	209.5	221.4	238.4	254.1	271.7	289.3
85°	174.9	176.1	210.2	223.3	239.7	140.9	166.0	171.8	184.3	194.4	201.8
87.5°	54.7	59.1	128.3	142.1	137.8	79.9	101.9	104.5	113.2	120.2	126.4
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: P266782

CATALOG NUMBER: GAN-AF-03-LED-U-T2R-7027-800-ADJ

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1198.2	1190.8	1183.7	1183.2	1178.1	1171.2	1173.7	1163.0	1163.7	1158.0	1151.6
5°	1409.0	1404.0	1378.8	1371.9	1352.9	1341.0	1339.2	1314.0	1310.8	1296.3	1280.7
7.5°	1712.2	1695.8	1660.5	1643.5	1611.5	1587.7	1576.3	1543.0	1526.6	1488.9	1471.9
10°	2029.8	2009.1	1965.6	1941.7	1911.0	1872.5	1851.8	1803.3	1784.6	1749.9	1708.3
12.5°	2324.2	2303.4	2258.8	2240.6	2199.6	2158.7	2136.1	2081.5	2056.8	2001.6	1968.7
15°	2596.6	2575.8	2536.9	2517.9	2477.0	2443.7	2413.4	2359.4	2330.5	2278.9	2236.2
17.5°	2860.7	2838.7	2804.8	2787.8	2748.2	2714.1	2681.5	2630.4	2601.0	2549.4	2511.0
20°	3106.0	3089.7	3065.1	3042.5	3002.9	2972.0	2933.1	2888.9	2846.3	2808.6	2772.0
22.5°	3319.9	3313.6	3287.2	3277.1	3243.2	3216.7	3182.8	3139.3	3108.6	3060.7	3026.7
25°	3504.2	3502.3	3489.7	3486.6	3462.6	3437.5	3430.0	3394.2	3365.8	3323.6	3288.4
27.5°	3662.7	3664.5	3661.4	3670.2	3663.9	3652.7	3653.2	3641.3	3625.0	3589.7	3558.9
30°	3838.8	3828.8	3834.4	3847.0	3850.8	3852.0	3872.9	3879.7	3878.4	3855.2	3840.1
32.5°	4087.9	4064.0	4042.1	4040.0	4052.8	4057.7	4092.9	4111.3	4127.0	4132.7	4135.1
35°	4405.6	4357.8	4311.9	4287.3	4266.0	4271.6	4296.8	4326.2	4360.9	4384.7	4413.2
37.5°	4805.7	4747.2	4665.9	4608.1	4593.7	4562.2	4578.5	4601.7	4635.9	4673.0	4722.0
40°	5290.6	5201.8	5110.6	5033.9	4992.4	4934.6	4933.9	4929.4	4950.3	4984.9	5054.0
42.5°	5757.2	5678.6	5581.8	5501.3	5447.2	5369.9	5354.1	5313.3	5322.6	5352.9	5420.2
45°	6194.4	6129.7	6070.6	5977.4	5931.6	5847.8	5821.5	5773.0	5746.0	5759.8	5827.1
47.5°	6617.9	6576.3	6514.7	6454.2	6419.0	6344.2	6310.2	6275.6	6241.1	6239.7	6310.2
50°	7443.0	7421.1	7348.0	7285.2	7302.1	7210.3	7215.9	7122.9	7165.1	7170.0	7318.0
52.5°	8218.7	8295.4	8349.4	8415.5	8458.4	8466.4	8494.7	8537.0	8587.8	8688.4	8825.6
55°	8662.6	8759.0	8814.9	8865.3	8948.2	8965.9	9013.1	9069.0	9113.8	9226.9	9343.4
57.5°	9190.4	9369.1	9455.9	9535.8	9647.7	9690.5	9769.1	9830.2	9888.1	10022.0	10162.9
60°	9515.7	9733.2	9910.0	10036.5	10176.7	10277.4	10396.3	10491.8	10627.7	10788.1	10998.2
62.5°	9257.2	9576.7	9811.3	10028.3	10218.8	10411.4	10581.9	10760.4	10966.8	11209.6	11535.3
65°	8227.4	8552.7	8954.6	9179.7	9431.9	9728.9	9988.1	10277.4	10558.5	10912.0	11393.8
67.5°	6623.5	7001.5	7453.1	7680.1	7970.1	8301.6	8592.3	8945.7	9274.1	9702.5	10298.1
70°	4774.1	5262.9	5642.9	5879.9	6218.3	6560.0	6840.5	7251.8	7523.6	7962.5	8578.5
72.5°	3022.9	3408.6	3874.1	4172.8	4473.5	4819.4	5106.2	5461.1	5714.6	6114.7	6672.5
75°	1625.4	1909.6	2318.5	2602.2	2924.3	3219.9	3555.9	3793.5	3981.0	4297.4	4750.2
77.5°	761.8	934.6	1141.7	1359.9	1578.2	1806.0	2027.3	2219.8	2300.3	2481.5	2748.8
80°	462.3	518.3	578.7	646.1	737.1	810.8	908.2	978.8	983.7	1041.0	1122.8
82.5°	308.8	329.6	347.9	364.8	388.1	406.4	427.1	451.6	461.6	474.9	501.3
85°	210.7	220.8	224.5	235.3	232.8	238.9	247.3	255.4	259.8	259.2	271.1
87.5°	129.5	134.6	137.1	139.6	137.8	135.3	139.0	143.4	144.6	140.9	142.1
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: P266782

CATALOG NUMBER: GAN-AF-03-LED-U-T2R-7027-800-ADJ

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1153.0	1147.3	1141.7	1137.9	1136.6	1103.3	1088.8	1079.4	1059.2	1042.9	1029.6
5°	1271.9	1260.0	1250.5	1239.1	1232.8	1148.6	1117.8	1096.3	1061.2	1040.3	1021.6
7.5°	1463.1	1429.7	1410.2	1388.2	1369.3	1217.2	1166.2	1132.9	1083.7	1056.0	1034.7
10°	1680.1	1645.4	1614.7	1580.7	1551.2	1308.3	1234.1	1182.4	1117.8	1081.9	1053.6
12.5°	1922.3	1888.2	1849.3	1806.0	1768.1	1424.1	1320.9	1247.3	1158.6	1110.8	1071.1
15°	2208.5	2148.7	2101.6	2051.2	2007.2	1562.4	1422.1	1320.2	1202.0	1137.3	1084.4
17.5°	2474.6	2411.6	2347.5	2303.4	2252.5	1717.7	1524.1	1394.4	1237.9	1154.2	1086.9
20°	2734.4	2665.7	2610.4	2551.2	2497.7	1878.8	1632.8	1459.9	1261.2	1154.9	1071.1
22.5°	2963.2	2920.5	2858.9	2794.6	2740.5	2040.0	1734.7	1515.4	1269.9	1140.4	1043.6
25°	3223.7	3178.4	3102.8	3048.8	2988.4	2204.0	1834.8	1558.0	1265.0	1113.4	1000.7
27.5°	3501.8	3451.4	3374.0	3317.4	3244.4	2374.5	1926.7	1588.9	1246.0	1069.3	943.5
30°	3791.7	3745.8	3669.7	3612.4	3538.9	2555.0	2029.2	1609.7	1208.3	1008.3	876.8
32.5°	4103.0	4064.7	3989.2	3929.5	3850.8	2750.7	2124.9	1616.0	1151.1	935.9	806.4
35°	4398.6	4372.2	4308.7	4252.8	4170.9	2935.7	2226.1	1612.7	1083.1	856.8	742.2
37.5°	4731.5	4715.7	4684.2	4613.2	4513.2	3186.6	2347.5	1599.5	1000.2	778.1	693.1
40°	5086.2	5087.5	5053.4	5004.9	4911.9	3491.1	2492.2	1573.8	909.5	708.9	648.4
42.5°	5461.6	5481.2	5464.7	5430.3	5341.0	3797.9	2665.1	1542.3	821.5	641.6	604.5
45°	5892.0	5915.8	5941.0	5890.0	5803.2	4203.0	2892.8	1501.4	726.5	585.6	574.2
47.5°	6388.1	6425.9	6448.7	6449.2	6362.4	4705.1	3262.6	1477.0	642.2	547.8	559.9
50°	7435.5	7447.5	7500.8	7594.0	7527.3	5866.7	3908.6	1461.8	584.9	524.6	549.1
52.5°	8944.6	9075.9	9168.5	9162.2	9071.5	6604.6	4264.7	1383.7	551.0	515.7	544.2
55°	9559.0	9723.3	9894.3	9939.6	9869.0	7234.2	4601.2	1305.9	534.6	522.0	546.0
57.5°	10377.9	10654.7	10889.3	10988.2	10886.2	8040.0	5044.1	1265.0	529.6	539.1	557.9
60°	11334.8	11676.9	11985.1	12162.5	12162.5	8965.9	5503.1	1247.9	522.8	564.2	578.1
62.5°	11949.3	12451.9	12917.3	13177.1	13169.5	9610.5	5707.0	1190.1	507.0	581.8	605.7
65°	11951.8	12549.3	13142.6	13434.3	13449.5	9531.3	5370.4	1051.0	478.1	584.3	633.5
67.5°	10955.4	11592.5	12284.0	12610.3	12685.9	8774.0	4649.0	864.3	430.8	559.1	643.5
70°	9252.7	9874.8	10580.5	10901.3	11035.3	7479.6	3744.4	666.2	370.6	503.8	622.7
72.5°	7289.6	7899.8	8391.0	8625.5	8730.0	5717.1	2726.7	503.2	303.7	424.5	566.7
75°	5161.0	5618.9	5879.9	5932.1	5948.5	3446.3	1656.8	374.2	250.4	330.2	478.6
77.5°	2912.9	3109.2	3087.8	3111.1	2917.3	1330.4	721.5	268.0	206.3	250.9	371.1
80°	1137.3	1172.5	1101.4	1079.4	990.0	495.1	318.3	186.8	164.7	189.9	259.8
82.5°	501.3	517.7	502.6	506.4	484.4	255.4	190.6	135.3	125.9	139.0	172.4
85°	276.0	281.2	279.9	288.0	276.0	101.9	90.5	83.1	88.0	94.3	110.8
87.5°	134.6	135.9	131.4	138.3	133.9	51.7	44.6	47.3	51.7	52.8	52.8
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: P266782

CATALOG NUMBER: GAN-AF-03-LED-U-T2R-7027-800-ADJ

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1020.3	1015.3	1015.9	1014.5	1012.1	1012.1
5°	1011.4	1006.5	1006.5	1005.2	1002.0	1002.7
7.5°	1020.3	1012.1	1008.9	1004.6	1000.2	1000.2
10°	1030.4	1015.9	1007.0	999.5	993.9	993.9
12.5°	1037.8	1015.3	1000.7	990.7	985.0	985.0
15°	1040.3	1010.9	990.7	978.8	973.8	973.0
17.5°	1032.2	993.9	969.4	955.4	949.1	947.4
20°	1007.0	963.1	933.5	917.7	908.9	905.9
22.5°	969.4	919.0	884.4	868.0	856.8	854.8
25°	916.5	862.4	828.3	812.6	806.4	804.5
27.5°	854.8	804.5	775.5	765.4	759.8	759.2
30°	796.3	753.6	732.2	724.7	717.7	716.5
32.5°	741.6	714.5	706.3	695.6	679.3	677.4
35°	702.7	700.0	694.4	670.6	650.5	644.8
37.5°	678.7	701.9	673.0	625.8	611.3	610.0
40°	664.8	682.5	632.8	616.4	617.7	616.4
42.5°	633.5	651.6	634.1	626.5	631.5	632.8
45°	602.0	622.0	643.5	638.4	650.5	650.5
47.5°	584.3	614.5	642.8	642.8	660.4	666.7
50°	564.2	608.2	632.8	641.6	655.5	650.5
52.5°	563.0	597.6	618.4	634.1	640.3	634.7
55°	564.9	588.7	603.8	621.4	629.1	629.6
57.5°	567.4	583.7	593.8	602.0	624.6	624.6
60°	573.7	579.2	584.9	589.4	618.9	619.7
62.5°	583.7	574.9	573.7	578.1	615.8	613.4
65°	599.4	568.6	559.1	563.5	612.6	605.1
67.5°	620.8	559.1	541.0	544.2	610.0	593.8
70°	640.3	544.2	518.3	515.2	586.2	557.3
72.5°	642.2	526.4	486.8	477.4	509.5	481.9
75°	610.8	514.5	452.2	424.5	420.8	417.1
77.5°	550.4	507.6	412.1	368.7	361.1	363.5
80°	460.4	481.9	363.5	312.0	352.9	348.5
82.5°	344.1	425.2	308.8	276.0	275.5	243.4
85°	191.2	331.5	251.6	206.9	144.1	139.6
87.5°	53.4	184.3	176.1	117.0	79.9	83.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)