

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: P318817

Luminaire Tested: **GAN-SA3D-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23830 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

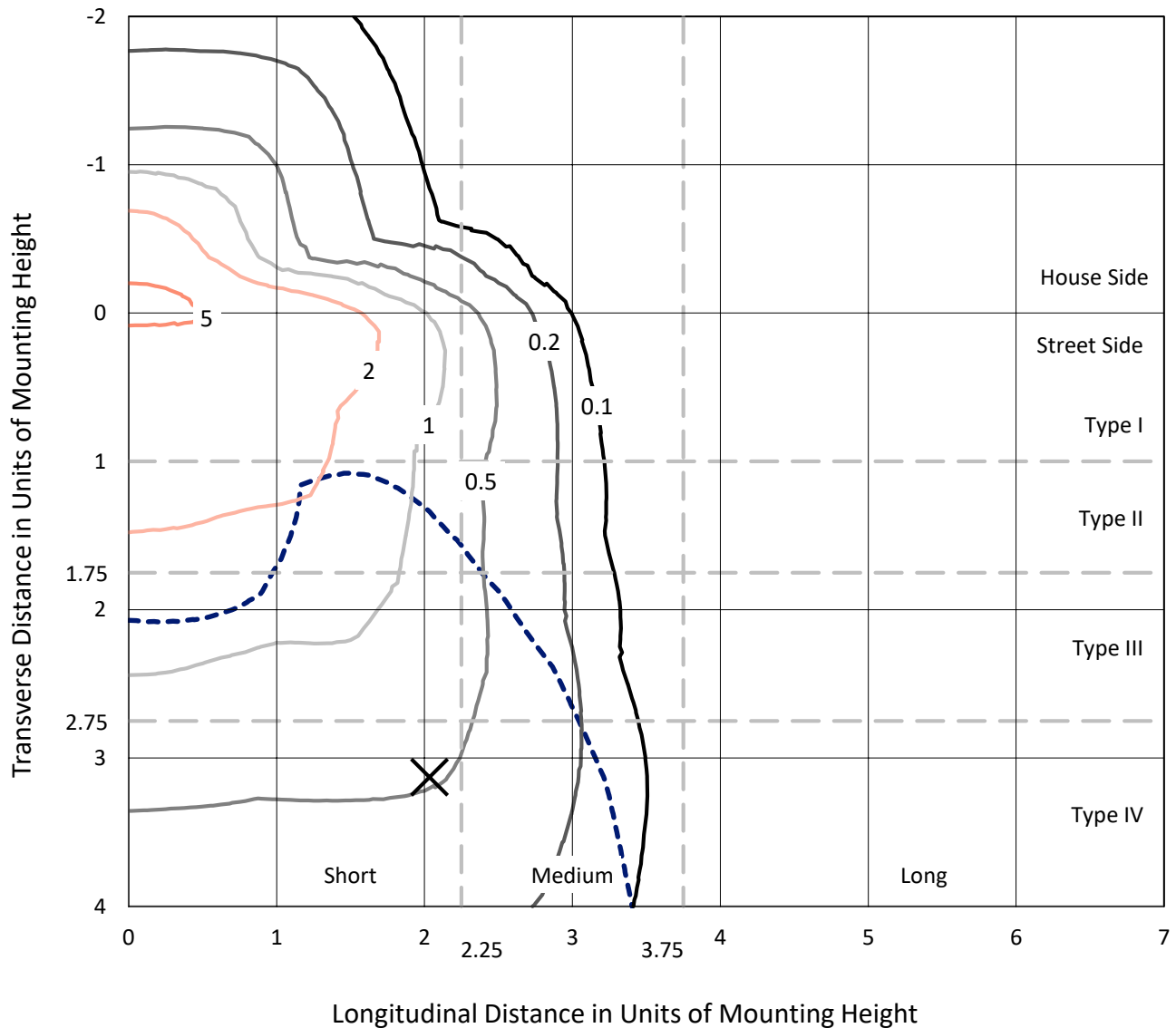
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

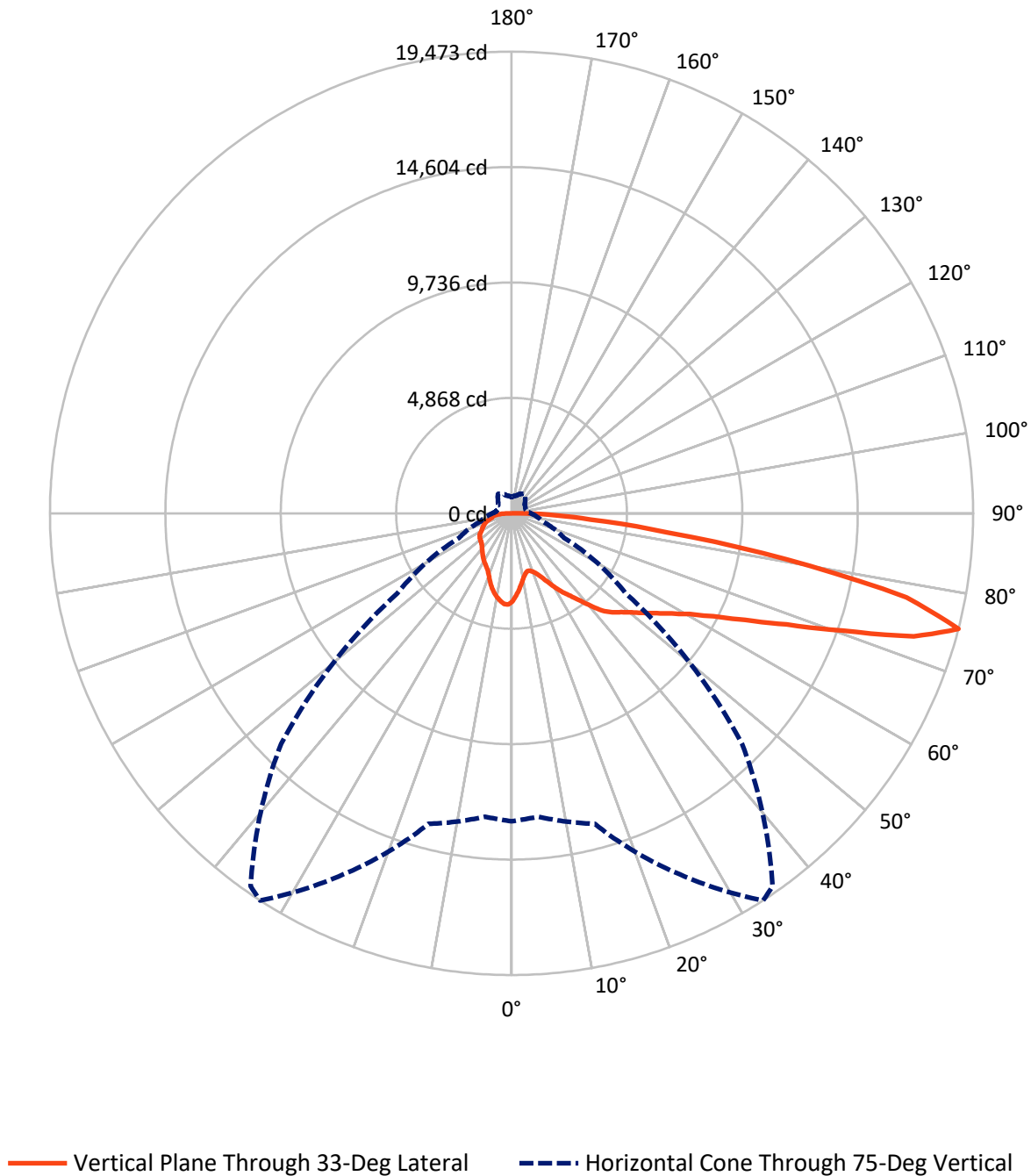
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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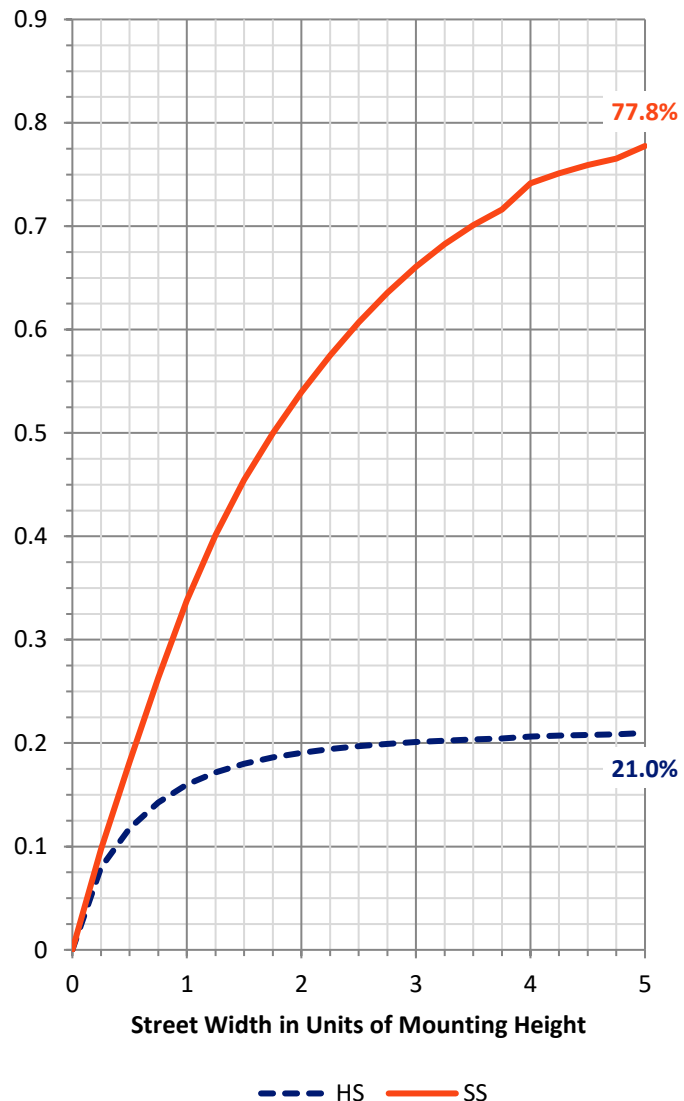
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5116.9	0.0	5116.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	18713.1	0.0	18713.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	23830.0	0.0	23830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.4
10°-20°	912.4	3.8
20°-30°	1490.0	6.3
30°-40°	2219.0	9.3
40°-50°	3182.6	13.4
50°-60°	4369.2	18.3
60°-70°	5470.1	23.0
70°-80°	4948.5	20.8
80°-90°	901.4	3.8
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°	23830.0	100.0
0°-180°	23830.0	100.0

Coefficient of Utilization



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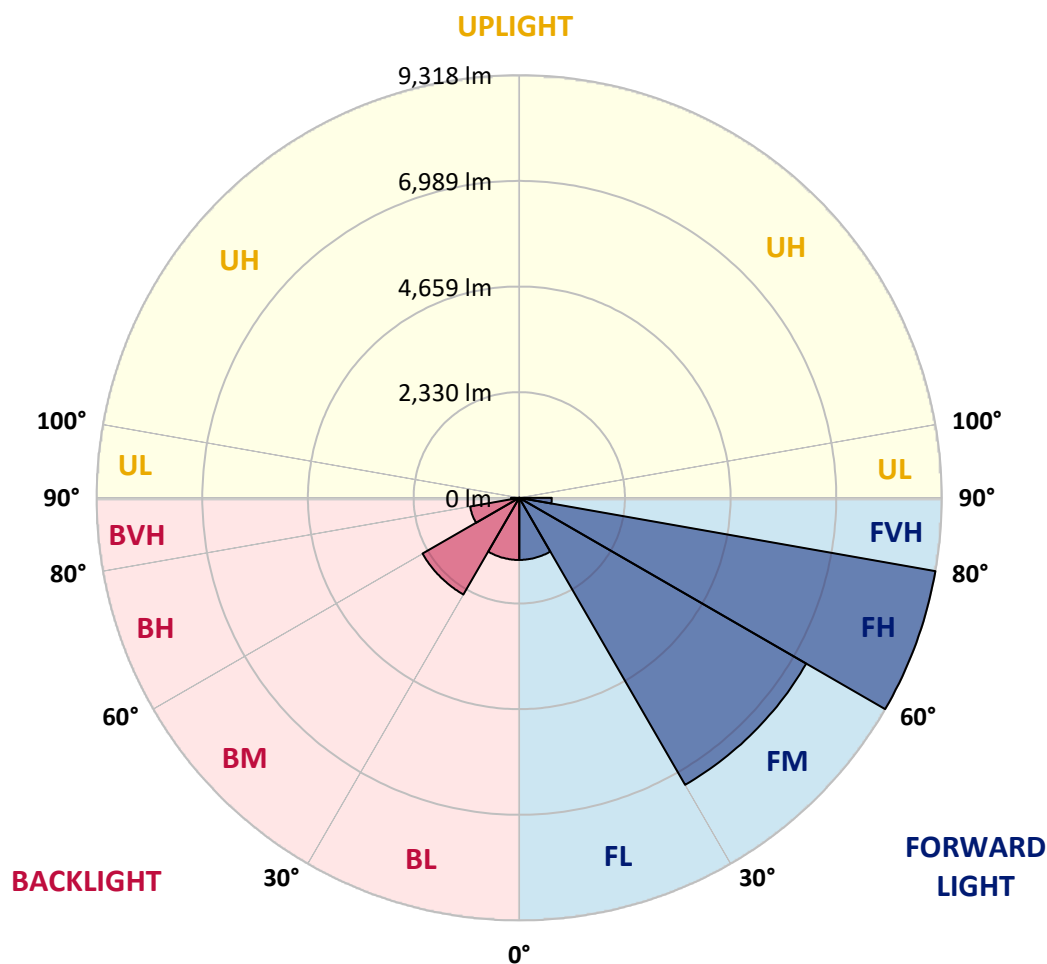
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.7	5.7			
FM	(30°-60°)	7308.2	30.7			
FH	(60°-80°)	9318.4	39.1			G4/12000
FVH	(80°-90°)	717.9	3.0			G4/750
BL	(0°-30°)	1370.6	5.8	B3/2500		
BM	(30°-60°)	2462.6	10.3	B2/2500		
BH	(60°-80°)	1100.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	183.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8
2.5°	3458.9	3445.7	3470.4	3473.7	3495.1	3503.3	3533.0	3579.1	3616.9	3660.6	3700.1
5°	3145.3	3136.2	3170.8	3195.5	3242.4	3262.2	3332.1	3430.1	3517.3	3616.1	3705.8
7.5°	2847.3	2842.3	2881.0	2937.0	2991.3	3018.5	3139.5	3281.9	3427.6	3587.3	3724.8
10°	2596.2	2594.6	2631.6	2686.8	2766.6	2797.1	2953.5	3141.1	3345.3	3565.1	3756.9
12.5°	2455.5	2461.2	2478.5	2524.6	2598.7	2629.1	2802.8	3023.4	3276.1	3557.7	3803.8
15°	2490.0	2499.1	2469.5	2467.8	2520.5	2544.4	2707.3	2939.5	3226.8	3570.0	3872.1
17.5°	2637.4	2639.0	2560.8	2511.4	2543.5	2555.9	2677.7	2891.7	3197.9	3598.0	3957.7
20°	2844.8	2840.7	2702.4	2620.1	2637.4	2640.7	2719.7	2892.6	3195.5	3646.6	4068.8
22.5°	3119.7	3089.3	2903.3	2791.3	2787.2	2782.3	2827.5	2953.5	3231.7	3725.6	4201.4
25°	3478.6	3449.8	3193.8	3040.7	3007.8	2995.4	3002.0	3083.5	3303.3	3810.4	4349.5
27.5°	3877.9	3827.7	3580.7	3364.2	3295.9	3278.6	3239.1	3267.1	3381.5	3891.9	4525.7
30°	4212.1	4184.9	3969.2	3712.4	3631.7	3607.1	3503.3	3472.9	3494.3	4003.0	4747.9
32.5°	4398.9	4380.8	4249.9	4042.5	3967.6	3933.0	3786.5	3725.6	3675.4	4178.3	5049.2
35°	4625.3	4613.8	4534.7	4384.1	4273.0	4236.8	4123.2	4059.8	3930.6	4419.5	5438.6
37.5°	4913.4	4901.0	4902.7	4780.9	4648.3	4614.6	4539.7	4473.0	4261.5	4736.4	5861.7
40°	5239.4	5215.5	5206.4	5200.7	5116.7	5097.8	5058.3	4967.7	4676.3	5115.1	6279.0
42.5°	5730.0	5645.2	5464.1	5532.4	5615.5	5605.7	5637.8	5507.7	5137.3	5562.9	6686.5
45°	6203.3	6064.2	5751.4	5766.2	5948.1	6003.2	6243.6	6151.4	5636.9	6053.5	7107.9
47.5°	6418.9	6313.6	6047.7	6048.5	6228.8	6343.2	6870.0	6804.2	6162.1	6610.7	7622.4
50°	6660.1	6554.8	6316.0	6405.8	6563.0	6684.8	7475.0	7441.3	6661.8	7220.7	8238.9
52.5°	6923.5	6744.9	6593.4	6754.0	6974.6	7116.1	8080.9	7988.7	7120.3	7834.8	8947.7
55°	6926.8	6878.3	6993.5	7111.2	7441.3	7615.0	8715.5	8471.9	7494.0	8438.1	9524.7
57.5°	7321.1	7242.1	7486.6	7540.9	7972.2	8168.1	9346.9	8892.5	7874.3	8900.7	9835.8
60°	7843.0	7775.5	7975.5	8118.7	8629.1	8890.9	10021.1	9324.7	8173.1	9249.8	9821.0
62.5°	8744.3	8667.8	8665.3	8866.2	9553.5	9858.1	10777.5	9748.6	8291.6	9318.9	9402.0
65°	10063.9	9942.0	9712.4	9807.9	10830.2	11134.0	11622.9	10055.6	8135.2	8948.5	8322.9
67.5°	11348.0	11343.9	11061.5	11257.4	12516.0	12759.7	12586.0	10086.1	7647.1	7658.6	6408.2
70°	12628.0	12644.4	12596.7	13278.3	14793.7	15047.2	13611.6	9677.0	6549.8	5530.8	3839.2
72.5°	13642.1	13638.0	13878.3	15635.8	17749.6	17692.8	14476.0	8437.3	4702.7	2985.6	1834.8
75°	12985.2	12842.0	13558.1	16803.0	19472.5	19195.1	13740.9	5885.5	2440.6	1359.0	987.8
77.5°	8469.4	8605.2	9656.4	13880.8	17032.7	16695.2	10081.1	2746.0	1149.9	891.5	716.1
80°	3067.1	3210.3	4521.6	7862.7	11734.9	11679.7	4964.4	1128.5	777.9	673.3	521.9
82.5°	1055.3	1108.0	1783.8	3491.8	6625.6	6872.5	1867.7	641.2	565.5	477.4	357.2
85°	414.0	474.1	815.7	1680.1	3342.0	3366.7	756.5	383.6	393.5	312.8	195.9
87.5°	157.2	191.0	390.2	780.3	1526.1	1401.8	270.8	182.7	223.9	186.0	93.0
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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CATALOG NUMBER: GAN-SA3D-760-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8
2.5°	3730.5	3747.8	3784.0	3808.7	3835.1	3842.5	3845.8	3852.4	3858.9	3856.5	3857.3
5°	3753.6	3787.3	3845.8	3870.5	3882.0	3868.8	3843.3	3822.7	3807.9	3799.7	3797.2
7.5°	3791.4	3839.2	3901.7	3897.6	3871.3	3812.8	3747.0	3697.6	3656.4	3641.6	3633.4
10°	3841.7	3897.6	3941.3	3894.3	3817.8	3716.5	3617.8	3541.2	3479.5	3455.6	3451.5
12.5°	3905.9	3962.7	3970.9	3871.3	3744.5	3606.2	3472.1	3370.8	3278.6	3249.0	3242.4
15°	3989.0	4042.5	3991.5	3830.9	3654.0	3467.9	3294.3	3156.8	3059.7	3023.4	3010.3
17.5°	4076.2	4127.3	3995.6	3764.3	3535.4	3304.1	3086.0	2945.2	2834.1	2792.1	2787.2
20°	4180.8	4203.8	3978.3	3668.8	3372.5	3091.8	2862.1	2729.6	2670.3	2640.7	2637.4
22.5°	4310.0	4285.3	3938.8	3539.6	3165.8	2846.5	2659.6	2597.9	2583.1	2576.5	2578.9
25°	4446.7	4370.9	3880.3	3370.8	2904.9	2601.2	2511.4	2528.7	2548.5	2546.0	2546.0
27.5°	4597.3	4458.2	3790.6	3146.9	2616.0	2400.3	2411.0	2474.4	2504.0	2503.2	2502.4
30°	4790.7	4557.0	3676.2	2877.7	2346.0	2258.7	2323.8	2401.1	2441.5	2439.8	2440.6
32.5°	5028.6	4665.6	3520.6	2577.3	2150.9	2154.2	2229.1	2305.6	2352.6	2348.5	2349.3
35°	5306.9	4787.5	3309.9	2281.0	2021.7	2071.1	2130.3	2183.8	2228.3	2222.5	2216.7
37.5°	5609.8	4906.8	3030.0	2015.9	1916.3	1993.7	2043.1	2052.1	2072.7	2057.9	2047.2
40°	5897.9	4998.2	2669.5	1798.6	1810.1	1927.8	1959.9	1923.7	1886.7	1881.7	1866.9
42.5°	6148.9	5028.6	2304.8	1624.9	1698.2	1858.7	1878.4	1802.7	1736.0	1704.7	1691.6
45°	6414.0	5039.3	1964.9	1479.2	1590.3	1796.9	1818.3	1717.1	1623.3	1555.8	1533.5
47.5°	6760.5	5116.7	1700.6	1371.4	1508.0	1755.8	1786.2	1648.8	1526.9	1430.6	1410.1
50°	7214.1	5269.8	1485.8	1289.1	1454.5	1728.6	1763.2	1582.1	1447.9	1331.9	1311.3
52.5°	7717.9	5410.6	1312.1	1222.4	1402.7	1680.9	1733.6	1534.4	1373.8	1240.5	1218.3
55°	8070.2	5302.7	1172.2	1153.2	1335.2	1612.6	1692.4	1494.0	1267.7	1151.6	1131.8
57.5°	8137.7	4934.0	1066.0	1081.6	1253.7	1526.9	1629.0	1404.3	1210.0	1112.9	1092.3
60°	7953.3	4420.3	987.0	1015.8	1166.4	1419.1	1510.5	1340.9	1154.9	1071.7	1054.5
62.5°	7489.9	3894.3	928.5	956.5	1084.9	1309.6	1436.4	1274.2	1098.9	1024.8	1007.5
65°	6553.9	3269.6	872.5	903.8	1009.2	1215.0	1369.7	1212.5	1043.8	987.0	970.5
67.5°	4947.1	2448.9	819.9	847.8	941.7	1132.7	1297.3	1151.6	990.3	954.0	934.3
70°	2913.1	1533.5	759.8	789.4	870.9	1047.0	1219.9	1084.9	923.6	907.1	881.6
72.5°	1355.7	922.8	691.4	720.3	782.0	932.6	1120.3	997.7	844.6	808.3	773.8
75°	809.2	675.0	610.8	636.3	679.9	810.8	995.2	908.8	769.6	721.9	685.7
77.5°	605.0	516.1	521.9	549.0	584.4	709.6	881.6	838.8	712.0	675.0	650.3
80°	435.4	391.8	425.6	455.2	492.2	645.4	844.6	775.4	643.7	594.3	571.3
82.5°	290.6	281.5	320.2	350.7	386.9	564.7	793.5	679.1	549.9	487.3	436.3
85°	160.5	169.6	215.7	228.8	260.1	397.6	650.3	545.7	414.0	333.4	318.6
87.5°	66.7	78.2	116.1	111.9	138.3	237.1	428.0	329.3	263.4	196.7	153.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)