

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: P321872

Luminaire Tested: **GAN-SA8A-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24197 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 257  
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

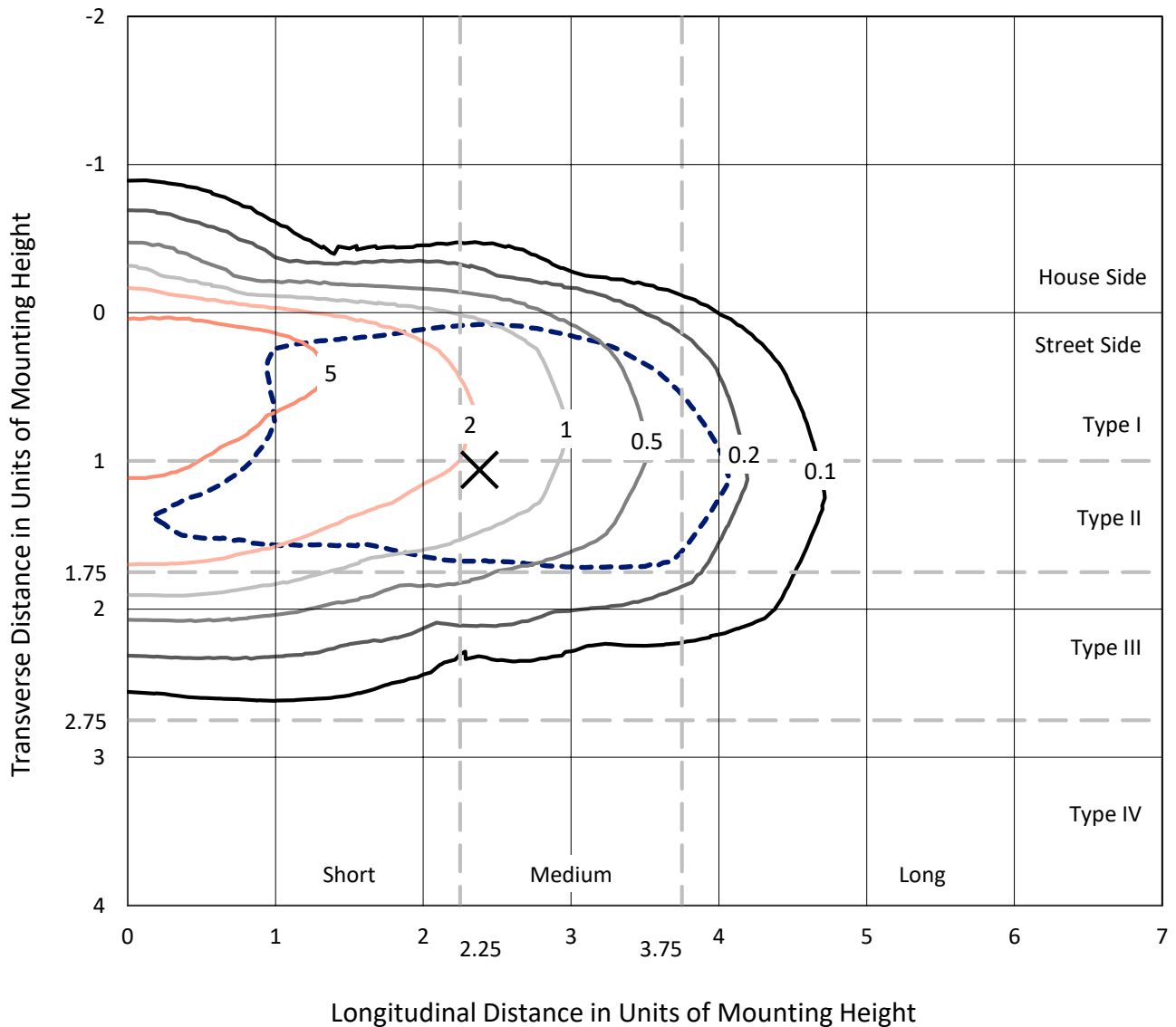




REPORT NUMBER: P321872  
 CATALOG NUMBER: GAN-SA8A-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

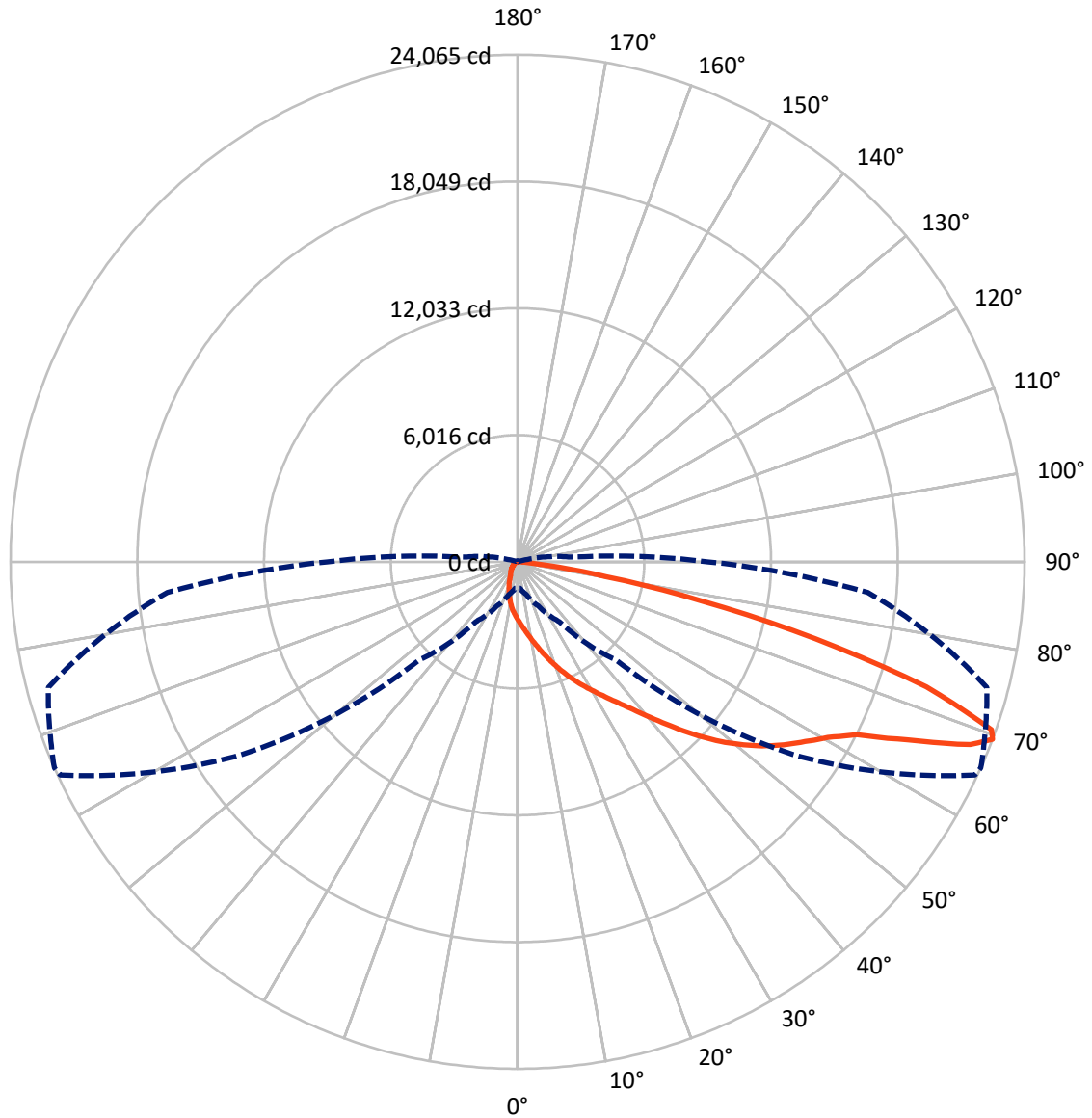
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P321872  
CATALOG NUMBER: GAN-SA8A-730-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P321872  
 CATALOG NUMBER: GAN-SA8A-730-U-T2-HSS

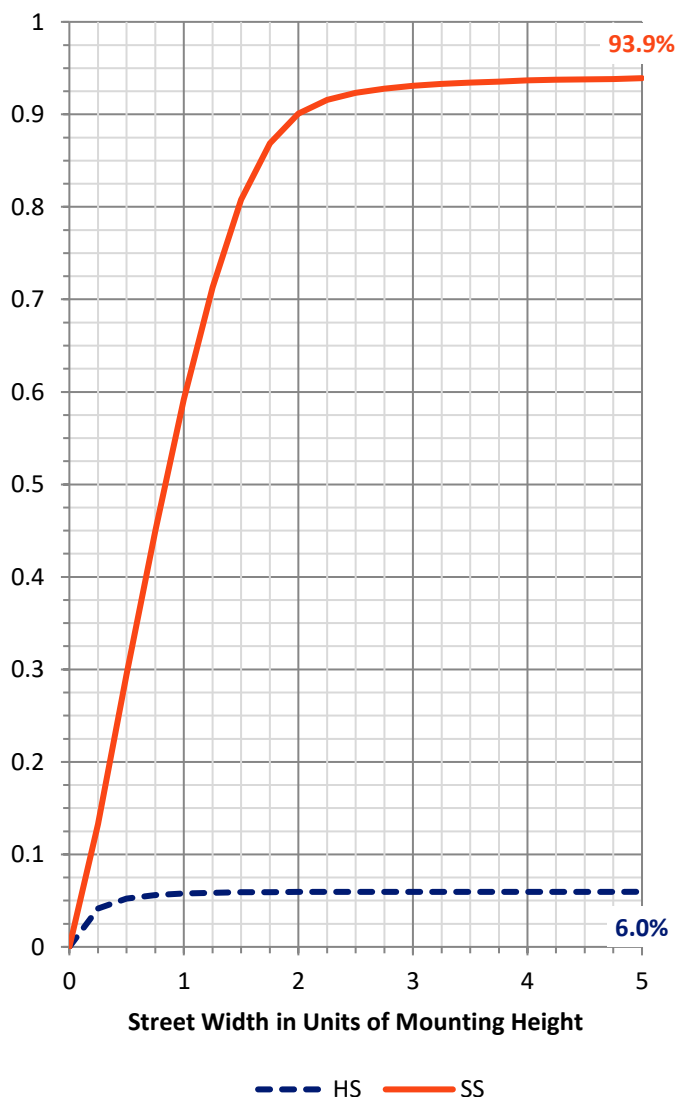
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1451.5	0.0	1451.5
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	22745.5	0.0	22745.5
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	24197.0	0.0	24197.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.2	1.1
10°-20°	792.2	3.3
20°-30°	1379.5	5.7
30°-40°	2420.4	10.0
40°-50°	4051.3	16.7
50°-60°	5955.1	24.6
60°-70°	6114.3	25.3
70°-80°	3018.5	12.5
80°-90°	199.6	0.8
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°	24197.0	100.0
0°-180°	24197.0	100.0

**Coefficient of Utilization**

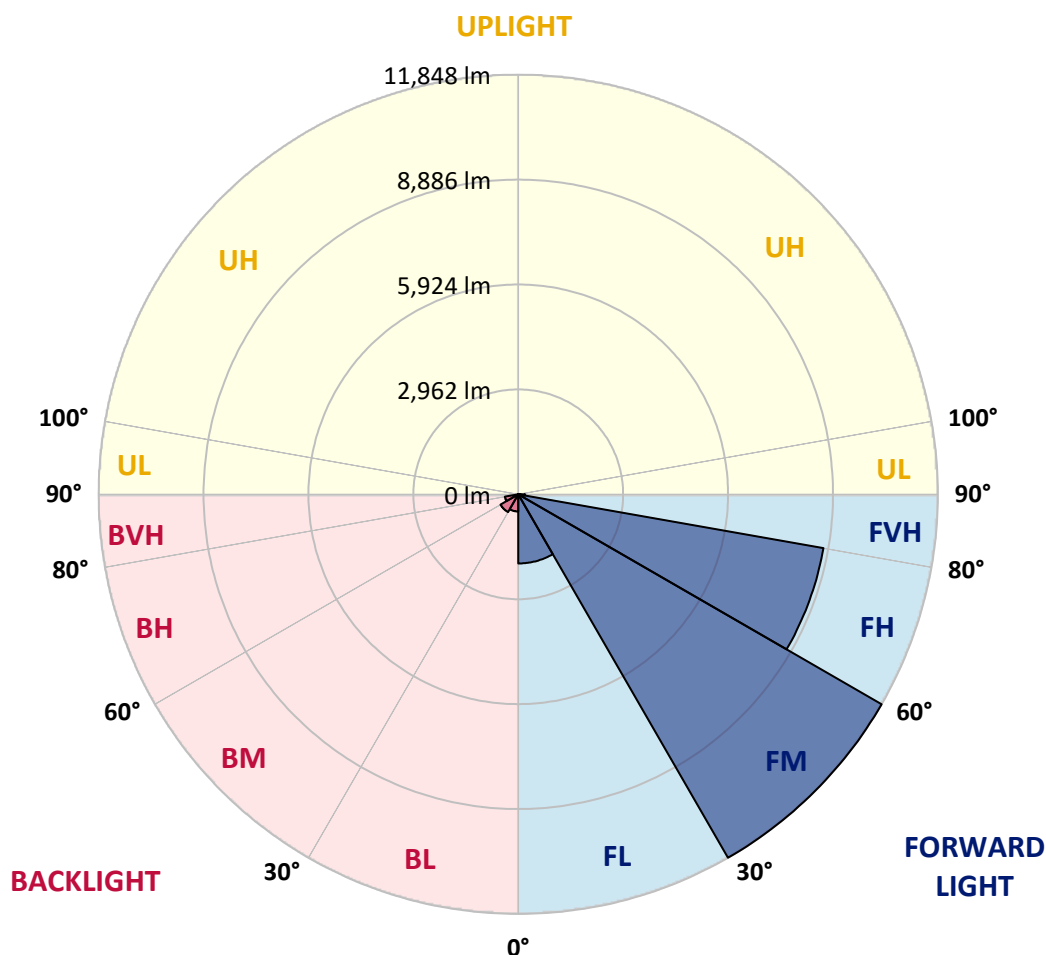


REPORT NUMBER: P321872  
 CATALOG NUMBER: GAN-SA8A-730-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.5	8.1			
FM (30°-60°)	11848.0	49.0			
FH (60°-80°)	8750.3	36.2			G4/12000
FVH (80°-90°)	194.8	0.8			G2/225
BL (0°-30°)	485.4	2.0	B1/500		
BM (30°-60°)	578.7	2.4	B1/1000		
BH (60°-80°)	382.5	1.6	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





REPORT NUMBER: P321872  
 CATALOG NUMBER: GAN-SA8A-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7
2.5°	3241.0	3227.2	3221.5	3196.2	3152.5	3119.2	3054.8	2980.1	2966.3	2893.9	2805.4
5°	3661.6	3650.1	3642.1	3606.5	3561.6	3477.7	3360.5	3221.5	3195.0	3057.1	2880.1
7.5°	3954.7	3975.4	3975.4	3952.4	3896.1	3832.9	3689.2	3499.6	3466.3	3254.8	2980.1
10°	4125.9	4151.2	4170.8	4190.3	4182.3	4157.0	4021.4	3807.6	3767.4	3486.9	3096.2
12.5°	4142.0	4167.3	4222.5	4304.1	4383.4	4440.9	4355.8	4148.9	4103.0	3755.9	3234.1
15°	4052.4	4078.8	4163.9	4322.5	4514.4	4682.2	4709.8	4527.0	4479.9	4076.5	3406.5
17.5°	3896.1	3913.3	4035.2	4254.7	4555.8	4863.8	5030.4	4932.7	4889.1	4443.2	3598.4
20°	3780.0	3792.7	3899.5	4135.1	4530.5	4977.6	5333.8	5363.7	5317.8	4836.2	3806.4
22.5°	3978.8	4001.8	4005.3	4116.8	4461.5	5033.9	5600.5	5787.8	5753.3	5253.4	4011.0
25°	4522.5	4548.9	4461.5	4392.6	4520.2	5059.2	5829.2	6222.3	6194.7	5702.8	4216.7
27.5°	5240.8	5268.3	5155.7	4950.0	4827.0	5154.6	6032.6	6663.6	6662.4	6178.6	4438.6
30°	5946.4	5974.0	5859.1	5653.4	5370.6	5424.6	6208.5	7125.6	7132.5	6669.3	4674.2
32.5°	6686.6	6721.0	6602.7	6338.3	6043.0	5891.3	6455.6	7589.9	7629.0	7238.2	4939.6
35°	7527.8	7532.4	7365.8	7088.8	6748.6	6515.3	6852.1	8110.5	8203.6	7942.7	5276.4
37.5°	8353.0	8386.4	8249.6	7812.9	7500.3	7235.9	7441.6	8761.0	8893.2	8803.6	5716.6
40°	8964.5	9034.6	9015.0	8543.8	8247.3	8058.8	8173.7	9534.5	9702.3	9805.7	6271.7
42.5°	9348.3	9401.2	9490.8	9207.0	8938.0	8969.1	9038.0	10435.5	10642.4	10948.1	6909.5
45°	9788.5	9813.8	9888.5	9763.2	9581.6	9894.2	9955.1	11450.4	11667.6	12176.7	7617.5
47.5°	10326.4	10386.1	10406.8	10291.9	10209.1	10712.5	10838.9	12373.2	12677.8	13492.7	8366.8
50°	11011.3	11027.4	11063.1	10988.4	10905.6	11415.9	11632.0	13342.1	13619.1	14813.2	9105.8
52.5°	11681.4	11738.8	11863.0	11815.8	11782.5	12014.7	12338.8	14215.6	14524.7	15914.2	9843.7
55°	11874.5	11923.9	12352.6	12645.6	12916.9	12752.5	13014.5	14998.2	15332.7	16898.0	10553.9
57.5°	11103.3	11203.3	11945.7	12708.8	13834.0	13899.5	13943.2	15801.6	16101.5	17651.9	11292.9
60°	9154.1	9173.6	10391.9	11700.9	13682.3	14900.5	15299.3	16664.7	16916.4	18354.1	12177.9
62.5°	5822.3	6021.1	7357.7	9205.8	12077.9	14755.7	16939.4	17970.3	18062.2	19196.6	13446.7
65°	2773.2	2902.0	3865.1	5687.8	8748.4	12901.9	18071.4	20332.1	20373.4	20866.5	15141.9
67.5°	1535.5	1597.5	2056.1	3061.7	5114.3	9124.2	17614.0	23129.4	23168.5	22572.0	16629.1
69°	1201.0	1253.9	1614.8	2307.8	3467.4	6557.8	15939.5	23948.9	24065.0	23060.5	16681.9
70°	1019.4	1071.1	1390.6	1949.2	2788.2	5067.2	14188.0	23745.5	23868.4	23014.5	16287.7
72.5°	624.1	653.9	926.3	1372.3	1868.7	2549.1	8749.5	20081.5	20289.5	21111.3	13998.3
75°	420.6	436.7	579.2	947.0	1336.6	1312.5	4545.4	14154.6	14605.2	16422.2	10339.0
77.5°	301.1	316.1	388.5	612.6	936.7	866.6	2058.4	8796.7	8893.2	9849.4	5638.4
80°	171.2	185.0	274.7	364.3	635.6	578.1	818.3	4201.8	4250.1	4223.6	1882.5
82.5°	89.6	101.1	150.6	240.2	408.0	378.1	340.2	1406.7	1413.6	1175.7	412.6
85°	17.2	20.7	74.7	164.3	210.3	164.3	139.1	329.8	336.7	297.7	102.3
87.5°	0.0	1.1	29.9	36.8	41.4	42.5	44.8	64.4	69.0	93.1	27.6
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: P321872  
 CATALOG NUMBER: GAN-SA8A-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7
2.5°	2766.3	2725.0	2645.7	2553.7	2482.5	2412.4	2357.2	2299.7	2279.0	2268.7	2267.5
5°	2793.9	2706.6	2538.8	2366.4	2225.0	2091.7	1996.3	1905.5	1863.0	1843.5	1835.4
7.5°	2839.9	2699.7	2429.6	2166.4	1963.0	1796.3	1664.2	1565.3	1515.9	1495.2	1487.2
10°	2893.9	2690.5	2302.0	1954.9	1695.2	1522.8	1391.8	1294.1	1240.1	1217.1	1205.6
12.5°	2957.1	2674.4	2154.9	1741.2	1466.5	1294.1	1135.5	1014.8	952.8	926.3	913.7
15°	3035.3	2658.3	2000.9	1540.0	1265.4	1055.0	881.5	799.9	787.3	782.7	783.8
17.5°	3112.3	2633.0	1833.1	1341.2	1053.9	824.0	735.5	730.9	733.2	733.2	733.2
20°	3181.2	2575.6	1650.4	1171.1	852.8	695.3	676.9	668.9	663.1	658.5	652.8
22.5°	3235.2	2498.6	1474.5	1002.2	696.5	636.7	608.0	582.7	562.0	548.2	541.3
25°	3272.0	2396.3	1313.6	840.1	626.4	579.2	527.5	485.0	452.8	433.3	425.2
27.5°	3299.6	2285.9	1170.0	703.4	578.1	512.6	444.8	394.2	360.9	343.6	336.7
30°	3319.1	2160.7	1043.6	618.3	524.1	442.5	370.1	320.7	296.5	287.3	282.7
32.5°	3337.5	2021.6	924.0	578.1	473.5	378.1	310.3	272.4	257.4	245.9	242.5
35°	3383.5	1892.9	810.2	535.6	421.8	323.0	266.6	239.1	224.1	217.2	214.9
37.5°	3492.7	1797.5	701.1	491.9	370.1	279.3	233.3	213.8	200.0	193.1	190.8
40°	3668.5	1749.2	609.1	444.8	319.5	245.9	211.5	193.1	178.1	167.8	165.5
42.5°	3927.1	1756.1	544.8	397.7	279.3	219.5	190.8	168.9	152.9	143.7	141.4
45°	4240.9	1806.7	499.9	351.7	245.9	198.8	167.8	144.8	129.9	121.8	119.5
47.5°	4581.1	1888.3	463.2	310.3	219.5	179.3	144.8	120.7	108.0	101.1	100.0
50°	4939.6	1967.6	425.2	270.1	196.5	159.8	121.8	100.0	89.6	83.9	81.6
52.5°	5302.8	2059.5	390.8	233.3	177.0	136.8	101.1	81.6	73.6	69.0	66.7
55°	5693.6	2128.5	357.4	204.6	157.5	116.1	83.9	67.8	60.9	55.2	54.0
57.5°	6153.3	2235.4	323.0	177.0	134.5	96.5	69.0	54.0	48.3	42.5	41.4
60°	6773.9	2360.6	286.2	156.3	110.3	79.3	56.3	43.7	36.8	32.2	31.0
62.5°	7592.2	2499.7	240.2	136.8	89.6	64.4	44.8	34.5	26.4	20.7	20.7
65°	8630.0	2726.1	196.5	114.9	73.6	52.9	34.5	25.3	14.9	9.2	9.2
67.5°	9235.7	2765.2	158.6	94.2	59.8	44.8	28.7	17.2	4.6	1.1	0.0
69°	9041.5	2538.8	134.5	80.5	51.7	42.5	26.4	12.6	2.3	0.0	0.0
70°	8676.0	2321.6	118.4	71.3	47.1	40.2	25.3	9.2	2.3	0.0	0.0
72.5°	7169.3	1652.7	89.6	52.9	34.5	35.6	23.0	5.7	2.3	0.0	0.0
75°	5222.4	1004.5	64.4	36.8	21.8	26.4	16.1	2.3	1.1	0.0	0.0
77.5°	2905.4	473.5	40.2	20.7	13.8	16.1	8.0	0.0	0.0	0.0	0.0
80°	943.6	128.7	18.4	11.5	8.0	9.2	3.4	0.0	0.0	0.0	0.0
82.5°	174.7	36.8	10.3	5.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	37.9	14.9	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	4.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)