

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: P321894

Luminaire Tested: **GAN-SA0C-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321894  
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-SA0C-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA 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: 45356 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

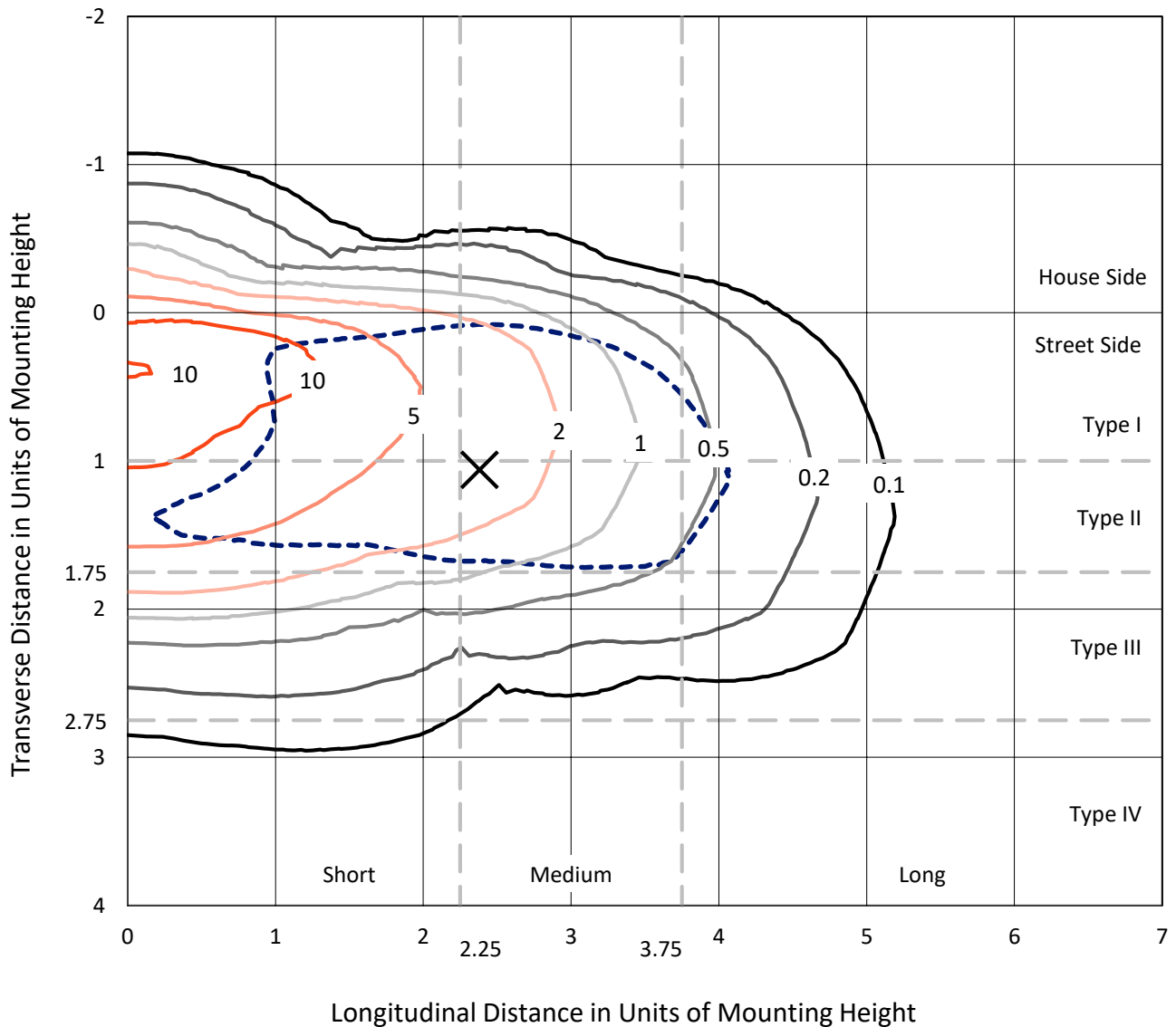
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P321894  
 CATALOG NUMBER: GAN-SAOC-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

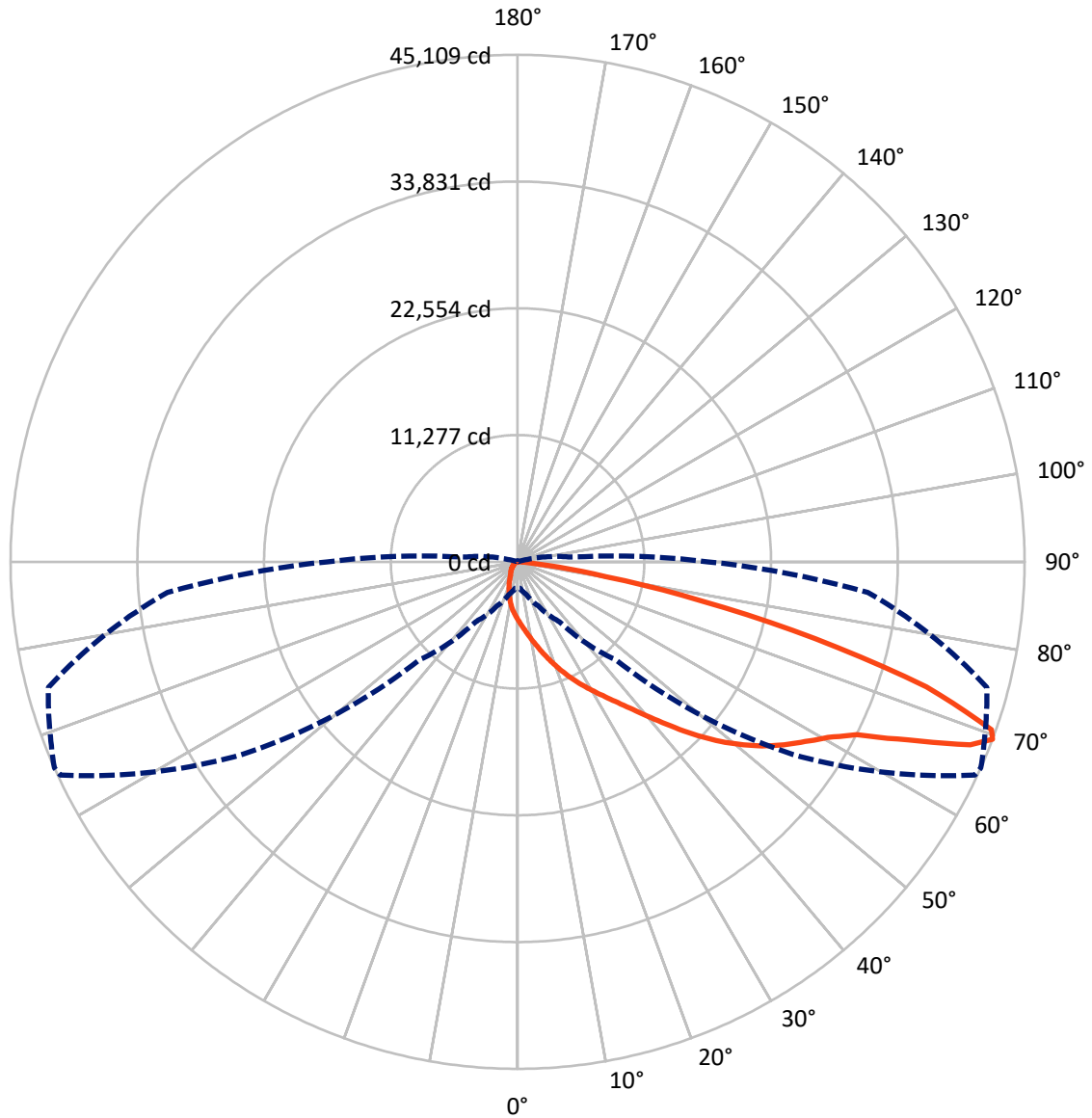
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P321894  
CATALOG NUMBER: GAN-SA0C-730-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P321894

CATALOG NUMBER: GAN-SAOC-730-U-T2-HSS

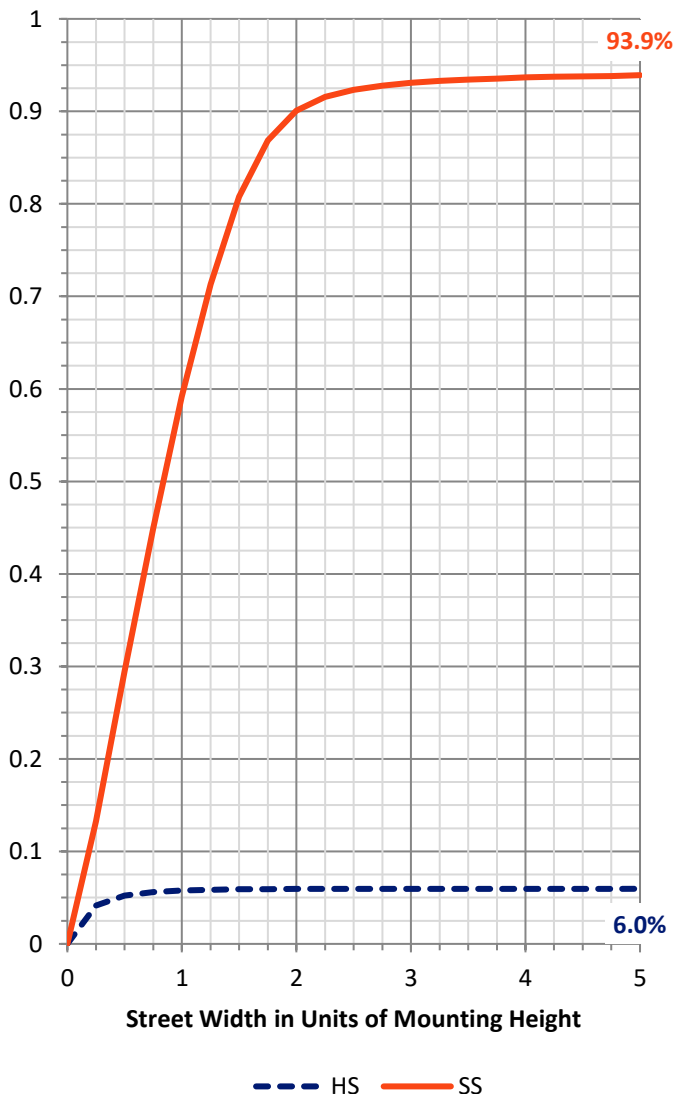
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2720.7	0.0	2720.7
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	42635.3	0.0	42635.3
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	45356.0	0.0	45356.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.9	1.1
10°-20°	1484.9	3.3
20°-30°	2585.8	5.7
30°-40°	4536.8	10.0
40°-50°	7594.0	16.7
50°-60°	11162.4	24.6
60°-70°	11461.0	25.3
70°-80°	5658.0	12.5
80°-90°	374.1	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°	45356.0	100.0
0°-180°	45356.0	100.0

**Coefficient of Utilization**

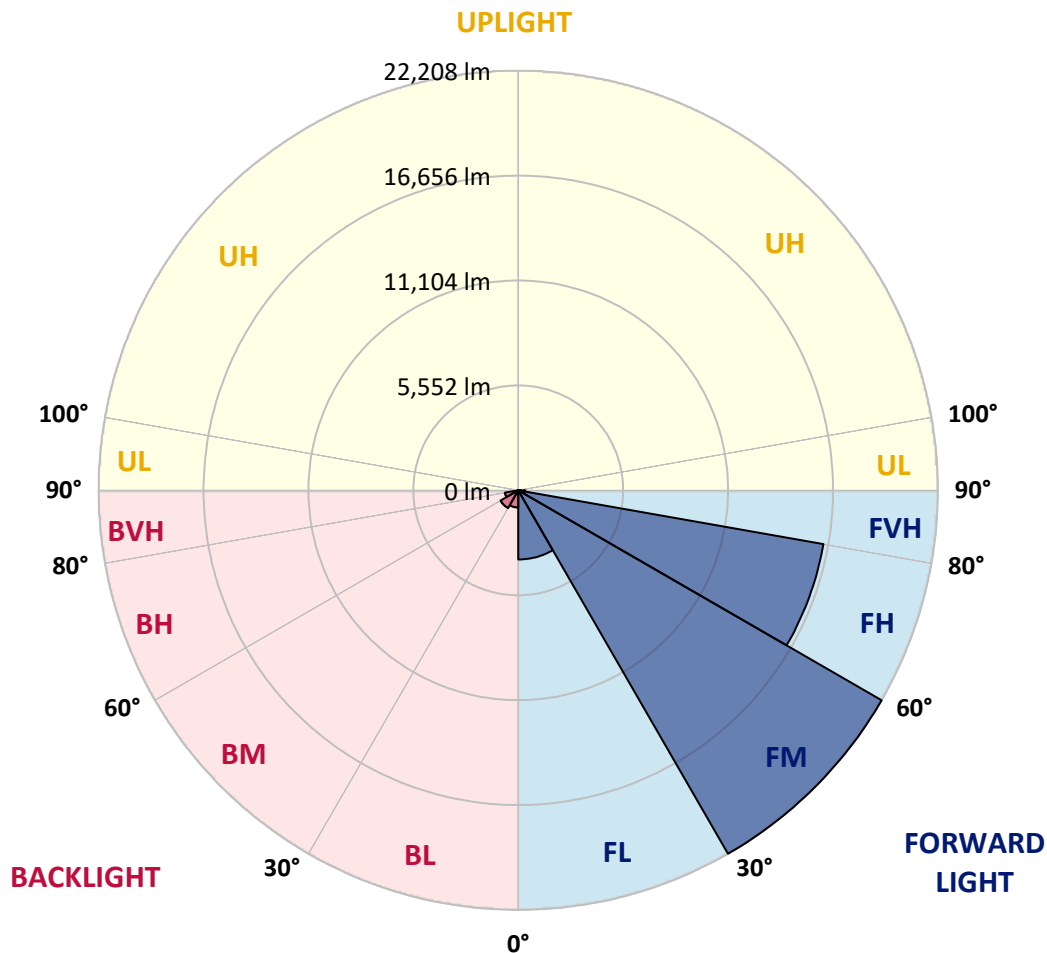


REPORT NUMBER: P321894  
 CATALOG NUMBER: GAN-SAOC-730-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3659.8	8.1			
FM (30°-60°)	22208.5	49.0			
FH (60°-80°)	16401.9	36.2			G5
FVH (80°-90°)	365.1	0.8			G3/500
BL (0°-30°)	909.9	2.0	B2/1000		
BM (30°-60°)	1084.8	2.4	B2/2500		
BH (60°-80°)	717.0	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type II Medium





REPORT NUMBER: P321894  
 CATALOG NUMBER: GAN-SAOC-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7
2.5°	6075.1	6049.2	6038.5	5991.1	5909.2	5846.7	5726.1	5586.1	5560.2	5424.5	5258.6
5°	6863.5	6842.0	6826.9	6760.1	6676.1	6518.9	6299.1	6038.5	5988.9	5730.4	5398.6
7.5°	7412.9	7451.7	7451.7	7408.6	7303.0	7184.5	6915.2	6559.8	6497.3	6100.9	5586.1
10°	7733.9	7781.3	7817.9	7854.5	7839.4	7792.0	7537.8	7137.1	7061.7	6536.1	5803.6
12.5°	7764.0	7811.4	7914.8	8067.8	8216.4	8324.1	8164.7	7777.0	7690.8	7040.2	6062.1
15°	7596.0	7645.5	7805.0	8102.3	8462.0	8776.5	8828.2	8485.7	8397.4	7641.2	6385.3
17.5°	7303.0	7335.3	7563.7	7975.2	8539.6	9116.9	9429.3	9246.2	9164.3	8328.5	6745.1
20°	7085.4	7109.1	7309.5	7751.1	8492.2	9330.2	9998.0	10054.0	9967.9	9065.2	7135.0
22.5°	7458.1	7501.2	7507.7	7716.6	8362.9	9435.8	10497.8	10849.0	10784.3	9847.2	7518.4
25°	8477.1	8526.6	8362.9	8233.7	8472.8	9483.1	10926.5	11663.3	11611.6	10689.5	7904.1
27.5°	9823.5	9875.2	9664.1	9278.5	9048.0	9662.0	11307.8	12490.5	12488.4	11581.4	8319.8
30°	11146.3	11198.0	10982.5	10596.9	10067.0	10168.2	11637.4	13356.5	13369.5	12501.3	8761.5
32.5°	12533.6	12598.2	12376.3	11880.9	11327.2	11042.8	12100.6	14226.9	14300.1	13567.7	9259.1
35°	14110.5	14119.2	13806.8	13287.6	12649.9	12212.6	12843.8	15202.8	15377.3	14888.2	9890.3
37.5°	15657.3	15719.8	15463.4	14644.8	14058.8	13563.4	13949.0	16422.1	16669.8	16501.8	10715.4
40°	16803.4	16934.8	16898.2	16014.9	15459.1	15105.8	15321.2	17871.9	18186.4	18380.3	11755.9
42.5°	17522.9	17622.0	17790.1	17257.9	16753.8	16812.0	16941.3	19560.9	19948.6	20521.7	12951.5
45°	18348.0	18395.4	18535.4	18300.6	17960.2	18546.2	18660.4	21463.1	21870.3	22824.6	14278.6
47.5°	19356.2	19468.2	19507.0	19291.6	19136.5	20080.1	20317.0	23193.0	23763.9	25291.3	15683.2
50°	20640.2	20670.3	20737.1	20597.1	20442.0	21398.5	21803.5	25009.1	25528.2	27766.5	17068.4
52.5°	21896.1	22003.8	22236.5	22148.2	22085.7	22520.9	23128.4	26646.3	27225.8	29830.3	18451.4
55°	22258.0	22350.7	23154.2	23703.6	24212.0	23903.9	24395.1	28113.4	28740.3	31674.4	19782.8
57.5°	20812.5	20999.9	22391.6	23822.0	25931.1	26053.9	26135.7	29619.2	30181.5	33087.6	21168.0
60°	17158.9	17195.5	19479.0	21932.7	25646.7	27930.3	28677.8	31237.1	31708.9	34403.9	22826.8
62.5°	10913.6	11286.3	13791.7	17255.8	22639.3	27658.8	31752.0	33684.3	33856.7	35983.0	25205.1
65°	5198.3	5439.6	7244.8	10661.5	16398.4	24184.0	33873.9	38111.4	38188.9	39113.1	28382.7
67.5°	2878.1	2994.5	3854.0	5739.0	9586.6	17102.8	33016.5	43354.9	43428.2	42310.1	31170.3
69°	2251.2	2350.3	3026.8	4325.8	6499.5	12292.3	29877.7	44890.9	45108.5	43225.7	31269.4
70°	1910.8	2007.8	2606.7	3653.7	5226.3	9498.2	26594.6	44509.6	44740.1	43139.5	30530.5
72.5°	1169.8	1225.8	1736.4	2572.2	3502.9	4778.2	16400.5	37641.8	38031.7	39572.0	26239.1
75°	788.5	818.6	1085.8	1775.1	2505.4	2460.2	8520.2	26532.1	27376.6	30782.5	19379.9
77.5°	564.4	592.4	728.1	1148.2	1755.7	1624.3	3858.3	16488.9	16669.8	18462.2	10568.9
80°	321.0	346.8	514.9	682.9	1191.3	1083.6	1533.8	7876.1	7966.5	7917.0	3528.7
82.5°	168.0	189.6	282.2	450.2	764.8	708.8	637.7	2636.8	2649.8	2203.8	773.4
85°	32.3	38.8	140.0	308.1	394.2	308.1	260.7	618.3	631.2	558.0	191.7
87.5°	0.0	2.2	56.0	68.9	77.6	79.7	84.0	120.6	129.3	174.5	51.7
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: P321894  
 CATALOG NUMBER: GAN-SAOC-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7	5161.7
2.5°	5185.4	5107.8	4959.2	4786.8	4653.2	4521.8	4418.4	4310.7	4271.9	4252.6	4250.4
5°	5237.1	5073.3	4758.8	4435.7	4170.7	3920.8	3742.0	3571.8	3492.1	3455.5	3440.4
7.5°	5323.2	5060.4	4554.2	4060.8	3679.5	3367.1	3119.4	2934.1	2841.5	2802.7	2787.6
10°	5424.5	5043.2	4315.0	3664.4	3177.6	2854.4	2608.8	2425.7	2324.5	2281.4	2259.8
12.5°	5543.0	5013.0	4039.3	3263.7	2748.9	2425.7	2128.4	1902.2	1785.9	1736.4	1712.7
15°	5689.5	4982.9	3750.6	2886.7	2371.9	1977.6	1652.3	1499.4	1475.7	1467.1	1469.2
17.5°	5833.8	4935.5	3436.1	2514.0	1975.5	1544.6	1378.7	1370.1	1374.4	1374.4	1374.4
20°	5963.1	4827.7	3093.5	2195.2	1598.5	1303.3	1268.9	1253.8	1243.0	1234.4	1223.6
22.5°	6064.3	4683.4	2763.9	1878.5	1305.5	1193.5	1139.6	1092.2	1053.4	1027.6	1014.7
25°	6133.2	4491.7	2462.3	1574.8	1174.1	1085.8	988.8	909.1	848.8	812.2	797.1
27.5°	6184.9	4284.9	2193.1	1318.4	1083.6	960.8	833.7	738.9	676.4	644.1	631.2
30°	6221.6	4050.0	1956.1	1159.0	982.4	829.4	693.7	601.0	555.8	538.6	530.0
32.5°	6256.0	3789.4	1732.0	1083.6	887.6	708.8	581.7	510.6	482.6	461.0	454.6
35°	6342.2	3548.1	1518.8	1003.9	790.6	605.4	499.8	448.1	420.1	407.2	402.9
37.5°	6546.9	3369.3	1314.1	922.0	693.7	523.5	437.3	400.7	374.8	361.9	357.6
40°	6876.5	3278.8	1141.8	833.7	598.9	461.0	396.4	361.9	333.9	314.5	310.2
42.5°	7361.2	3291.7	1021.1	745.4	523.5	411.5	357.6	316.7	286.5	269.3	265.0
45°	7949.3	3386.5	937.1	659.2	461.0	372.7	314.5	271.4	243.4	228.4	224.0
47.5°	8587.0	3539.5	868.2	581.7	411.5	336.1	271.4	226.2	202.5	189.6	187.4
50°	9259.1	3688.1	797.1	506.3	368.4	299.4	228.4	187.4	168.0	157.3	153.0
52.5°	9939.9	3860.5	732.5	437.3	331.8	256.4	189.6	153.0	137.9	129.3	124.9
55°	10672.3	3989.7	670.0	383.5	295.1	217.6	157.3	127.1	114.2	103.4	101.3
57.5°	11534.0	4190.1	605.4	331.8	252.1	181.0	129.3	101.3	90.5	79.7	77.6
60°	12697.3	4424.9	536.4	293.0	206.8	148.6	105.6	81.9	68.9	60.3	58.2
62.5°	14231.2	4685.6	450.2	256.4	168.0	120.6	84.0	64.6	49.5	38.8	38.8
65°	16176.5	5110.0	368.4	215.4	137.9	99.1	64.6	47.4	28.0	17.2	17.2
67.5°	17311.8	5183.2	297.3	176.7	112.0	84.0	53.9	32.3	8.6	2.2	0.0
69°	16947.7	4758.8	252.1	150.8	96.9	79.7	49.5	23.7	4.3	0.0	0.0
70°	16262.7	4351.6	221.9	133.6	88.3	75.4	47.4	17.2	4.3	0.0	0.0
72.5°	13438.4	3097.9	168.0	99.1	64.6	66.8	43.1	10.8	4.3	0.0	0.0
75°	9789.1	1882.8	120.6	68.9	40.9	49.5	30.2	4.3	2.2	0.0	0.0
77.5°	5446.0	887.6	75.4	38.8	25.9	30.2	15.1	0.0	0.0	0.0	0.0
80°	1768.7	241.3	34.5	21.5	15.1	17.2	6.5	0.0	0.0	0.0	0.0
82.5°	327.5	68.9	19.4	10.8	4.3	4.3	0.0	0.0	0.0	0.0	0.0
85°	71.1	28.0	10.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	8.6	2.2	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)