

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: P319957

Luminaire Tested: **GAN-SA3B-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15096 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

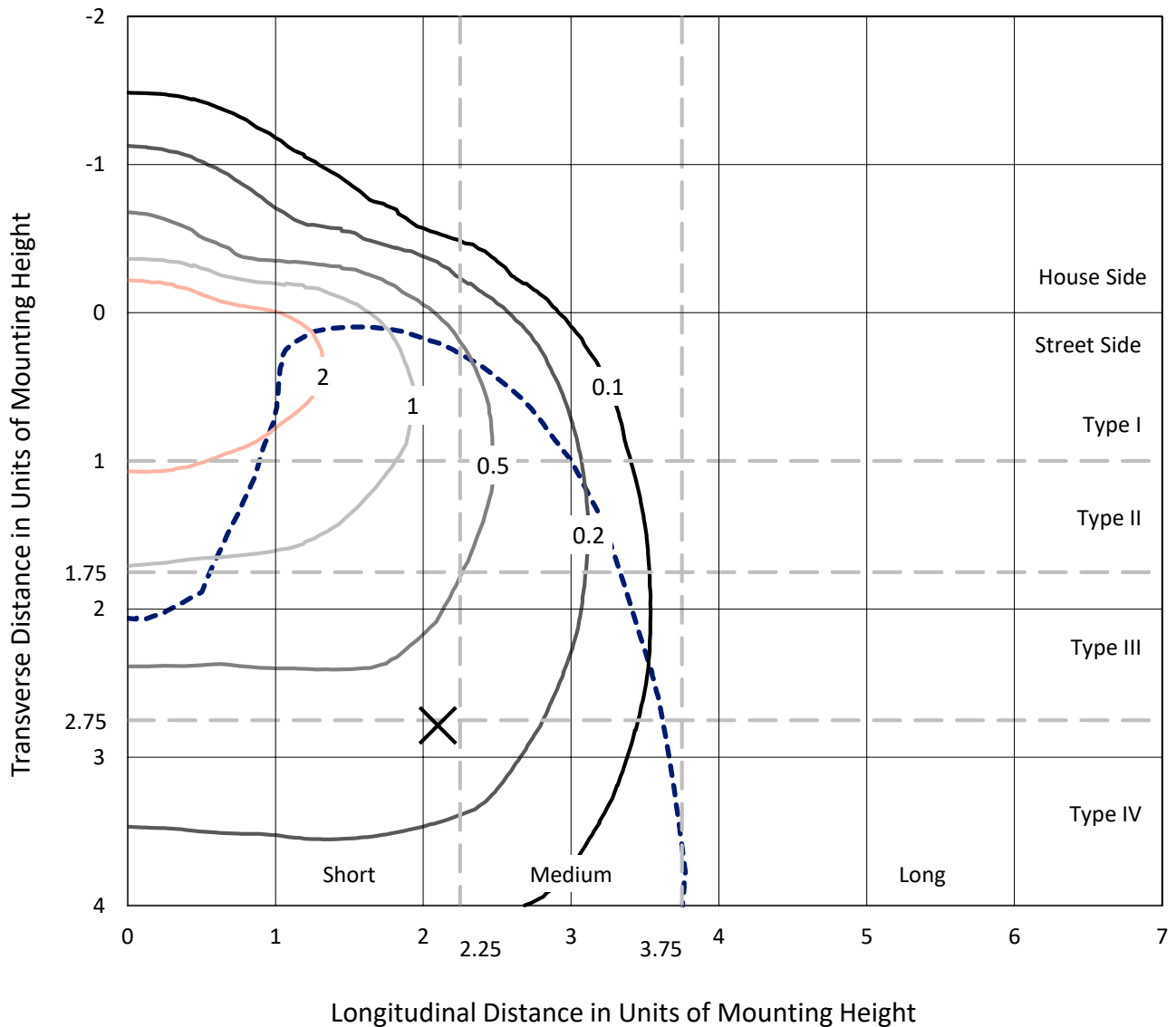
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P319957  
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### Iso-Footcandle Lines of Horizontal Illumination

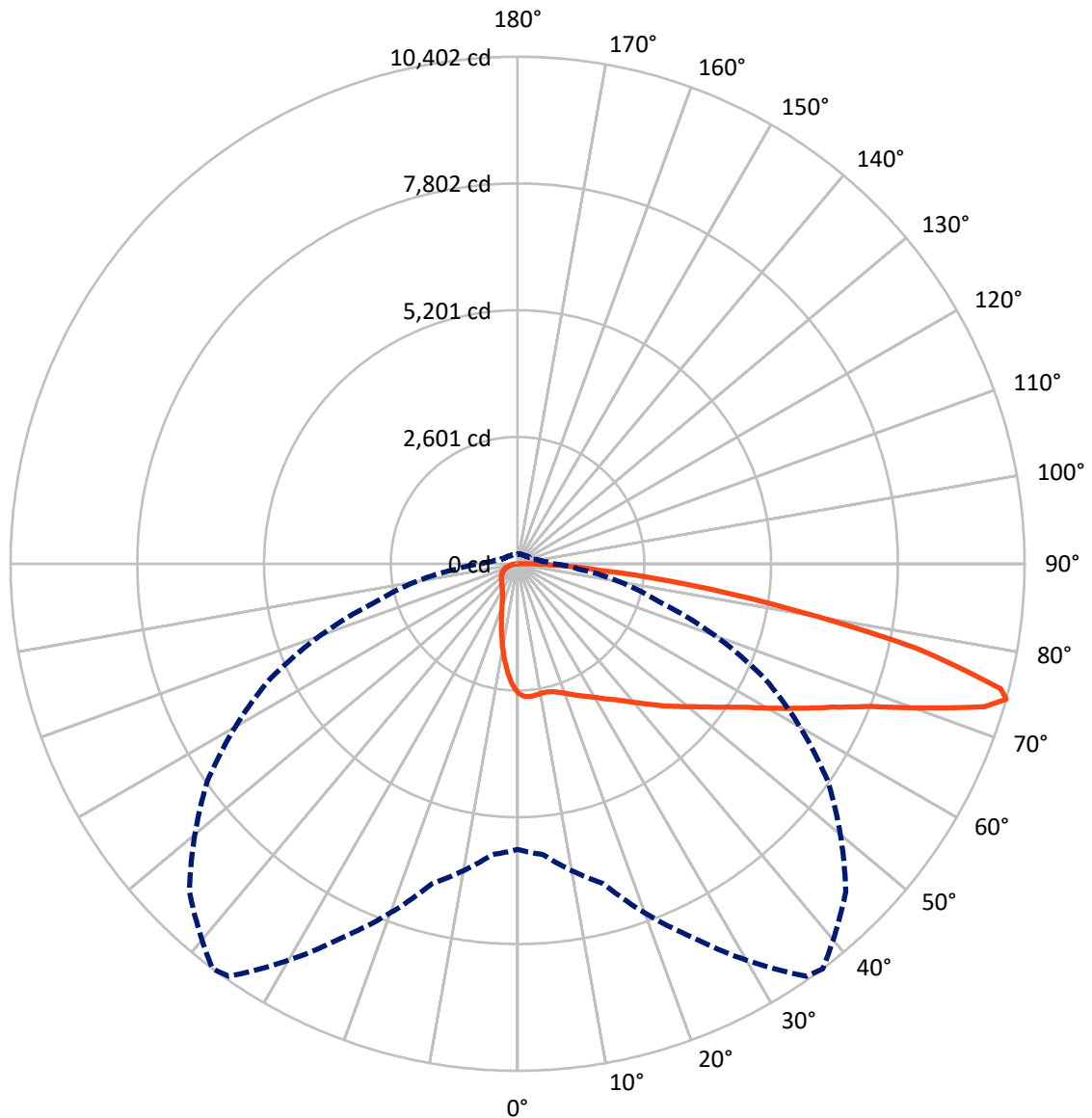
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P319957  
CATALOG NUMBER: GAN-SA3B-730-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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 CATALOG NUMBER: GAN-SA3B-730-U-SL4

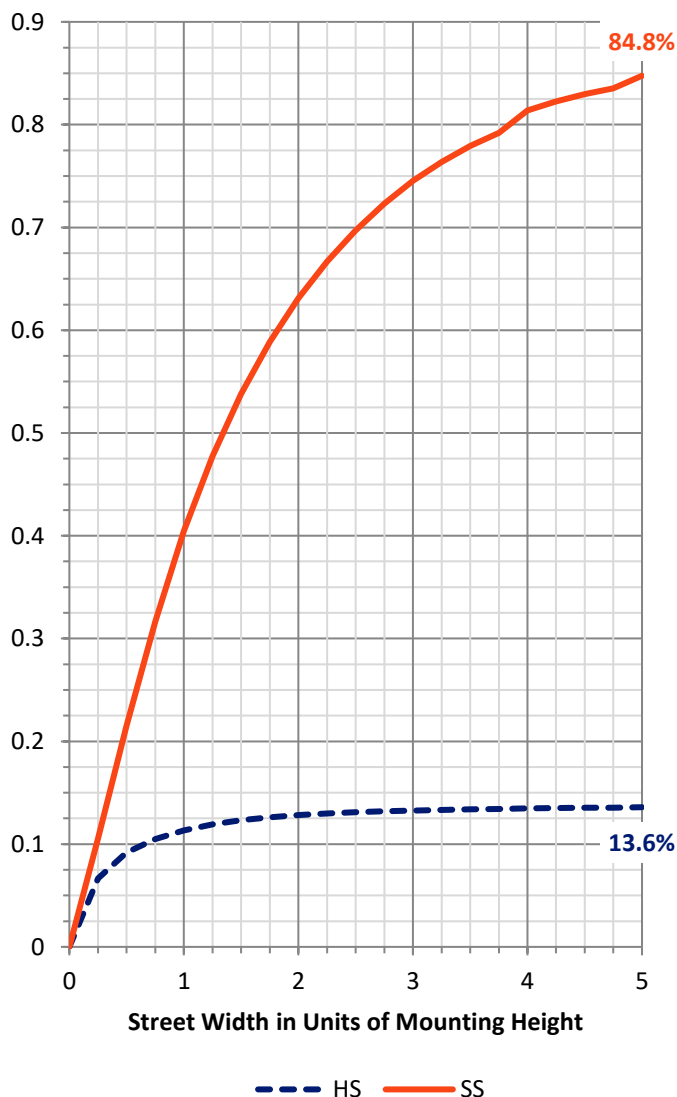
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2077.1	0.0	2077.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	13018.9	0.0	13018.9
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	15096.0	0.0	15096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.2	1.6
10°-20°	600.4	4.0
20°-30°	925.1	6.1
30°-40°	1345.2	8.9
40°-50°	1979.9	13.1
50°-60°	2780.4	18.4
60°-70°	3519.2	23.3
70°-80°	3098.8	20.5
80°-90°	612.7	4.1
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°	15096.0	100.0
0°-180°	15096.0	100.0

**Coefficient of Utilization**



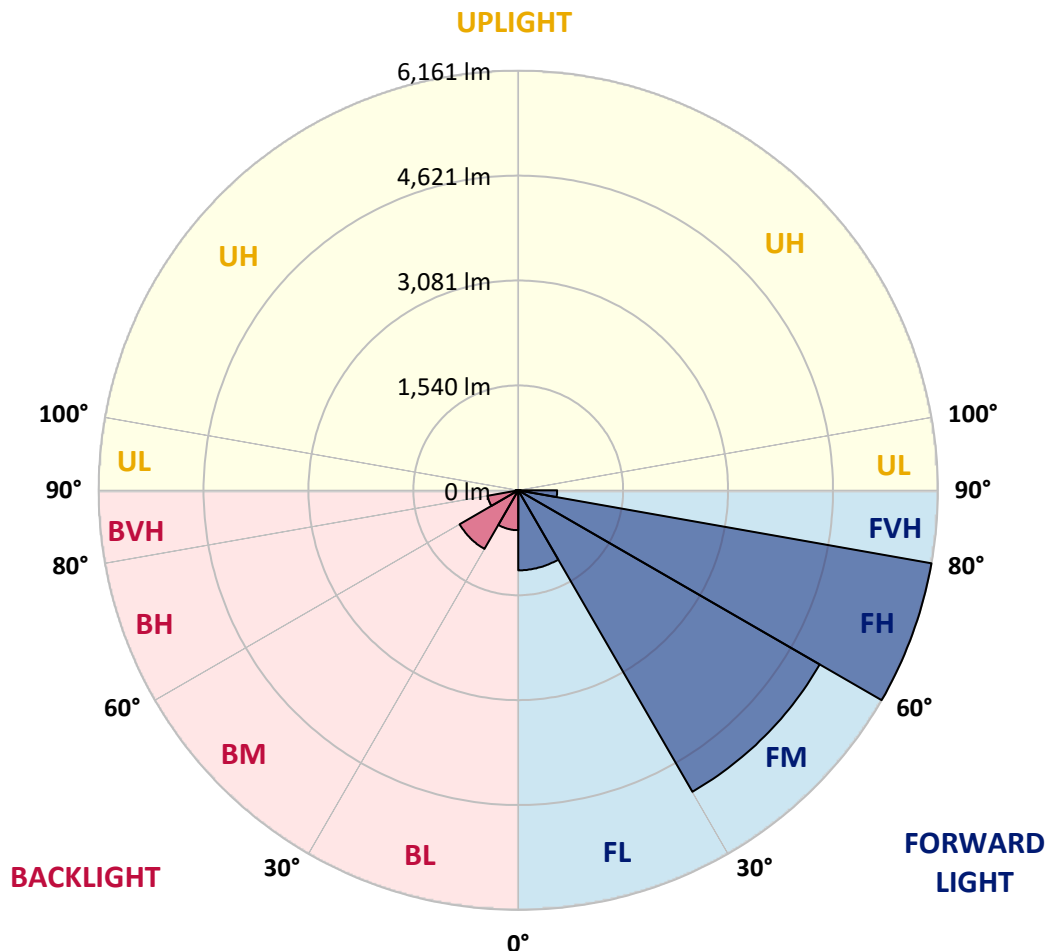
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 CATALOG NUMBER: GAN-SA3B-730-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.6	7.8			
FM (30°-60°)	5111.6	33.9			
FH (60°-80°)	6161.4	40.8			G3/7500
FVH (80°-90°)	571.2	3.8			G4/750
BL (0°-30°)	585.1	3.9	B2/1000		
BM (30°-60°)	994.0	6.6	B1/1000		
BH (60°-80°)	456.6	3.0	B1/500		G1/500
BVH (80°-90°)	41.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9
2.5°	2750.8	2751.3	2750.8	2746.5	2736.4	2727.9	2721.0	2710.9	2688.6	2671.6	2646.0
5°	2776.8	2773.7	2771.5	2763.5	2747.6	2738.0	2724.7	2705.6	2668.9	2634.9	2593.4
7.5°	2764.6	2760.9	2756.1	2746.5	2728.5	2720.5	2701.9	2676.9	2632.7	2588.1	2528.5
10°	2726.9	2725.8	2723.7	2721.5	2706.1	2699.7	2682.7	2656.1	2612.5	2558.3	2488.6
12.5°	2684.8	2687.5	2696.0	2707.2	2700.3	2697.1	2686.4	2668.4	2623.7	2565.2	2481.2
15°	2658.3	2665.7	2688.6	2717.8	2723.7	2722.6	2719.9	2708.2	2660.9	2596.0	2498.2
17.5°	2649.2	2661.5	2705.1	2753.4	2770.5	2774.2	2775.2	2755.0	2702.4	2633.8	2515.8
20°	2665.7	2681.1	2744.9	2811.4	2838.5	2840.7	2835.9	2800.8	2741.7	2666.2	2525.3
22.5°	2715.7	2729.5	2809.3	2884.3	2915.1	2918.3	2903.9	2850.8	2783.2	2704.5	2538.6
25°	2811.9	2829.0	2908.7	2983.7	2999.7	3000.2	2979.4	2913.5	2837.5	2758.2	2567.3
27.5°	2937.4	2954.5	3026.2	3099.6	3091.1	3086.3	3058.1	2992.2	2908.2	2832.1	2618.4
30°	3077.3	3095.9	3164.0	3216.1	3195.9	3186.3	3163.4	3078.4	3006.6	2933.2	2696.5
32.5°	3221.9	3238.9	3298.5	3334.1	3308.6	3304.3	3269.8	3192.1	3134.7	3087.4	2823.1
35°	3370.3	3382.5	3441.0	3461.2	3427.2	3426.1	3416.5	3345.3	3309.1	3331.5	3007.1
37.5°	3521.8	3525.0	3575.0	3576.1	3566.0	3570.2	3580.3	3535.7	3545.8	3615.4	3246.4
40°	3656.9	3665.4	3701.6	3712.7	3730.3	3745.2	3795.7	3766.4	3844.6	3968.0	3544.2
42.5°	3756.9	3773.4	3831.3	3860.0	3916.9	3940.3	4011.6	4038.7	4196.1	4381.2	3898.3
45°	3841.4	3866.9	3960.0	4019.0	4115.3	4156.2	4258.3	4349.3	4593.3	4829.4	4271.1
47.5°	3932.9	3965.3	4081.8	4194.5	4325.3	4371.6	4557.2	4693.3	5017.1	5280.4	4622.6
50°	4067.4	4092.4	4206.2	4383.3	4546.5	4606.1	4862.9	5058.1	5447.9	5710.0	4927.3
52.5°	4255.1	4245.6	4341.8	4590.1	4809.2	4882.6	5189.4	5446.3	5884.4	6098.7	5184.6
55°	4443.9	4428.0	4495.5	4806.6	5115.5	5192.6	5548.9	5836.1	6299.7	6448.6	5381.9
57.5°	4654.0	4623.6	4680.5	5050.6	5464.4	5556.3	5951.4	6250.3	6708.1	6731.5	5507.4
60°	4870.4	4829.4	4893.2	5353.2	5907.3	6015.8	6422.6	6654.4	7093.1	6958.1	5547.8
62.5°	5059.7	5031.0	5129.3	5690.9	6406.6	6525.7	6885.2	7084.1	7472.8	7052.2	5402.1
65°	5225.1	5229.8	5400.0	6070.6	6963.4	7090.5	7415.9	7613.7	7771.7	6996.3	5061.3
67.5°	5422.3	5449.5	5739.8	6570.4	7664.2	7803.6	8188.0	8191.2	7938.6	6668.8	4390.2
70°	5710.0	5765.9	6207.2	7263.8	8660.8	8852.2	9148.9	8530.5	7704.1	5780.7	3454.3
72.5°	5965.3	6069.5	6704.4	8057.2	9875.3	10020.5	9711.0	8334.8	6724.1	4332.2	2152.0
74°	5861.6	5990.8	6794.8	8448.0	10332.6	10402.3	9521.1	7763.7	5606.3	3000.2	1250.7
75°	5638.2	5778.6	6662.9	8444.3	10274.6	10235.8	9062.8	7111.2	4617.3	2046.2	832.2
77.5°	4550.3	4698.6	5614.3	7237.2	8424.7	8388.0	6961.8	4770.4	2022.3	671.1	422.7
80°	2645.5	2758.8	3485.1	4596.0	5680.8	5747.2	4578.4	2360.5	795.5	377.0	286.6
82.5°	1175.2	1253.4	1683.5	2346.1	3428.2	3513.9	2397.7	1236.9	491.3	229.2	172.3
85°	771.1	829.0	1022.0	1117.2	1632.5	1691.0	1173.6	963.0	324.4	126.0	126.6
87.5°	554.6	610.5	759.4	663.1	749.2	709.4	638.6	891.2	130.3	71.8	42.5
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-SA3B-730-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9
2.5°	2634.9	2626.4	2607.2	2571.1	2550.8	2533.8	2505.6	2489.2	2481.7	2481.2	2484.4
5°	2569.5	2549.8	2500.3	2439.7	2391.3	2347.2	2292.4	2259.4	2236.0	2222.2	2225.9
7.5°	2493.4	2462.6	2384.9	2288.2	2210.5	2124.9	2040.4	1989.8	1950.5	1921.2	1926.6
10°	2441.3	2398.8	2285.5	2146.2	2017.0	1892.5	1776.1	1706.4	1651.1	1608.6	1611.8
12.5°	2423.8	2366.3	2209.5	2023.3	1842.0	1671.8	1519.8	1412.9	1356.0	1307.6	1311.3
15°	2426.4	2349.3	2145.6	1912.7	1684.6	1470.3	1285.8	1160.8	1083.7	1050.2	1050.8
17.5°	2428.5	2329.6	2078.6	1794.2	1528.8	1282.1	1081.6	955.0	882.2	851.3	851.9
20°	2421.6	2297.7	1995.7	1658.0	1366.1	1109.2	915.2	807.7	752.4	728.5	728.5
22.5°	2412.6	2260.0	1902.1	1521.4	1205.5	959.3	796.0	714.2	682.2	666.3	665.8
25°	2416.8	2231.8	1806.4	1381.0	1057.7	839.6	716.8	662.6	641.3	631.2	630.7
27.5°	2439.7	2218.5	1718.1	1241.1	928.5	749.8	663.6	625.3	611.5	605.1	605.1
30°	2481.2	2218.5	1626.1	1122.0	821.0	683.3	622.7	596.6	587.1	582.8	582.8
32.5°	2553.5	2230.7	1537.3	1004.0	735.4	631.2	588.7	571.1	563.7	561.5	561.5
35°	2677.9	2272.2	1450.6	892.3	666.3	588.7	556.2	546.1	540.8	540.3	541.9
37.5°	2852.9	2356.8	1369.3	809.9	617.4	554.1	529.1	521.1	517.9	520.6	522.7
40°	3073.0	2471.6	1295.4	735.4	580.1	526.4	504.1	498.8	497.2	500.9	504.1
42.5°	3338.9	2626.9	1234.7	681.7	551.4	503.0	482.8	476.5	474.9	479.1	483.4
45°	3626.6	2793.9	1192.2	641.8	529.1	485.5	464.2	457.3	454.1	456.2	461.0
47.5°	3888.2	2951.8	1175.2	613.6	507.8	470.6	447.7	439.2	433.9	432.9	436.6
50°	4108.9	3069.3	1183.2	596.6	490.8	454.1	431.8	422.2	414.2	409.5	412.1
52.5°	4269.5	3143.2	1190.6	589.2	477.5	436.0	414.2	405.2	394.6	386.6	386.6
55°	4385.9	3160.2	1174.1	583.3	467.4	416.4	394.6	386.1	375.4	366.4	365.3
57.5°	4431.7	3112.4	1113.0	574.8	460.5	397.8	373.8	367.4	358.4	347.8	347.2
60°	4370.0	2964.6	994.9	556.8	451.5	382.3	353.1	348.8	344.6	334.5	333.9
62.5°	4122.2	2640.2	842.3	520.1	433.4	365.8	333.9	336.1	336.6	329.7	328.6
65°	3672.9	2194.6	693.4	472.2	406.3	346.2	314.3	324.4	330.2	329.2	327.6
67.5°	3019.9	1708.0	587.6	421.7	370.6	319.1	293.0	304.7	309.5	313.2	312.1
70°	2241.4	1204.4	486.0	368.5	327.6	287.1	265.3	271.2	268.0	272.3	273.9
72.5°	1249.6	722.7	396.2	315.3	282.9	249.9	234.5	233.4	226.5	226.5	226.5
74°	749.8	530.2	348.3	282.4	255.8	225.5	212.2	207.4	201.0	201.5	201.0
75°	603.0	455.7	319.6	260.6	236.6	211.1	197.8	191.4	186.6	186.6	186.1
77.5°	380.7	346.2	257.4	207.4	189.3	173.9	164.8	156.3	156.3	155.8	155.3
80°	287.7	275.5	200.5	156.9	145.2	133.5	127.6	123.9	123.9	125.5	125.0
82.5°	197.3	207.4	140.9	109.5	103.7	95.2	94.1	94.7	93.1	90.9	90.4
85°	144.1	155.8	95.2	69.1	63.3	58.0	62.2	64.3	61.7	56.9	54.8
87.5°	55.3	102.1	51.0	28.7	26.6	22.9	26.6	27.7	29.8	23.4	23.9
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)