

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: P482735

Luminaire Tested: **IFLD-S-SA6B-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482735  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

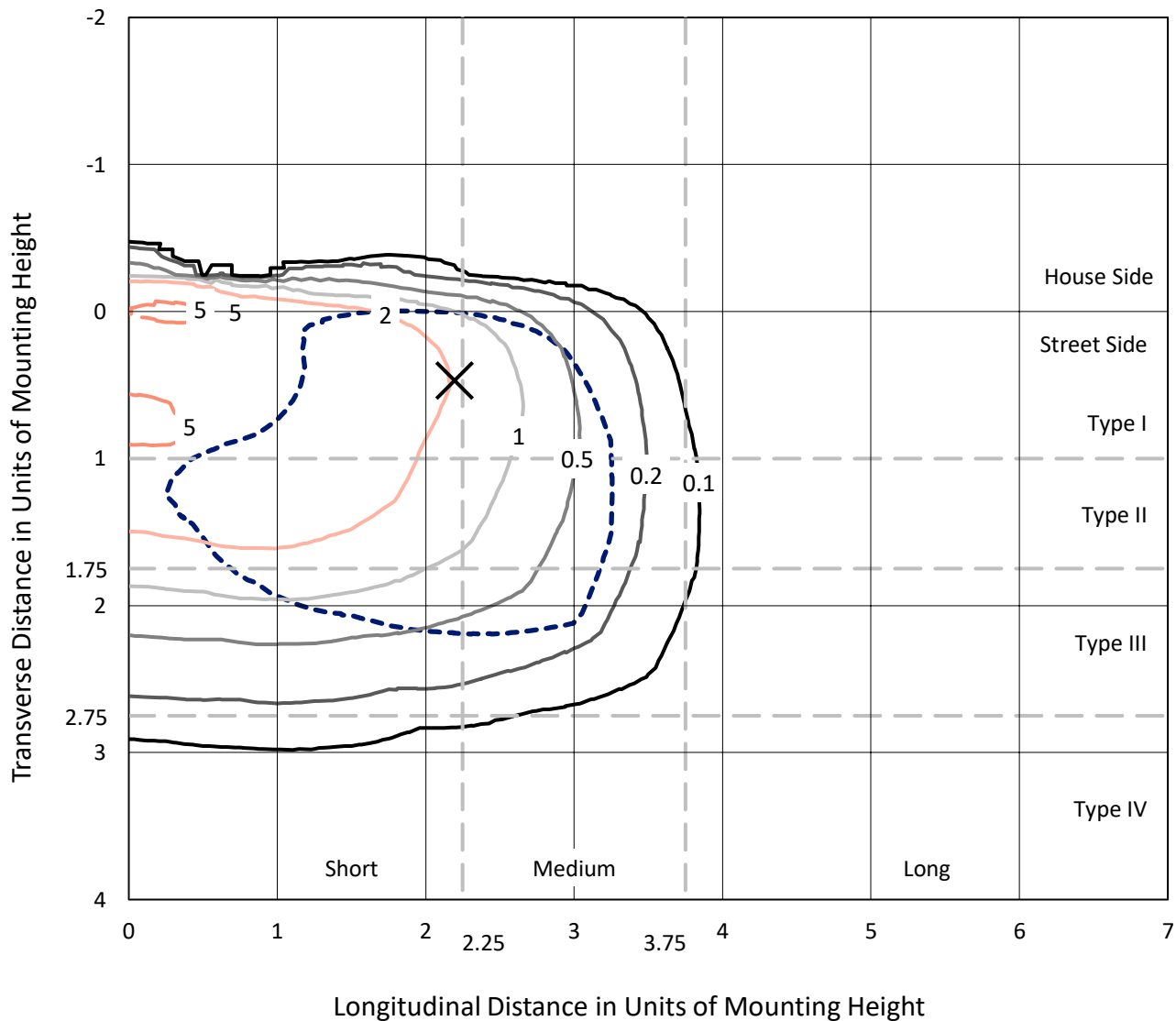
Lumens per Lamp: N/A  
Luminaire Lumens: 20010.3 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9  
Input Voltage (V): 120  
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

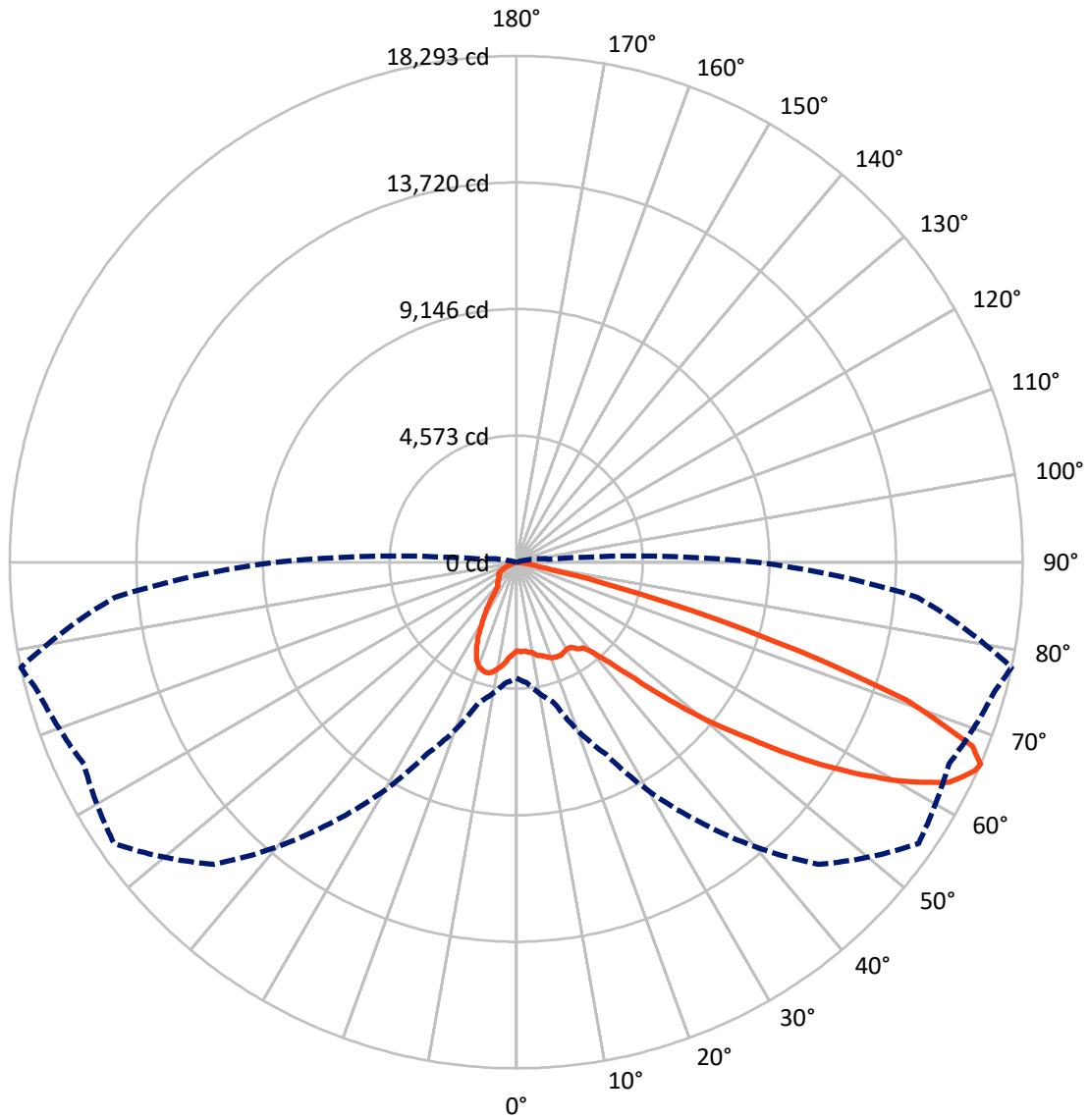
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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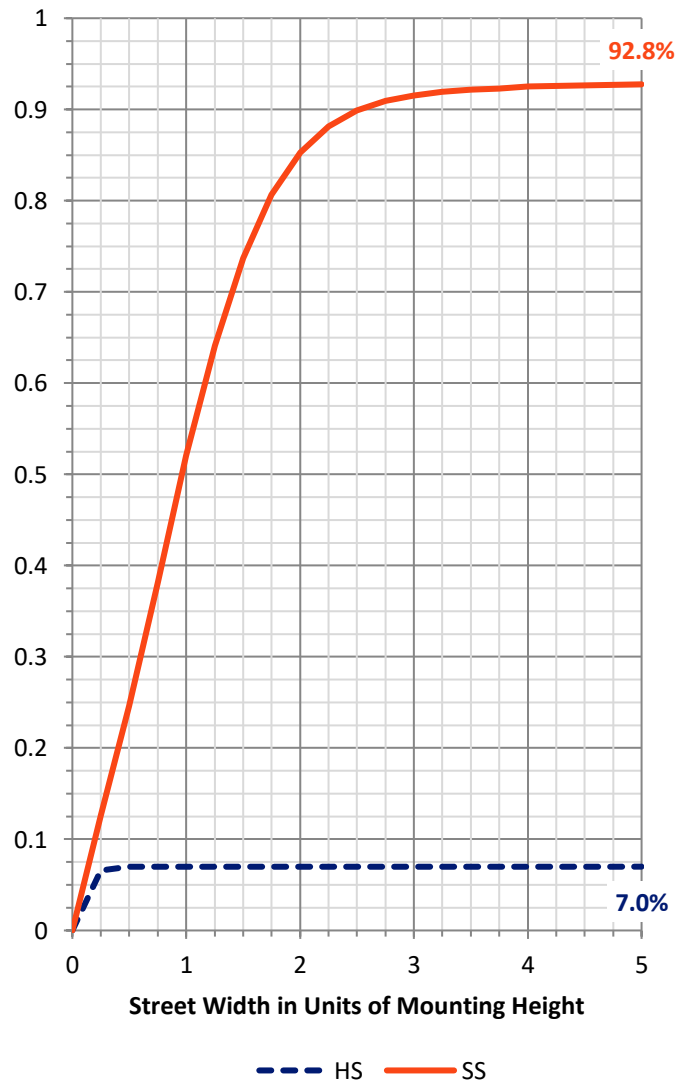
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1406.8	0.0	1406.8
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	18603.5	0.0	18603.5
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	20010.3	0.0	20010.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.2	1.5
10°-20°	661.9	3.3
20°-30°	946.0	4.7
30°-40°	1619.4	8.1
40°-50°	2922.8	14.6
50°-60°	4998.3	25.0
60°-70°	6152.1	30.7
70°-80°	2325.8	11.6
80°-90°	90.9	0.5
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°	20010.3	100.0
0°-180°	20010.3	100.0

**Coefficient of Utilization**

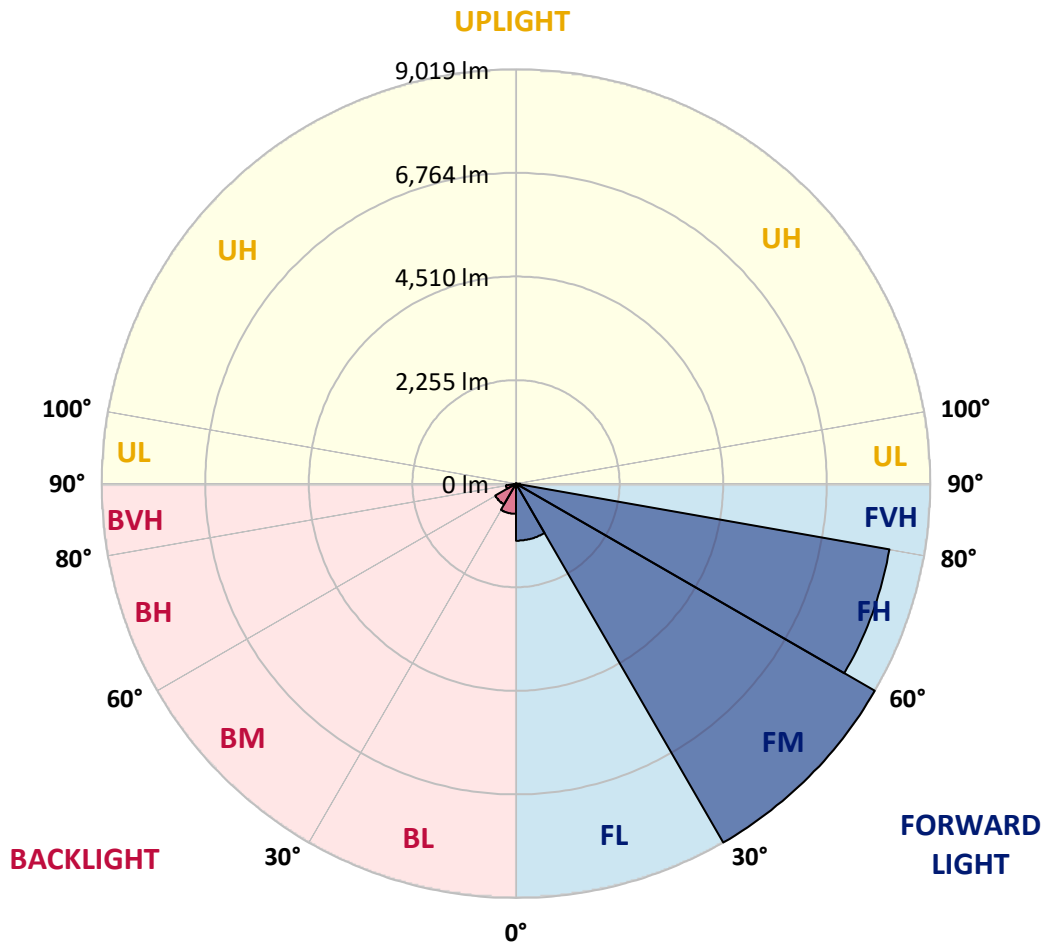


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.3	6.2			
FM (30°-60°)	9019.1	45.1			
FH (60°-80°)	8255.0	41.3			G4/12000
FVH (80°-90°)	87.2	0.4			G1/100
BL (0°-30°)	658.9	3.3	B2/1000		
BM (30°-60°)	521.4	2.6	B1/1000		
BH (60°-80°)	222.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0
2.5°	2948.0	2920.8	2948.0	2987.3	3008.5	3026.6	3090.1	3144.5	3202.0	3241.3	3229.2
5°	2733.3	2784.7	2790.8	2802.9	2836.1	2945.0	2981.3	3075.0	3217.1	3229.2	3283.6
7.5°	2564.0	2548.9	2588.2	2666.8	2751.5	2815.0	2920.8	3084.1	3232.2	3283.6	3389.4
10°	2319.1	2349.3	2391.7	2470.3	2573.1	2730.3	2917.8	3099.2	3310.8	3329.0	3525.5
12.5°	2186.1	2155.8	2222.3	2304.0	2479.3	2624.5	2854.3	3072.0	3359.2	3459.0	3685.8
15°	2077.2	2092.3	2155.8	2210.2	2355.4	2539.8	2808.9	3138.5	3440.8	3510.4	3855.1
17.5°	2031.9	2022.8	2071.2	2125.6	2304.0	2512.6	2790.8	3141.5	3513.4	3604.1	3970.0
20°	2053.0	2071.2	2056.0	2107.4	2219.3	2431.0	2818.0	3199.0	3567.8	3691.8	4093.9
22.5°	2385.6	2361.4	2240.5	2143.7	2149.8	2397.7	2796.8	3235.2	3616.2	3716.0	4178.6
25°	3253.4	3123.4	2824.0	2452.1	2207.2	2307.0	2772.6	3223.1	3607.1	3731.1	4230.0
27.5°	4127.2	4015.3	3722.0	3144.5	2440.0	2270.7	2688.0	3232.2	3561.8	3676.7	4145.3
30°	5049.4	5109.9	4674.5	3988.1	3050.8	2470.3	2633.5	3183.8	3531.5	3628.3	4163.5
32.5°	5995.8	5971.6	5708.5	4964.7	3924.6	2911.7	2721.2	3232.2	3570.9	3664.6	4269.3
35°	6736.6	6651.9	6385.8	5714.6	4647.3	3576.9	3023.6	3462.0	3743.2	3855.1	4420.5
37.5°	7102.4	7138.7	6984.5	6400.9	5439.4	4193.7	3401.5	3462.0	3797.6	3927.6	4665.4
40°	7386.6	7495.5	7438.0	7250.6	6225.6	4889.1	3818.8	3676.7	4072.8	4317.7	5125.0
42.5°	7728.3	7676.9	8015.5	7843.2	7253.6	5766.0	4550.5	4187.7	4722.8	4958.7	5814.4
45°	7909.7	8106.2	8363.2	8584.0	8206.0	6860.5	5506.0	5091.7	5717.6	6016.9	6839.4
47.5°	8375.3	8454.0	8871.2	9149.4	8980.1	8112.3	6957.3	6413.0	6969.4	7441.0	8012.5
50°	8647.5	8541.6	9125.2	9548.5	9645.2	9149.4	8257.4	7834.1	8457.0	9058.7	9110.1
52.5°	8408.6	8711.0	9294.5	10053.4	10322.5	10074.6	9784.3	9599.9	10038.3	10594.6	10346.7
55°	7571.1	7776.7	9197.8	10606.7	11474.5	11359.6	11628.7	11507.8	11949.2	12538.8	11792.0
57.5°	6896.8	7153.8	8402.5	10894.0	12547.9	12886.5	13225.2	13149.6	13681.7	14362.0	13016.5
60°	6476.5	6624.7	7828.1	10821.4	13182.8	14464.8	15229.8	14697.7	15565.4	16085.5	13975.0
62.5°	5747.8	5841.6	6990.5	9859.9	13373.3	15580.5	16877.7	16155.0	16907.9	17542.9	14664.4
65°	4607.9	4861.9	5811.3	8420.7	12115.5	15786.1	17905.7	17056.1	17784.7	18202.0	14873.0
66°	4193.7	4378.2	5248.9	7658.7	11398.9	15444.5	17733.3	17243.5	17911.7	18292.7	14552.5
67.5°	3480.1	3640.4	4332.8	6573.3	9932.5	14691.6	17854.3	17116.5	18008.5	17775.7	14123.2
70°	2304.0	2406.8	2963.1	4444.7	6918.0	12018.8	16560.2	16124.8	15831.5	14957.7	11042.1
72.5°	1076.4	1224.6	1850.4	2694.0	4057.7	8408.6	13503.3	12919.8	11102.6	9705.7	6966.3
75°	486.8	553.3	1015.9	1545.1	1820.2	4357.0	8711.0	7867.4	5527.1	4589.8	3050.8
77.5°	263.1	299.3	495.9	734.7	662.2	1526.9	4311.6	3586.0	1741.6	1276.0	885.9
80°	202.6	238.9	414.2	420.3	244.9	396.1	1602.5	1109.7	435.4	329.6	211.7
82.5°	105.8	151.2	326.5	272.1	124.0	160.3	495.9	308.4	136.1	108.8	90.7
85°	42.3	66.5	184.4	181.4	72.6	54.4	139.1	93.7	54.4	45.4	42.3
87.5°	3.0	3.0	99.8	69.5	45.4	15.1	21.2	21.2	27.2	24.2	30.2
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0
2.5°	3283.6	3319.9	3325.9	3425.7	3446.9	3425.7	3480.1	3471.1	3495.3	3477.1	3443.9
5°	3359.2	3410.6	3510.4	3586.0	3586.0	3525.5	3477.1	3413.6	3319.9	3295.7	3277.6
7.5°	3489.2	3652.5	3743.2	3694.8	3598.1	3371.3	3056.8	2827.1	2633.5	2561.0	2527.7
10°	3719.0	3809.7	3915.5	3719.0	3316.9	2836.1	2307.0	1959.3	1687.2	1626.7	1581.3
12.5°	3867.2	4012.3	4072.8	3586.0	2796.8	2080.2	1505.7	1112.7	922.2	777.1	752.9
15°	4060.7	4227.0	4103.0	3226.2	2204.2	1363.6	780.1	486.8	396.1	371.9	371.9
17.5°	4193.7	4375.1	3979.0	2778.7	1563.2	725.7	387.0	335.6	329.6	332.6	326.5
20°	4426.5	4535.4	3791.6	2258.6	934.3	371.9	311.4	299.3	293.3	302.4	296.3
22.5°	4514.2	4614.0	3486.2	1635.8	420.3	247.9	232.8	223.7	229.8	226.8	223.7
25°	4508.2	4559.6	2984.3	937.3	124.0	96.8	87.7	87.7	81.6	84.7	81.6
27.5°	4553.5	4426.5	2421.9	278.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4577.7	4211.9	1723.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4589.8	4100.0	1109.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4683.5	3876.2	474.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4747.0	3589.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5010.1	3498.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5351.7	3329.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5826.5	3078.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6455.4	2929.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6924.0	2697.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7519.7	2558.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8227.2	2564.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8871.2	2521.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9200.8	2155.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9131.2	1744.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8889.3	1369.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8723.0	1212.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8218.1	970.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6540.0	665.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4160.5	408.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1917.0	187.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	601.7	114.9	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	157.2	72.6	24.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.6	51.4	21.2	9.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.4	21.2	9.1	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.4	12.1	6.0	6.0	3.0	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)