

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: P482861

Luminaire Tested: **IFLD-L-SA7A-740-U-T3R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482861  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-740-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

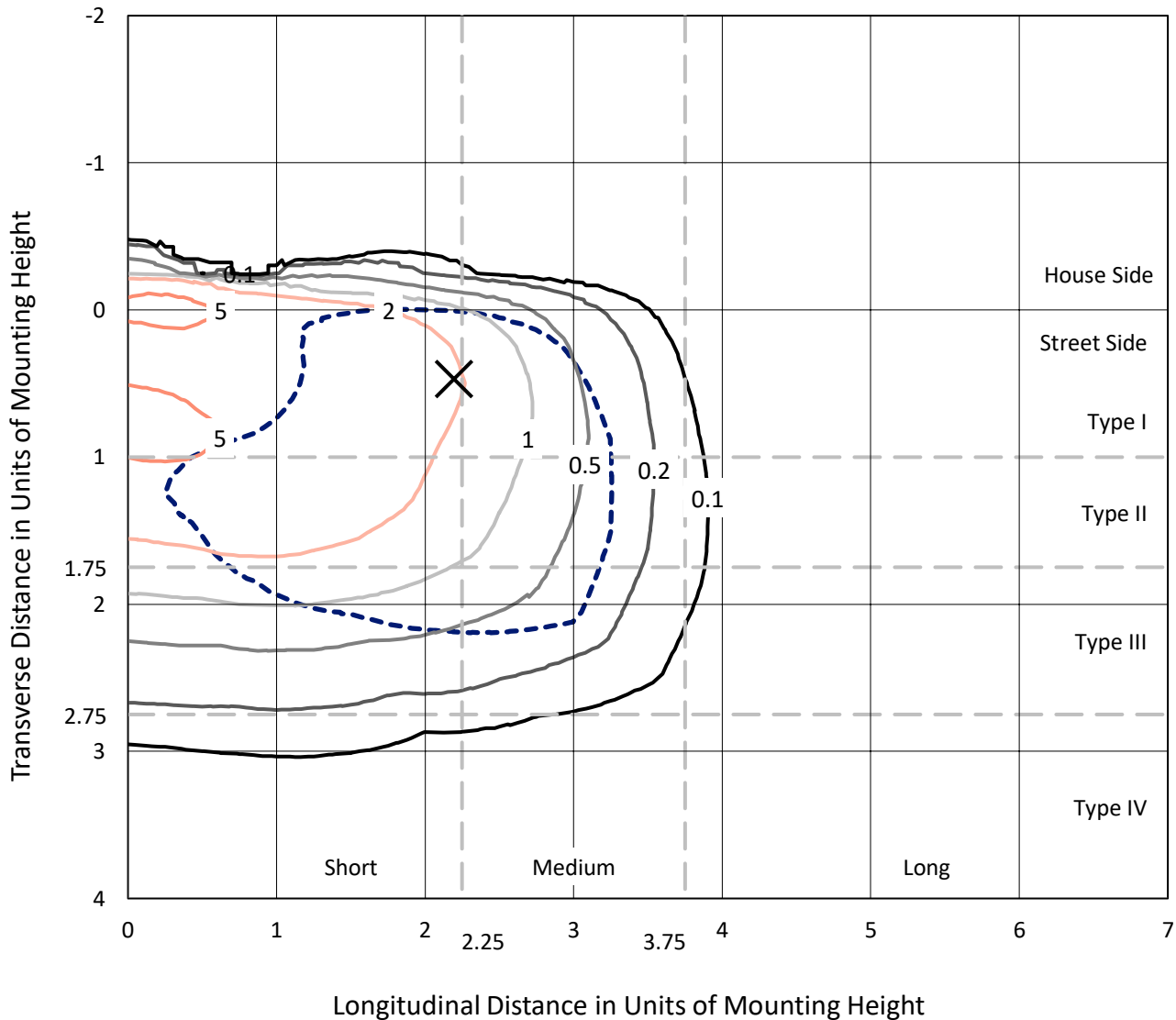
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22436.8 lumens  
Efficiency: N/A  
Efficacy: 103.1 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): 217.6  
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

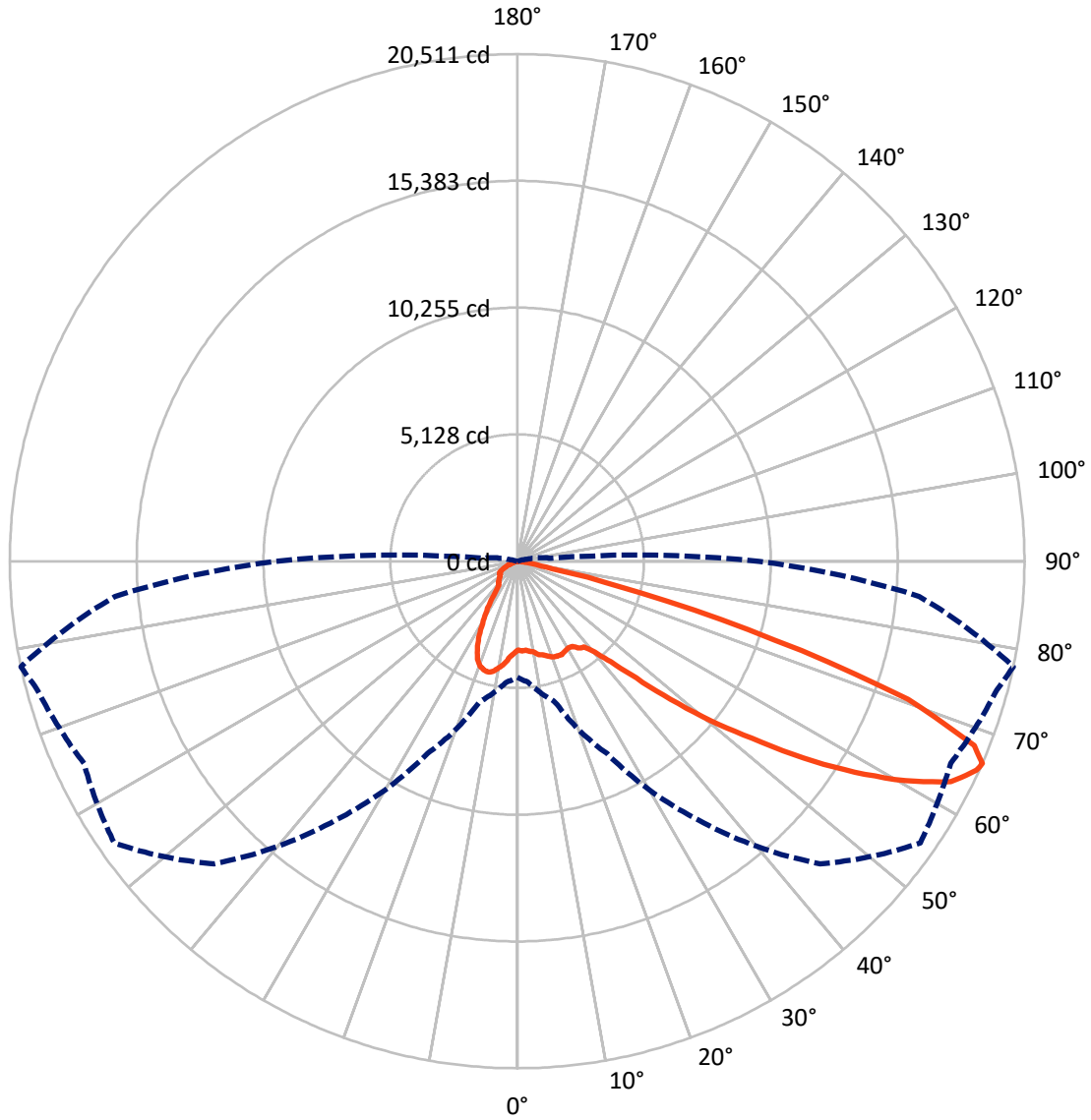
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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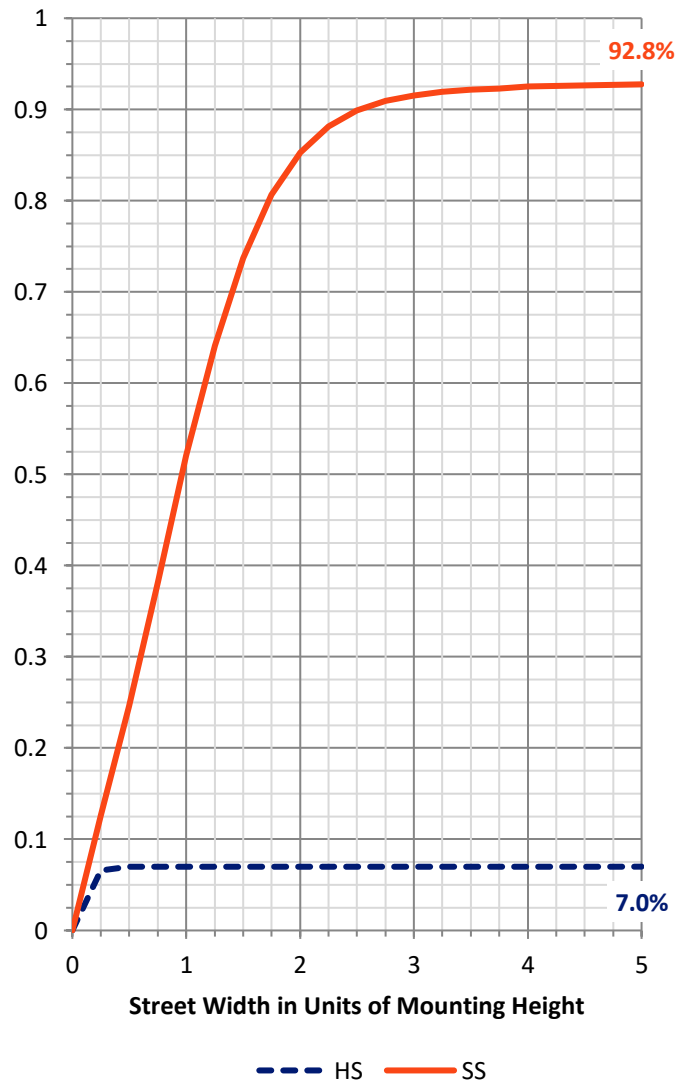
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1577.4	0.0	1577.4
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	20859.4	0.0	20859.4
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	22436.8	0.0	22436.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.8	1.5
10°-20°	742.1	3.3
20°-30°	1060.8	4.7
30°-40°	1815.7	8.1
40°-50°	3277.2	14.6
50°-60°	5604.4	25.0
60°-70°	6898.1	30.7
70°-80°	2607.8	11.6
80°-90°	101.9	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°	22436.8	100.0
0°-180°	22436.8	100.0

**Coefficient of Utilization**

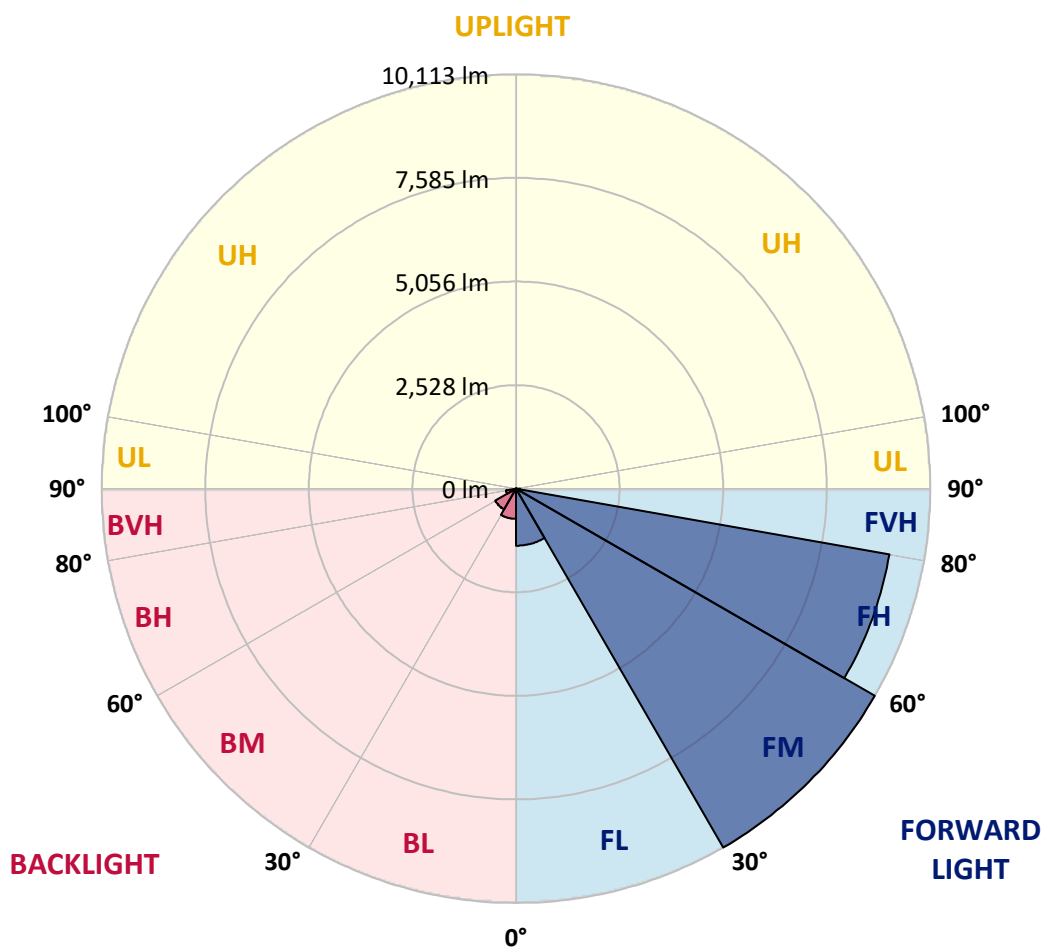


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.9	6.2			
FM (30°-60°)	10112.7	45.1			
FH (60°-80°)	9256.0	41.3			G4/12000
FVH (80°-90°)	97.8	0.4			G1/100
BL (0°-30°)	738.8	3.3	B2/1000		
BM (30°-60°)	584.6	2.6	B1/1000		
BH (60°-80°)	249.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6
2.5°	3305.5	3275.0	3305.5	3349.6	3373.3	3393.6	3464.8	3525.8	3590.3	3634.3	3620.8
5°	3064.8	3122.4	3129.2	3142.7	3180.0	3302.1	3342.8	3447.9	3607.2	3620.8	3681.8
7.5°	2874.9	2858.0	2902.0	2990.2	3085.1	3156.3	3275.0	3458.0	3624.2	3681.8	3800.5
10°	2600.3	2634.2	2681.7	2769.8	2885.1	3061.4	3271.6	3475.0	3712.3	3732.6	3953.0
12.5°	2451.1	2417.2	2491.8	2583.4	2780.0	2942.7	3200.4	3444.5	3766.6	3878.4	4132.7
15°	2329.1	2346.0	2417.2	2478.3	2641.0	2847.8	3149.5	3519.1	3858.1	3936.1	4322.6
17.5°	2278.2	2268.1	2322.3	2383.3	2583.4	2817.3	3129.2	3522.5	3939.5	4041.2	4451.4
20°	2302.0	2322.3	2305.4	2363.0	2488.4	2725.7	3159.7	3586.9	4000.5	4139.5	4590.4
22.5°	2674.9	2647.8	2512.2	2403.7	2410.5	2688.5	3136.0	3627.6	4054.7	4166.6	4685.3
25°	3647.9	3502.1	3166.5	2749.5	2474.9	2586.7	3108.8	3614.0	4044.6	4183.6	4742.9
27.5°	4627.7	4502.2	4173.4	3525.8	2735.9	2546.1	3013.9	3624.2	3993.7	4122.5	4648.0
30°	5661.7	5729.5	5241.3	4471.7	3420.7	2769.8	2952.9	3569.9	3959.8	4068.3	4668.4
32.5°	6722.8	6695.7	6400.8	5566.8	4400.5	3264.8	3051.2	3624.2	4003.9	4109.0	4787.0
35°	7553.4	7458.5	7160.2	6407.5	5210.8	4010.6	3390.2	3881.8	4197.1	4322.6	4956.5
37.5°	7963.7	8004.3	7831.4	7177.1	6099.0	4702.3	3814.0	3881.8	4258.1	4403.9	5231.1
40°	8282.3	8404.4	8340.0	8129.8	6980.5	5482.0	4281.9	4122.5	4566.6	4841.3	5746.4
42.5°	8665.4	8607.8	8987.5	8794.3	8133.2	6465.2	5102.3	4695.5	5295.5	5560.0	6519.4
45°	8868.9	9089.2	9377.4	9624.9	9201.1	7692.4	6173.6	5709.2	6410.9	6746.6	7668.7
47.5°	9391.0	9479.1	9947.0	10258.9	10069.0	9096.0	7800.9	7190.7	7814.5	8343.4	8984.1
50°	9696.1	9577.4	10231.7	10706.4	10814.9	10258.9	9258.7	8784.1	9482.5	10157.1	10214.8
52.5°	9428.2	9767.3	10421.6	11272.5	11574.3	11296.3	10970.8	10764.0	11255.6	11879.4	11601.4
55°	8489.2	8719.7	10313.1	11892.9	12865.9	12737.1	13038.8	12903.2	13398.2	14059.3	13221.9
57.5°	7733.1	8021.3	9421.5	12215.0	14069.5	14449.2	14828.9	14744.1	15340.8	16103.6	14595.0
60°	7261.9	7428.0	8777.3	12133.7	14781.4	16218.9	17076.6	16479.9	17452.9	18036.1	15669.7
62.5°	6444.8	6549.9	7838.2	11055.6	14995.0	17469.9	18924.3	18114.0	18958.2	19670.1	16442.6
65°	5166.7	5451.5	6516.0	9441.8	13584.7	17700.4	20077.0	19124.3	19941.4	20409.2	16676.6
66°	4702.3	4909.1	5885.4	8587.5	12781.2	17317.3	19883.7	19334.5	20083.8	20510.9	16317.2
67.5°	3902.2	4081.8	4858.2	7370.4	11136.9	16473.2	20019.3	19192.1	20192.2	19931.2	15835.8
70°	2583.4	2698.6	3322.4	4983.6	7756.9	13476.2	18568.3	18080.1	17751.3	16771.5	12381.1
72.5°	1206.9	1373.0	2074.8	3020.7	4549.7	9428.2	15140.8	14486.5	12448.9	10882.7	7811.1
75°	545.8	620.4	1139.1	1732.4	2040.9	4885.3	9767.3	8821.4	6197.4	5146.4	3420.7
77.5°	295.0	335.6	556.0	823.8	742.5	1712.1	4834.5	4020.8	1952.8	1430.7	993.3
80°	227.1	267.8	464.5	471.2	274.6	444.1	1796.8	1244.2	488.2	369.5	237.3
82.5°	118.7	169.5	366.1	305.1	139.0	179.7	556.0	345.8	152.6	122.0	101.7
85°	47.5	74.6	206.8	203.4	81.4	61.0	156.0	105.1	61.0	50.9	47.5
87.5°	3.4	3.4	111.9	78.0	50.9	17.0	23.7	23.7	30.5	27.1	33.9
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°	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6
2.5°	3681.8	3722.5	3729.3	3841.1	3864.9	3841.1	3902.2	3892.0	3919.1	3898.8	3861.5
5°	3766.6	3824.2	3936.1	4020.8	4020.8	3953.0	3898.8	3827.6	3722.5	3695.4	3675.0
7.5°	3912.3	4095.4	4197.1	4142.9	4034.4	3780.1	3427.5	3169.9	2952.9	2871.5	2834.2
10°	4170.0	4271.7	4390.4	4170.0	3719.1	3180.0	2586.7	2196.9	1891.8	1823.9	1773.1
12.5°	4336.1	4498.8	4566.6	4020.8	3136.0	2332.5	1688.3	1247.6	1034.0	871.3	844.2
15°	4553.1	4739.5	4600.5	3617.4	2471.5	1529.0	874.7	545.8	444.1	417.0	417.0
17.5°	4702.3	4905.7	4461.6	3115.6	1752.8	813.7	434.0	376.3	369.5	372.9	366.1
20°	4963.3	5085.4	4251.4	2532.5	1047.6	417.0	349.2	335.6	328.9	339.0	332.2
22.5°	5061.6	5173.5	3908.9	1834.1	471.2	278.0	261.0	250.9	257.7	254.3	250.9
25°	5054.8	5112.5	3346.2	1051.0	139.0	108.5	98.3	98.3	91.5	94.9	91.5
27.5°	5105.7	4963.3	2715.6	311.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5132.8	4722.6	1932.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5146.4	4597.2	1244.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5251.5	4346.3	532.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5322.7	4024.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5617.6	3922.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6000.7	3732.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6533.0	3451.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7238.2	3285.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7763.6	3024.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8431.5	2868.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9224.8	2874.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9947.0	2827.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10316.5	2417.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10238.5	1956.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9967.3	1535.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9780.8	1359.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9214.7	1088.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7333.1	745.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4665.0	457.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2149.4	210.2	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	674.7	128.8	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	176.3	81.4	27.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.5	57.6	23.7	10.2	6.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.6	23.7	10.2	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.9	13.6	6.8	6.8	3.4	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)