

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: P482980

Luminaire Tested: **IFLD-L-SA7C-827-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482980  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-827-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

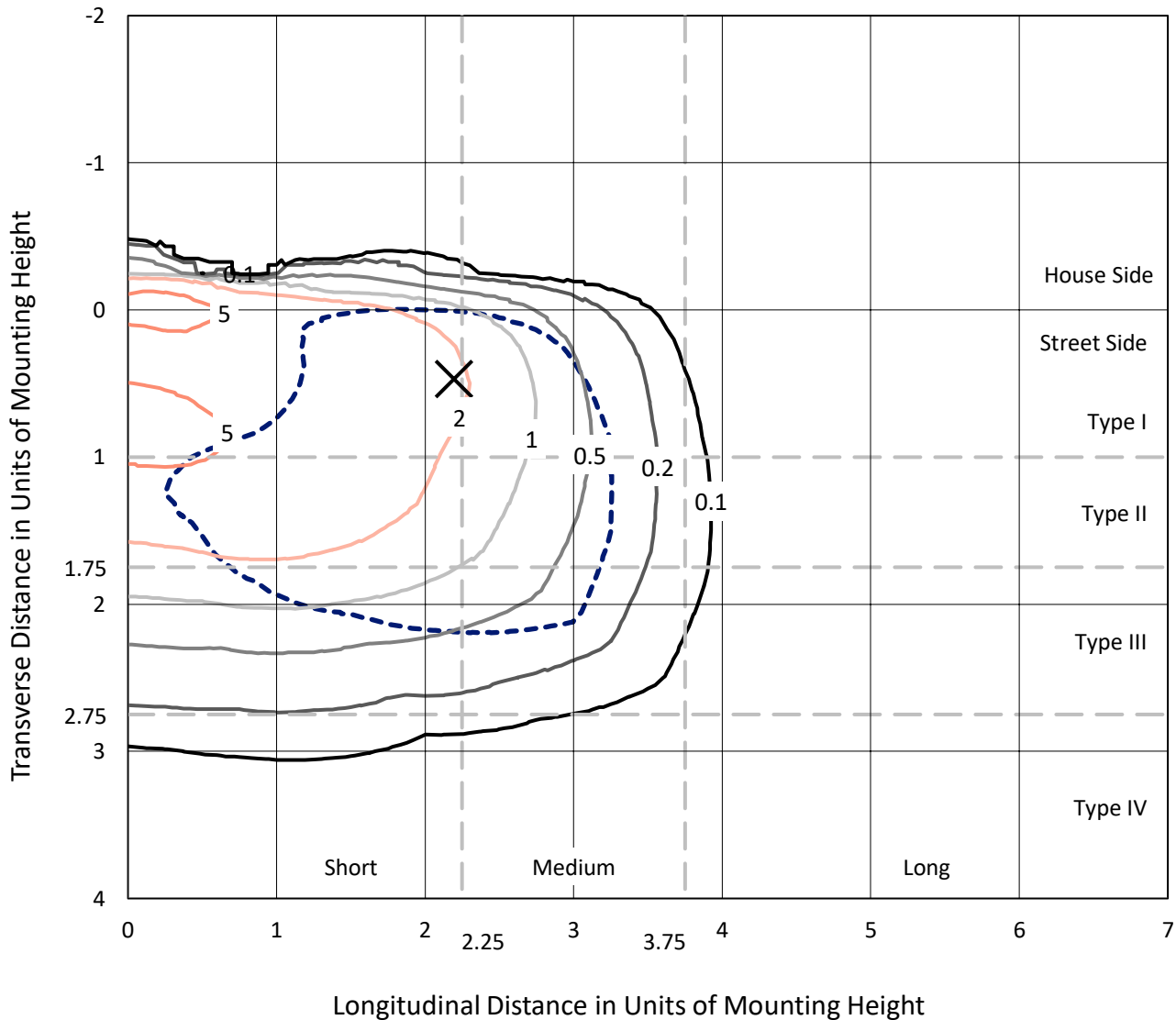
Lumens per Lamp: N/A  
Luminaire Lumens: 23359.4 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

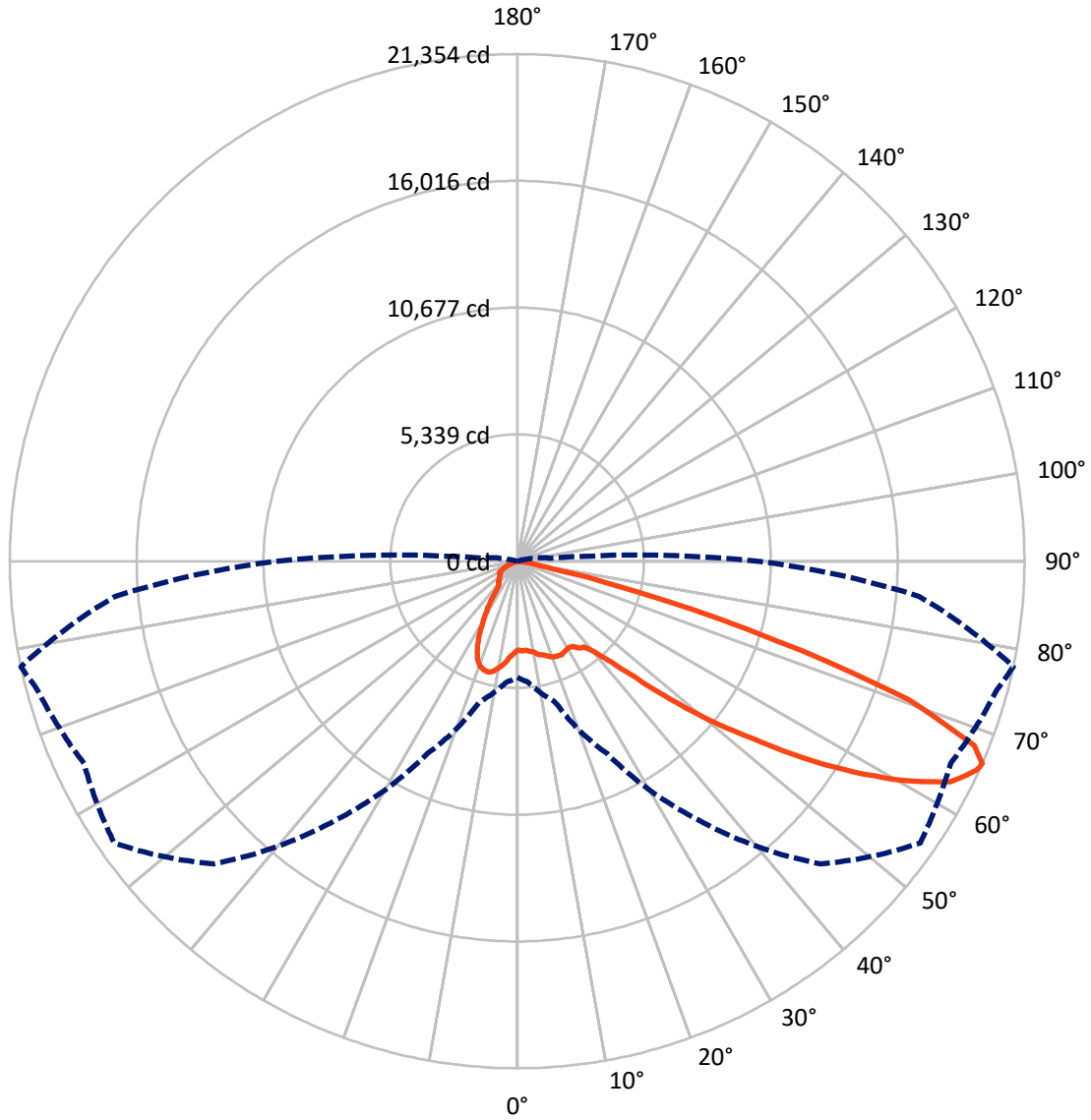
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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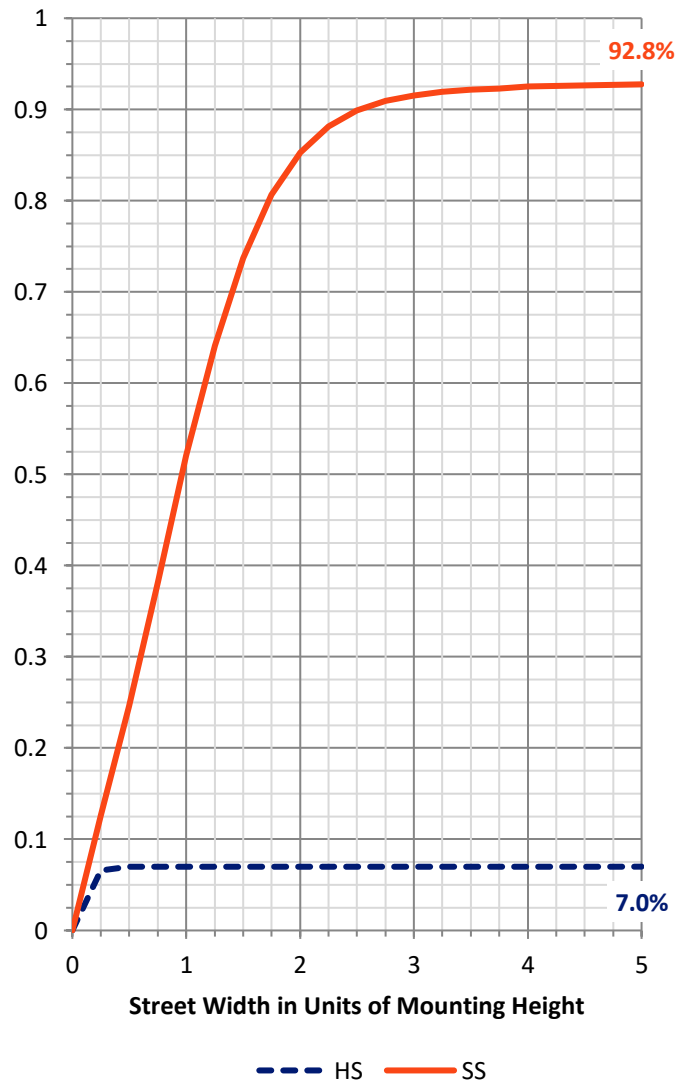
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1642.3	0.0	1642.3
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	21717.2	0.0	21717.2
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	23359.4	0.0	23359.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.3	1.5
10°-20°	772.7	3.3
20°-30°	1104.4	4.7
30°-40°	1890.4	8.1
40°-50°	3412.0	14.6
50°-60°	5834.9	25.0
60°-70°	7181.7	30.7
70°-80°	2715.1	11.6
80°-90°	106.1	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°	23359.4	100.0
0°-180°	23359.4	100.0

**Coefficient of Utilization**

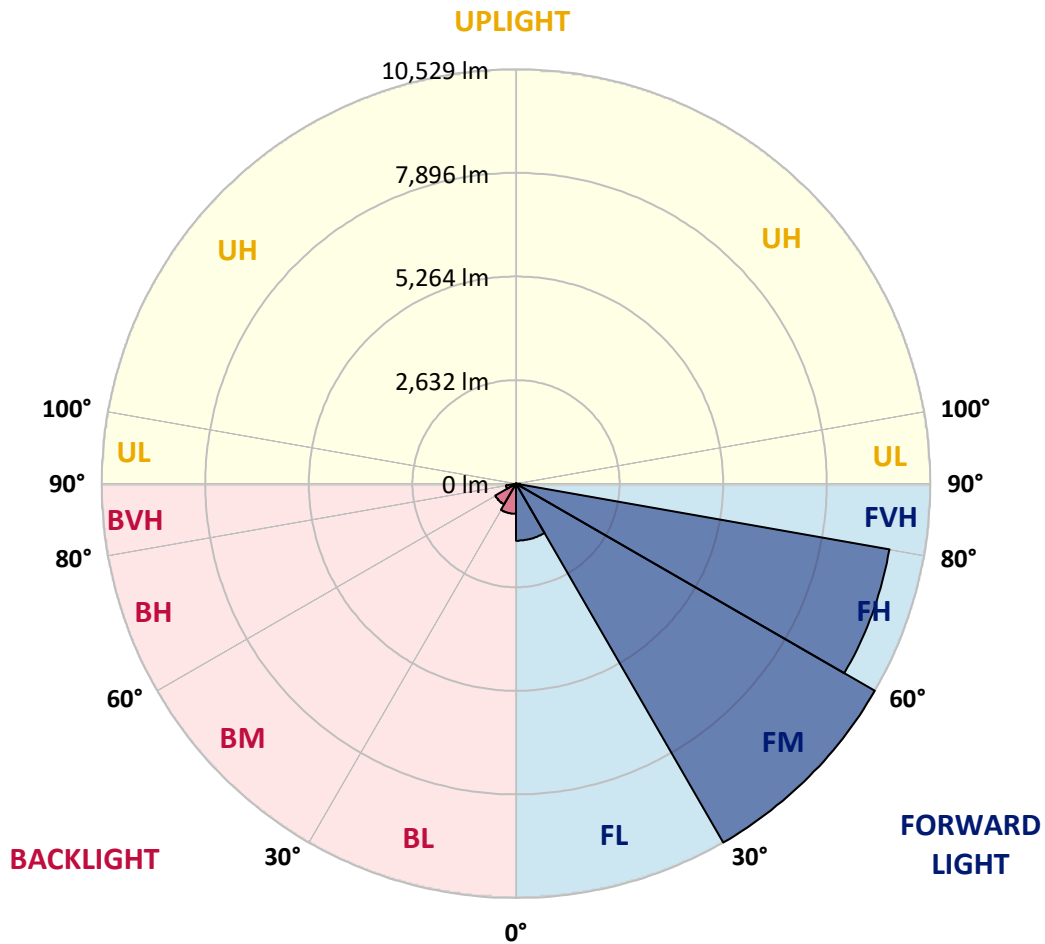


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.2	6.2			
FM (30°-60°)	10528.6	45.1			
FH (60°-80°)	9636.6	41.3			G4/12000
FVH (80°-90°)	101.8	0.4			G2/225
BL (0°-30°)	769.1	3.3	B2/1000		
BM (30°-60°)	608.7	2.6	B1/1000		
BH (60°-80°)	260.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.3	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°	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4
2.5°	3441.4	3409.6	3441.4	3487.3	3512.0	3533.2	3607.3	3670.8	3737.9	3783.8	3769.7
5°	3190.8	3250.8	3257.9	3272.0	3310.8	3437.9	3480.2	3589.6	3755.5	3769.7	3833.2
7.5°	2993.1	2975.5	3021.4	3113.1	3212.0	3286.1	3409.6	3600.2	3773.2	3833.2	3956.7
10°	2707.2	2742.5	2791.9	2883.7	3003.7	3187.3	3406.1	3617.9	3865.0	3886.1	4115.6
12.5°	2551.9	2516.6	2594.3	2689.6	2894.3	3063.7	3332.0	3586.1	3921.4	4037.9	4302.6
15°	2424.9	2442.5	2516.6	2580.2	2749.6	2964.9	3279.0	3663.8	4016.7	4097.9	4500.3
17.5°	2371.9	2361.3	2417.8	2481.3	2689.6	2933.1	3257.9	3667.3	4101.4	4207.3	4634.4
20°	2396.6	2417.8	2400.2	2460.2	2590.8	2837.8	3289.6	3734.4	4165.0	4309.7	4779.1
22.5°	2784.9	2756.7	2615.5	2502.5	2509.6	2799.0	3264.9	3776.7	4221.5	4337.9	4878.0
25°	3797.9	3646.1	3296.7	2862.5	2576.6	2693.1	3236.7	3762.6	4210.9	4355.6	4938.0
27.5°	4818.0	4687.4	4345.0	3670.8	2848.4	2650.8	3137.9	3773.2	4157.9	4292.0	4839.1
30°	5894.5	5965.1	5456.8	4655.6	3561.4	2883.7	3074.3	3716.7	4122.6	4235.6	4860.3
32.5°	6999.3	6971.0	6664.0	5795.7	4581.5	3399.0	3176.7	3773.2	4168.5	4277.9	4983.9
35°	7864.0	7765.2	7454.6	6671.0	5425.1	4175.6	3529.6	4041.4	4369.7	4500.3	5160.3
37.5°	8291.1	8333.5	8153.5	7472.3	6349.8	4895.6	3970.8	4041.4	4433.2	4585.0	5446.2
40°	8622.9	8750.0	8682.9	8464.1	7267.5	5707.4	4457.9	4292.0	4754.4	5040.3	5982.7
42.5°	9021.8	8961.8	9357.1	9155.9	8467.6	6731.0	5312.1	4888.6	5513.3	5788.6	6787.5
45°	9233.5	9463.0	9763.0	10020.7	9579.5	8008.8	6427.5	5943.9	6674.6	7024.0	7984.1
47.5°	9777.1	9868.9	10356.0	10680.7	10483.0	9470.0	8121.7	7486.4	8135.8	8686.5	9353.6
50°	10094.8	9971.2	10652.5	11146.6	11259.6	10680.7	9639.5	9145.3	9872.4	10574.8	10634.8
52.5°	9815.9	10168.9	10850.1	11736.1	12050.2	11760.8	11421.9	11206.6	11718.4	12367.9	12078.4
55°	8838.2	9078.2	10737.2	12382.0	13395.0	13260.9	13575.0	13433.8	13949.2	14637.4	13765.6
57.5°	8051.1	8351.1	9808.9	12717.3	14648.0	15043.3	15438.7	15350.4	15971.6	16765.8	15195.1
60°	7560.5	7733.4	9138.2	12632.6	15389.2	16885.8	17778.8	17157.6	18170.6	18777.7	16314.0
62.5°	6709.9	6819.3	8160.5	11510.2	15611.6	18188.3	19702.5	18858.9	19737.8	20479.0	17118.8
65°	5379.2	5675.7	6784.0	9830.1	14143.3	18428.3	20902.5	19910.7	20761.4	21248.5	17362.3
66°	4895.6	5110.9	6127.5	8940.6	13306.8	18029.4	20701.4	20129.6	20909.6	21354.3	16988.2
67.5°	4062.6	4249.7	5058.0	7673.4	11594.9	17150.5	20842.5	19981.3	21022.6	20750.8	16487.0
70°	2689.6	2809.6	3459.1	5188.6	8075.8	14030.3	19331.9	18823.6	18481.2	17461.1	12890.3
72.5°	1256.6	1429.5	2160.1	3144.9	4736.8	9815.9	15763.4	15082.2	12960.9	11330.2	8132.3
75°	568.3	645.9	1186.0	1803.6	2124.8	5086.2	10168.9	9184.1	6452.2	5358.0	3561.4
77.5°	307.1	349.4	578.9	857.7	773.0	1782.5	5033.3	4186.2	2033.1	1489.5	1034.2
80°	236.5	278.8	483.6	490.6	285.9	462.4	1870.7	1295.4	508.3	384.7	247.1
82.5°	123.5	176.5	381.2	317.7	144.7	187.1	578.9	360.0	158.8	127.1	105.9
85°	49.4	77.7	215.3	211.8	84.7	63.5	162.4	109.4	63.5	52.9	49.4
87.5°	3.5	3.5	116.5	81.2	52.9	17.6	24.7	24.7	31.8	28.2	35.3
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°	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4
2.5°	3833.2	3875.5	3882.6	3999.1	4023.8	3999.1	4062.6	4052.0	4080.3	4059.1	4020.3
5°	3921.4	3981.4	4097.9	4186.2	4186.2	4115.6	4059.1	3985.0	3875.5	3847.3	3826.1
7.5°	4073.2	4263.8	4369.7	4313.2	4200.3	3935.6	3568.5	3300.2	3074.3	2989.6	2950.8
10°	4341.5	4447.4	4570.9	4341.5	3872.0	3310.8	2693.1	2287.2	1969.5	1898.9	1846.0
12.5°	4514.4	4683.8	4754.4	4186.2	3264.9	2428.4	1757.8	1298.9	1076.5	907.1	878.9
15°	4740.3	4934.4	4789.7	3766.1	2573.1	1591.9	910.6	568.3	462.4	434.1	434.1
17.5°	4895.6	5107.4	4645.0	3243.7	1824.8	847.1	451.8	391.8	384.7	388.3	381.2
20°	5167.4	5294.5	4426.2	2636.6	1090.7	434.1	363.6	349.4	342.4	353.0	345.9
22.5°	5269.8	5386.2	4069.7	1909.5	490.6	289.4	271.8	261.2	268.3	264.7	261.2
25°	5262.7	5322.7	3483.8	1094.2	144.7	112.9	102.4	102.4	95.3	98.8	95.3
27.5°	5315.6	5167.4	2827.2	324.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5343.9	4916.8	2011.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5358.0	4786.2	1295.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5467.4	4525.0	554.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5541.5	4189.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5848.6	4083.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6247.5	3886.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6801.6	3593.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7535.8	3420.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8082.9	3148.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8778.2	2986.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9604.2	2993.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10356.0	2943.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10740.7	2516.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10659.5	2036.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10377.2	1598.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10183.0	1415.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9593.6	1133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7634.6	776.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4856.8	476.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2237.8	218.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	702.4	134.1	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	183.5	84.7	28.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.3	60.0	24.7	10.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.0	24.7	10.6	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.9	14.1	7.1	7.1	3.5	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)