

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: P482937

Luminaire Tested: **IFLD-M-SA4D-760-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482937  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-760-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

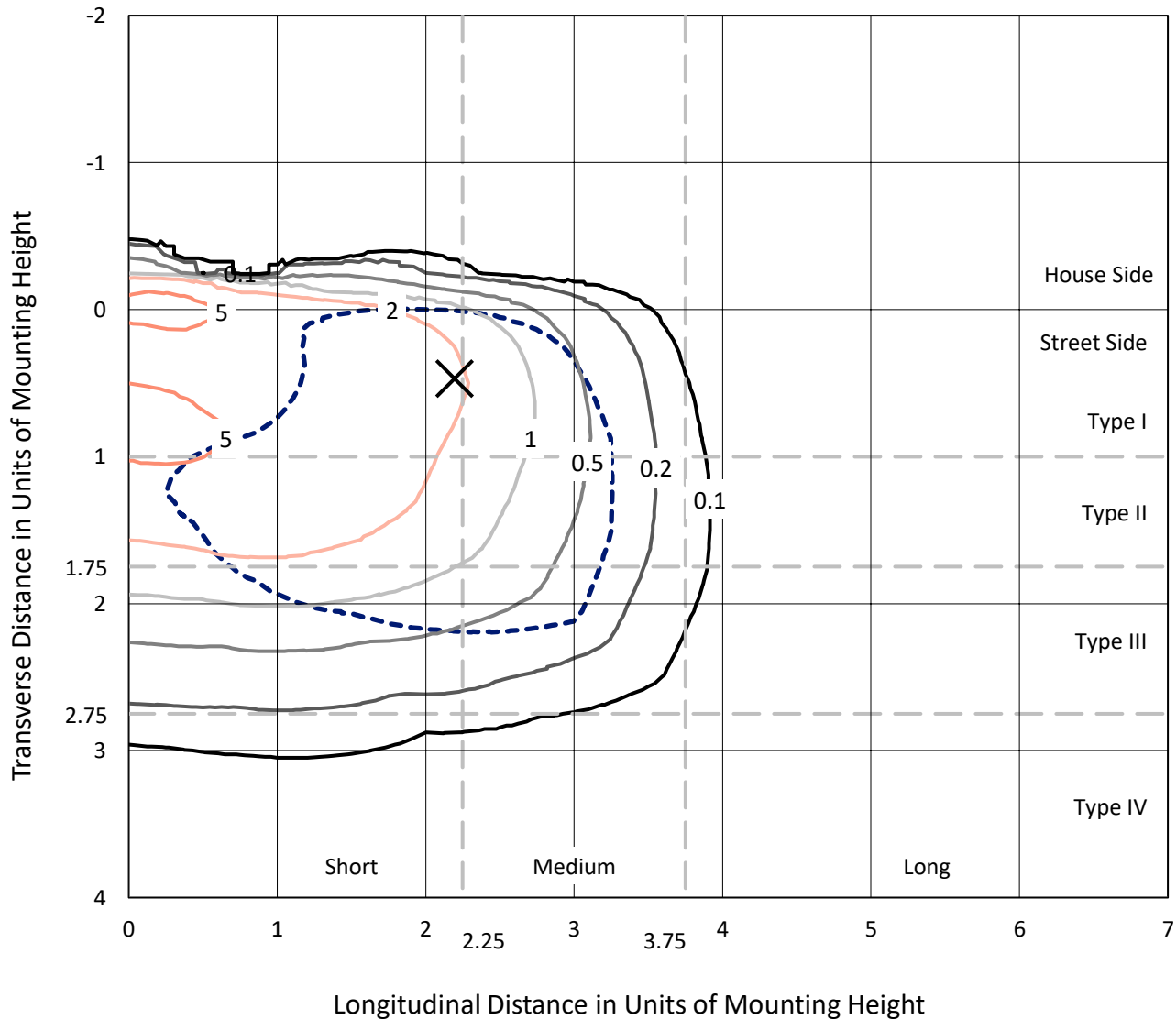
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22938.4 lumens  
Efficiency: N/A  
Efficacy: 91.9 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): 249.7  
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

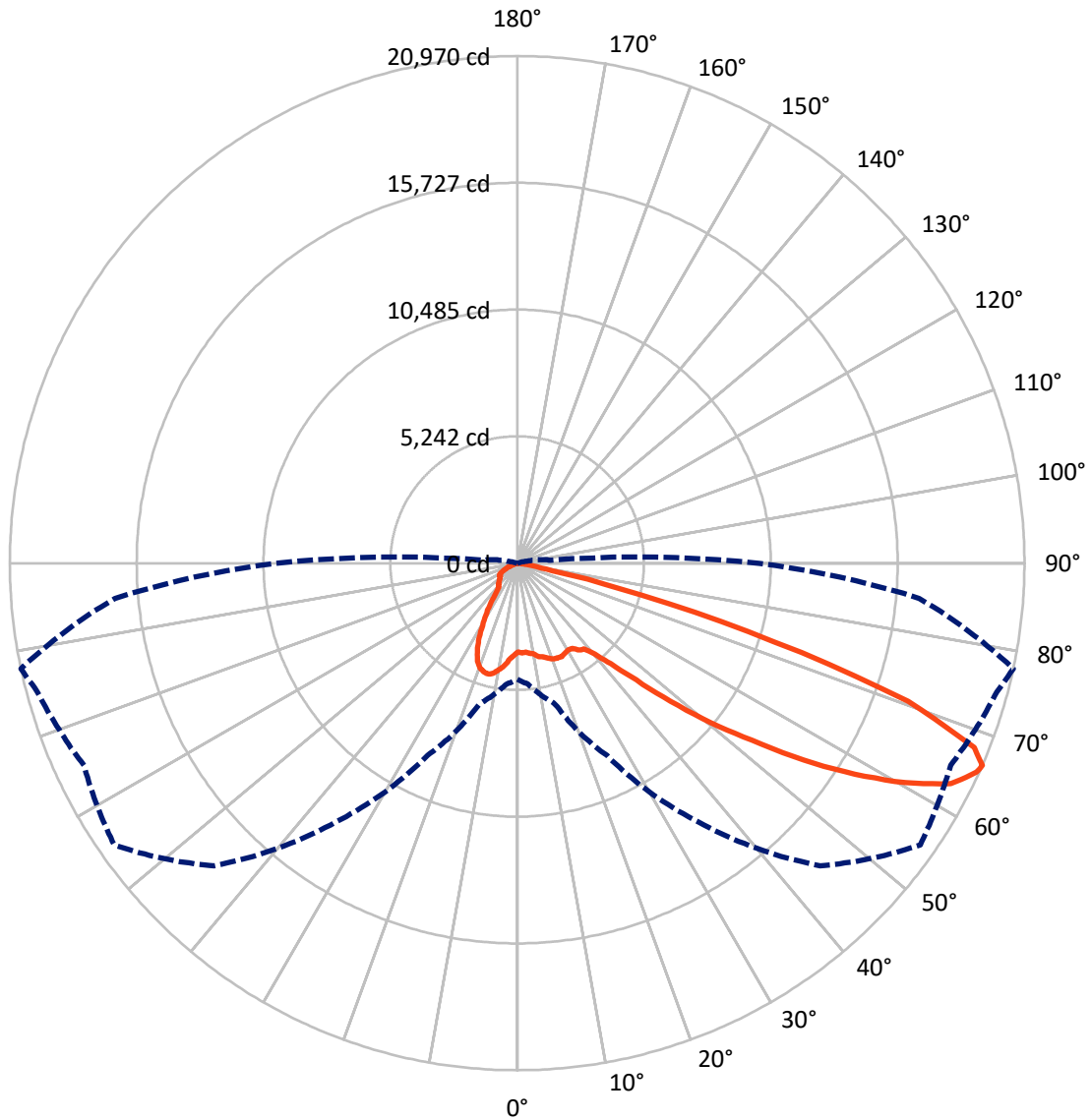
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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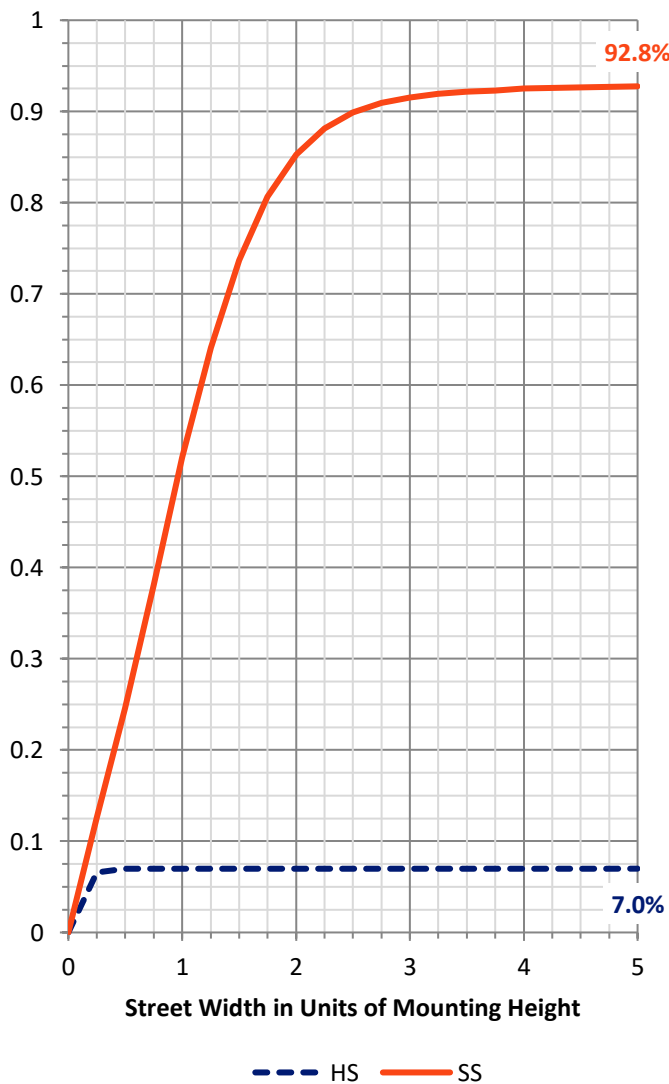
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1612.7	0.0	1612.7
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	21325.8	0.0	21325.8
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	22938.4	0.0	22938.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.1	1.5
10°-20°	758.7	3.3
20°-30°	1084.5	4.7
30°-40°	1856.3	8.1
40°-50°	3350.5	14.6
50°-60°	5729.7	25.0
60°-70°	7052.3	30.7
70°-80°	2666.2	11.6
80°-90°	104.1	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°	22938.4	100.0
0°-180°	22938.4	100.0

**Coefficient of Utilization**

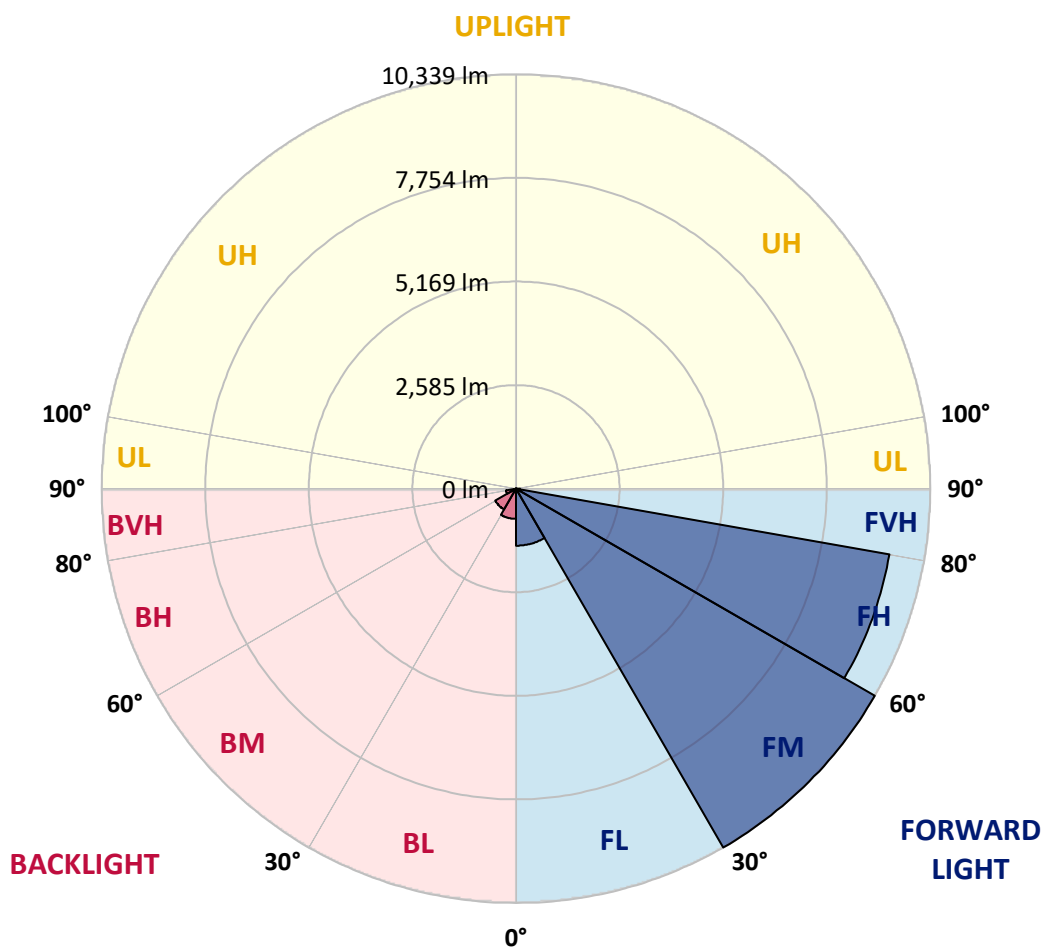


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.0	6.2			
FM (30°-60°)	10338.8	45.1			
FH (60°-80°)	9463.0	41.3			G4/12000
FVH (80°-90°)	100.0	0.4			G1/100
BL (0°-30°)	755.3	3.3	B2/1000		
BM (30°-60°)	597.7	2.6	B1/1000		
BH (60°-80°)	255.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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°	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0
2.5°	3379.4	3348.2	3379.4	3424.4	3448.7	3469.5	3542.3	3604.7	3670.5	3715.6	3701.7
5°	3133.3	3192.2	3199.1	3213.0	3251.1	3375.9	3417.5	3525.0	3687.9	3701.7	3764.1
7.5°	2939.2	2921.9	2966.9	3057.0	3154.1	3226.9	3348.2	3535.4	3705.2	3764.1	3885.4
10°	2658.4	2693.1	2741.6	2831.7	2949.6	3129.8	3344.7	3552.7	3795.3	3816.1	4041.4
12.5°	2505.9	2471.3	2547.5	2641.1	2842.1	3008.5	3271.9	3521.5	3850.8	3965.1	4225.1
15°	2381.2	2398.5	2471.3	2533.7	2700.0	2911.5	3219.9	3597.7	3944.3	4024.1	4419.2
17.5°	2329.2	2318.8	2374.2	2436.6	2641.1	2880.3	3199.1	3601.2	4027.5	4131.5	4550.9
20°	2353.4	2374.2	2356.9	2415.8	2544.1	2786.7	3230.3	3667.1	4089.9	4232.0	4693.0
22.5°	2734.7	2707.0	2568.3	2457.4	2464.3	2748.6	3206.1	3708.7	4145.4	4259.8	4790.1
25°	3729.5	3580.4	3237.3	2811.0	2530.2	2644.6	3178.4	3694.8	4135.0	4277.1	4849.0
27.5°	4731.1	4602.9	4266.7	3604.7	2797.1	2603.0	3081.3	3705.2	4083.0	4214.7	4751.9
30°	5788.3	5857.6	5358.5	4571.7	3497.2	2831.7	3018.9	3649.7	4048.3	4159.2	4772.7
32.5°	6873.1	6845.4	6543.9	5691.2	4498.9	3337.8	3119.4	3705.2	4093.4	4200.8	4894.0
35°	7722.3	7625.3	7320.3	6550.8	5327.3	4100.3	3466.0	3968.6	4290.9	4419.2	5067.3
37.5°	8141.7	8183.3	8006.5	7337.6	6235.4	4807.4	3899.3	3968.6	4353.3	4502.4	5348.1
40°	8467.5	8592.3	8526.4	8311.5	7136.6	5604.6	4377.6	4214.7	4668.7	4949.5	5874.9
42.5°	8859.2	8800.3	9188.5	8990.9	8315.0	6609.7	5216.4	4800.5	5413.9	5684.3	6665.2
45°	9067.1	9292.4	9587.0	9840.1	9406.8	7864.4	6311.6	5836.8	6554.3	6897.4	7840.2
47.5°	9600.9	9691.0	10169.3	10488.2	10294.1	9299.4	7975.3	7351.5	7989.2	8529.9	9185.0
50°	9912.9	9791.5	10460.5	10945.7	11056.6	10488.2	9465.7	8980.5	9694.5	10384.2	10443.2
52.5°	9639.0	9985.6	10654.6	11524.6	11833.0	11548.8	11216.1	11004.7	11507.2	12145.0	11860.8
55°	8678.9	8914.6	10543.7	12158.8	13153.6	13021.9	13330.4	13191.7	13697.8	14373.6	13517.5
57.5°	7906.0	8200.6	9632.1	12488.1	14384.0	14772.2	15160.4	15073.8	15683.8	16463.7	14921.3
60°	7424.2	7594.1	8973.6	12404.9	15111.9	16581.5	17458.4	16848.4	17843.1	18439.3	16020.0
62.5°	6588.9	6696.4	8013.5	11302.7	15330.3	17860.5	19347.4	18519.0	19382.1	20109.9	16810.3
65°	5282.2	5573.4	6661.7	9652.9	13888.4	18096.2	20525.9	19551.9	20387.2	20865.5	17049.4
66°	4807.4	5018.8	6017.0	8779.5	13066.9	17704.5	20328.3	19766.8	20532.8	20969.5	16682.0
67.5°	3989.4	4173.1	4966.8	7535.2	11385.9	16841.5	20466.9	19621.2	20643.7	20376.8	16189.8
70°	2641.1	2759.0	3396.7	5095.1	7930.3	13777.5	18983.5	18484.4	18148.2	17146.5	12658.0
72.5°	1233.9	1403.7	2121.2	3088.2	4651.4	9639.0	15479.3	14810.4	12727.3	11126.0	7985.7
75°	558.0	634.3	1164.6	1771.1	2086.6	4994.6	9985.6	9018.6	6335.9	5261.4	3497.2
77.5°	301.5	343.1	568.4	842.2	759.1	1750.3	4942.6	4110.7	1996.4	1462.7	1015.5
80°	232.2	273.8	474.8	481.8	280.7	454.1	1837.0	1272.0	499.1	377.8	242.6
82.5°	121.3	173.3	374.3	311.9	142.1	183.7	568.4	353.5	156.0	124.8	104.0
85°	48.5	76.3	211.4	208.0	83.2	62.4	159.4	107.4	62.4	52.0	48.5
87.5°	3.5	3.5	114.4	79.7	52.0	17.3	24.3	24.3	31.2	27.7	34.7
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°	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0
2.5°	3764.1	3805.7	3812.6	3927.0	3951.3	3927.0	3989.4	3979.0	4006.7	3985.9	3947.8
5°	3850.8	3909.7	4024.1	4110.7	4110.7	4041.4	3985.9	3913.2	3805.7	3778.0	3757.2
7.5°	3999.8	4187.0	4290.9	4235.5	4124.6	3864.6	3504.2	3240.7	3018.9	2935.7	2897.6
10°	4263.2	4367.2	4488.5	4263.2	3802.2	3251.1	2644.6	2246.0	1934.0	1864.7	1812.7
12.5°	4433.1	4599.4	4668.7	4110.7	3206.1	2384.6	1726.1	1275.5	1057.1	890.8	863.0
15°	4654.9	4845.5	4703.4	3698.3	2526.7	1563.2	894.2	558.0	454.1	426.3	426.3
17.5°	4807.4	5015.4	4561.3	3185.3	1791.9	831.8	443.7	384.7	377.8	381.3	374.3
20°	5074.3	5199.1	4346.4	2589.1	1071.0	426.3	357.0	343.1	336.2	346.6	339.7
22.5°	5174.8	5289.2	3996.3	1875.1	481.8	284.2	266.9	256.5	263.4	260.0	256.5
25°	5167.9	5226.8	3421.0	1074.5	142.1	110.9	100.5	100.5	93.6	97.0	93.6
27.5°	5219.8	5074.3	2776.3	318.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5247.6	4828.2	1975.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5261.4	4699.9	1272.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5368.9	4443.5	544.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5441.7	4114.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5743.2	4010.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6134.9	3816.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6679.0	3528.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7400.0	3358.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7937.2	3091.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8620.0	2932.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9431.1	2939.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10169.3	2890.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10547.1	2471.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10467.4	1999.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10190.1	1570.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9999.5	1389.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9420.7	1112.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7497.0	762.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4769.3	467.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2197.5	214.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	689.7	131.7	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	180.2	83.2	27.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.6	58.9	24.3	10.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.9	24.3	10.4	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.0	13.9	6.9	6.9	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)