

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: P481337

Luminaire Tested: **IFLD-M-SA4C-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481337  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

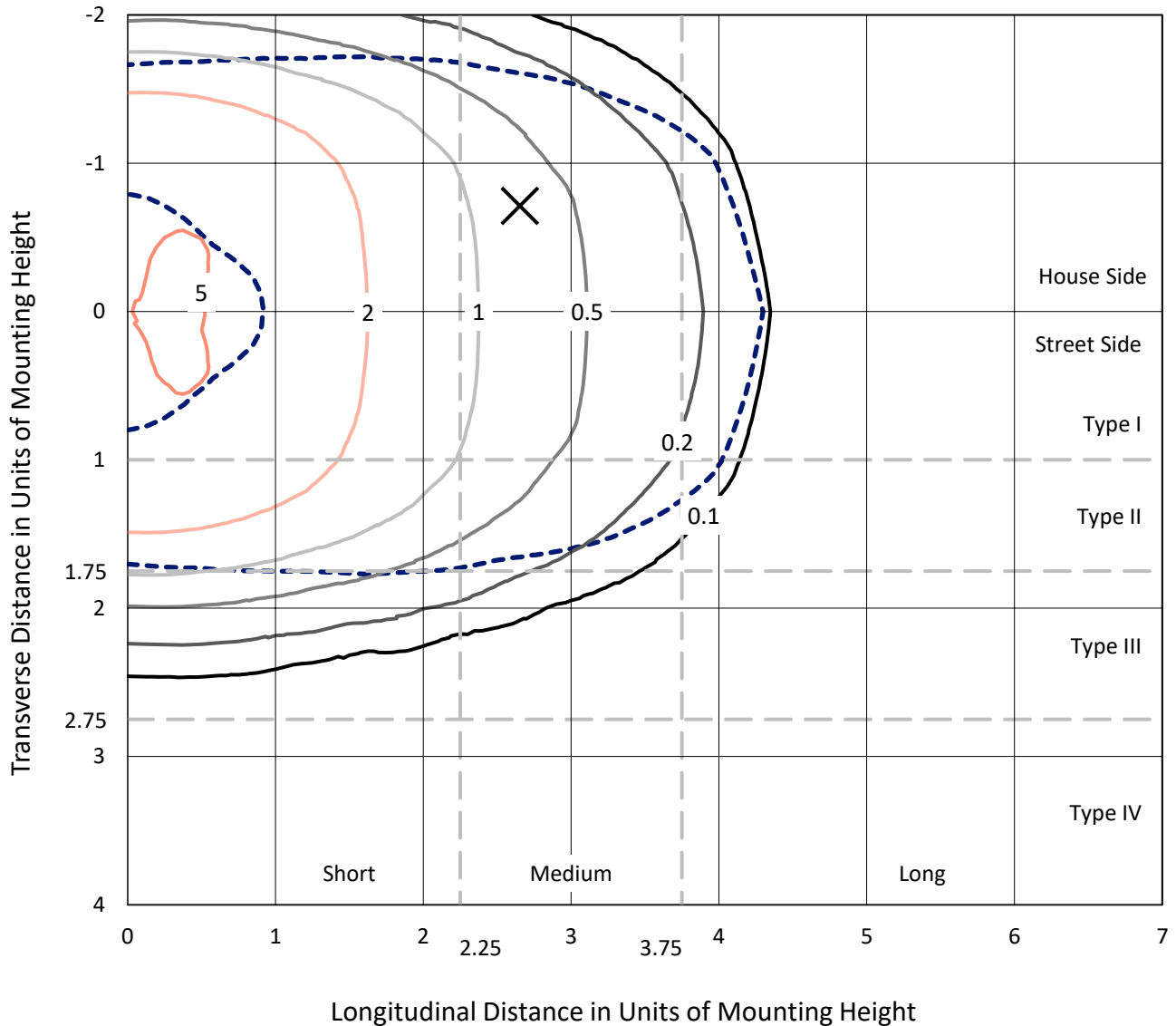
Lumens per Lamp: N/A  
Luminaire Lumens: 29956 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 218.1  
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

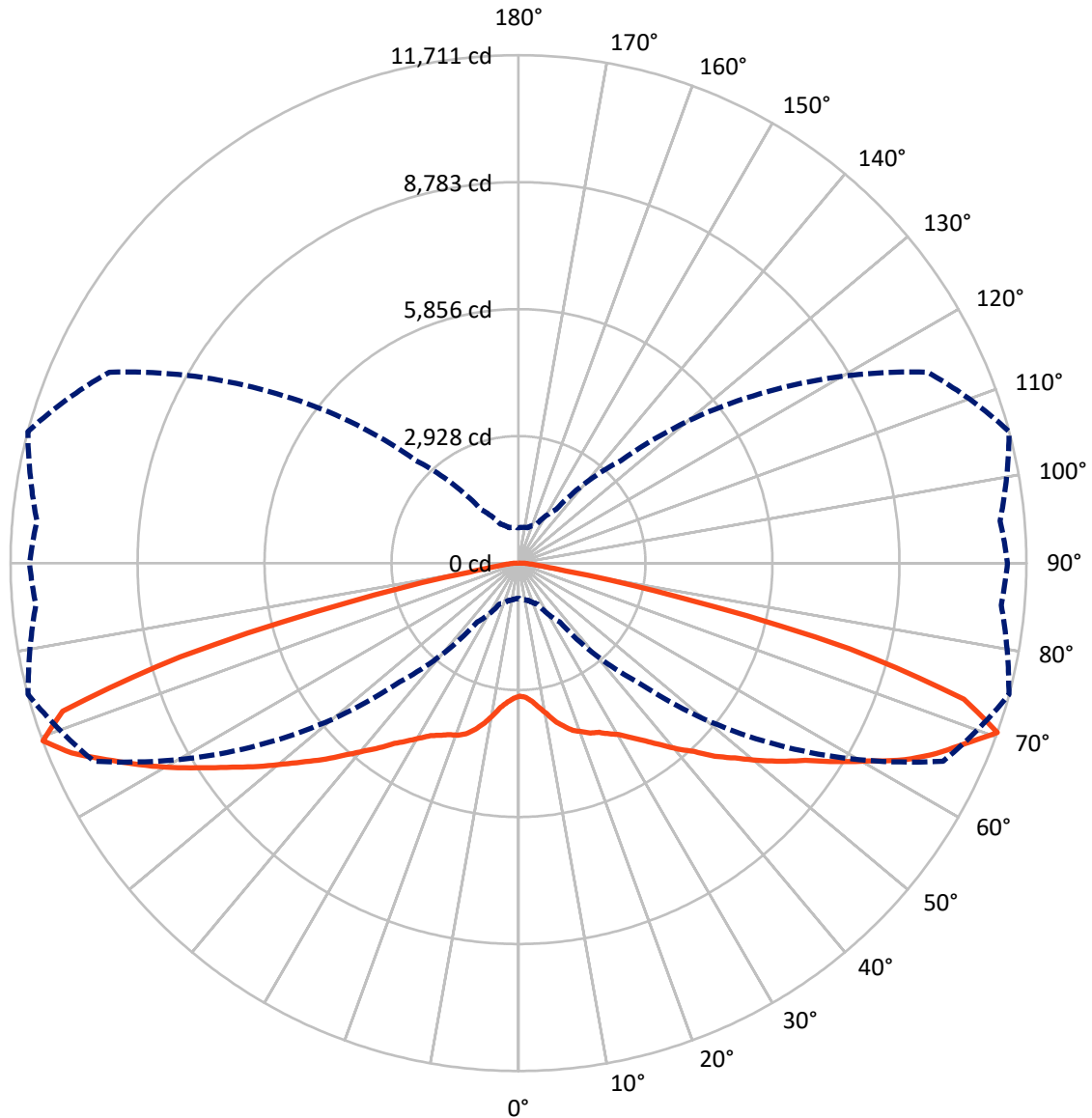
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14871.5	0.0	14871.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	15084.6	0.0	15084.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	29956.0	0.0	29956.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.3	1.0
10°-20°	1039.6	3.5
20°-30°	2013.0	6.7
30°-40°	3404.8	11.4
40°-50°	5431.6	18.1
50°-60°	7434.7	24.8
60°-70°	7007.7	23.4
70°-80°	3087.1	10.3
80°-90°	232.3	0.8
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°	29956.0	100.0
0°-180°	29956.0	100.0

**Coefficient of Utilization**

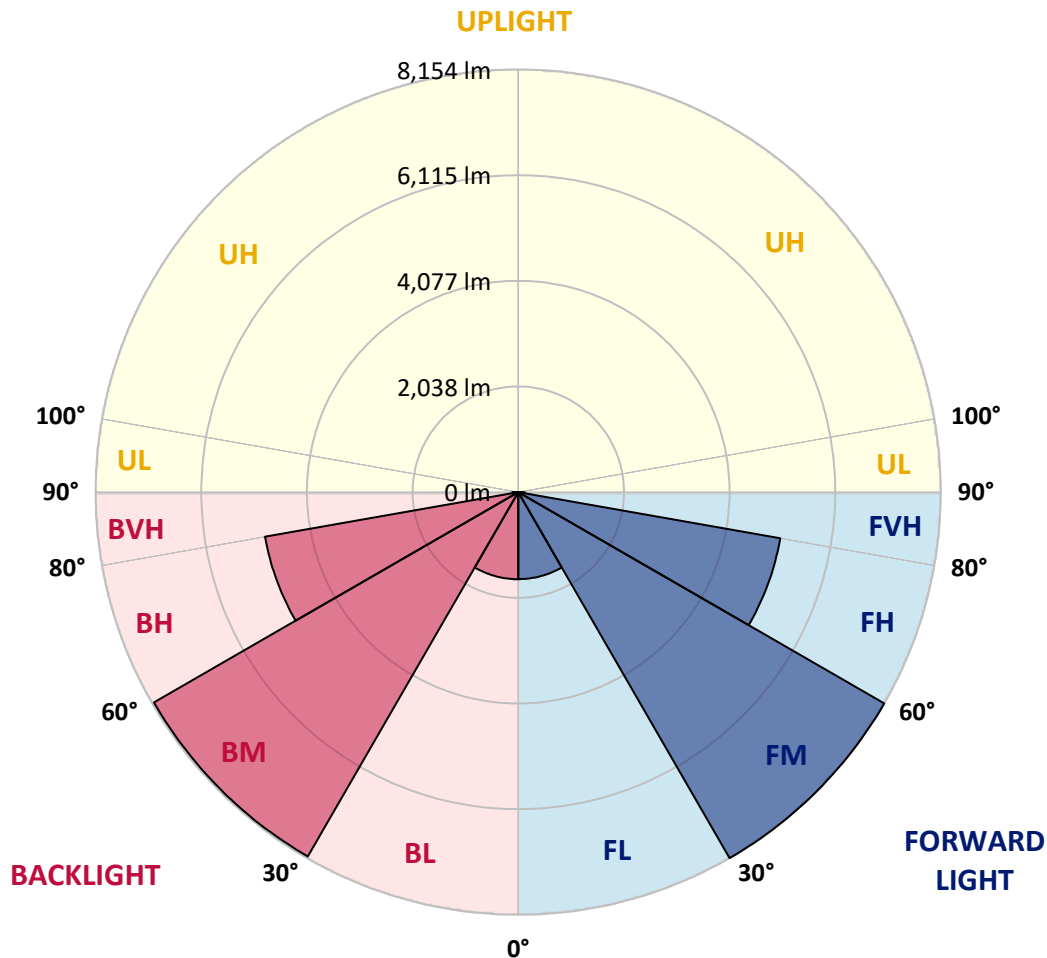


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.0	5.6			
FM (30°-60°)	8153.8	27.2			
FH (60°-80°)	5134.1	17.1			G3/7500
FVH (80°-90°)	118.7	0.4			G2/225
BL (0°-30°)	1679.8	5.6	B3/2500		
BM (30°-60°)	8117.3	27.1	B4/8500		
BH (60°-80°)	4960.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	113.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5
2.5°	3048.1	3048.1	3044.9	3061.0	3077.2	3083.6	3096.5	3099.8	3119.1	3103.0	3135.3
5°	3038.4	3035.2	3061.0	3099.8	3099.8	3141.7	3167.6	3203.1	3212.8	3232.1	3238.6
7.5°	3106.2	3099.8	3086.8	3128.8	3164.3	3228.9	3264.4	3325.8	3348.4	3374.2	3403.3
10°	3148.2	3148.2	3135.3	3209.5	3241.8	3329.0	3406.5	3467.9	3555.0	3584.1	3587.3
12.5°	3154.7	3164.3	3203.1	3300.0	3390.4	3503.4	3561.5	3677.7	3764.9	3819.8	3839.2
15°	3251.5	3232.1	3274.1	3406.5	3538.9	3639.0	3742.3	3826.3	3952.2	4023.2	4068.4
17.5°	3338.7	3319.3	3396.8	3555.0	3690.7	3845.6	3936.0	4026.5	4116.9	4181.4	4184.7
20°	3477.5	3493.7	3561.5	3732.6	3910.2	4045.8	4149.2	4165.3	4210.5	4304.1	4288.0
22.5°	3648.7	3635.8	3777.8	3965.1	4158.8	4271.9	4330.0	4288.0	4265.4	4365.5	4388.1
25°	3819.8	3858.6	3987.7	4162.1	4394.6	4546.3	4562.5	4446.2	4362.3	4397.8	4388.1
27.5°	4081.3	4087.8	4223.4	4430.1	4665.8	4798.2	4788.5	4623.8	4462.4	4465.6	4472.0
30°	4417.2	4384.9	4533.4	4720.7	4953.2	5072.6	5088.8	4853.1	4636.7	4572.1	4588.3
32.5°	4740.0	4778.8	4908.0	5121.1	5292.2	5360.0	5324.5	5114.6	4833.7	4746.5	4756.2
35°	5153.3	5146.9	5324.5	5505.3	5634.5	5647.4	5618.3	5311.6	5046.8	4933.8	4888.6
37.5°	5595.7	5653.8	5770.1	5918.6	6054.2	6060.7	5902.5	5657.1	5330.9	5143.7	5198.6
40°	6089.7	6154.3	6238.3	6454.6	6554.7	6451.4	6289.9	5957.3	5618.3	5453.6	5479.5
42.5°	6525.6	6554.7	6725.8	6980.9	7029.3	6984.1	6745.2	6341.6	5947.7	5766.8	5779.8
45°	6926.0	6964.8	7187.6	7416.8	7529.8	7452.3	7174.6	6790.4	6331.9	6176.9	6115.6
47.5°	7294.1	7371.6	7588.0	7823.7	7998.0	8004.5	7662.2	7197.3	6712.9	6509.5	6506.3
50°	7542.7	7655.8	7868.9	8136.9	8392.0	8492.0	8149.8	7649.3	7129.4	6913.1	6890.5
52.5°	7678.4	7794.6	8007.7	8424.2	8708.4	8863.4	8701.9	8072.3	7617.0	7391.0	7355.5
55°	7513.7	7591.2	7939.9	8524.3	8963.5	9218.6	9112.0	8656.7	8101.3	7917.3	7949.6
57.5°	6813.0	6974.5	7403.9	8133.6	8957.0	9583.4	9573.7	9208.9	8660.0	8485.6	8492.0
60°	5608.6	5744.2	6273.8	7294.1	8595.4	9732.0	10074.2	9744.9	9286.4	9082.9	9076.5
62.5°	3958.7	4129.8	4743.3	5857.3	7529.8	9525.3	10649.0	10419.7	9899.9	9751.3	9806.2
65°	2215.0	2318.4	2886.7	3894.1	5737.8	8388.7	10752.3	11120.4	10523.0	10297.0	10306.7
67.5°	1185.0	1223.8	1488.5	2043.9	3509.8	6467.5	9709.3	11524.0	11197.9	10807.2	10745.8
70°	813.7	826.6	894.4	1046.2	1659.7	3868.2	7323.2	10804.0	11704.8	11172.0	11275.4
72.5°	687.8	681.3	697.4	713.6	868.6	1730.7	4297.7	8314.5	11049.3	10849.2	10810.4
75°	597.3	594.1	600.6	584.4	603.8	762.0	1901.8	5182.4	8088.4	9028.0	9173.3
77.5°	494.0	497.3	500.5	484.3	477.9	503.7	765.3	2276.4	3981.3	4394.6	4740.0
80°	374.6	381.0	406.8	390.7	364.9	368.1	452.0	762.0	1143.0	1036.5	1068.8
82.5°	255.1	258.3	313.2	293.8	274.5	248.6	290.6	393.9	445.6	339.0	297.1
85°	180.8	177.6	203.4	187.3	174.4	125.9	174.4	222.8	268.0	167.9	151.8
87.5°	42.0	42.0	84.0	67.8	64.6	51.7	67.8	87.2	116.2	74.3	67.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5
2.5°	3125.6	3096.5	3096.5	3090.1	3064.2	3057.8	3035.2	3041.6	3025.5	3009.3
5°	3235.4	3196.6	3196.6	3141.7	3090.1	3083.6	3057.8	3057.8	3032.0	3038.4
7.5°	3387.1	3351.6	3293.5	3245.1	3174.0	3145.0	3096.5	3090.1	3083.6	3070.7
10°	3568.0	3522.7	3464.6	3364.5	3306.4	3251.5	3203.1	3135.3	3119.1	3122.4
12.5°	3813.3	3742.3	3616.4	3529.2	3454.9	3383.9	3312.9	3212.8	3190.2	3199.9
15°	3987.7	3897.3	3771.4	3739.1	3639.0	3551.8	3435.6	3322.6	3283.8	3274.1
17.5°	4129.8	4055.5	3981.3	3932.8	3852.1	3745.5	3584.1	3454.9	3367.8	3358.1
20°	4246.0	4149.2	4133.0	4162.1	4062.0	3990.9	3794.0	3635.8	3519.5	3471.1
22.5°	4317.1	4255.7	4300.9	4326.7	4320.3	4200.8	3997.4	3813.3	3668.0	3622.8
25°	4394.6	4323.5	4485.0	4572.1	4594.7	4397.8	4239.6	3997.4	3855.3	3826.3
27.5°	4433.3	4459.1	4646.4	4830.5	4814.3	4662.6	4449.4	4233.1	4120.1	4068.4
30°	4546.3	4588.3	4872.4	5079.1	5082.3	4933.8	4772.3	4526.9	4401.0	4378.4
32.5°	4749.7	4801.4	5104.9	5324.5	5363.2	5250.2	5088.8	4937.0	4807.9	4756.2
35°	4904.7	5037.1	5379.4	5579.6	5682.9	5615.1	5524.7	5366.5	5230.8	5185.6
37.5°	5127.5	5311.6	5640.9	5912.1	6028.4	6021.9	5954.1	5783.0	5670.0	5631.2
40°	5447.2	5631.2	5931.5	6289.9	6506.3	6496.6	6457.8	6325.4	6157.5	6138.2
42.5°	5786.2	5938.0	6328.7	6738.7	7048.7	7016.4	6913.1	6758.1	6641.9	6616.0
45°	6115.6	6351.3	6712.9	7239.2	7471.7	7552.4	7429.7	7165.0	7032.6	7016.4
47.5°	6528.9	6716.1	7168.2	7639.6	7985.1	7998.0	7788.1	7542.7	7300.6	7352.2
50°	6897.0	7145.6	7604.1	8120.7	8534.0	8385.5	8117.5	7810.7	7636.4	7568.6
52.5°	7290.9	7594.4	8127.2	8653.5	8882.7	8734.2	8298.3	7956.0	7691.3	7662.2
55°	7865.6	8023.9	8721.3	9124.9	9199.2	8886.0	8243.4	7759.1	7416.8	7332.9
57.5°	8450.1	8634.1	9244.4	9593.1	9515.6	8802.0	7888.2	7139.1	6690.3	6570.8
60°	9041.0	9267.0	9780.4	10100.0	9699.7	8224.0	6884.0	5918.6	5395.5	5289.0
62.5°	9699.7	9993.5	10452.0	10565.0	9154.0	7081.0	5463.3	4271.9	3742.3	3564.7
65°	10284.1	10584.4	11149.4	10468.1	7994.8	5282.5	3532.4	2441.1	2050.4	1908.3
67.5°	10765.2	11104.2	11381.9	9263.8	5854.0	3093.3	1840.5	1285.1	1139.8	1088.1
70°	11146.2	11711.3	10413.3	6809.8	3345.2	1507.9	994.5	846.0	826.6	813.7
72.5°	10813.6	10739.4	7775.2	3929.6	1465.9	829.8	720.0	697.4	694.2	697.4
75°	8844.0	7888.2	4649.6	1708.1	736.2	600.6	597.3	587.7	603.8	603.8
77.5°	4291.2	3752.0	1943.8	733.0	484.3	471.4	487.6	487.6	487.6	487.6
80°	994.5	1101.1	694.2	445.6	352.0	352.0	387.5	390.7	374.6	368.1
82.5°	339.0	452.0	381.0	280.9	232.5	261.5	293.8	300.3	248.6	251.9
85°	167.9	264.8	206.7	161.4	119.5	161.4	190.5	200.2	171.1	164.7
87.5°	77.5	116.2	77.5	54.9	42.0	58.1	54.9	45.2	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)