

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: P478996

Luminaire Tested: **IFLD-M-SA4B-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478996
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

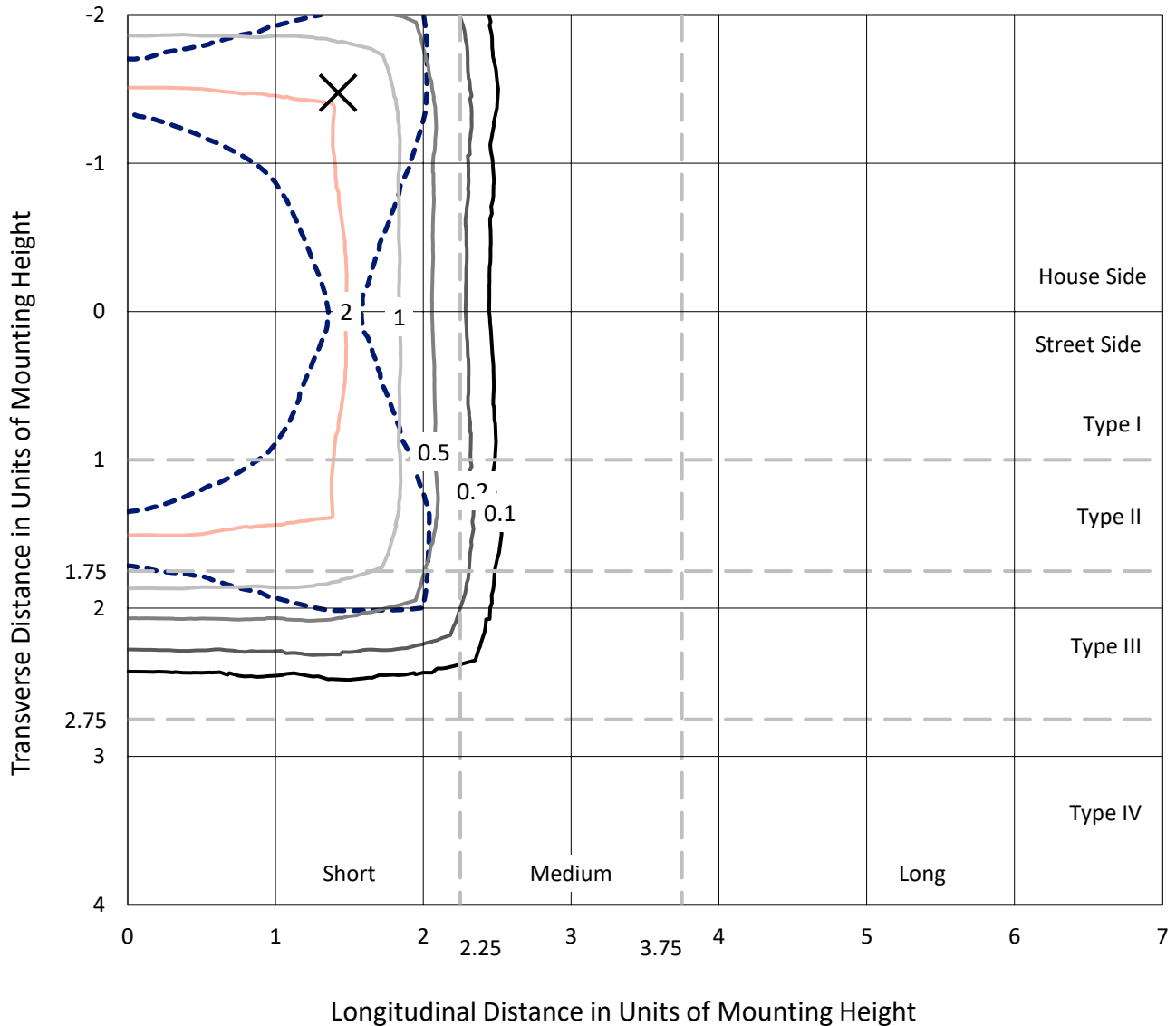
Lumens per Lamp: N/A
Luminaire Lumens: 23301.1 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

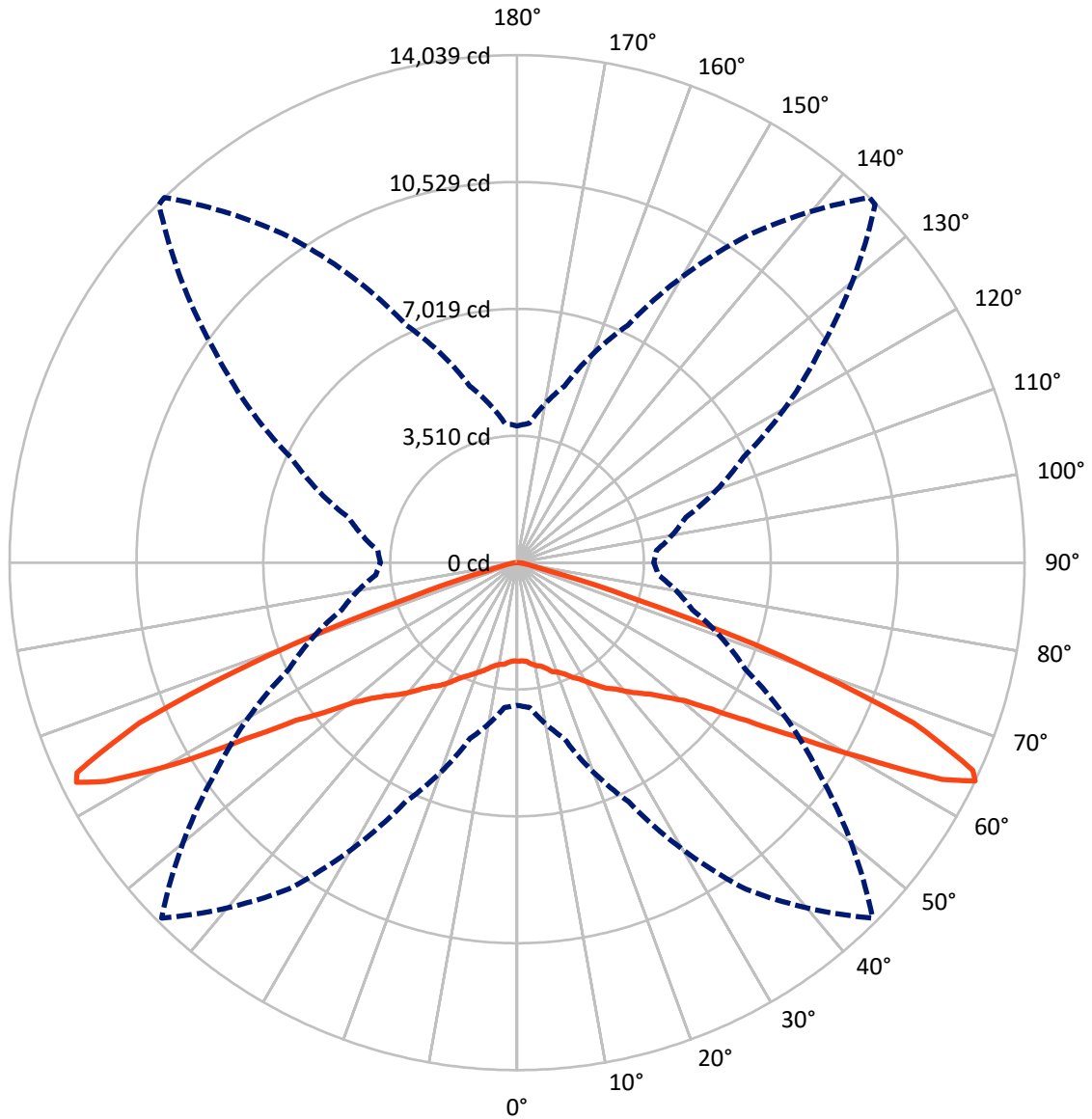
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11661.7	0.0	11661.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11639.4	0.0	11639.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	23301.1	0.0	23301.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	1.2
10°-20°	863.9	3.7
20°-30°	1623.7	7.0
30°-40°	2677.8	11.5
40°-50°	4187.8	18.0
50°-60°	6766.5	29.0
60°-70°	6092.8	26.1
70°-80°	721.7	3.1
80°-90°	98.8	0.4
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°	23301.1	100.0
0°-180°	23301.1	100.0

Coefficient of Utilization



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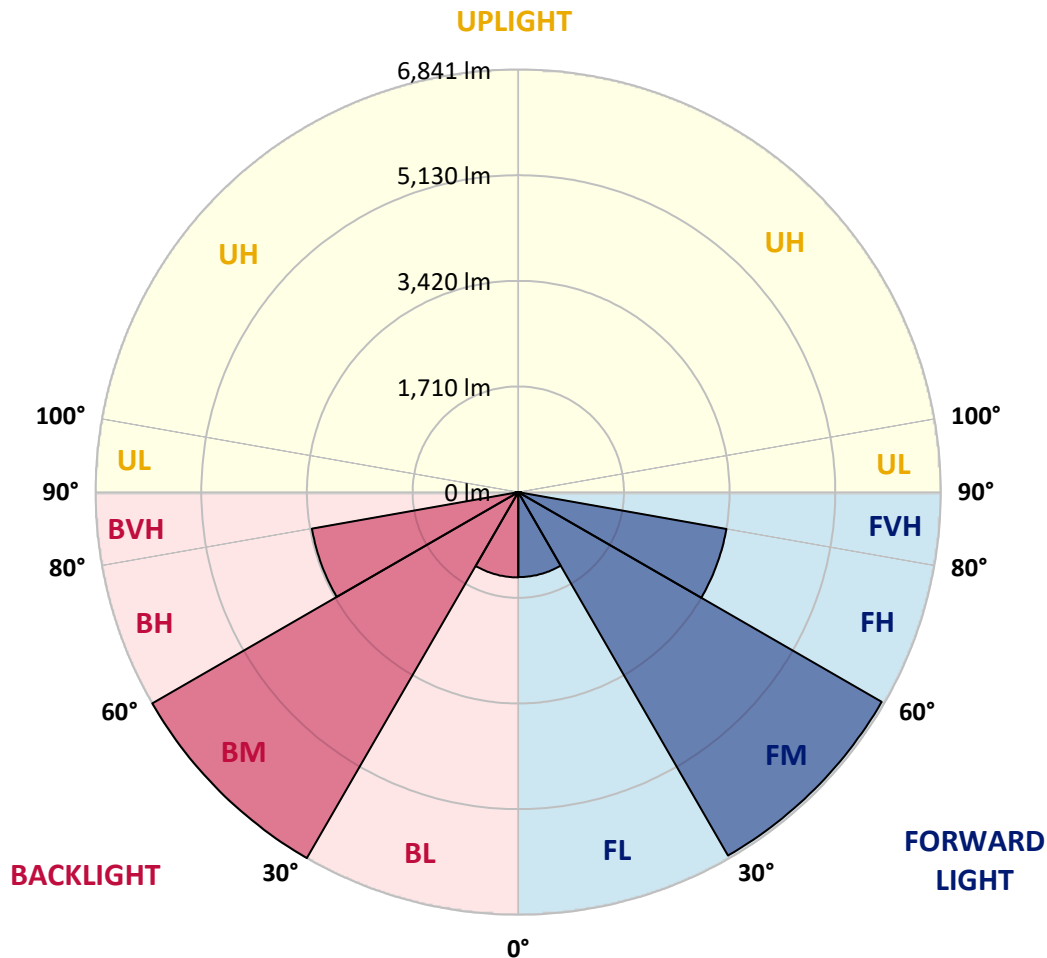
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.2	5.9			
FM (30°-60°)	6791.5	29.1			
FH (60°-80°)	3422.0	14.7			G2/5000
FVH (80°-90°)	50.7	0.2			G1/100
BL (0°-30°)	1380.5	5.9	B3/2500		
BM (30°-60°)	6840.6	29.4	B4/8500		
BH (60°-80°)	3392.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	48.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1
2.5°	2696.0	2701.4	2749.5	2730.8	2746.8	2717.4	2738.8	2784.2	2730.8	2770.8	2784.2
5°	2725.4	2733.4	2733.4	2752.1	2762.8	2757.5	2770.8	2752.1	2802.9	2781.5	2813.6
7.5°	2832.3	2818.9	2797.6	2813.6	2816.3	2829.6	2843.0	2867.0	2859.0	2840.3	2872.4
10°	2851.0	2840.3	2872.4	2875.0	2861.7	2851.0	2864.4	2864.4	2888.4	2893.7	2893.7
12.5°	2883.1	2893.7	2891.1	2912.4	2915.1	2907.1	2928.5	2968.6	2957.9	2965.9	2947.2
15°	3006.0	2992.6	2989.9	3011.3	3046.0	2995.3	3032.7	3030.0	3019.3	3035.4	2992.6
17.5°	3112.8	3070.1	3088.8	3123.5	3110.2	3120.9	3169.0	3126.2	3136.9	3118.2	3104.8
20°	3206.4	3171.6	3174.3	3187.7	3187.7	3219.7	3238.4	3222.4	3211.7	3209.0	3214.4
22.5°	3310.6	3270.5	3273.2	3329.3	3348.0	3337.3	3323.9	3350.6	3356.0	3334.6	3358.7
25°	3388.1	3430.8	3444.2	3470.9	3430.8	3460.2	3449.5	3500.3	3532.3	3489.6	3519.0
27.5°	3591.1	3572.4	3607.2	3604.5	3636.5	3607.2	3625.9	3641.9	3655.3	3657.9	3644.6
30°	3772.8	3780.8	3746.1	3839.6	3764.8	3812.9	3845.0	3853.0	3869.0	3869.0	3828.9
32.5°	3965.2	3949.2	4005.3	3983.9	3970.5	4008.0	3973.2	4082.8	4018.6	4056.0	4010.6
35°	4181.6	4181.6	4203.0	4261.8	4181.6	4157.6	4221.7	4267.1	4267.1	4200.3	4216.4
37.5°	4424.8	4403.4	4430.1	4504.9	4443.5	4363.3	4480.9	4499.6	4486.2	4467.5	4435.5
40°	4595.8	4590.4	4643.9	4742.7	4654.6	4638.5	4659.9	4710.7	4726.7	4745.4	4702.7
42.5°	4884.4	4908.4	5063.4	5039.3	4967.2	4911.1	4905.7	5095.4	5050.0	5001.9	4977.9
45°	5311.9	5290.5	5370.7	5373.3	5279.8	5156.9	5183.6	5357.3	5434.8	5327.9	5368.0
47.5°	5651.2	5661.9	5718.0	5832.9	5616.5	5488.2	5587.1	5867.6	5843.6	5803.5	5840.9
50°	6105.4	6153.5	6329.9	6289.8	6097.4	5939.8	6156.2	6420.7	6450.1	6303.2	6276.5
52.5°	6733.4	6808.2	6904.4	6936.4	6752.1	6696.0	6709.3	7038.0	6965.8	6824.2	6733.4
55°	7283.8	7318.5	7494.9	7759.4	7746.0	7476.2	7631.1	7754.1	7460.1	7168.9	7192.9
57.5°	7518.9	7535.0	8026.6	8555.6	8870.9	8932.4	8756.0	8341.9	7641.8	7080.7	7046.0
60°	6933.8	7086.1	7679.2	8873.6	10313.8	11024.5	9851.5	8408.7	7217.0	6535.6	6484.9
62.5°	5541.7	5549.7	6431.4	8243.0	11211.6	13073.9	10271.0	7780.8	6084.1	5311.9	5108.8
64°	3946.5	4021.3	5034.0	7297.1	11024.5	13907.6	10220.3	6960.5	5015.3	3919.8	3778.2
65°	2832.3	2936.5	3914.4	6335.2	10586.3	13808.7	10068.0	6255.1	4056.0	2992.6	2848.3
67.5°	1042.1	1084.8	1536.4	3169.0	7601.8	11767.4	7978.5	3438.8	1782.2	1269.2	1140.9
70°	483.6	486.3	569.1	1047.4	3323.9	7868.9	3807.6	1290.6	670.7	531.7	494.3
72.5°	355.4	363.4	398.1	483.6	977.9	3331.9	1250.5	529.0	392.8	347.4	339.3
75°	288.6	293.9	304.6	350.0	451.6	892.4	507.7	366.1	312.6	280.6	269.9
77.5°	221.8	221.8	245.8	267.2	299.3	416.8	336.7	291.2	253.8	221.8	213.8
80°	160.3	163.0	192.4	208.4	203.1	275.2	243.1	240.5	208.4	173.7	160.3
82.5°	93.5	101.5	138.9	149.6	144.3	163.0	176.3	187.0	163.0	120.2	109.6
85°	53.4	56.1	80.2	82.8	82.8	77.5	101.5	112.2	109.6	74.8	66.8
87.5°	16.0	16.0	21.4	21.4	24.0	26.7	40.1	48.1	53.4	37.4	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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1
2.5°	2770.8	2730.8	2733.4	2744.1	2709.4	2722.7	2762.8	2733.4	2725.4	2709.4	2701.4
5°	2757.5	2800.2	2784.2	2789.5	2781.5	2744.1	2738.8	2762.8	2776.2	2752.1	2800.2
7.5°	2851.0	2832.3	2810.9	2818.9	2800.2	2832.3	2853.7	2805.6	2829.6	2816.3	2789.5
10°	2904.4	2869.7	2885.7	2880.4	2867.0	2899.1	2877.7	2872.4	2851.0	2821.6	2864.4
12.5°	2923.1	2963.2	2989.9	2944.5	2952.5	2936.5	2923.1	2923.1	2899.1	2891.1	2899.1
15°	3006.0	3040.7	3030.0	3064.7	3019.3	3035.4	3051.4	3011.3	3032.7	2973.9	3019.3
17.5°	3158.3	3128.9	3166.3	3120.9	3136.9	3169.0	3118.2	3118.2	3134.2	3102.2	3062.1
20°	3254.5	3241.1	3227.7	3230.4	3203.7	3233.1	3217.1	3209.0	3185.0	3195.7	3217.1
22.5°	3345.3	3326.6	3331.9	3340.0	3358.7	3345.3	3337.3	3345.3	3286.5	3340.0	3265.1
25°	3457.5	3508.3	3492.3	3527.0	3473.6	3508.3	3505.6	3454.9	3486.9	3465.5	3449.5
27.5°	3644.6	3617.8	3641.9	3599.1	3636.5	3639.2	3607.2	3692.7	3655.3	3649.9	3639.2
30°	3885.0	3866.3	3850.3	3826.3	3855.7	3831.6	3858.3	3866.3	3831.6	3804.9	3754.1
32.5°	4021.3	4072.1	4090.8	4032.0	4034.7	4048.0	4024.0	3999.9	4021.3	4029.3	4021.3
35°	4213.7	4261.8	4272.5	4227.1	4203.0	4269.8	4221.7	4301.9	4232.4	4235.1	4162.9
37.5°	4438.1	4451.5	4542.3	4491.6	4470.2	4438.1	4526.3	4515.6	4531.7	4403.4	4467.5
40°	4692.0	4740.1	4790.8	4662.6	4659.9	4689.3	4684.0	4745.4	4716.0	4697.3	4651.9
42.5°	4969.9	5071.4	5079.4	4993.9	4940.5	4935.1	4961.8	5098.1	5100.8	4977.9	4924.4
45°	5338.6	5450.8	5421.4	5255.8	5197.0	5189.0	5319.9	5378.7	5429.4	5381.3	5335.9
47.5°	5798.2	5873.0	5851.6	5699.3	5509.6	5563.0	5691.3	5875.7	5822.2	5758.1	5704.7
50°	6289.8	6378.0	6332.6	6180.3	5998.6	5998.6	6156.2	6391.3	6375.3	6249.7	6201.6
52.5°	6834.9	6963.2	7067.4	6850.9	6698.6	6722.7	6971.2	7056.7	7016.6	6928.4	6888.3
55°	7241.0	7486.9	7700.6	7711.3	7719.3	7716.6	7780.8	7866.3	7580.4	7438.8	7294.5
57.5°	7142.2	7607.1	8339.2	8836.2	8983.2	9060.6	9039.3	8643.8	7967.8	7502.9	7551.0
60°	6436.8	7195.6	8376.6	9971.8	11040.6	10933.7	10543.6	8980.5	7754.1	6968.5	6869.6
62.5°	5135.5	6049.3	7748.7	10292.4	13236.9	13204.9	11163.5	8202.9	6460.8	5466.8	5405.4
64°	3869.0	4830.9	6912.4	10209.6	14006.5	14038.5	11005.8	7246.4	5055.4	3869.0	3775.5
65°	2960.5	3853.0	6092.1	10038.6	13840.8	13859.5	10567.6	6257.8	3842.3	2746.8	2645.2
67.5°	1178.3	1640.6	3305.2	7612.4	11884.9	11834.1	7540.3	3027.3	1469.6	956.6	937.9
70°	502.3	625.2	1159.6	3607.2	7957.1	7810.2	3246.4	983.3	545.1	456.9	454.2
72.5°	344.7	382.1	497.0	1114.2	3307.9	3230.4	924.5	456.9	371.4	342.0	342.0
75°	277.9	304.6	360.7	467.6	876.4	844.3	435.5	336.7	296.6	275.2	272.5
77.5°	216.4	243.1	283.2	323.3	400.8	398.1	291.2	253.8	229.8	213.8	208.4
80°	171.0	197.7	224.4	229.8	261.9	256.5	197.7	200.4	187.0	155.0	152.3
82.5°	117.6	160.3	179.0	163.0	155.0	155.0	141.6	141.6	130.9	96.2	88.2
85°	72.1	106.9	112.2	96.2	72.1	72.1	77.5	74.8	69.5	50.8	48.1
87.5°	37.4	50.8	45.4	37.4	24.0	24.0	21.4	16.0	16.0	13.4	13.4
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)