

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: P478957

Luminaire Tested: **IFLD-M-SA4B-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478957
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

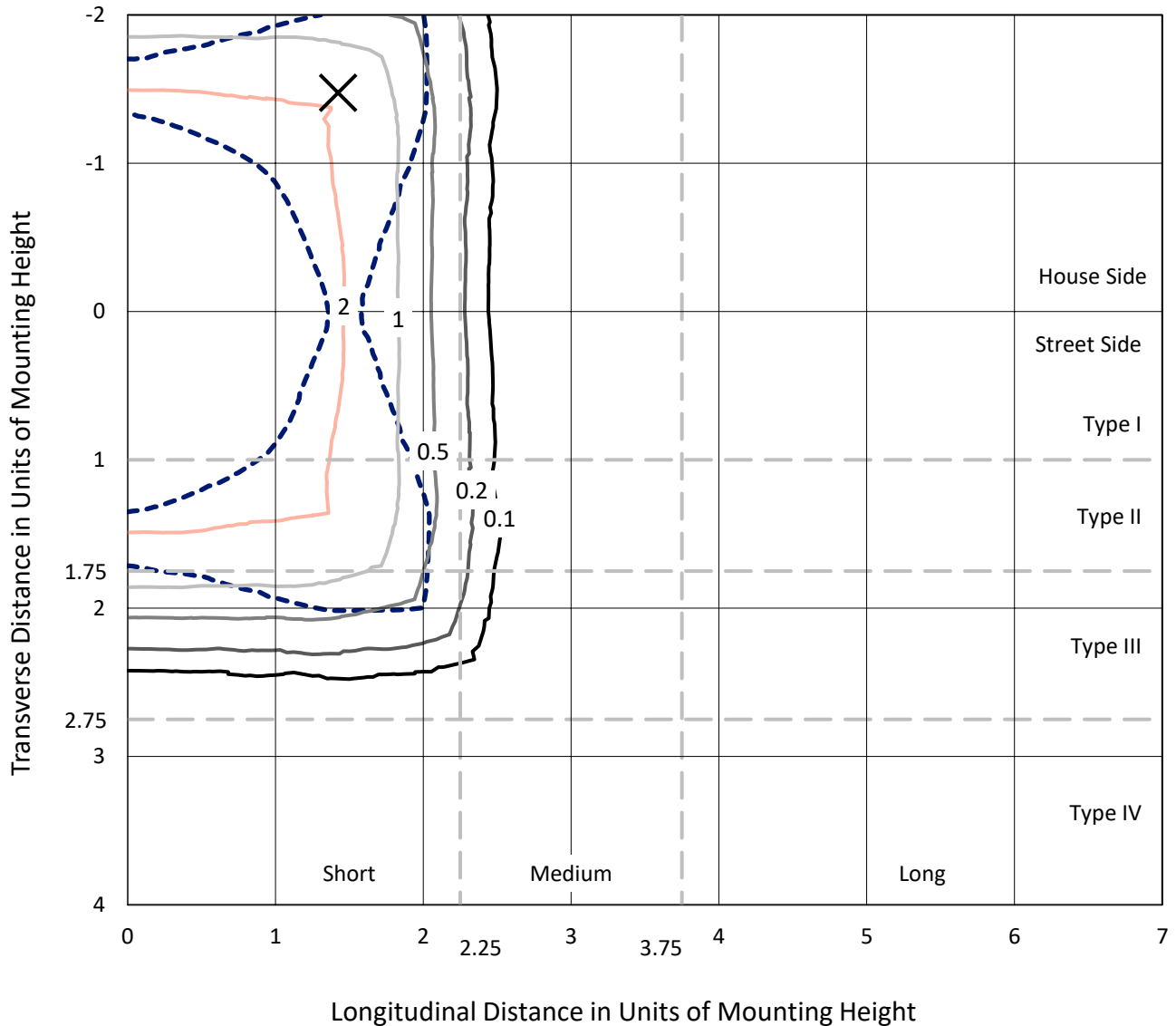
Lumens per Lamp: N/A
Luminaire Lumens: 22779.5 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

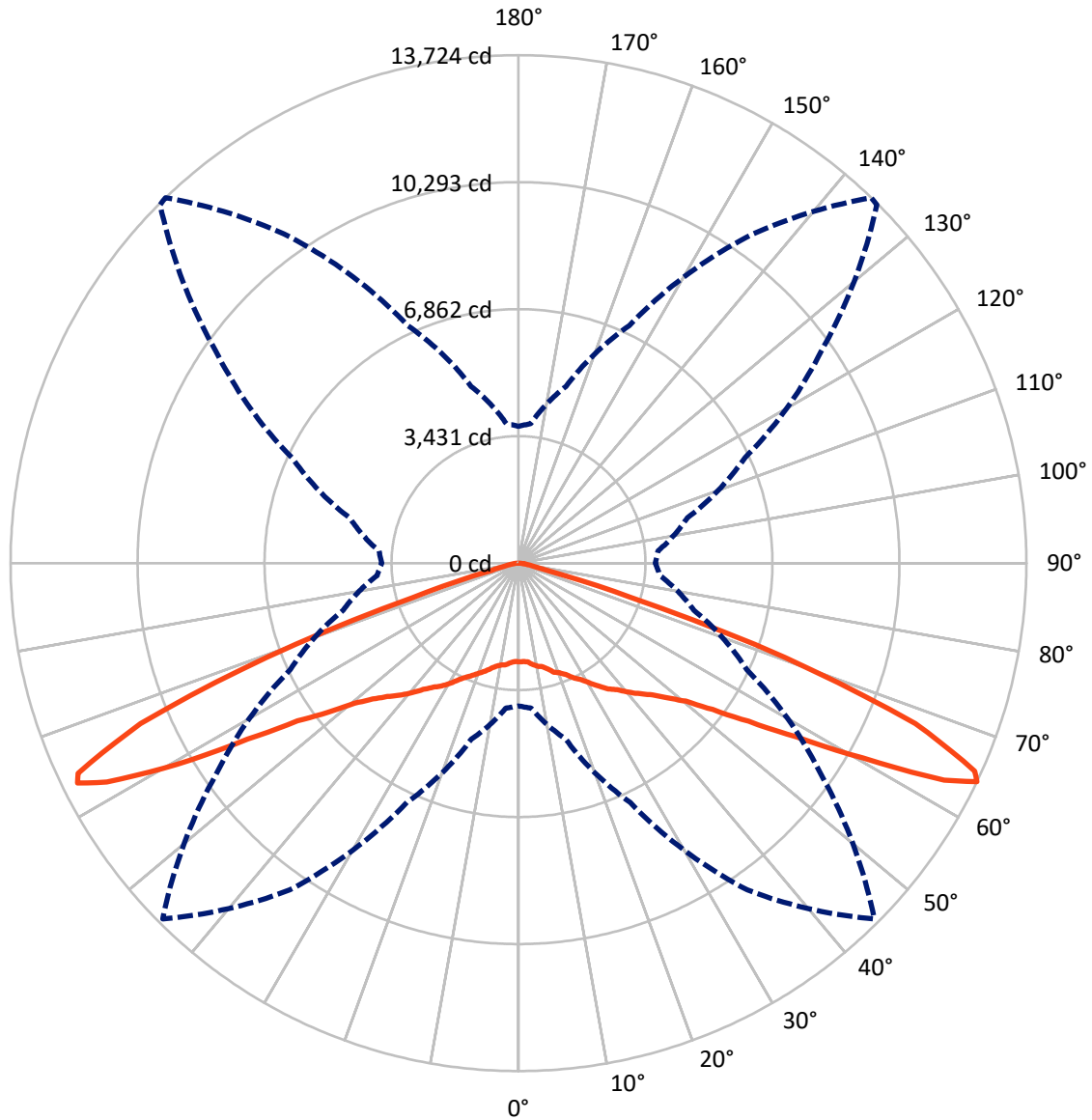
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	11400.6	0.0	11400.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11378.9	0.0	11378.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	22779.5	0.0	22779.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	1.2
10°-20°	844.6	3.7
20°-30°	1587.3	7.0
30°-40°	2617.8	11.5
40°-50°	4094.1	18.0
50°-60°	6615.0	29.0
60°-70°	5956.4	26.1
70°-80°	705.6	3.1
80°-90°	96.6	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°	22779.5	100.0
0°-180°	22779.5	100.0

Coefficient of Utilization



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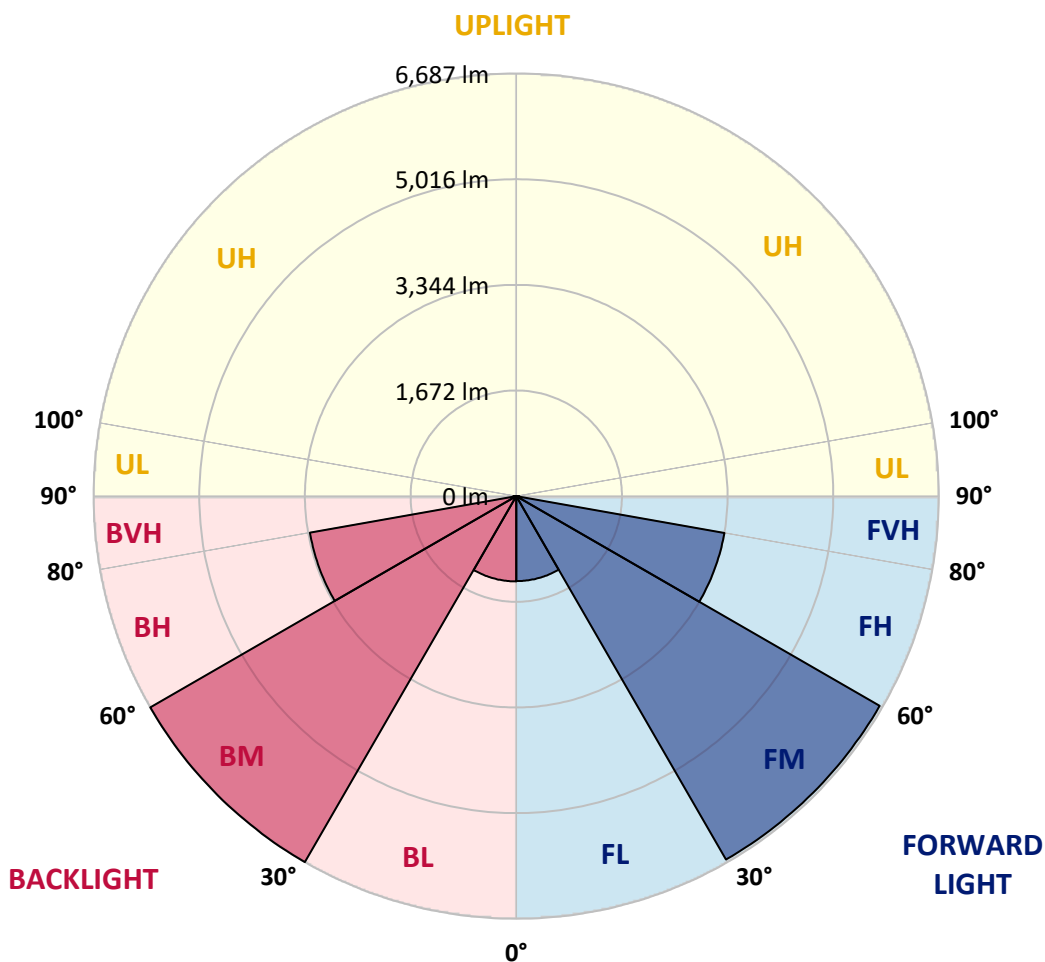
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.4	5.9			
FM (30°-60°)	6639.5	29.1			
FH (60°-80°)	3345.4	14.7			G2/5000
FVH (80°-90°)	49.5	0.2			G1/100
BL (0°-30°)	1349.6	5.9	B3/2500		
BM (30°-60°)	6687.4	29.4	B4/8500		
BH (60°-80°)	3316.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	47.0	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°	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0
2.5°	2635.7	2640.9	2687.9	2669.6	2685.3	2656.6	2677.5	2721.9	2669.6	2708.8	2721.9
5°	2664.4	2672.2	2672.2	2690.5	2701.0	2695.7	2708.8	2690.5	2740.1	2719.2	2750.6
7.5°	2768.9	2755.8	2734.9	2750.6	2753.2	2766.3	2779.3	2802.8	2795.0	2776.7	2808.1
10°	2787.2	2776.7	2808.1	2810.7	2797.6	2787.2	2800.2	2800.2	2823.7	2829.0	2829.0
12.5°	2818.5	2829.0	2826.3	2847.2	2849.9	2842.0	2862.9	2902.1	2891.7	2899.5	2881.2
15°	2938.7	2925.6	2923.0	2943.9	2977.9	2928.2	2964.8	2962.2	2951.7	2967.4	2925.6
17.5°	3043.2	3001.4	3019.6	3053.6	3040.5	3051.0	3098.0	3056.2	3066.7	3048.4	3035.3
20°	3134.6	3100.6	3103.2	3116.3	3116.3	3147.6	3165.9	3150.3	3139.8	3137.2	3142.4
22.5°	3236.5	3197.3	3199.9	3254.7	3273.0	3262.6	3249.5	3275.6	3280.9	3260.0	3283.5
25°	3312.2	3354.0	3367.1	3393.2	3354.0	3382.7	3372.3	3421.9	3453.3	3411.5	3440.2
27.5°	3510.7	3492.4	3526.4	3523.8	3555.1	3526.4	3544.7	3560.4	3573.4	3576.0	3563.0
30°	3688.4	3696.2	3662.2	3753.7	3680.5	3727.5	3758.9	3766.7	3782.4	3782.4	3743.2
32.5°	3876.4	3860.8	3915.6	3894.7	3881.7	3918.2	3884.3	3991.4	3928.7	3965.2	3920.8
35°	4088.0	4088.0	4108.9	4166.4	4088.0	4064.5	4127.2	4171.6	4171.6	4106.3	4122.0
37.5°	4325.7	4304.8	4330.9	4404.1	4344.0	4265.6	4380.6	4398.9	4385.8	4367.5	4336.2
40°	4492.9	4487.7	4539.9	4636.6	4550.4	4534.7	4555.6	4605.2	4620.9	4639.2	4597.4
42.5°	4775.0	4798.5	4950.0	4926.5	4856.0	4801.1	4795.9	4981.4	4937.0	4889.9	4866.4
45°	5193.0	5172.1	5250.4	5253.0	5161.6	5041.5	5067.6	5237.4	5313.1	5208.6	5247.8
47.5°	5524.7	5535.1	5590.0	5702.3	5490.7	5365.4	5462.0	5736.3	5712.8	5673.6	5710.2
50°	5968.8	6015.8	6188.2	6149.0	5960.9	5806.8	6018.4	6277.0	6305.7	6162.1	6135.9
52.5°	6582.6	6655.8	6749.8	6781.1	6600.9	6546.0	6559.1	6880.4	6809.9	6671.4	6582.6
55°	7120.7	7154.7	7327.1	7585.7	7572.6	7308.8	7460.3	7580.5	7293.1	7008.4	7031.9
57.5°	7350.6	7366.3	7846.9	8364.1	8672.3	8732.4	8560.0	8155.1	7470.8	6922.2	6888.2
60°	6778.5	6927.4	7507.3	8675.0	10082.9	10777.7	9631.0	8220.4	7055.4	6389.3	6339.7
62.5°	5417.6	5425.4	6287.4	8058.5	10960.6	12781.3	10041.1	7606.6	5947.9	5193.0	4994.4
64°	3858.1	3931.3	4921.3	7133.8	10777.7	13596.2	9991.5	6804.7	4903.0	3832.0	3693.6
65°	2768.9	2870.8	3826.8	6193.4	10349.3	13499.6	9842.6	6115.0	3965.2	2925.6	2784.6
67.5°	1018.7	1060.5	1502.0	3098.0	7431.6	11503.9	7799.9	3361.8	1742.3	1240.8	1115.4
70°	472.8	475.4	556.4	1024.0	3249.5	7692.8	3722.3	1261.7	655.6	519.8	483.2
72.5°	347.4	355.3	389.2	472.8	956.0	3257.4	1222.5	517.2	384.0	339.6	331.7
75°	282.1	287.3	297.8	342.2	441.5	872.5	496.3	357.9	305.6	274.3	263.8
77.5°	216.8	216.8	240.3	261.2	292.6	407.5	329.1	284.7	248.2	216.8	209.0
80°	156.7	159.3	188.1	203.7	198.5	269.1	237.7	235.1	203.7	169.8	156.7
82.5°	91.4	99.3	135.8	146.3	141.1	159.3	172.4	182.9	159.3	117.5	107.1
85°	52.2	54.9	78.4	81.0	81.0	75.8	99.3	109.7	107.1	73.1	65.3
87.5°	15.7	15.7	20.9	20.9	23.5	26.1	39.2	47.0	52.2	36.6	34.0
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°	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0
2.5°	2708.8	2669.6	2672.2	2682.7	2648.7	2661.8	2701.0	2672.2	2664.4	2648.7	2640.9
5°	2695.7	2737.5	2721.9	2727.1	2719.2	2682.7	2677.5	2701.0	2714.0	2690.5	2737.5
7.5°	2787.2	2768.9	2748.0	2755.8	2737.5	2768.9	2789.8	2742.8	2766.3	2753.2	2727.1
10°	2839.4	2805.4	2821.1	2815.9	2802.8	2834.2	2813.3	2808.1	2787.2	2758.4	2800.2
12.5°	2857.7	2896.9	2923.0	2878.6	2886.4	2870.8	2857.7	2857.7	2834.2	2826.3	2834.2
15°	2938.7	2972.6	2962.2	2996.1	2951.7	2967.4	2983.1	2943.9	2964.8	2907.3	2951.7
17.5°	3087.6	3058.8	3095.4	3051.0	3066.7	3098.0	3048.4	3048.4	3064.1	3032.7	2993.5
20°	3181.6	3168.5	3155.5	3158.1	3132.0	3160.7	3145.0	3137.2	3113.7	3124.1	3145.0
22.5°	3270.4	3252.1	3257.4	3265.2	3283.5	3270.4	3262.6	3270.4	3212.9	3265.2	3192.0
25°	3380.1	3429.8	3414.1	3448.0	3395.8	3429.8	3427.1	3377.5	3408.9	3388.0	3372.3
27.5°	3563.0	3536.9	3560.4	3518.6	3555.1	3557.7	3526.4	3610.0	3573.4	3568.2	3557.7
30°	3798.1	3779.8	3764.1	3740.6	3769.3	3745.8	3771.9	3779.8	3745.8	3719.7	3670.1
32.5°	3931.3	3980.9	3999.2	3941.7	3944.3	3957.4	3933.9	3910.4	3931.3	3939.1	3931.3
35°	4119.4	4166.4	4176.8	4132.4	4108.9	4174.2	4127.2	4205.6	4137.6	4140.3	4069.7
37.5°	4338.8	4351.8	4440.7	4391.0	4370.1	4338.8	4425.0	4414.5	4430.2	4304.8	4367.5
40°	4586.9	4634.0	4683.6	4558.2	4555.6	4584.3	4579.1	4639.2	4610.4	4592.2	4547.8
42.5°	4858.6	4957.9	4965.7	4882.1	4829.9	4824.6	4850.8	4984.0	4986.6	4866.4	4814.2
45°	5219.1	5328.8	5300.1	5138.1	5080.6	5072.8	5200.8	5258.3	5307.9	5260.9	5216.5
47.5°	5668.4	5741.5	5720.6	5571.7	5386.3	5438.5	5563.9	5744.1	5691.9	5629.2	5576.9
50°	6149.0	6235.2	6190.8	6041.9	5864.3	5864.3	6018.4	6248.3	6232.6	6109.8	6062.8
52.5°	6681.9	6807.3	6909.1	6697.6	6548.7	6572.2	6815.1	6898.7	6859.5	6773.3	6734.1
55°	7078.9	7319.2	7528.2	7538.7	7546.5	7543.9	7606.6	7690.2	7410.7	7272.2	7131.2
57.5°	6982.3	7436.8	8152.5	8638.4	8782.1	8857.8	8836.9	8450.3	7789.4	7334.9	7381.9
60°	6292.7	7034.5	8189.1	9748.5	10793.4	10688.9	10307.5	8779.4	7580.5	6812.5	6715.8
62.5°	5020.6	5913.9	7575.2	10062.0	12940.6	12909.2	10913.6	8019.3	6316.2	5344.5	5284.4
64°	3782.4	4722.8	6757.6	9981.0	13692.9	13724.2	10759.4	7084.2	4942.2	3782.4	3691.0
65°	2894.3	3766.7	5955.7	9813.8	13530.9	13549.2	10331.1	6117.7	3756.3	2685.3	2586.0
67.5°	1152.0	1603.9	3231.2	7442.0	11618.8	11569.2	7371.5	2959.6	1436.7	935.1	916.9
70°	491.1	611.2	1133.7	3526.4	7779.0	7635.3	3173.8	961.3	532.9	446.7	444.1
72.5°	337.0	373.5	485.9	1089.3	3233.8	3158.1	903.8	446.7	363.1	334.4	334.4
75°	271.7	297.8	352.6	457.1	856.8	825.4	425.8	329.1	289.9	269.1	266.4
77.5°	211.6	237.7	276.9	316.1	391.8	389.2	284.7	248.2	224.6	209.0	203.7
80°	167.2	193.3	219.4	224.6	256.0	250.8	193.3	195.9	182.9	151.5	148.9
82.5°	114.9	156.7	175.0	159.3	151.5	151.5	138.4	138.4	128.0	94.0	86.2
85°	70.5	104.5	109.7	94.0	70.5	70.5	75.8	73.1	67.9	49.6	47.0
87.5°	36.6	49.6	44.4	36.6	23.5	23.5	20.9	15.7	15.7	13.1	13.1
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)