

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: P478880

Luminaire Tested: **IFLD-M-SA4C-730-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478880  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-730-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

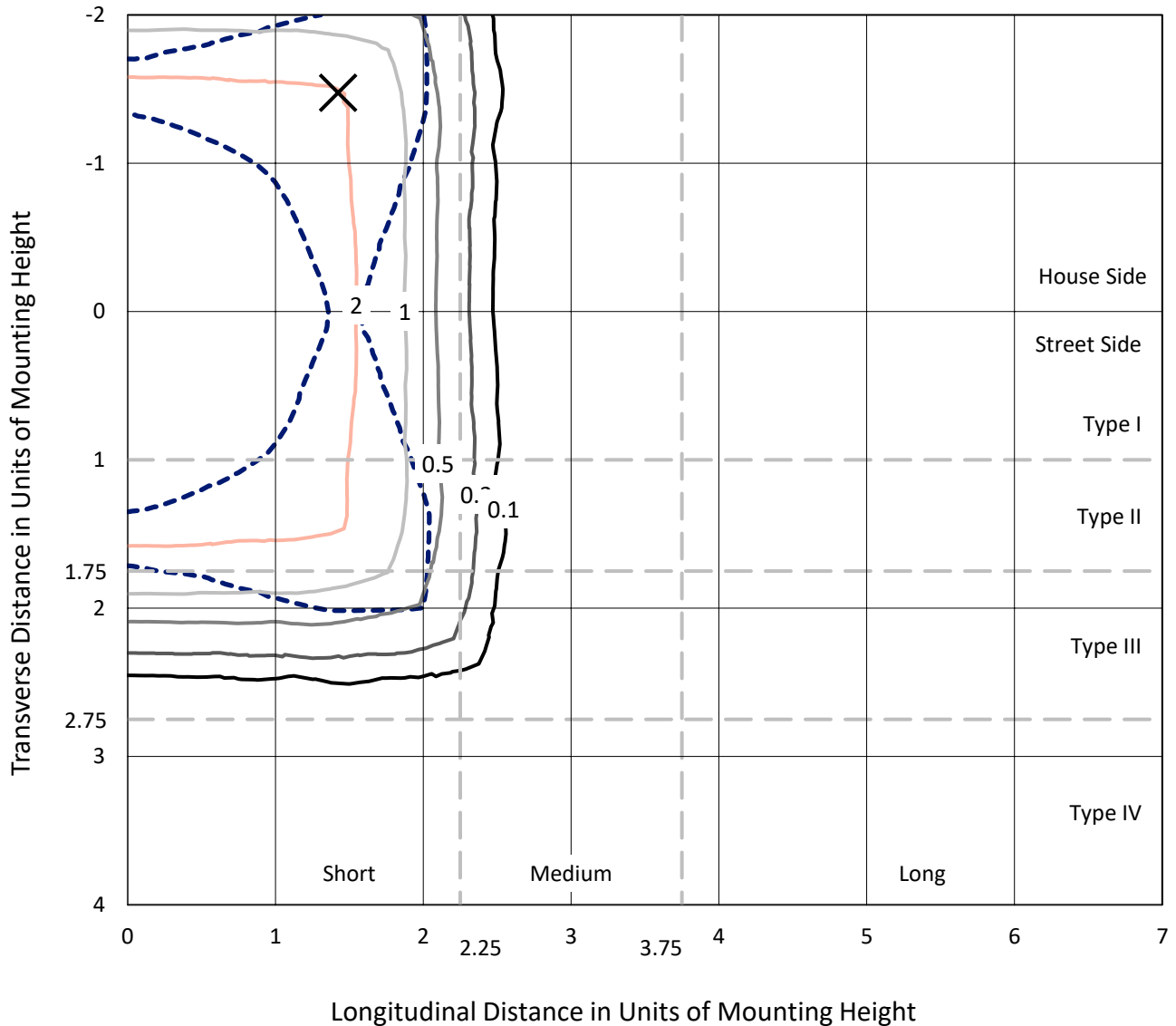
Lumens per Lamp: N/A  
Luminaire Lumens: 25821.9 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

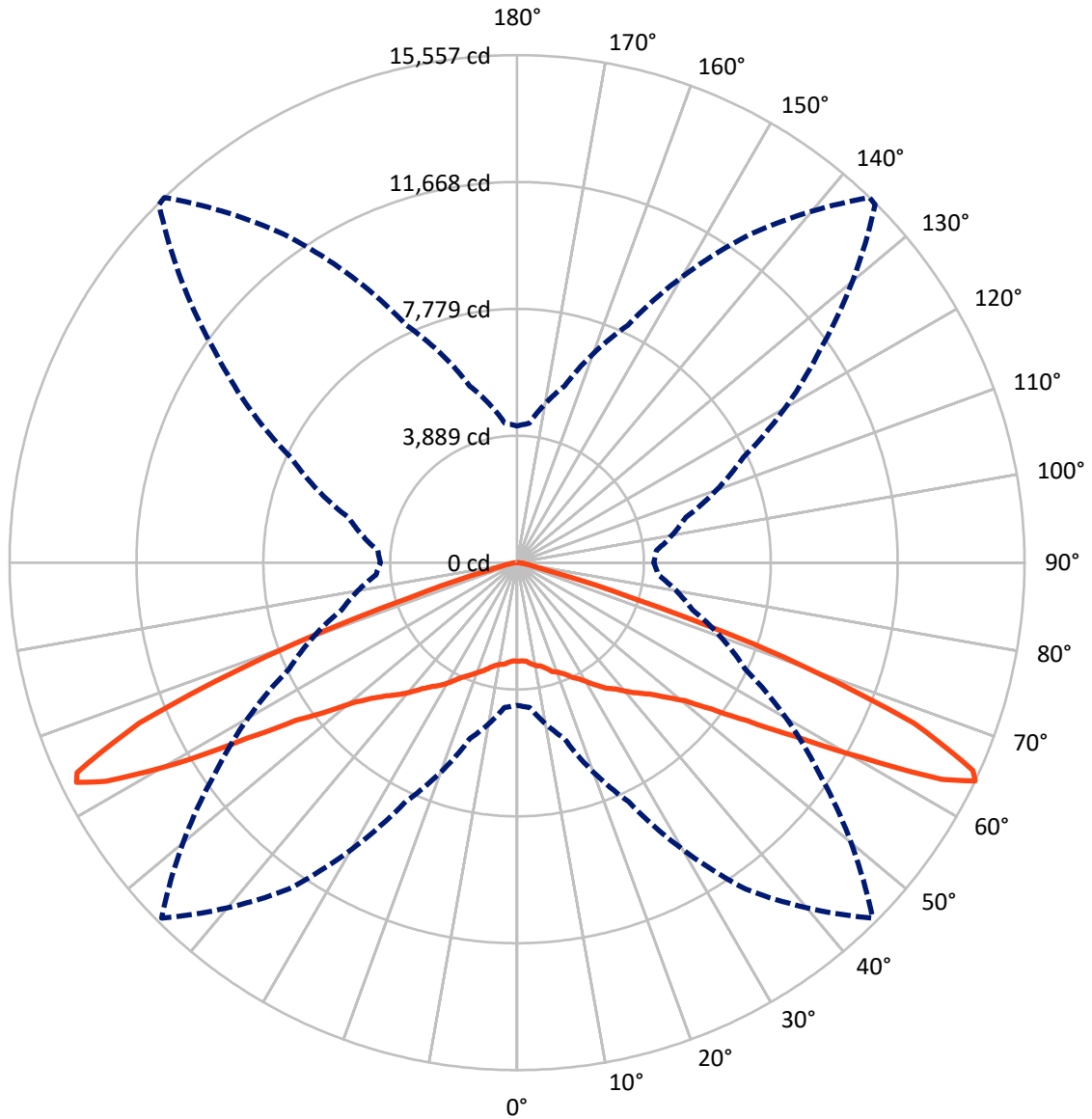
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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
<b>House Side</b>	Lumens	12923.3	0.0	12923.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12898.6	0.0	12898.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25821.9	0.0	25821.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.1	1.2
10°-20°	957.4	3.7
20°-30°	1799.4	7.0
30°-40°	2967.4	11.5
40°-50°	4640.9	18.0
50°-60°	7498.5	29.0
60°-70°	6751.9	26.1
70°-80°	799.8	3.1
80°-90°	109.5	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°	25821.9	100.0
0°-180°	25821.9	100.0

**Coefficient of Utilization**



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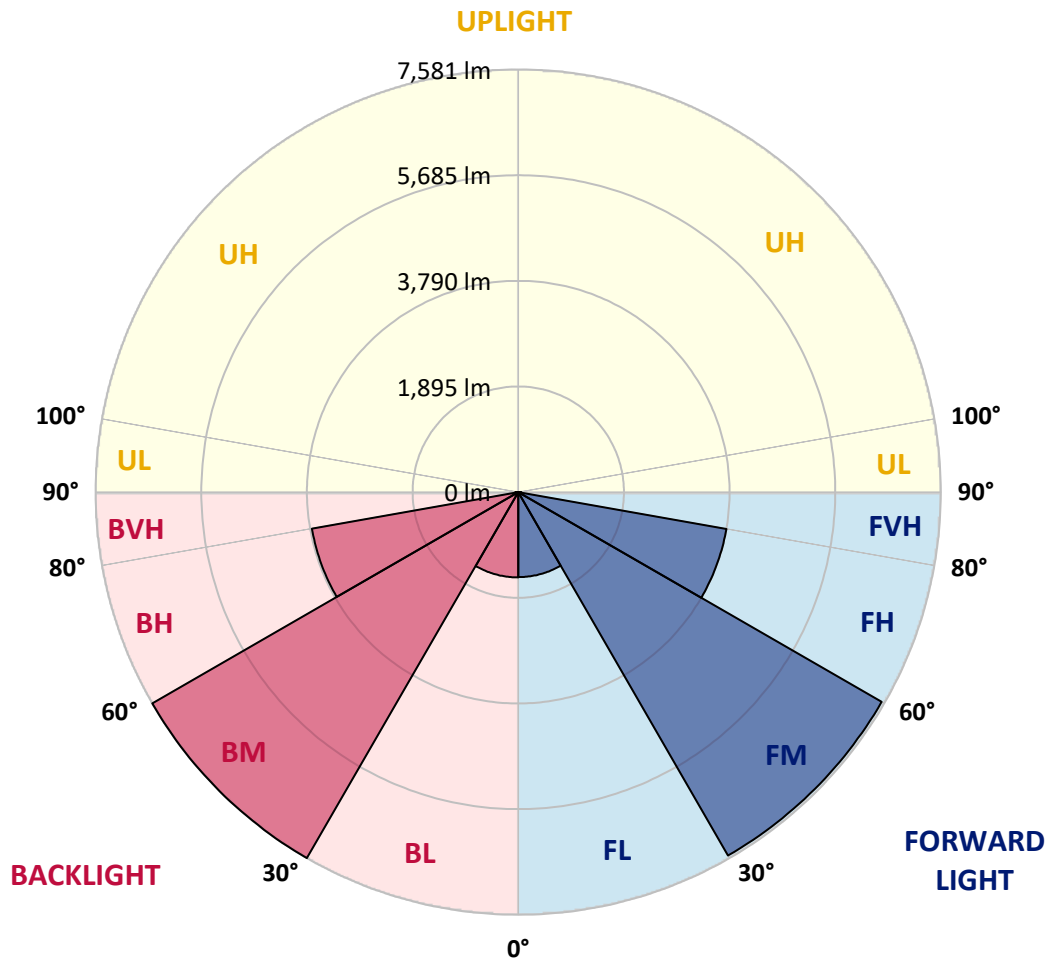
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.0	5.9			
FM (30°-60°)	7526.3	29.1			
FH (60°-80°)	3792.2	14.7			G2/5000
FVH (80°-90°)	56.2	0.2			G1/100
BL (0°-30°)	1529.8	5.9	B3/2500		
BM (30°-60°)	7580.6	29.4	B4/8500		
BH (60°-80°)	3759.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	53.3	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°	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2
2.5°	2987.7	2993.6	3046.9	3026.2	3043.9	3011.4	3035.1	3085.4	3026.2	3070.6	3085.4
5°	3020.3	3029.1	3029.1	3049.9	3061.7	3055.8	3070.6	3049.9	3106.1	3082.4	3118.0
7.5°	3138.7	3123.9	3100.2	3118.0	3120.9	3135.7	3150.5	3177.2	3168.3	3147.6	3183.1
10°	3159.4	3147.6	3183.1	3186.1	3171.3	3159.4	3174.2	3174.2	3200.9	3206.8	3206.8
12.5°	3195.0	3206.8	3203.8	3227.5	3230.5	3221.6	3245.3	3289.7	3277.9	3286.7	3266.0
15°	3331.2	3316.4	3313.4	3337.1	3375.6	3319.3	3360.8	3357.8	3346.0	3363.7	3316.4
17.5°	3449.6	3402.2	3423.0	3461.4	3446.6	3458.5	3511.8	3464.4	3476.2	3455.5	3440.7
20°	3553.2	3514.7	3517.7	3532.5	3532.5	3568.0	3588.8	3571.0	3559.2	3556.2	3562.1
22.5°	3668.7	3624.3	3627.3	3689.4	3710.2	3698.3	3683.5	3713.1	3719.1	3695.4	3722.0
25°	3754.6	3802.0	3816.8	3846.4	3802.0	3834.5	3822.7	3878.9	3914.5	3867.1	3899.7
27.5°	3979.6	3958.9	3997.4	3994.4	4030.0	3997.4	4018.1	4035.9	4050.7	4053.7	4038.8
30°	4181.0	4189.9	4151.4	4255.0	4172.1	4225.4	4260.9	4269.8	4287.6	4287.6	4243.2
32.5°	4394.2	4376.4	4438.6	4414.9	4400.1	4441.5	4403.1	4524.5	4453.4	4494.8	4444.5
35°	4634.0	4634.0	4657.7	4722.8	4634.0	4607.4	4678.4	4728.8	4728.8	4654.7	4672.5
37.5°	4903.5	4879.8	4909.4	4992.3	4924.2	4835.4	4965.6	4986.4	4971.6	4950.8	4915.3
40°	5093.0	5087.1	5146.3	5255.8	5158.1	5140.3	5164.0	5220.3	5238.1	5258.8	5211.4
42.5°	5412.8	5439.4	5611.2	5584.5	5504.6	5442.4	5436.5	5646.7	5596.3	5543.0	5516.4
45°	5886.5	5862.8	5951.7	5954.6	5851.0	5714.8	5744.4	5936.9	6022.7	5904.3	5948.7
47.5°	6262.6	6274.4	6336.6	6463.9	6224.1	6082.0	6191.5	6502.4	6475.8	6431.4	6472.8
50°	6766.0	6819.3	7014.7	6970.3	6757.1	6582.4	6822.2	7115.4	7147.9	6985.1	6955.5
52.5°	7461.8	7544.7	7651.3	7686.8	7482.5	7420.3	7435.1	7799.4	7719.4	7562.5	7461.8
55°	8071.8	8110.3	8305.7	8598.8	8584.0	8285.0	8456.7	8592.9	8267.2	7944.4	7971.1
57.5°	8332.3	8350.1	8894.9	9481.2	9830.6	9898.7	9703.3	9244.3	8468.5	7846.7	7808.2
60°	7683.9	7852.7	8510.0	9833.6	11429.6	12217.2	10917.3	9318.4	7997.7	7242.7	7186.4
62.5°	6141.2	6150.1	7127.2	9134.8	12424.5	14488.3	11382.2	8622.5	6742.3	5886.5	5661.5
64°	4373.4	4456.4	5578.6	8086.6	12217.2	15412.2	11325.9	7713.5	5557.9	4343.8	4186.9
65°	3138.7	3254.2	4337.9	7020.6	11731.6	15302.6	11157.2	6931.8	4494.8	3316.4	3156.5
67.5°	1154.8	1202.2	1702.6	3511.8	8424.1	13040.4	8841.6	3810.8	1975.0	1406.5	1264.4
70°	535.9	538.9	630.7	1160.7	3683.5	8720.2	4219.5	1430.2	743.2	589.2	547.8
72.5°	393.8	402.7	441.2	535.9	1083.7	3692.4	1385.8	586.3	435.3	384.9	376.1
75°	319.8	325.7	337.6	387.9	500.4	989.0	562.6	405.7	346.4	310.9	299.1
77.5°	245.8	245.8	272.4	296.1	331.6	461.9	373.1	322.8	281.3	245.8	236.9
80°	177.7	180.6	213.2	231.0	225.0	305.0	269.5	266.5	231.0	192.5	177.7
82.5°	103.6	112.5	154.0	165.8	159.9	180.6	195.4	207.3	180.6	133.2	121.4
85°	59.2	62.2	88.8	91.8	91.8	85.9	112.5	124.4	121.4	82.9	74.0
87.5°	17.8	17.8	23.7	23.7	26.6	29.6	44.4	53.3	59.2	41.5	38.5
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°	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2	3023.2
2.5°	3070.6	3026.2	3029.1	3041.0	3002.5	3017.3	3061.7	3029.1	3020.3	3002.5	2993.6
5°	3055.8	3103.2	3085.4	3091.3	3082.4	3041.0	3035.1	3061.7	3076.5	3049.9	3103.2
7.5°	3159.4	3138.7	3115.0	3123.9	3103.2	3138.7	3162.4	3109.1	3135.7	3120.9	3091.3
10°	3218.6	3180.1	3197.9	3192.0	3177.2	3212.7	3189.0	3183.1	3159.4	3126.8	3174.2
12.5°	3239.4	3283.8	3313.4	3263.1	3271.9	3254.2	3239.4	3239.4	3212.7	3203.8	3212.7
15°	3331.2	3369.7	3357.8	3396.3	3346.0	3363.7	3381.5	3337.1	3360.8	3295.6	3346.0
17.5°	3499.9	3467.4	3508.8	3458.5	3476.2	3511.8	3455.5	3455.5	3473.3	3437.8	3393.3
20°	3606.5	3591.7	3576.9	3579.9	3550.3	3582.8	3565.1	3556.2	3529.5	3541.4	3565.1
22.5°	3707.2	3686.5	3692.4	3701.3	3722.0	3707.2	3698.3	3707.2	3642.1	3701.3	3618.4
25°	3831.6	3887.8	3870.1	3908.6	3849.3	3887.8	3884.9	3828.6	3864.1	3840.5	3822.7
27.5°	4038.8	4009.2	4035.9	3988.5	4030.0	4032.9	3997.4	4092.1	4050.7	4044.8	4032.9
30°	4305.3	4284.6	4266.8	4240.2	4272.8	4246.1	4275.7	4284.6	4246.1	4216.5	4160.2
32.5°	4456.4	4512.6	4533.3	4468.2	4471.2	4486.0	4459.3	4432.7	4456.4	4465.2	4456.4
35°	4669.5	4722.8	4734.7	4684.4	4657.7	4731.7	4678.4	4767.3	4690.3	4693.2	4613.3
37.5°	4918.3	4933.1	5033.8	4977.5	4953.8	4918.3	5016.0	5004.1	5021.9	4879.8	4950.8
40°	5199.6	5252.9	5309.1	5167.0	5164.0	5196.6	5190.7	5258.8	5226.2	5205.5	5155.2
42.5°	5507.5	5620.0	5628.9	5534.2	5474.9	5469.0	5498.6	5649.6	5652.6	5516.4	5457.2
45°	5916.1	6040.5	6007.9	5824.3	5759.2	5750.3	5895.4	5960.6	6016.8	5963.5	5913.2
47.5°	6425.4	6508.3	6484.7	6315.9	6105.6	6164.9	6307.0	6511.3	6452.1	6381.0	6321.8
50°	6970.3	7068.0	7017.6	6848.9	6647.5	6647.5	6822.2	7082.8	7065.0	6925.9	6872.6
52.5°	7574.3	7716.4	7831.9	7592.1	7423.3	7450.0	7725.3	7820.1	7775.7	7678.0	7633.5
55°	8024.4	8296.8	8533.7	8545.5	8554.4	8551.5	8622.5	8717.3	8400.4	8243.5	8083.6
57.5°	7914.8	8430.1	9241.4	9792.1	9955.0	10040.9	10017.2	9578.9	8829.8	8314.6	8367.9
60°	7133.1	7974.1	9282.8	11050.6	12235.0	12116.5	11684.2	9952.0	8592.9	7722.4	7612.8
62.5°	5691.1	6703.8	8587.0	11405.9	14668.9	14633.4	12371.2	9090.4	7159.8	6058.3	5990.2
64°	4287.6	5353.5	7660.2	11314.1	15521.7	15557.3	12196.5	8030.3	5602.3	4287.6	4183.9
65°	3280.8	4269.8	6751.1	11124.6	15338.1	15358.9	11710.9	6934.7	4258.0	3043.9	2931.4
67.5°	1305.8	1818.1	3662.8	8436.0	13170.7	13114.4	8356.0	3354.8	1628.6	1060.0	1039.3
70°	556.7	692.9	1285.1	3997.4	8817.9	8655.1	3597.7	1089.7	604.1	506.3	503.4
72.5°	382.0	423.4	550.8	1234.7	3665.8	3579.9	1024.5	506.3	411.6	379.0	379.0
75°	307.9	337.6	399.7	518.2	971.2	935.7	482.6	373.1	328.7	305.0	302.0
77.5°	239.8	269.5	313.9	358.3	444.2	441.2	322.8	281.3	254.6	236.9	231.0
80°	189.5	219.1	248.7	254.6	290.2	284.3	219.1	222.1	207.3	171.7	168.8
82.5°	130.3	177.7	198.4	180.6	171.7	171.7	156.9	156.9	145.1	106.6	97.7
85°	79.9	118.4	124.4	106.6	79.9	79.9	85.9	82.9	77.0	56.3	53.3
87.5°	41.5	56.3	50.3	41.5	26.6	26.6	23.7	17.8	17.8	14.8	14.8
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)