

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: P479387

Luminaire Tested: **IFLD-M-SA4C-750-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479387  
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-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

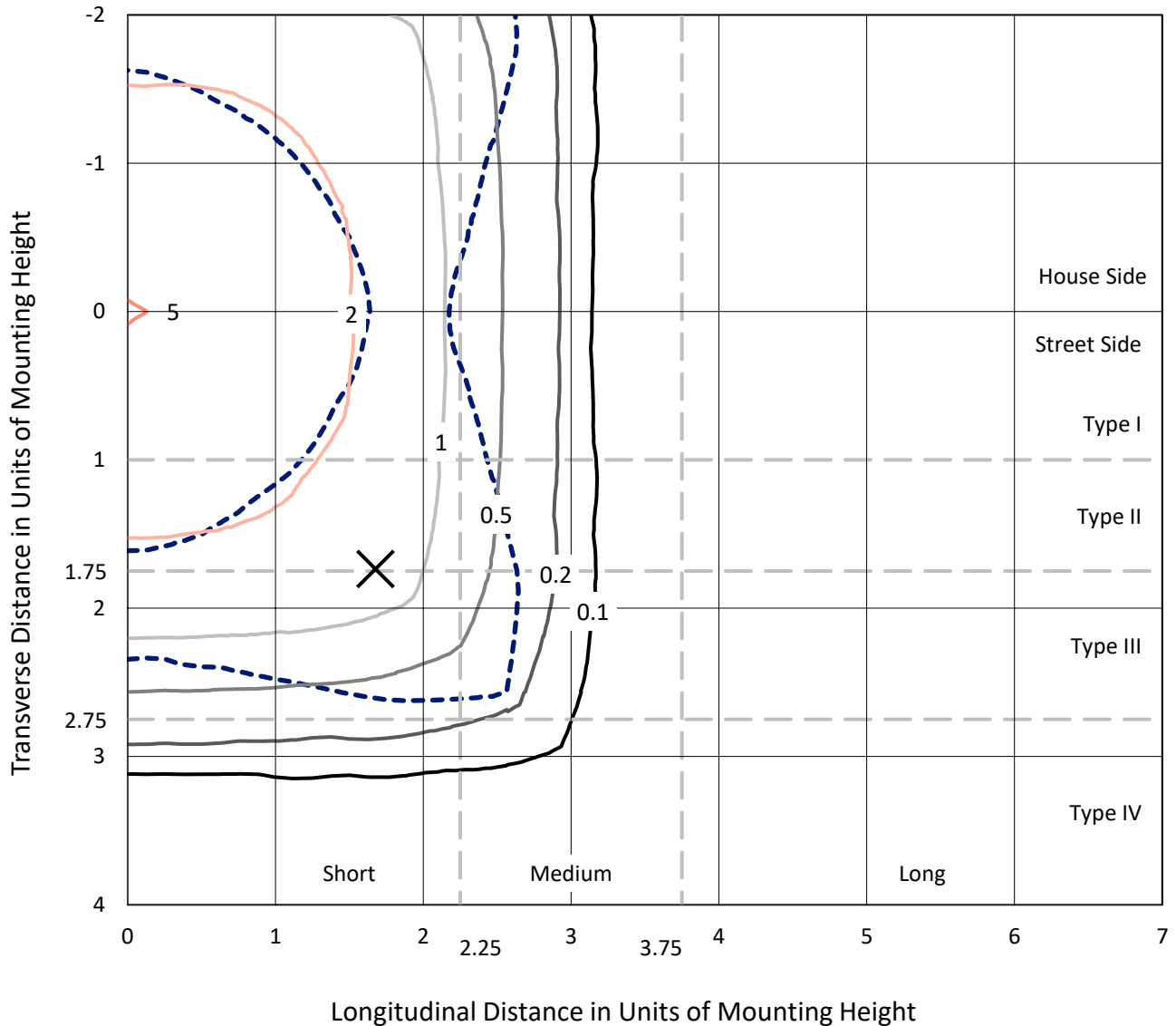
Lumens per Lamp: N/A  
Luminaire Lumens: 29356.4 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

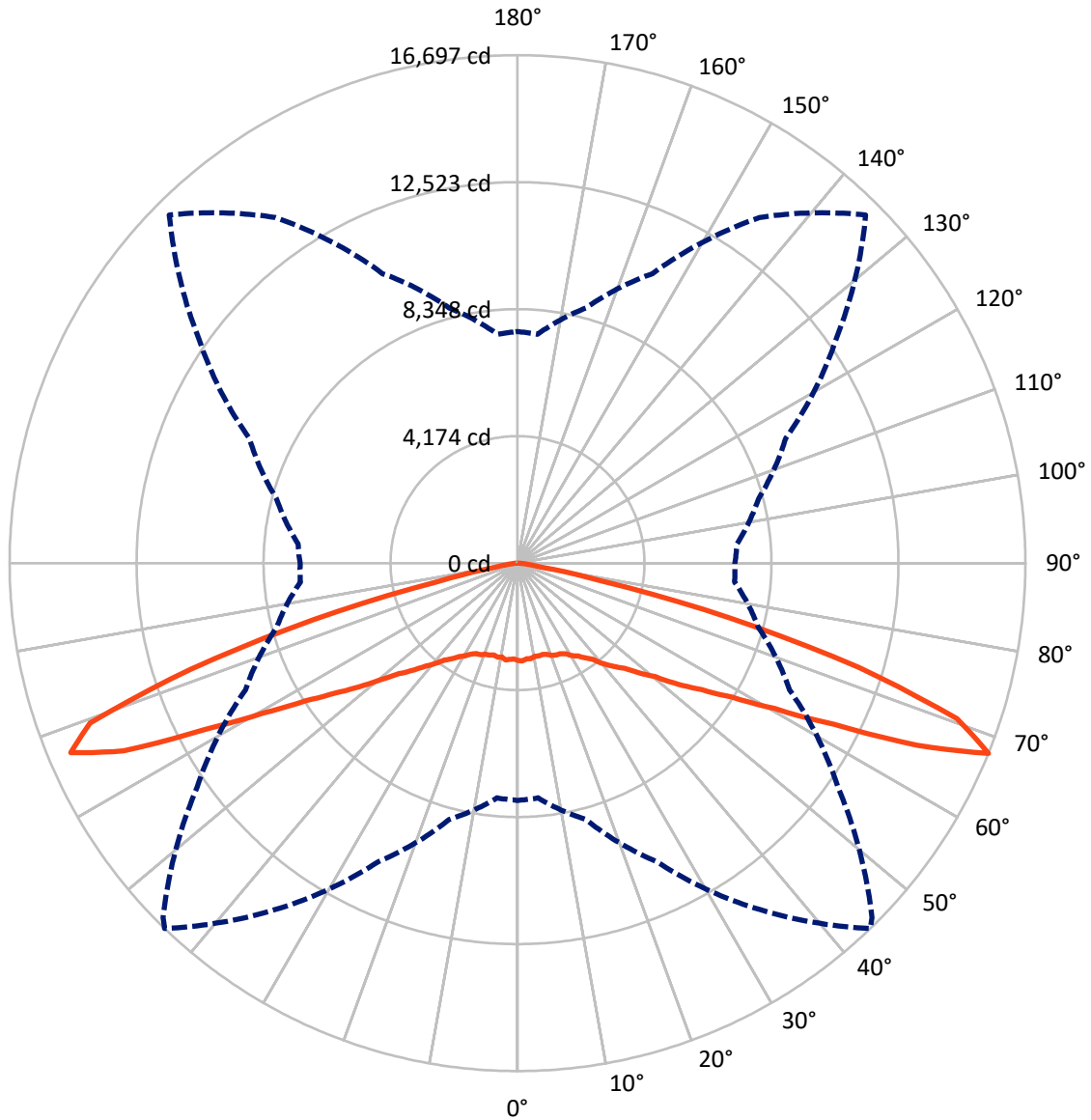
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14640.6	0.0	14640.6
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	14715.8	0.0	14715.8
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	29356.4	0.0	29356.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.4	1.0
10°-20°	886.5	3.0
20°-30°	1507.6	5.1
30°-40°	2390.3	8.1
40°-50°	3897.6	13.3
50°-60°	6656.6	22.7
60°-70°	10124.6	34.5
70°-80°	3412.6	11.6
80°-90°	177.2	0.6
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°	29356.4	100.0
0°-180°	29356.4	100.0

**Coefficient of Utilization**



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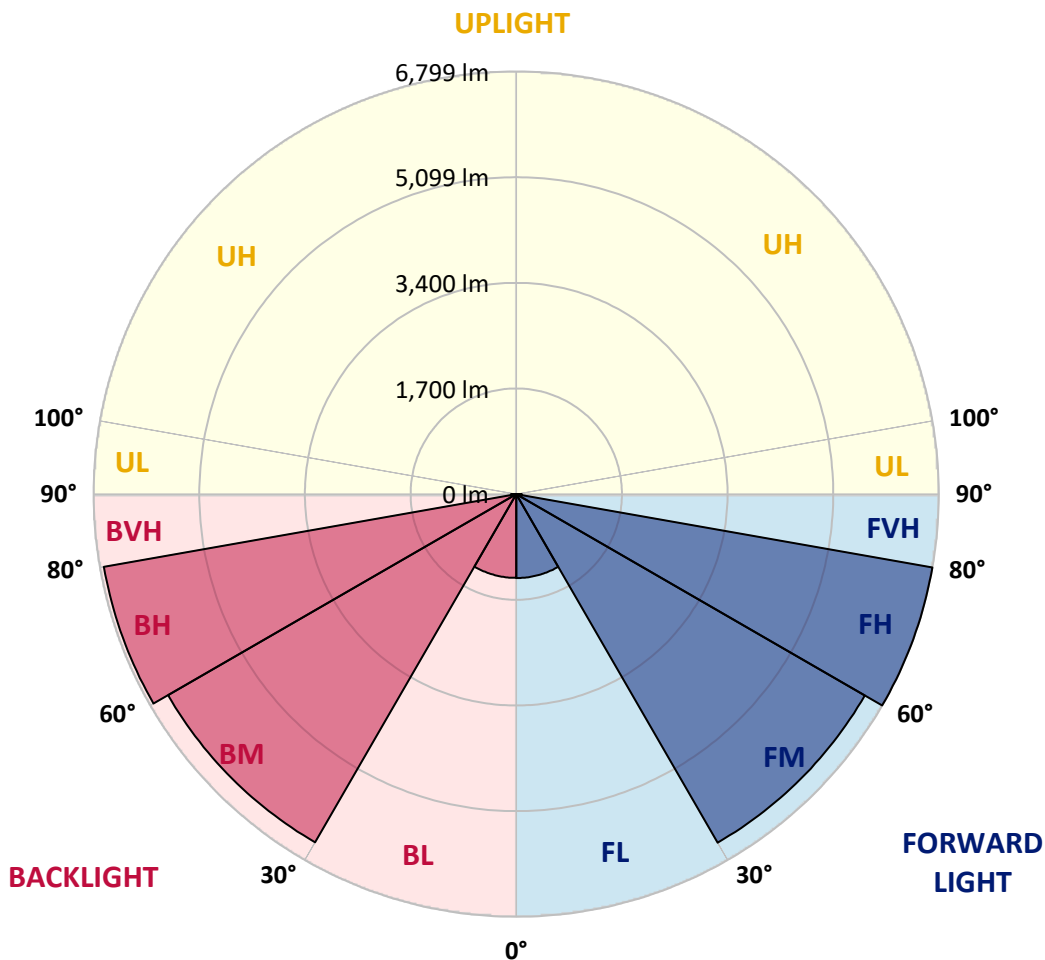
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.2	4.6			
FM (30°-60°)	6475.7	22.1			
FH (60°-80°)	6799.3	23.2			G3/7500
FVH (80°-90°)	90.6	0.3			G1/100
BL (0°-30°)	1347.4	4.6	B3/2500		
BM (30°-60°)	6468.8	22.0	B4/8500		
BH (60°-80°)	6737.9	23.0	B5		G3/7500
BVH (80°-90°)	86.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7
2.5°	3133.0	3169.8	3196.6	3193.3	3203.3	3213.4	3200.0	3220.1	3206.7	3230.1	3243.5
5°	3193.3	3183.2	3186.6	3166.5	3213.4	3159.8	3159.8	3186.6	3220.1	3179.9	3203.3
7.5°	3156.4	3149.7	3133.0	3163.1	3173.2	3173.2	3200.0	3149.7	3206.7	3220.1	3223.4
10°	3116.2	3079.4	3129.6	3159.8	3166.5	3112.9	3136.3	3149.7	3133.0	3149.7	3159.8
12.5°	3082.7	3102.8	3102.8	3102.8	3092.8	3129.6	3153.1	3149.7	3116.2	3146.4	3092.8
15°	3079.4	3069.3	3099.5	3126.3	3109.5	3116.2	3126.3	3156.4	3092.8	3106.2	3106.2
17.5°	3076.0	3089.4	3099.5	3096.1	3153.1	3153.1	3143.0	3122.9	3173.2	3146.4	3109.5
20°	3089.4	3079.4	3106.2	3116.2	3156.4	3236.8	3206.7	3189.9	3163.1	3129.6	3129.6
22.5°	3106.2	3099.5	3136.3	3179.9	3256.9	3277.0	3273.7	3253.6	3206.7	3166.5	3159.8
25°	3166.5	3106.2	3146.4	3230.1	3256.9	3297.2	3324.0	3297.2	3233.5	3243.5	3183.2
27.5°	3256.9	3246.9	3300.5	3357.5	3334.0	3370.9	3347.4	3367.5	3370.9	3320.6	3260.3
30°	3364.2	3334.0	3367.5	3478.1	3488.1	3528.4	3488.1	3434.5	3451.3	3407.7	3377.6
32.5°	3518.3	3508.2	3571.9	3645.6	3659.0	3638.9	3618.8	3649.0	3578.6	3545.1	3491.5
35°	3618.8	3662.4	3739.5	3796.4	3840.0	3819.9	3829.9	3799.8	3816.5	3746.2	3722.7
37.5°	3917.0	3900.3	3917.0	4014.2	4024.3	4014.2	4024.3	4057.8	4034.3	3974.0	3913.7
40°	4198.5	4171.7	4211.9	4322.5	4315.8	4349.3	4282.3	4319.1	4319.1	4205.2	4181.8
42.5°	4409.6	4500.1	4547.0	4637.5	4671.0	4640.8	4627.4	4634.1	4707.8	4573.8	4523.5
45°	4845.2	4841.9	4982.6	5032.8	4939.0	4932.3	4905.5	4985.9	5036.2	4959.1	4939.0
47.5°	5317.7	5341.1	5421.5	5441.6	5498.6	5394.7	5394.7	5404.8	5582.4	5401.4	5307.6
50°	5743.2	5773.4	5934.2	6091.7	5984.5	5873.9	5917.4	5971.1	6068.2	5897.3	5816.9
52.5°	6259.2	6423.4	6530.6	6614.4	6691.5	6614.4	6513.9	6574.2	6765.2	6537.3	6436.8
55°	7003.1	7133.8	7234.3	7388.4	7452.1	7348.2	7338.2	7331.5	7438.7	7197.4	7060.1
57.5°	7834.1	7780.5	7941.3	8179.2	8410.4	8309.9	8279.7	8286.4	8313.2	7971.5	7867.6
60°	8866.1	8926.4	9117.4	9325.2	9569.8	9710.5	9512.8	9398.9	9422.3	8956.6	8795.8
62.5°	9455.9	9589.9	10022.1	10735.8	11228.4	11667.4	11697.5	10957.0	10461.1	9556.4	8872.8
65°	9171.0	9150.9	9965.2	11285.4	13151.7	14428.4	14237.4	12441.4	10709.0	9271.6	8353.5
67.5°	7800.6	7747.0	8732.1	10826.3	13909.0	16696.9	16479.1	12860.2	9871.3	8202.7	7163.9
70°	5026.1	5012.7	6081.6	8252.9	12417.9	15329.7	15410.2	11680.8	8035.1	6007.9	4979.2
72.5°	1826.2	1936.7	2556.6	4436.4	8433.9	11727.7	11777.9	8648.3	4620.7	2777.8	2047.3
75°	673.5	693.6	807.5	1440.8	3843.3	7200.8	7388.4	4195.2	1641.9	904.7	737.2
77.5°	388.7	392.0	432.2	536.1	1139.3	2811.3	2925.2	1273.3	636.6	482.5	445.7
80°	264.7	261.4	304.9	348.5	455.7	797.5	847.7	532.8	402.1	335.1	281.5
82.5°	154.1	164.2	224.5	248.0	278.1	351.8	358.5	331.7	301.6	248.0	184.3
85°	93.8	77.1	124.0	137.4	160.8	157.5	157.5	180.9	194.3	174.2	103.9
87.5°	23.5	23.5	30.2	33.5	43.6	33.5	36.9	70.4	93.8	87.1	53.6
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°	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7	3206.7
2.5°	3213.4	3203.3	3210.0	3246.9	3223.4	3153.1	3169.8	3206.7	3176.5	3159.8	3156.4
5°	3200.0	3220.1	3196.6	3203.3	3226.8	3169.8	3179.9	3226.8	3206.7	3213.4	3176.5
7.5°	3203.3	3213.4	3193.3	3163.1	3163.1	3210.0	3183.2	3189.9	3159.8	3210.0	3143.0
10°	3183.2	3156.4	3133.0	3149.7	3143.0	3129.6	3119.6	3139.7	3109.5	3153.1	3106.2
12.5°	3122.9	3129.6	3122.9	3116.2	3129.6	3163.1	3109.5	3116.2	3069.3	3076.0	3099.5
15°	3099.5	3119.6	3112.9	3149.7	3166.5	3116.2	3156.4	3116.2	3079.4	3059.2	3096.1
17.5°	3109.5	3139.7	3129.6	3156.4	3126.3	3163.1	3169.8	3153.1	3109.5	3092.8	3109.5
20°	3119.6	3109.5	3122.9	3169.8	3213.4	3176.5	3176.5	3166.5	3126.3	3102.8	3102.8
22.5°	3143.0	3126.3	3146.4	3183.2	3196.6	3253.6	3203.3	3179.9	3112.9	3052.5	3109.5
25°	3189.9	3200.0	3213.4	3200.0	3273.7	3267.0	3260.3	3243.5	3139.7	3143.0	3133.0
27.5°	3280.4	3223.4	3240.2	3320.6	3330.7	3357.5	3324.0	3354.1	3243.5	3246.9	3179.9
30°	3391.0	3330.7	3384.3	3454.6	3451.3	3501.5	3484.8	3491.5	3414.4	3370.9	3280.4
32.5°	3511.6	3504.9	3538.4	3582.0	3598.7	3625.5	3622.2	3622.2	3575.3	3461.3	3478.1
35°	3645.6	3692.5	3732.8	3779.7	3786.4	3819.9	3773.0	3779.7	3732.8	3649.0	3675.8
37.5°	3910.3	3907.0	3950.5	4007.5	4014.2	3987.4	4024.3	4007.5	3943.8	3886.9	3843.3
40°	4218.6	4151.6	4191.8	4325.8	4335.9	4289.0	4285.6	4282.3	4235.4	4111.4	4084.6
42.5°	4486.7	4573.8	4567.1	4610.7	4580.5	4557.0	4640.8	4593.9	4557.0	4426.4	4402.9
45°	4831.8	4858.6	4945.7	5086.5	4942.4	4942.4	4999.3	4962.5	4942.4	4845.2	4754.7
47.5°	5260.7	5284.2	5458.4	5468.4	5374.6	5311.0	5488.6	5495.3	5411.5	5337.8	5227.2
50°	5763.3	5773.4	5930.9	6091.7	5987.8	5867.2	6048.1	6118.5	5930.9	5830.3	5692.9
52.5°	6316.2	6286.0	6416.7	6718.3	6617.8	6580.9	6775.2	6792.0	6537.3	6379.9	6416.7
55°	6952.8	6912.6	7267.8	7472.2	7408.5	7341.5	7428.6	7468.9	7264.5	7006.4	7096.9
57.5°	7777.1	7797.2	7974.8	8175.9	8279.7	8296.5	8336.7	8296.5	8088.7	7827.4	7743.6
60°	8601.4	8661.7	9006.9	9385.5	9419.0	9713.9	9660.3	9459.2	9164.3	8792.4	8809.2
62.5°	8906.3	8856.1	9412.3	10337.1	11124.5	11664.0	11426.1	10712.4	10028.8	9352.0	9402.2
65°	8293.1	8417.1	9174.4	10621.9	12330.8	14465.2	13198.7	11225.1	9844.5	8970.0	8872.8
67.5°	7147.2	7241.0	8202.7	9730.6	12763.1	16187.5	13868.8	10501.3	8681.8	7549.3	7609.6
70°	4979.2	5026.1	5967.7	7971.5	11573.5	15276.1	12511.7	8065.3	5994.5	4778.2	4845.2
72.5°	2003.8	2117.7	2737.6	4801.6	8544.4	11607.0	8423.8	4232.0	2486.3	1849.6	1678.7
75°	740.5	743.9	874.5	1651.9	4057.8	7294.6	3799.8	1360.4	794.1	650.0	619.9
77.5°	428.9	425.5	455.7	596.4	1176.1	2848.1	1078.9	532.8	432.2	388.7	371.9
80°	268.1	264.7	311.6	395.4	516.0	780.7	455.7	331.7	291.5	251.3	251.3
82.5°	170.9	174.2	244.6	291.5	315.0	345.1	264.7	234.6	217.8	144.1	140.7
85°	110.6	100.5	170.9	194.3	174.2	154.1	147.4	124.0	113.9	70.4	77.1
87.5°	50.3	53.6	87.1	97.2	63.7	36.9	36.9	26.8	26.8	16.8	16.8
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)