

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: P479368

Luminaire Tested: **IFLD-S-SA3D-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479368
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

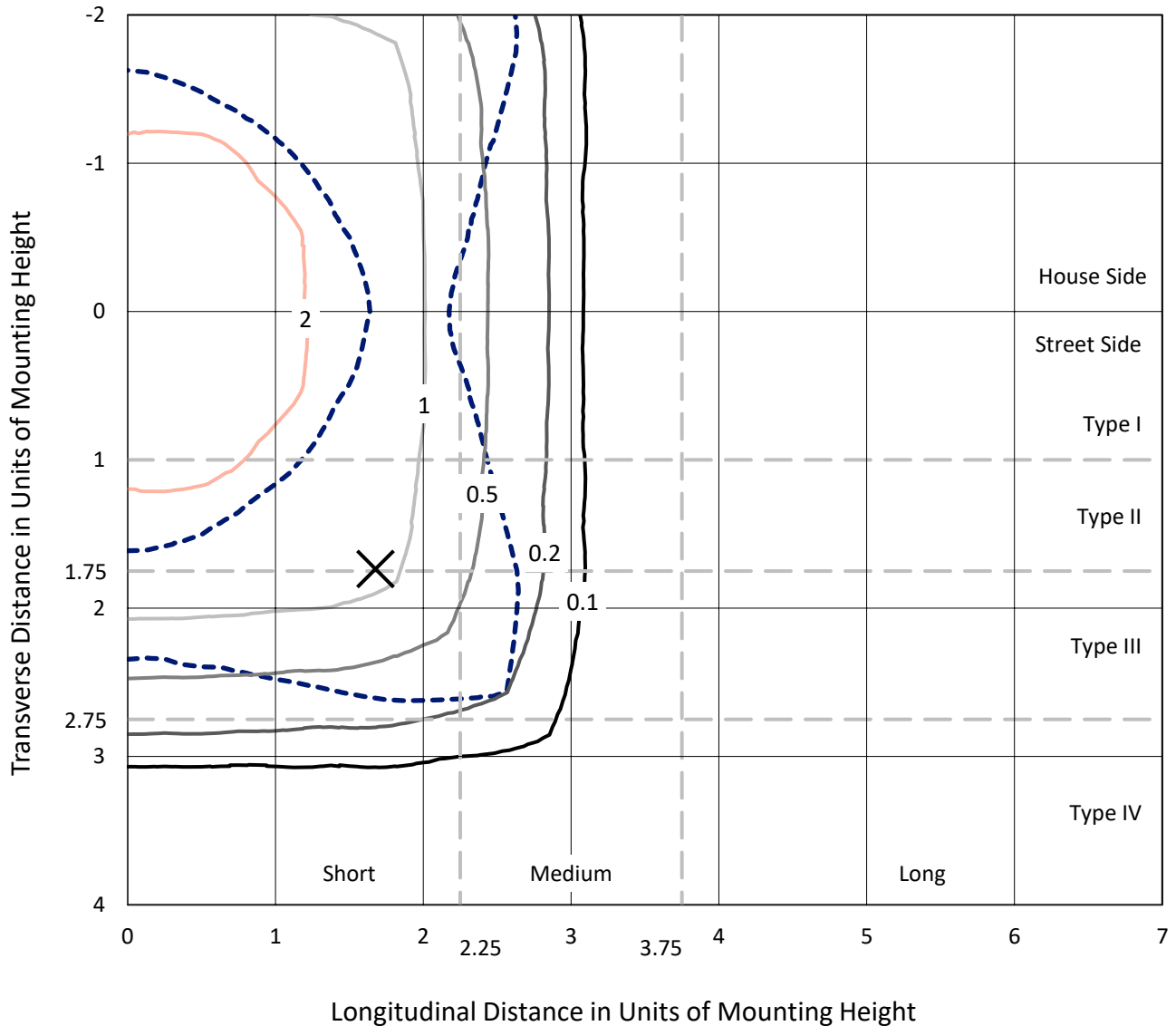
Lumens per Lamp: N/A
Luminaire Lumens: 24065 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 184.1
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

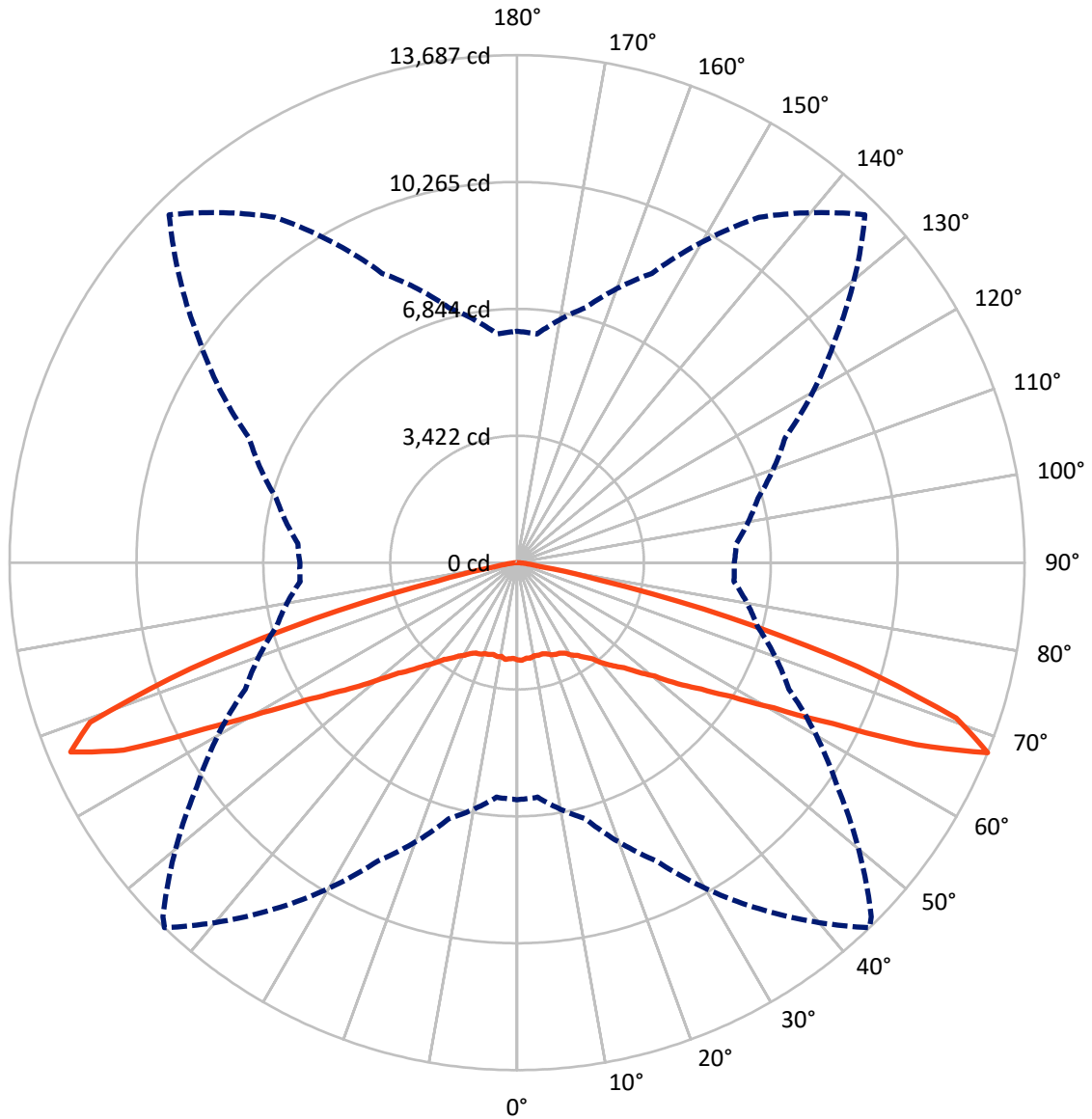
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
House Side	Lumens	12001.7	0.0	12001.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	12063.3	0.0	12063.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	24065.0	0.0	24065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	1.0
10°-20°	726.7	3.0
20°-30°	1235.8	5.1
30°-40°	1959.5	8.1
40°-50°	3195.1	13.3
50°-60°	5456.8	22.7
60°-70°	8299.7	34.5
70°-80°	2797.5	11.6
80°-90°	145.2	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°	24065.0	100.0
0°-180°	24065.0	100.0

Coefficient of Utilization



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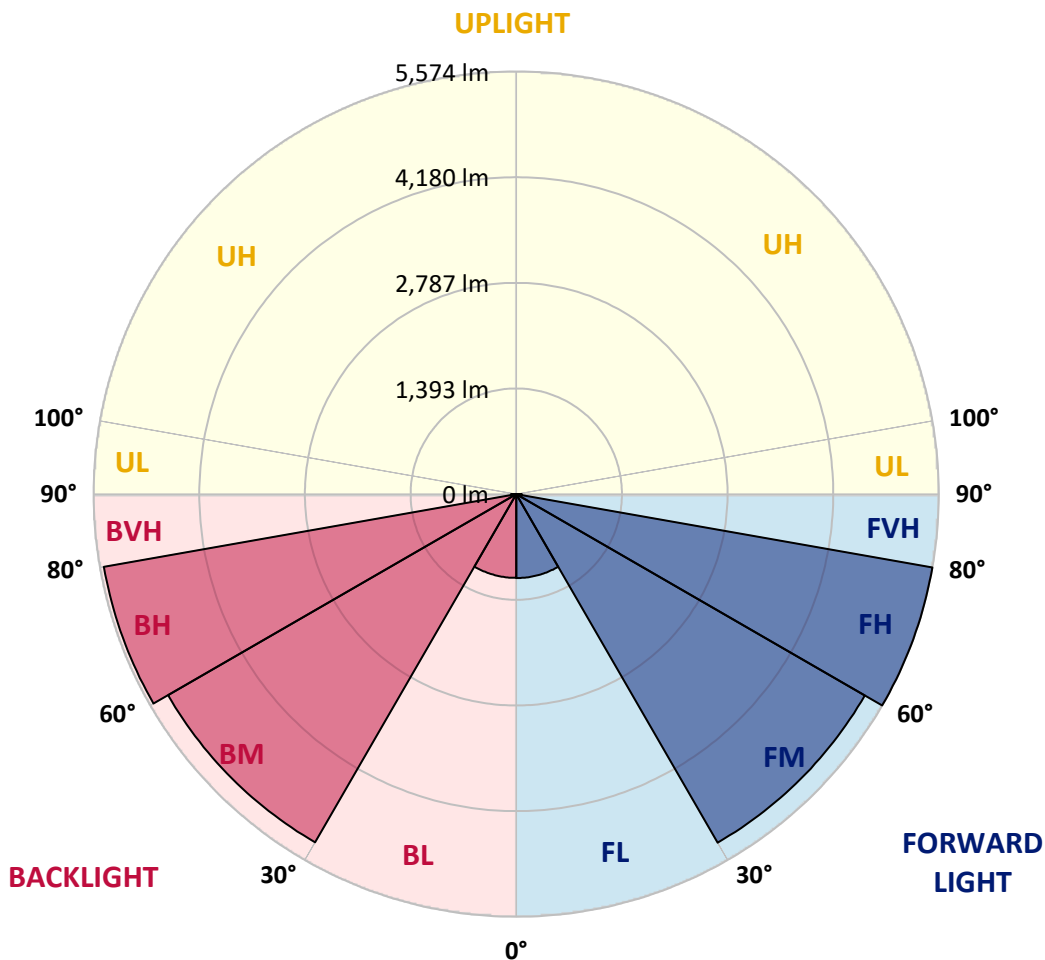
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.8	4.6			
FM (30°-60°)	5308.5	22.1			
FH (60°-80°)	5573.7	23.2			G3/7500
FVH (80°-90°)	74.3	0.3			G1/100
BL (0°-30°)	1104.5	4.6	B3/2500		
BM (30°-60°)	5302.8	22.0	B4/8500		
BH (60°-80°)	5523.5	23.0	B5		G3/7500
BVH (80°-90°)	70.9	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°	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7
2.5°	2568.3	2598.5	2620.5	2617.7	2625.9	2634.2	2623.2	2639.7	2628.7	2647.9	2658.9
5°	2617.7	2609.5	2612.2	2595.7	2634.2	2590.2	2590.2	2612.2	2639.7	2606.7	2625.9
7.5°	2587.5	2582.0	2568.3	2593.0	2601.2	2601.2	2623.2	2582.0	2628.7	2639.7	2642.4
10°	2554.5	2524.3	2565.5	2590.2	2595.7	2551.8	2571.0	2582.0	2568.3	2582.0	2590.2
12.5°	2527.1	2543.5	2543.5	2543.5	2535.3	2565.5	2584.7	2582.0	2554.5	2579.2	2535.3
15°	2524.3	2516.1	2540.8	2562.8	2549.0	2554.5	2562.8	2587.5	2535.3	2546.3	2546.3
17.5°	2521.6	2532.6	2540.8	2538.0	2584.7	2584.7	2576.5	2560.0	2601.2	2579.2	2549.0
20°	2532.6	2524.3	2546.3	2554.5	2587.5	2653.4	2628.7	2615.0	2593.0	2565.5	2565.5
22.5°	2546.3	2540.8	2571.0	2606.7	2669.9	2686.4	2683.6	2667.1	2628.7	2595.7	2590.2
25°	2595.7	2546.3	2579.2	2647.9	2669.9	2702.9	2724.8	2702.9	2650.7	2658.9	2609.5
27.5°	2669.9	2661.7	2705.6	2752.3	2733.1	2763.3	2744.1	2760.5	2763.3	2722.1	2672.6
30°	2757.8	2733.1	2760.5	2851.2	2859.4	2892.4	2859.4	2815.5	2829.2	2793.5	2768.8
32.5°	2884.1	2875.9	2928.1	2988.5	2999.5	2983.0	2966.5	2991.3	2933.6	2906.1	2862.2
35°	2966.5	3002.3	3065.4	3112.1	3147.8	3131.4	3139.6	3114.9	3128.6	3070.9	3051.7
37.5°	3211.0	3197.3	3211.0	3290.7	3298.9	3290.7	3298.9	3326.4	3307.2	3257.7	3208.3
40°	3441.7	3419.8	3452.7	3543.4	3537.9	3565.4	3510.4	3540.6	3540.6	3447.2	3428.0
42.5°	3614.8	3689.0	3727.4	3801.6	3829.0	3804.3	3793.3	3798.8	3859.3	3749.4	3708.2
45°	3971.9	3969.1	4084.5	4125.7	4048.8	4043.3	4021.3	4087.2	4128.4	4065.3	4048.8
47.5°	4359.2	4378.4	4444.3	4460.8	4507.5	4422.4	4422.4	4430.6	4576.2	4427.8	4350.9
50°	4708.0	4732.7	4864.6	4993.7	4905.8	4815.1	4850.9	4894.8	4974.5	4834.4	4768.5
52.5°	5131.0	5265.6	5353.5	5422.2	5485.4	5422.2	5339.8	5389.2	5545.8	5359.0	5276.6
55°	5740.8	5847.9	5930.4	6056.7	6108.9	6023.7	6015.5	6010.0	6097.9	5900.1	5787.5
57.5°	6422.0	6378.1	6509.9	6704.9	6894.5	6812.1	6787.4	6792.8	6814.8	6534.6	6449.5
60°	7268.0	7317.5	7474.1	7644.4	7844.9	7960.2	7798.2	7704.8	7724.0	7342.2	7210.4
62.5°	7751.5	7861.4	8215.7	8800.8	9204.5	9564.4	9589.1	8982.1	8575.5	7833.9	7273.5
65°	7518.0	7501.5	8169.0	9251.2	10781.2	11827.7	11671.2	10198.9	8778.8	7600.4	6847.8
67.5°	6394.6	6350.6	7158.2	8874.9	11402.0	13687.3	13508.8	10542.2	8092.1	6724.2	5872.7
70°	4120.2	4109.2	4985.5	6765.4	10179.7	12566.6	12632.6	9575.4	6586.8	4925.0	4081.8
72.5°	1497.0	1587.7	2095.8	3636.8	6913.7	9613.8	9655.0	7089.5	3787.8	2277.1	1678.3
75°	552.1	568.6	662.0	1181.1	3150.6	5902.9	6056.7	3439.0	1345.9	741.6	604.3
77.5°	318.6	321.4	354.3	439.5	933.9	2304.6	2398.0	1043.8	521.9	395.5	365.3
80°	217.0	214.3	250.0	285.7	373.6	653.7	694.9	436.7	329.6	274.7	230.7
82.5°	126.4	134.6	184.0	203.3	228.0	288.4	293.9	271.9	247.2	203.3	151.1
85°	76.9	63.2	101.6	112.6	131.8	129.1	129.1	148.3	159.3	142.8	85.2
87.5°	19.2	19.2	24.7	27.5	35.7	27.5	30.2	57.7	76.9	71.4	43.9
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°	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7
2.5°	2634.2	2625.9	2631.4	2661.7	2642.4	2584.7	2598.5	2628.7	2604.0	2590.2	2587.5
5°	2623.2	2639.7	2620.5	2625.9	2645.2	2598.5	2606.7	2645.2	2628.7	2634.2	2604.0
7.5°	2625.9	2634.2	2617.7	2593.0	2593.0	2631.4	2609.5	2615.0	2590.2	2631.4	2576.5
10°	2609.5	2587.5	2568.3	2582.0	2576.5	2565.5	2557.3	2573.8	2549.0	2584.7	2546.3
12.5°	2560.0	2565.5	2560.0	2554.5	2565.5	2593.0	2549.0	2554.5	2516.1	2521.6	2540.8
15°	2540.8	2557.3	2551.8	2582.0	2595.7	2554.5	2587.5	2554.5	2524.3	2507.8	2538.0
17.5°	2549.0	2573.8	2565.5	2587.5	2562.8	2593.0	2598.5	2584.7	2549.0	2535.3	2549.0
20°	2557.3	2549.0	2560.0	2598.5	2634.2	2604.0	2604.0	2595.7	2562.8	2543.5	2543.5
22.5°	2576.5	2562.8	2579.2	2609.5	2620.5	2667.1	2625.9	2606.7	2551.8	2502.3	2549.0
25°	2615.0	2623.2	2634.2	2623.2	2683.6	2678.1	2672.6	2658.9	2573.8	2576.5	2568.3
27.5°	2689.1	2642.4	2656.2	2722.1	2730.3	2752.3	2724.8	2749.6	2658.9	2661.7	2606.7
30°	2779.8	2730.3	2774.3	2832.0	2829.2	2870.4	2856.7	2862.2	2799.0	2763.3	2689.1
32.5°	2878.7	2873.2	2900.6	2936.3	2950.1	2972.0	2969.3	2969.3	2930.8	2837.4	2851.2
35°	2988.5	3027.0	3059.9	3098.4	3103.9	3131.4	3092.9	3098.4	3059.9	2991.3	3013.2
37.5°	3205.5	3202.8	3238.5	3285.2	3290.7	3268.7	3298.9	3285.2	3233.0	3186.3	3150.6
40°	3458.2	3403.3	3436.3	3546.1	3554.4	3515.9	3513.2	3510.4	3472.0	3370.3	3348.4
42.5°	3678.0	3749.4	3743.9	3779.6	3754.9	3735.7	3804.3	3765.9	3735.7	3628.5	3609.3
45°	3960.9	3982.9	4054.3	4169.6	4051.5	4051.5	4098.2	4068.0	4051.5	3971.9	3897.7
47.5°	4312.5	4331.7	4474.5	4482.8	4405.9	4353.7	4499.3	4504.8	4436.1	4375.7	4285.0
50°	4724.5	4732.7	4861.8	4993.7	4908.5	4809.7	4958.0	5015.7	4861.8	4779.4	4666.8
52.5°	5177.7	5153.0	5260.1	5507.3	5424.9	5394.7	5554.0	5567.8	5359.0	5229.9	5260.1
55°	5699.6	5666.7	5957.8	6125.4	6073.2	6018.2	6089.7	6122.6	5955.1	5743.6	5817.7
57.5°	6375.3	6391.8	6537.4	6702.2	6787.4	6801.1	6834.0	6801.1	6630.8	6416.5	6347.9
60°	7051.0	7100.5	7383.4	7693.8	7721.3	7963.0	7919.0	7754.2	7512.5	7207.6	7221.3
62.5°	7301.0	7259.8	7715.8	8473.9	9119.4	9561.6	9366.6	8781.5	8221.2	7666.3	7707.5
65°	6798.3	6900.0	7520.8	8707.4	10108.2	11858.0	10819.7	9201.8	8070.1	7353.2	7273.5
67.5°	5858.9	5935.8	6724.2	7976.7	10462.6	13269.8	11369.0	8608.5	7117.0	6188.6	6238.0
70°	4081.8	4120.2	4892.1	6534.6	9487.5	12522.7	10256.6	6611.6	4914.0	3916.9	3971.9
72.5°	1642.6	1736.0	2244.1	3936.2	7004.4	9514.9	6905.5	3469.2	2038.1	1516.2	1376.1
75°	607.0	609.8	716.9	1354.2	3326.4	5979.8	3114.9	1115.2	651.0	532.9	508.2
77.5°	351.6	348.8	373.6	488.9	964.1	2334.8	884.5	436.7	354.3	318.6	304.9
80°	219.7	217.0	255.5	324.1	423.0	640.0	373.6	271.9	239.0	206.0	206.0
82.5°	140.1	142.8	200.5	239.0	258.2	282.9	217.0	192.3	178.5	118.1	115.4
85°	90.6	82.4	140.1	159.3	142.8	126.4	120.9	101.6	93.4	57.7	63.2
87.5°	41.2	43.9	71.4	79.7	52.2	30.2	30.2	22.0	22.0	13.7	13.7
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)