

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: P478899

Luminaire Tested: **IFLD-S-SA3C-735-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478899  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

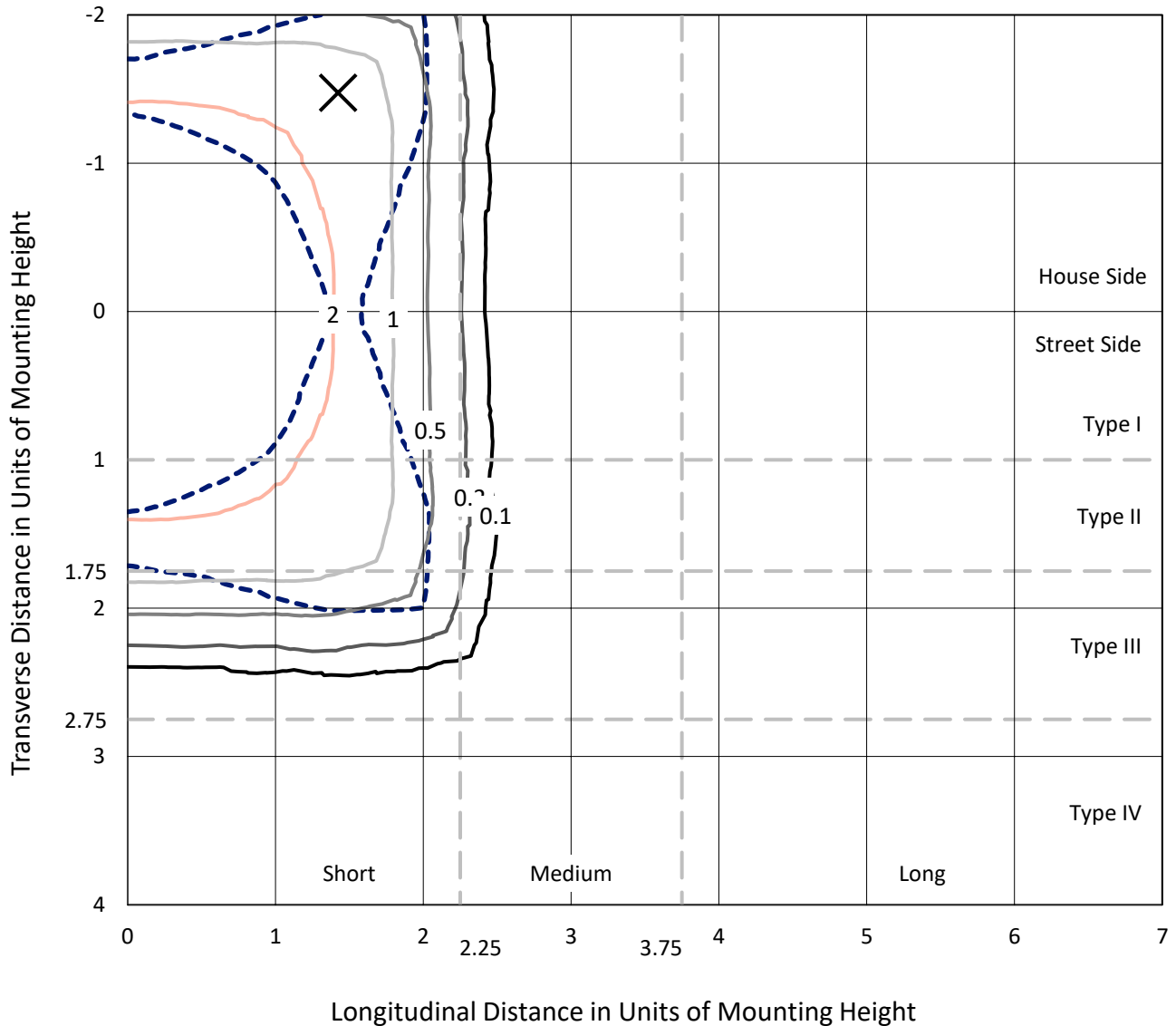
Lumens per Lamp: N/A  
Luminaire Lumens: 20836.9 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8  
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

REPORT NUMBER: P478899  
 CATALOG NUMBER: IFLD-S-SA3C-735-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

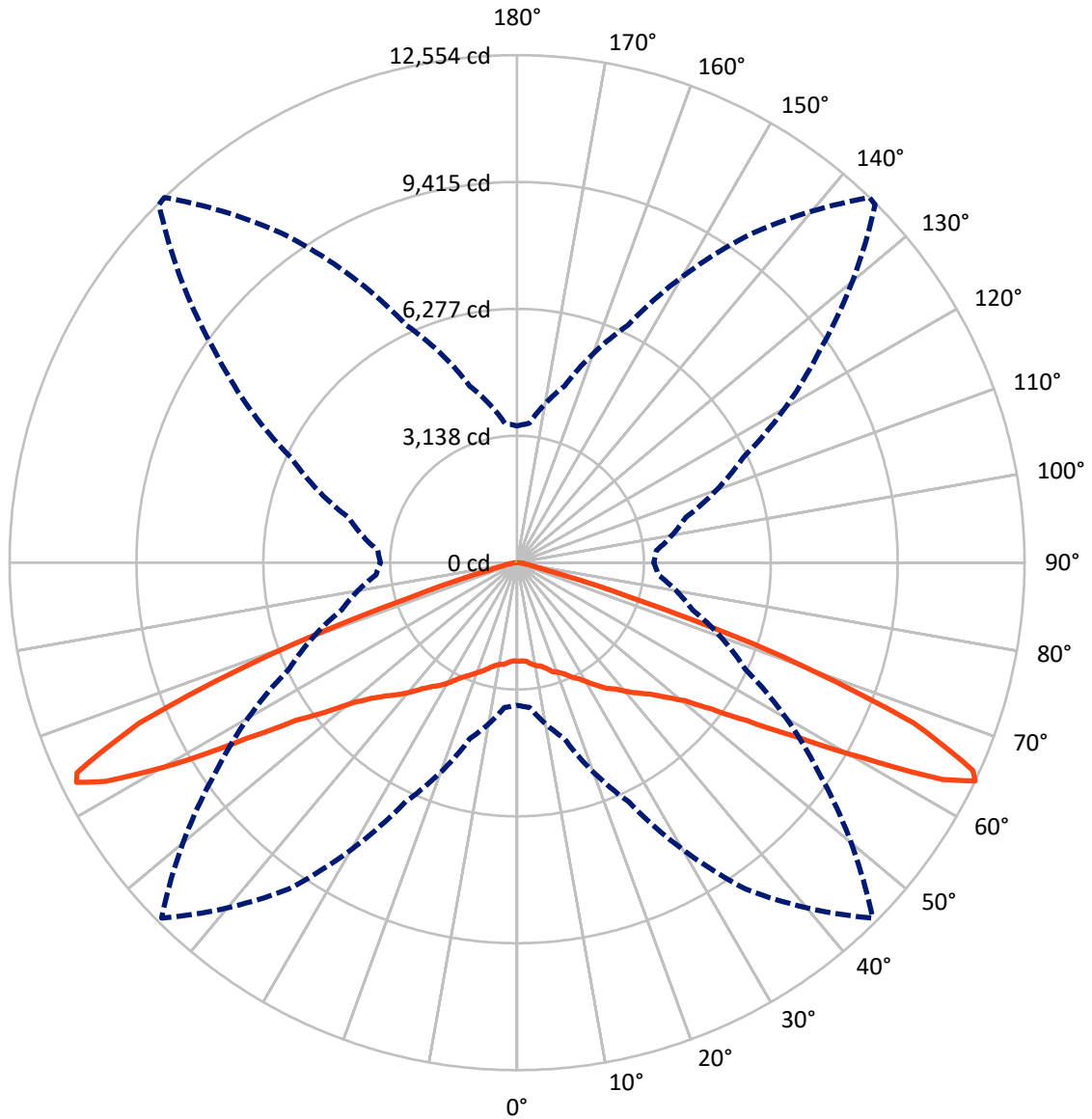
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

REPORT NUMBER: P478899  
CATALOG NUMBER: IFLD-S-SA3C-735-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478899

CATALOG NUMBER: IFLD-S-SA3C-735-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10428.4	0.0	10428.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10408.5	0.0	10408.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20836.9	0.0	20836.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.7	1.2
10°-20°	772.6	3.7
20°-30°	1452.0	7.0
30°-40°	2394.6	11.5
40°-50°	3744.9	18.0
50°-60°	6050.9	29.0
60°-70°	5448.5	26.1
70°-80°	645.4	3.1
80°-90°	88.3	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°	20836.9	100.0
0°-180°	20836.9	100.0

**Coefficient of Utilization**



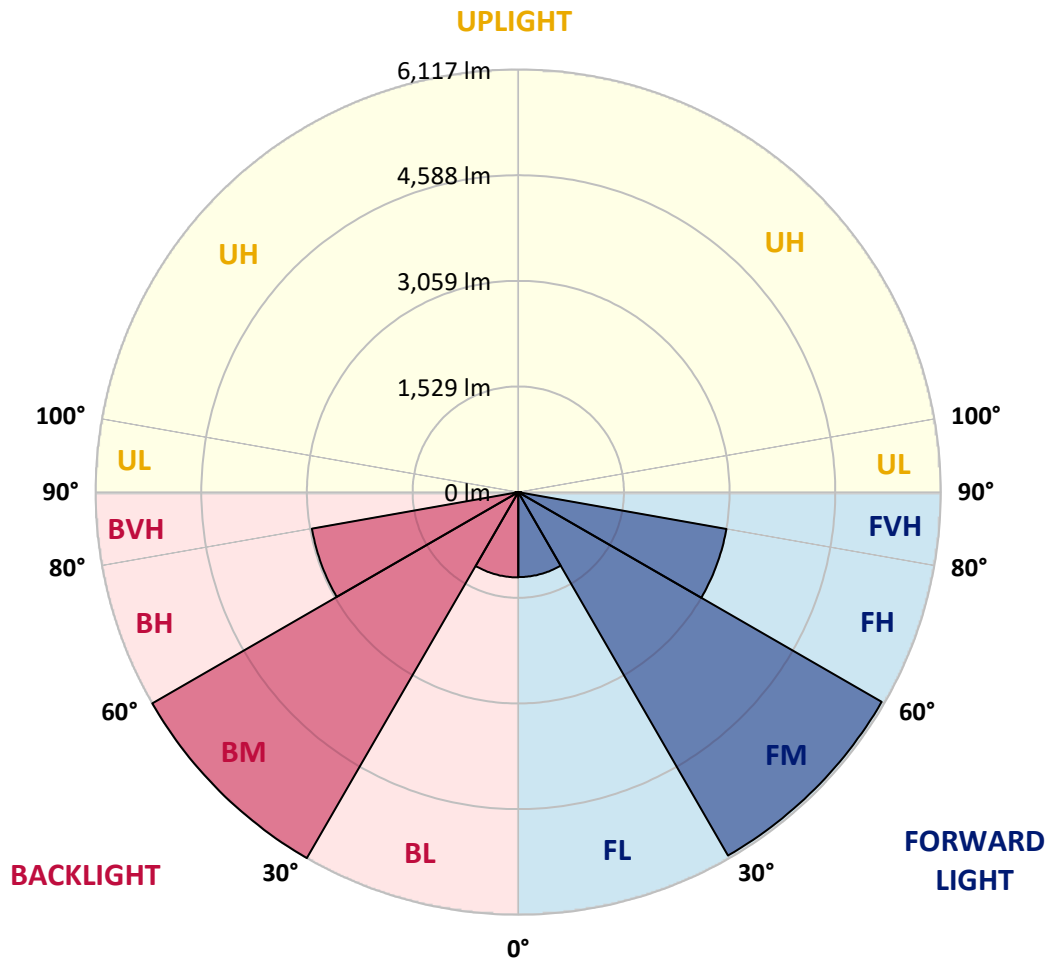
REPORT NUMBER: P478899  
 CATALOG NUMBER: IFLD-S-SA3C-735-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.8	5.9			
FM (30°-60°)	6073.3	29.1			
FH (60°-80°)	3060.1	14.7			G2/5000
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	1234.5	5.9	B3/2500		
BM (30°-60°)	6117.1	29.4	B4/8500		
BH (60°-80°)	3033.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	43.0	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





REPORT NUMBER: P478899

CATALOG NUMBER: IFLD-S-SA3C-735-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6
2.5°	2410.9	2415.7	2458.7	2442.0	2456.3	2430.0	2449.1	2489.8	2442.0	2477.8	2489.8
5°	2437.2	2444.4	2444.4	2461.1	2470.6	2465.9	2477.8	2461.1	2506.5	2487.4	2516.0
7.5°	2532.8	2520.8	2501.7	2516.0	2518.4	2530.4	2542.3	2563.8	2556.7	2539.9	2568.6
10°	2549.5	2539.9	2568.6	2571.0	2559.0	2549.5	2561.4	2561.4	2582.9	2587.7	2587.7
12.5°	2578.2	2587.7	2585.3	2604.4	2606.8	2599.7	2618.8	2654.6	2645.1	2652.2	2635.5
15°	2688.1	2676.1	2673.7	2692.8	2723.9	2678.5	2712.0	2709.6	2700.0	2714.4	2676.1
17.5°	2783.6	2745.4	2762.1	2793.2	2781.3	2790.8	2833.8	2795.6	2805.2	2788.4	2776.5
20°	2867.3	2836.2	2838.6	2850.6	2850.6	2879.2	2895.9	2881.6	2872.1	2869.7	2874.4
22.5°	2960.5	2924.6	2927.0	2977.2	2993.9	2984.4	2972.4	2996.3	3001.1	2982.0	3003.5
25°	3029.8	3068.0	3079.9	3103.8	3068.0	3094.3	3084.7	3130.1	3158.8	3120.6	3146.8
27.5°	3211.3	3194.6	3225.7	3223.3	3252.0	3225.7	3242.4	3256.7	3268.7	3271.1	3259.1
30°	3373.8	3381.0	3349.9	3433.6	3366.7	3409.7	3438.3	3445.5	3459.8	3459.8	3424.0
32.5°	3545.9	3531.5	3581.7	3562.6	3550.6	3584.1	3553.0	3651.0	3593.7	3627.1	3586.5
35°	3739.4	3739.4	3758.5	3811.1	3739.4	3717.9	3775.2	3815.9	3815.9	3756.1	3770.5
37.5°	3956.8	3937.7	3961.6	4028.5	3973.6	3901.9	4007.0	4023.7	4011.8	3995.1	3966.4
40°	4109.8	4105.0	4152.8	4241.2	4162.3	4148.0	4167.1	4212.5	4226.8	4243.6	4205.3
42.5°	4367.8	4389.3	4527.9	4506.4	4441.9	4391.7	4386.9	4556.6	4516.0	4473.0	4451.4
45°	4750.1	4731.0	4802.7	4805.1	4721.4	4611.5	4635.4	4790.7	4860.0	4764.5	4800.3
47.5°	5053.6	5063.1	5113.3	5216.1	5022.5	4907.8	4996.2	5247.1	5225.6	5189.8	5223.2
50°	5459.8	5502.8	5660.5	5624.6	5452.6	5311.6	5505.2	5741.7	5768.0	5636.6	5612.7
52.5°	6021.3	6088.2	6174.2	6202.9	6038.0	5987.8	5999.8	6293.7	6229.2	6102.5	6021.3
55°	6513.5	6544.6	6702.3	6938.8	6926.9	6685.5	6824.1	6934.0	6671.2	6410.8	6432.3
57.5°	6723.8	6738.1	7177.7	7650.8	7932.8	7987.8	7830.1	7459.7	6833.7	6331.9	6300.8
60°	6200.5	6336.7	6867.1	7935.2	9223.1	9858.7	8809.7	7519.4	6453.8	5844.5	5799.1
62.5°	4955.6	4962.8	5751.3	7371.3	10025.9	11691.3	9184.8	6957.9	5440.7	4750.1	4568.5
64°	3529.1	3596.0	4501.6	6525.4	9858.7	12436.8	9139.4	6224.4	4484.9	3505.2	3378.6
65°	2532.8	2625.9	3500.5	5665.3	9466.8	12348.4	9003.2	5593.6	3627.1	2676.1	2547.1
67.5°	931.9	970.1	1373.9	2833.8	6797.8	10522.9	7134.7	3075.2	1593.7	1135.0	1020.3
70°	432.5	434.9	508.9	936.6	2972.4	7036.8	3404.9	1154.1	599.7	475.5	442.0
72.5°	317.8	325.0	356.0	432.5	874.5	2979.6	1118.2	473.1	351.2	310.6	303.5
75°	258.1	262.8	272.4	313.0	403.8	798.1	454.0	327.3	279.6	250.9	241.3
77.5°	198.3	198.3	219.8	238.9	267.6	372.7	301.1	260.4	227.0	198.3	191.2
80°	143.4	145.8	172.0	186.4	181.6	246.1	217.4	215.0	186.4	155.3	143.4
82.5°	83.6	90.8	124.2	133.8	129.0	145.8	157.7	167.3	145.8	107.5	98.0
85°	47.8	50.2	71.7	74.1	74.1	69.3	90.8	100.4	98.0	66.9	59.7
87.5°	14.3	14.3	19.1	19.1	21.5	23.9	35.8	43.0	47.8	33.5	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478899  
 CATALOG NUMBER: IFLD-S-SA3C-735-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6
2.5°	2477.8	2442.0	2444.4	2453.9	2422.8	2434.8	2470.6	2444.4	2437.2	2422.8	2415.7
5°	2465.9	2504.1	2489.8	2494.5	2487.4	2453.9	2449.1	2470.6	2482.6	2461.1	2504.1
7.5°	2549.5	2532.8	2513.6	2520.8	2504.1	2532.8	2551.9	2508.9	2530.4	2518.4	2494.5
10°	2597.3	2566.2	2580.5	2575.8	2563.8	2592.5	2573.4	2568.6	2549.5	2523.2	2561.4
12.5°	2614.0	2649.8	2673.7	2633.1	2640.3	2625.9	2614.0	2614.0	2592.5	2585.3	2592.5
15°	2688.1	2719.1	2709.6	2740.6	2700.0	2714.4	2728.7	2692.8	2712.0	2659.4	2700.0
17.5°	2824.3	2798.0	2831.4	2790.8	2805.2	2833.8	2788.4	2788.4	2802.8	2774.1	2738.2
20°	2910.3	2898.3	2886.4	2888.8	2864.9	2891.2	2876.8	2869.7	2848.2	2857.7	2876.8
22.5°	2991.5	2974.8	2979.6	2986.7	3003.5	2991.5	2984.4	2991.5	2939.0	2986.7	2919.8
25°	3091.9	3137.3	3122.9	3154.0	3106.2	3137.3	3134.9	3089.5	3118.2	3099.0	3084.7
27.5°	3259.1	3235.2	3256.7	3218.5	3252.0	3254.4	3225.7	3302.1	3268.7	3263.9	3254.4
30°	3474.2	3457.5	3443.1	3421.6	3447.9	3426.4	3450.3	3457.5	3426.4	3402.5	3357.1
32.5°	3596.0	3641.4	3658.2	3605.6	3608.0	3619.9	3598.4	3576.9	3596.0	3603.2	3596.0
35°	3768.1	3811.1	3820.6	3780.0	3758.5	3818.3	3775.2	3846.9	3784.8	3787.2	3722.7
37.5°	3968.8	3980.7	4062.0	4016.6	3997.5	3968.8	4047.6	4038.1	4052.4	3937.7	3995.1
40°	4195.8	4238.8	4284.2	4169.5	4167.1	4193.4	4188.6	4243.6	4217.3	4200.6	4159.9
42.5°	4444.3	4535.1	4542.2	4465.8	4418.0	4413.2	4437.1	4559.0	4561.4	4451.4	4403.7
45°	4774.0	4874.4	4848.1	4699.9	4647.4	4640.2	4757.3	4809.9	4855.3	4812.2	4771.6
47.5°	5185.0	5251.9	5232.8	5096.6	4926.9	4974.7	5089.4	5254.3	5206.5	5149.1	5101.4
50°	5624.6	5703.5	5662.9	5526.7	5364.2	5364.2	5505.2	5715.4	5701.1	5588.8	5545.8
52.5°	6112.1	6226.8	6320.0	6126.4	5990.2	6011.7	6233.9	6310.4	6274.6	6195.7	6159.9
55°	6475.3	6695.1	6886.2	6895.8	6903.0	6900.6	6957.9	7034.4	6778.7	6652.1	6523.1
57.5°	6386.9	6802.6	7457.3	7901.7	8033.2	8102.4	8083.3	7729.7	7125.2	6709.4	6752.4
60°	5756.1	6434.6	7490.8	8917.2	9873.0	9777.4	9428.6	8030.8	6934.0	6231.5	6143.1
62.5°	4592.4	5409.6	6929.3	9204.0	11837.1	11808.4	9982.9	7335.4	5777.6	4888.7	4833.7
64°	3459.8	4320.0	6181.4	9129.9	12525.2	12553.9	9841.9	6480.0	4520.7	3459.8	3376.2
65°	2647.5	3445.5	5447.8	8977.0	12377.1	12393.8	9450.1	5596.0	3436.0	2456.3	2365.5
67.5°	1053.7	1467.1	2955.7	6807.4	10628.0	10582.6	6742.9	2707.2	1314.2	855.4	838.7
70°	449.2	559.1	1037.0	3225.7	7115.6	6984.2	2903.1	879.3	487.4	408.6	406.2
72.5°	308.2	341.7	444.4	996.4	2958.1	2888.8	826.7	408.6	332.1	305.8	305.8
75°	248.5	272.4	322.6	418.1	783.7	755.0	389.5	301.1	265.2	246.1	243.7
77.5°	193.5	217.4	253.3	289.1	358.4	356.0	260.4	227.0	205.5	191.2	186.4
80°	152.9	176.8	200.7	205.5	234.2	229.4	176.8	179.2	167.3	138.6	136.2
82.5°	105.1	143.4	160.1	145.8	138.6	138.6	126.6	126.6	117.1	86.0	78.9
85°	64.5	95.6	100.4	86.0	64.5	64.5	69.3	66.9	62.1	45.4	43.0
87.5°	33.5	45.4	40.6	33.5	21.5	21.5	19.1	14.3	14.3	11.9	11.9
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)