

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: P479406

Luminaire Tested: **IFLD-S-SA3C-760-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479406  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-760-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

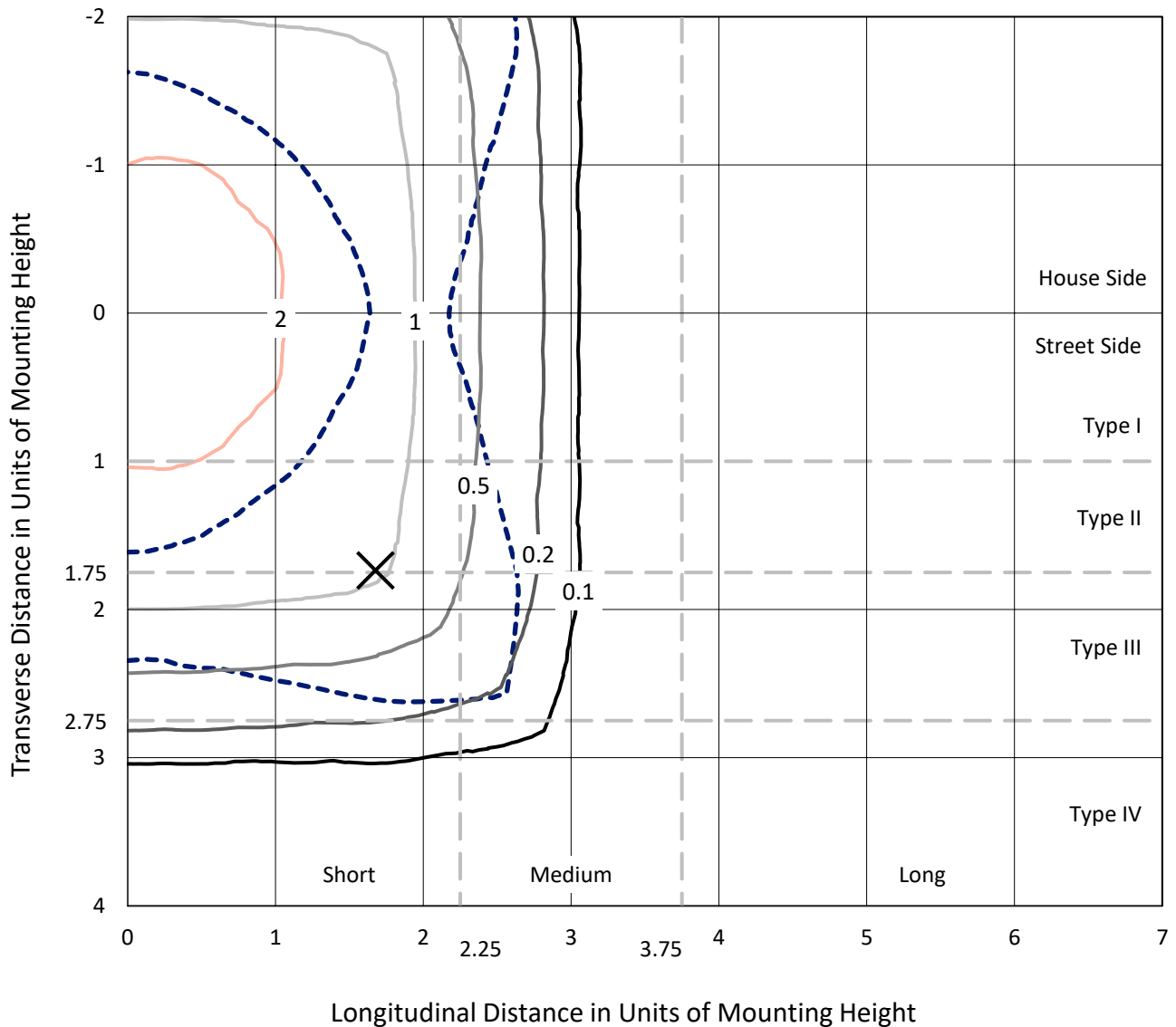
Lumens per Lamp: N/A  
Luminaire Lumens: 21870.9 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

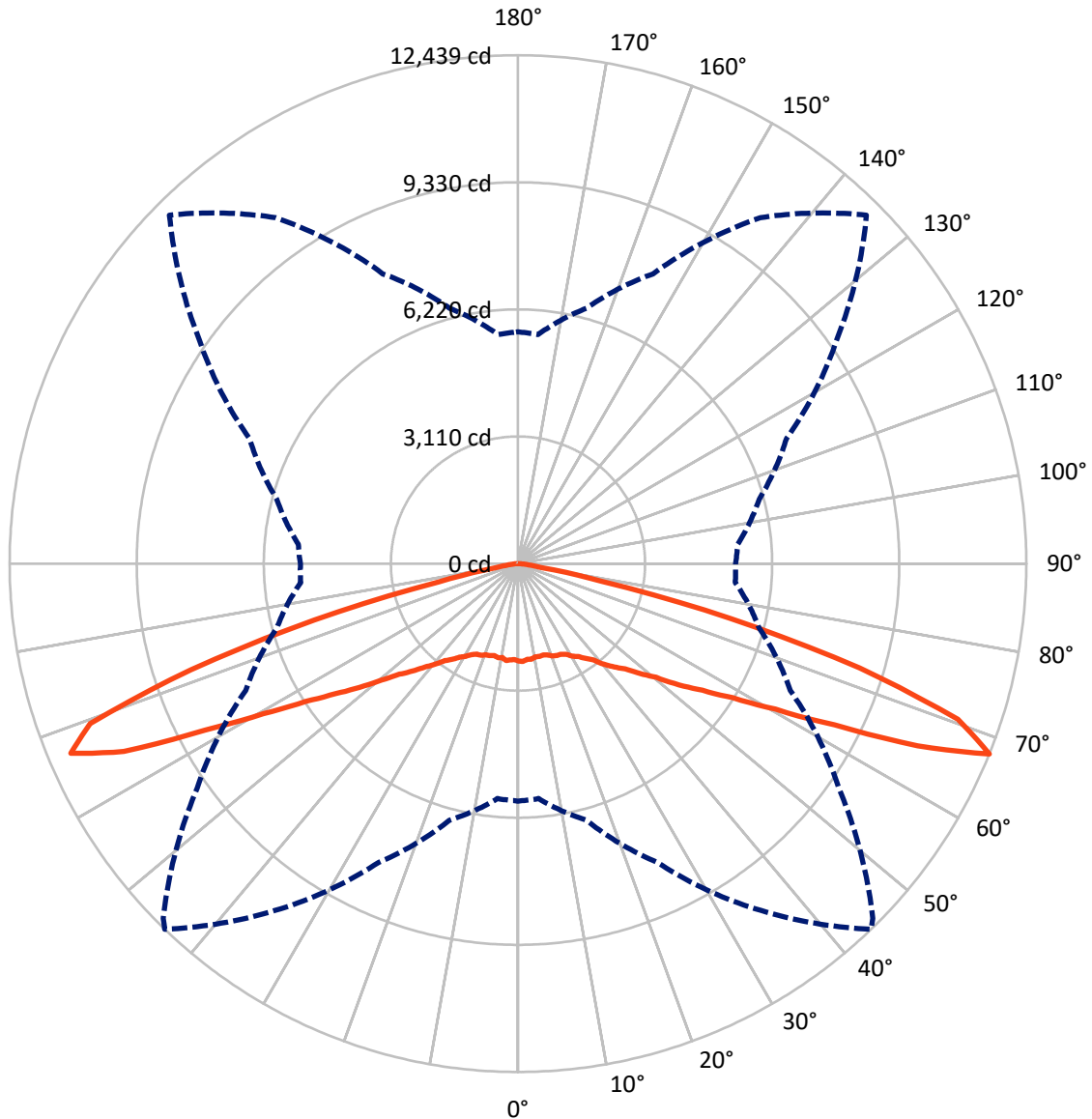
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P479406  
CATALOG NUMBER: IFLD-S-SA3C-760-U-5MQ

### 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	10907.4	0.0	10907.4
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	10963.4	0.0	10963.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	21870.9	0.0	21870.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.1	1.0
10°-20°	660.5	3.0
20°-30°	1123.2	5.1
30°-40°	1780.8	8.1
40°-50°	2903.8	13.3
50°-60°	4959.2	22.7
60°-70°	7542.9	34.5
70°-80°	2542.4	11.6
80°-90°	132.0	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°	21870.9	100.0
0°-180°	21870.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479406

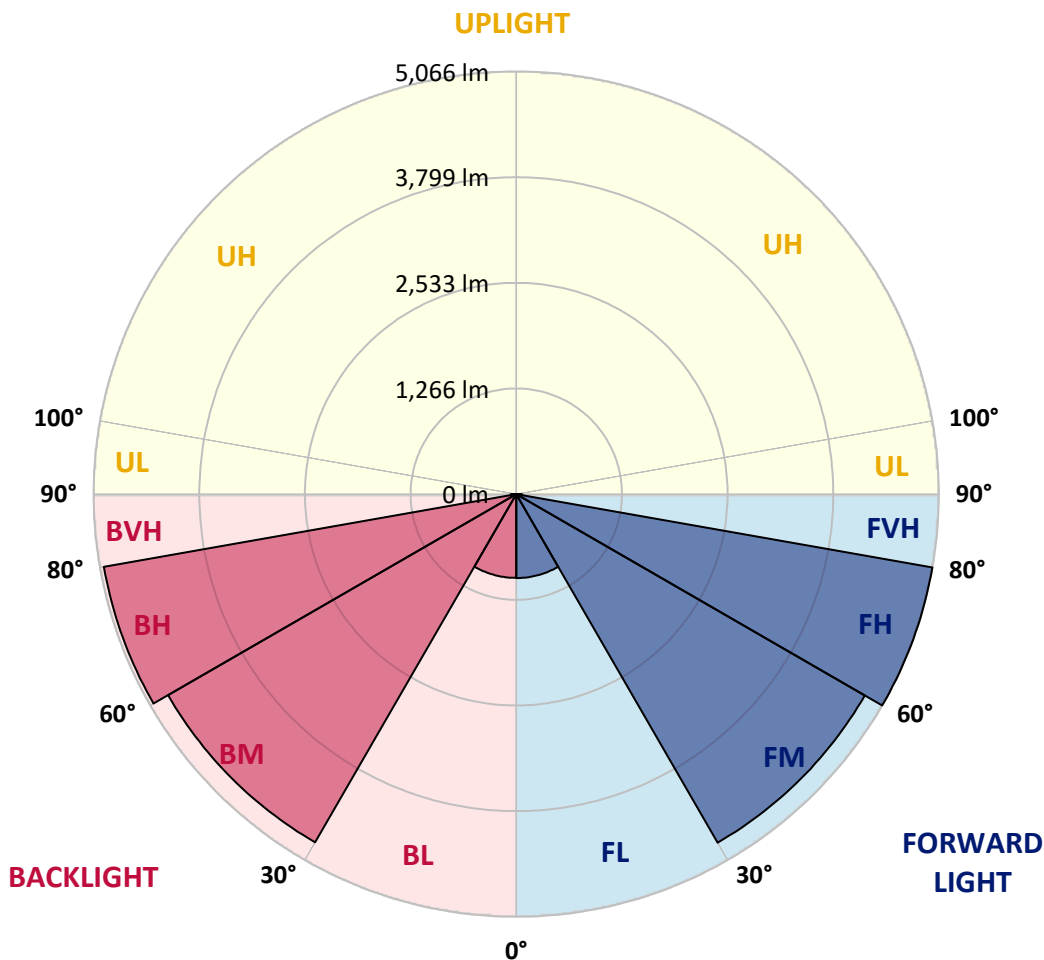
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.9	4.6			
FM (30°-60°)	4824.5	22.1			
FH (60°-80°)	5065.5	23.2			G3/7500
FVH (80°-90°)	67.5	0.3			G1/100
BL (0°-30°)	1003.8	4.6	B3/2500		
BM (30°-60°)	4819.3	22.0	B3/5000		
BH (60°-80°)	5019.9	23.0	B5		G3/7500
BVH (80°-90°)	64.5	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°	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0
2.5°	2334.1	2361.6	2381.5	2379.0	2386.5	2394.0	2384.0	2399.0	2389.0	2406.5	2416.5
5°	2379.0	2371.5	2374.0	2359.1	2394.0	2354.1	2374.0	2399.0	2369.0	2386.5	2386.5
7.5°	2351.6	2346.6	2334.1	2356.6	2364.1	2364.1	2384.0	2346.6	2389.0	2399.0	2401.5
10°	2321.6	2294.2	2331.6	2354.1	2359.1	2319.1	2336.6	2346.6	2334.1	2346.6	2354.1
12.5°	2296.7	2311.6	2311.6	2311.6	2304.1	2331.6	2349.1	2346.6	2321.6	2344.1	2304.1
15°	2294.2	2286.7	2309.1	2329.1	2316.6	2321.6	2329.1	2351.6	2304.1	2314.1	2314.1
17.5°	2291.7	2301.6	2309.1	2306.6	2349.1	2349.1	2341.6	2326.6	2364.1	2344.1	2316.6
20°	2301.6	2294.2	2314.1	2321.6	2351.6	2411.5	2389.0	2376.5	2356.6	2331.6	2331.6
22.5°	2314.1	2309.1	2336.6	2369.0	2426.5	2441.4	2438.9	2424.0	2389.0	2359.1	2354.1
25°	2359.1	2314.1	2344.1	2406.5	2426.5	2456.4	2476.4	2456.4	2409.0	2416.5	2371.5
27.5°	2426.5	2419.0	2458.9	2501.4	2483.9	2511.3	2493.9	2508.8	2511.3	2473.9	2429.0
30°	2506.3	2483.9	2508.8	2591.2	2598.7	2628.7	2598.7	2558.8	2571.3	2538.8	2516.3
32.5°	2621.2	2613.7	2661.1	2716.0	2726.0	2711.1	2696.1	2718.5	2666.1	2641.2	2601.2
35°	2696.1	2728.5	2785.9	2828.4	2860.8	2845.9	2853.3	2830.9	2843.4	2790.9	2773.5
37.5°	2918.2	2905.8	2918.2	2990.6	2998.1	2990.6	2998.1	3023.1	3005.6	2960.7	2915.8
40°	3127.9	3108.0	3137.9	3220.3	3215.3	3240.3	3190.4	3217.8	3217.8	3132.9	3115.5
42.5°	3285.2	3352.6	3387.6	3455.0	3479.9	3457.5	3447.5	3452.5	3507.4	3407.5	3370.1
45°	3609.7	3607.2	3712.1	3749.5	3679.6	3674.6	3654.7	3714.6	3752.0	3694.6	3679.6
47.5°	3961.7	3979.2	4039.1	4054.1	4096.5	4019.1	4019.1	4026.6	4158.9	4024.1	3954.2
50°	4278.8	4301.2	4421.1	4538.4	4458.5	4376.1	4408.6	4448.5	4520.9	4393.6	4333.7
52.5°	4663.2	4785.5	4865.4	4927.8	4985.2	4927.8	4852.9	4897.9	5040.2	4870.4	4795.5
55°	5217.4	5314.8	5389.6	5504.5	5551.9	5474.5	5467.0	5462.0	5541.9	5362.2	5259.8
57.5°	5836.5	5796.6	5916.4	6093.6	6265.9	6191.0	6168.5	6173.5	6193.5	5938.8	5861.5
60°	6605.4	6650.3	6792.6	6947.4	7129.6	7234.5	7087.2	7002.3	7019.8	6672.8	6553.0
62.5°	7044.7	7144.6	7466.6	7998.3	8365.3	8692.3	8714.8	8163.1	7793.6	7119.6	6610.4
65°	6832.5	6817.6	7424.2	8407.8	9798.2	10749.3	10607.0	9269.0	7978.4	6907.4	6223.4
67.5°	5811.5	5771.6	6505.5	8065.7	10362.4	12439.4	12277.1	9581.0	7354.3	6111.1	5337.2
70°	3744.5	3734.6	4530.9	6148.5	9251.5	11420.9	11480.8	8702.3	5986.3	4476.0	3709.6
72.5°	1360.5	1442.9	1904.7	3305.2	6283.3	8737.3	8774.7	6443.1	3442.5	2069.5	1525.3
75°	501.8	516.7	601.6	1073.4	2863.3	5364.7	5504.5	3125.4	1223.2	674.0	549.2
77.5°	289.6	292.1	322.0	399.4	848.8	2094.4	2179.3	948.6	474.3	359.5	332.0
80°	197.2	194.7	227.2	259.6	339.5	594.1	631.6	396.9	299.6	249.6	209.7
82.5°	114.8	122.3	167.3	184.7	207.2	262.1	267.1	247.1	224.7	184.7	137.3
85°	69.9	57.4	92.4	102.4	119.8	117.3	117.3	134.8	144.8	129.8	77.4
87.5°	17.5	17.5	22.5	25.0	32.5	25.0	27.5	52.4	69.9	64.9	39.9
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°	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0	2389.0
2.5°	2394.0	2386.5	2391.5	2419.0	2401.5	2349.1	2361.6	2389.0	2366.6	2354.1	2351.6
5°	2384.0	2399.0	2381.5	2386.5	2404.0	2361.6	2369.0	2404.0	2389.0	2394.0	2366.6
7.5°	2386.5	2394.0	2379.0	2356.6	2356.6	2391.5	2371.5	2376.5	2354.1	2391.5	2341.6
10°	2371.5	2351.6	2334.1	2346.6	2341.6	2331.6	2324.1	2339.1	2316.6	2349.1	2314.1
12.5°	2326.6	2331.6	2326.6	2321.6	2331.6	2356.6	2316.6	2321.6	2286.7	2291.7	2309.1
15°	2309.1	2324.1	2319.1	2346.6	2359.1	2321.6	2351.6	2321.6	2294.2	2279.2	2306.6
17.5°	2316.6	2339.1	2331.6	2351.6	2329.1	2356.6	2361.6	2349.1	2316.6	2304.1	2316.6
20°	2324.1	2316.6	2326.6	2361.6	2394.0	2366.6	2366.6	2359.1	2329.1	2311.6	2311.6
22.5°	2341.6	2329.1	2344.1	2371.5	2381.5	2424.0	2386.5	2369.0	2319.1	2274.2	2316.6
25°	2376.5	2384.0	2394.0	2384.0	2438.9	2434.0	2429.0	2416.5	2339.1	2341.6	2334.1
27.5°	2443.9	2401.5	2414.0	2473.9	2481.4	2501.4	2476.4	2498.9	2416.5	2419.0	2369.0
30°	2526.3	2481.4	2521.3	2573.8	2571.3	2608.7	2596.2	2601.2	2543.8	2511.3	2443.9
32.5°	2616.2	2611.2	2636.2	2668.6	2681.1	2701.1	2698.6	2698.6	2663.6	2578.7	2591.2
35°	2716.0	2751.0	2780.9	2815.9	2820.9	2845.9	2810.9	2815.9	2780.9	2718.5	2738.5
37.5°	2913.3	2910.8	2943.2	2985.6	2990.6	2970.7	2998.1	2985.6	2938.2	2895.8	2863.3
40°	3142.9	3093.0	3122.9	3222.8	3230.3	3195.3	3192.8	3190.4	3155.4	3063.0	3043.1
42.5°	3342.6	3407.5	3402.5	3435.0	3412.5	3395.1	3457.5	3422.5	3395.1	3297.7	3280.2
45°	3599.8	3619.7	3684.6	3789.5	3682.1	3682.1	3724.6	3697.1	3682.1	3609.7	3542.3
47.5°	3919.3	3936.8	4066.6	4074.1	4004.2	3956.7	4089.0	4094.0	4031.6	3976.7	3894.3
50°	4293.7	4301.2	4418.6	4538.4	4461.0	4371.1	4505.9	4558.4	4418.6	4343.7	4241.3
52.5°	4705.6	4683.2	4780.5	5005.2	4930.3	4902.9	5047.6	5060.1	4870.4	4753.1	4780.5
55°	5180.0	5150.0	5414.6	5566.9	5519.5	5469.5	5534.4	5564.4	5412.1	5219.9	5287.3
57.5°	5794.1	5809.0	5941.3	6091.1	6168.5	6181.0	6211.0	6181.0	6026.2	5831.5	5769.1
60°	6408.2	6453.1	6710.2	6992.3	7017.3	7237.0	7197.0	7047.2	6827.6	6550.5	6562.9
62.5°	6635.3	6597.9	7012.3	7701.3	8287.9	8689.8	8512.6	7980.9	7471.6	6967.3	7004.8
65°	6178.5	6270.9	6835.0	7913.5	9186.6	10776.8	9833.2	8362.8	7334.3	6682.8	6610.4
67.5°	5324.7	5394.6	6111.1	7249.4	9508.6	12059.9	10332.4	7823.6	6468.1	5624.3	5669.2
70°	3709.6	3744.5	4446.0	5938.8	8622.4	11380.9	9321.4	6008.7	4466.0	3559.8	3609.7
72.5°	1492.8	1577.7	2039.5	3577.3	6365.7	8647.4	6275.9	3152.9	1852.3	1378.0	1250.7
75°	551.7	554.2	651.6	1230.7	3023.1	5434.6	2830.9	1013.5	591.6	484.3	461.8
77.5°	319.5	317.0	339.5	444.4	876.2	2121.9	803.8	396.9	322.0	289.6	277.1
80°	199.7	197.2	232.2	294.6	384.4	581.7	339.5	247.1	217.2	187.2	187.2
82.5°	127.3	129.8	182.2	217.2	234.7	257.1	197.2	174.7	162.3	107.3	104.8
85°	82.4	74.9	127.3	144.8	129.8	114.8	109.8	92.4	84.9	52.4	57.4
87.5°	37.4	39.9	64.9	72.4	47.4	27.5	27.5	20.0	20.0	12.5	12.5
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)