

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: P479341

Luminaire Tested: **IFLD-S-SA6A-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479341
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

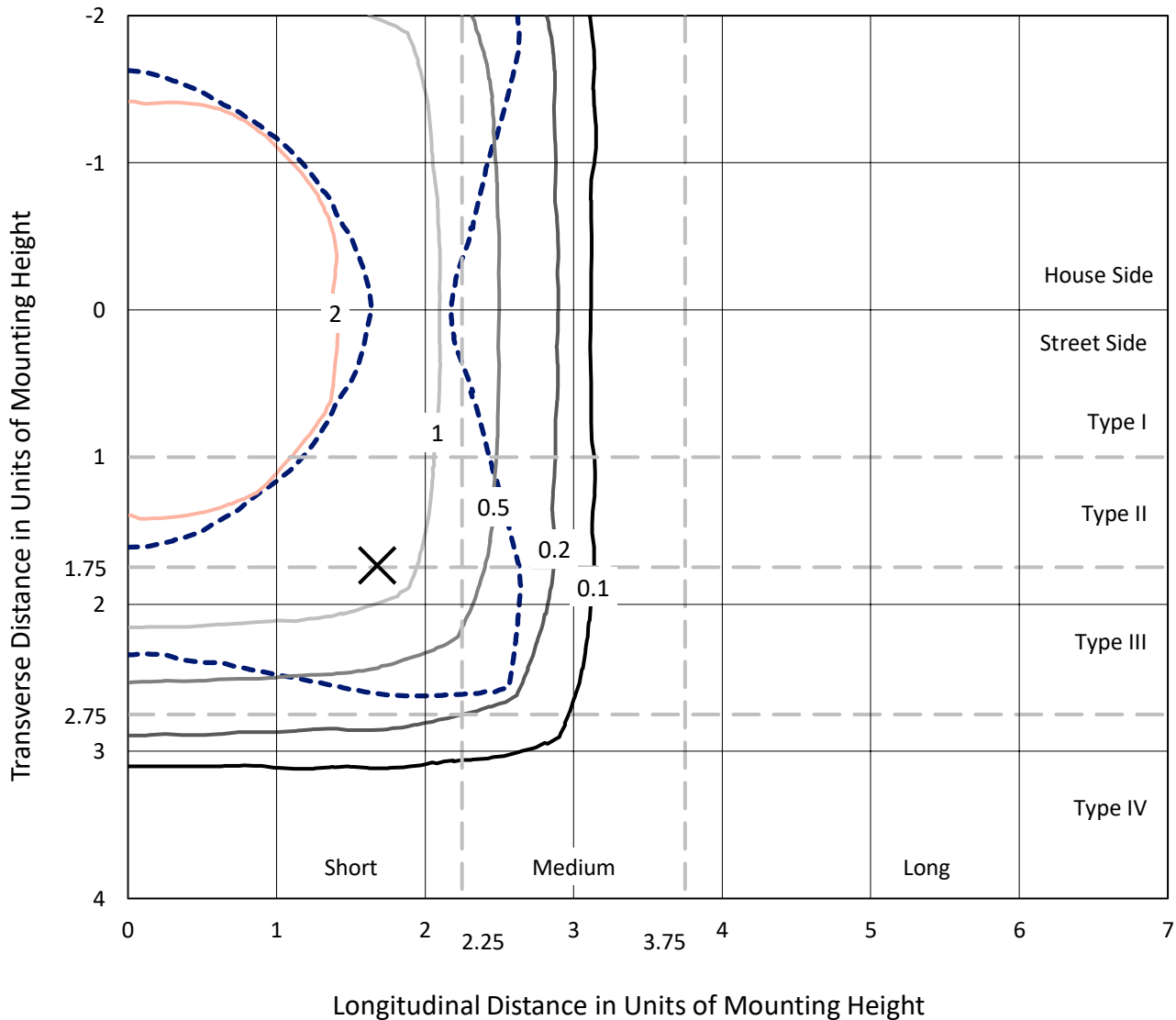
Lumens per Lamp: N/A
Luminaire Lumens: 27243.9 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 189.6
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

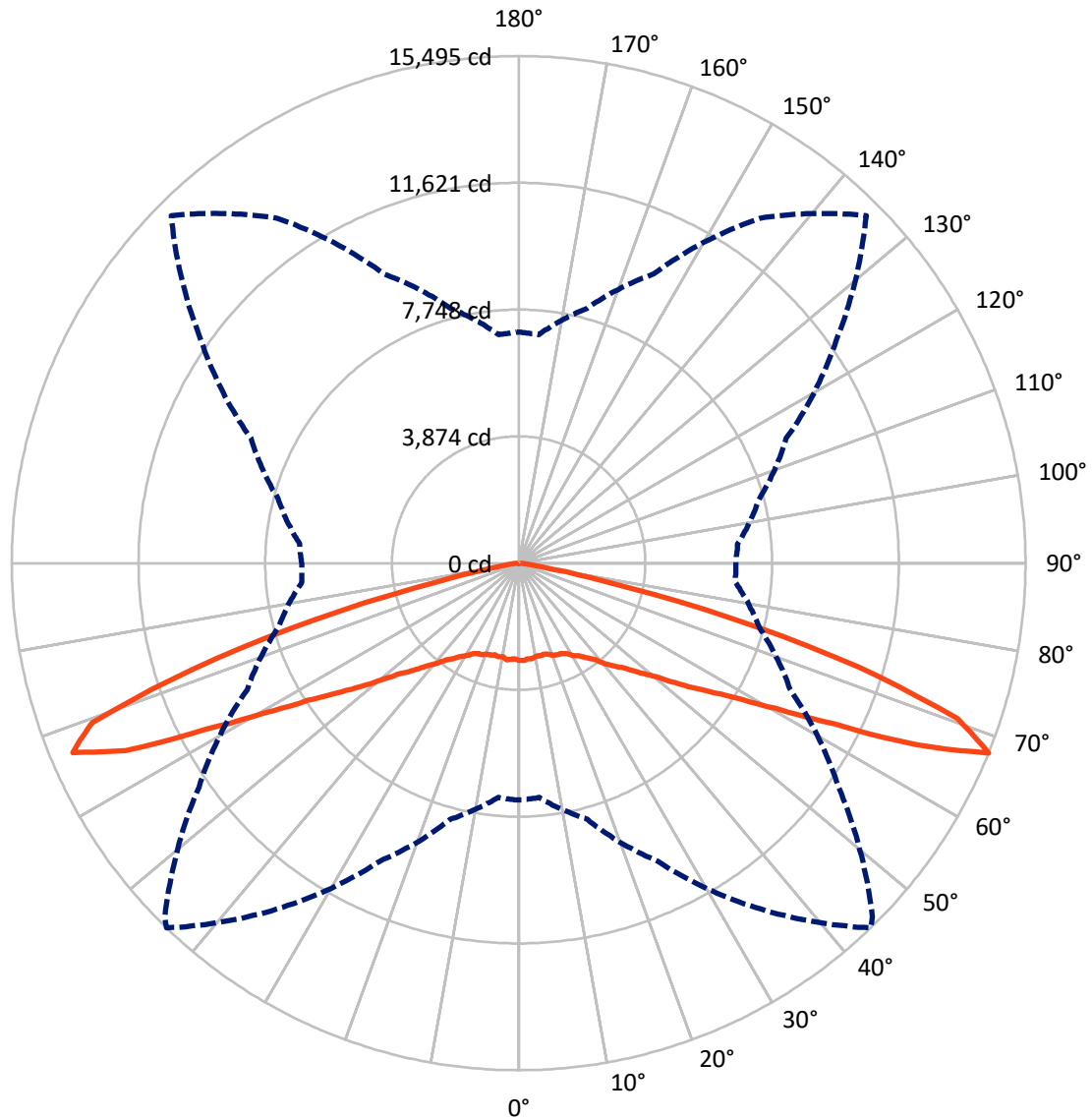
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	13587.1	0.0	13587.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13656.8	0.0	13656.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	27243.9	0.0	27243.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	1.0
10°-20°	822.7	3.0
20°-30°	1399.1	5.1
30°-40°	2218.3	8.1
40°-50°	3617.1	13.3
50°-60°	6177.6	22.7
60°-70°	9396.0	34.5
70°-80°	3167.0	11.6
80°-90°	164.4	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°	27243.9	100.0
0°-180°	27243.9	100.0

Coefficient of Utilization

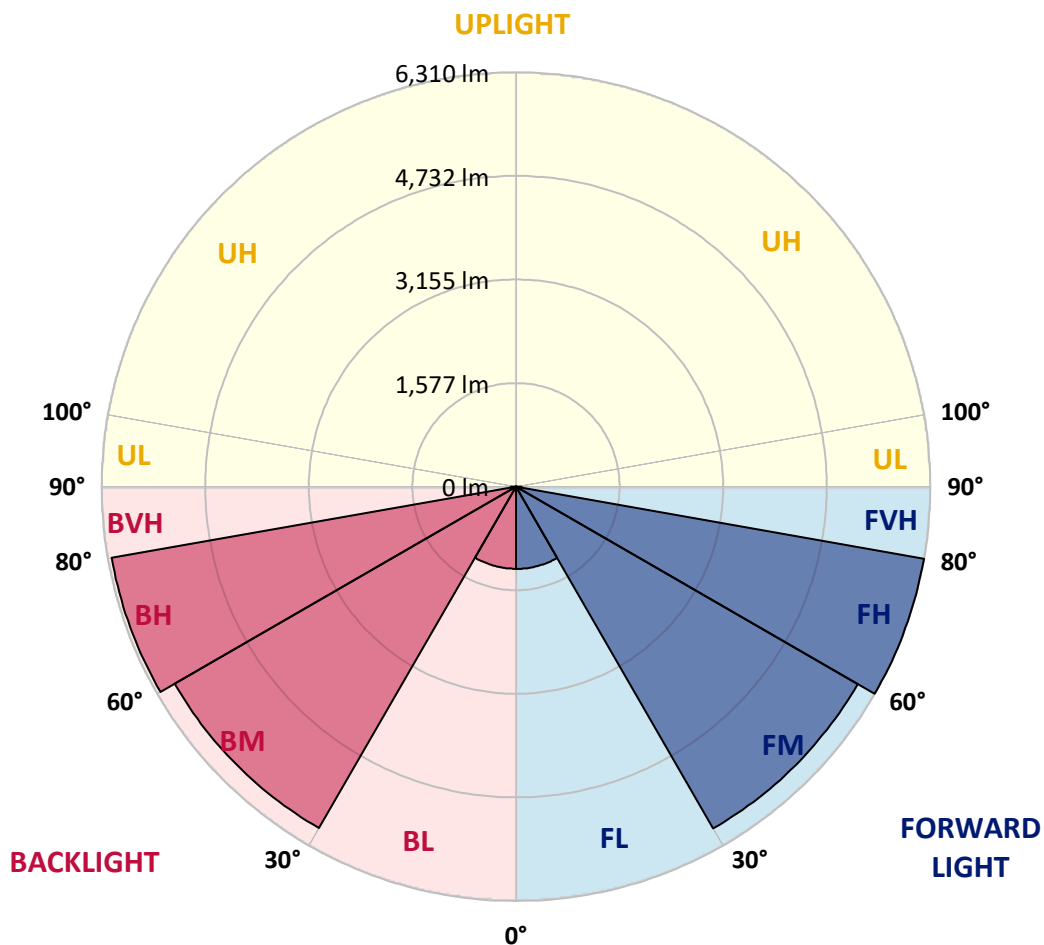


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.0	4.6			
FM (30°-60°)	6009.7	22.1			
FH (60°-80°)	6310.0	23.2			G3/7500
FVH (80°-90°)	84.1	0.3			G1/100
BL (0°-30°)	1250.4	4.6	B3/2500		
BM (30°-60°)	6003.2	22.0	B4/8500		
BH (60°-80°)	6253.1	23.0	B5		G3/7500
BVH (80°-90°)	80.3	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°	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9
2.5°	2907.5	2941.7	2966.6	2963.5	2972.8	2982.1	2969.7	2988.4	2975.9	2997.7	3010.1
5°	2963.5	2954.2	2957.3	2938.6	2982.1	2932.4	2932.4	2957.3	2988.4	2951.0	2972.8
7.5°	2929.3	2923.1	2907.5	2935.5	2944.8	2944.8	2969.7	2923.1	2975.9	2988.4	2991.5
10°	2892.0	2857.8	2904.4	2932.4	2938.6	2888.9	2910.6	2923.1	2907.5	2923.1	2932.4
12.5°	2860.9	2879.5	2879.5	2879.5	2870.2	2904.4	2926.2	2923.1	2892.0	2920.0	2870.2
15°	2857.8	2848.4	2876.4	2901.3	2885.7	2892.0	2901.3	2929.3	2870.2	2882.6	2882.6
17.5°	2854.6	2867.1	2876.4	2873.3	2926.2	2926.2	2916.8	2898.2	2944.8	2920.0	2885.7
20°	2867.1	2857.8	2882.6	2892.0	2929.3	3003.9	2975.9	2960.4	2935.5	2904.4	2904.4
22.5°	2882.6	2876.4	2910.6	2951.0	3022.6	3041.2	3038.1	3019.5	2975.9	2938.6	2932.4
25°	2938.6	2882.6	2920.0	2997.7	3022.6	3059.9	3084.8	3059.9	3000.8	3010.1	2954.2
27.5°	3022.6	3013.2	3063.0	3115.9	3094.1	3128.3	3106.5	3125.2	3128.3	3081.7	3025.7
30°	3122.1	3094.1	3125.2	3227.8	3237.1	3274.4	3237.1	3187.4	3202.9	3162.5	3134.5
32.5°	3265.1	3255.8	3314.9	3383.3	3395.7	3377.1	3358.4	3386.4	3321.1	3290.0	3240.2
35°	3358.4	3398.8	3470.4	3523.2	3563.6	3545.0	3554.3	3526.3	3541.9	3476.6	3454.8
37.5°	3635.2	3619.6	3635.2	3725.3	3734.7	3725.3	3734.7	3765.8	3744.0	3688.0	3632.1
40°	3896.4	3871.5	3908.8	4011.4	4005.2	4036.3	3974.1	4008.3	4008.3	3902.6	3880.8
42.5°	4092.3	4176.2	4219.8	4303.7	4334.8	4306.8	4294.4	4300.6	4369.0	4244.7	4198.0
45°	4496.5	4493.4	4624.0	4670.7	4583.6	4577.4	4552.5	4627.1	4673.8	4602.3	4583.6
47.5°	4935.0	4956.8	5031.4	5050.1	5102.9	5006.5	5006.5	5015.8	5180.7	5012.7	4925.7
50°	5329.9	5357.9	5507.2	5653.3	5553.8	5451.2	5491.6	5541.4	5631.6	5473.0	5398.3
52.5°	5808.8	5961.2	6060.7	6138.4	6209.9	6138.4	6045.1	6101.1	6278.4	6066.9	5973.6
55°	6499.1	6620.4	6713.7	6856.8	6915.8	6819.4	6810.1	6803.9	6903.4	6679.5	6552.0
57.5°	7270.3	7220.6	7369.8	7590.6	7805.2	7711.9	7683.9	7690.1	7715.0	7397.8	7301.4
60°	8228.1	8284.1	8461.3	8654.1	8881.1	9011.7	8828.3	8722.5	8744.3	8312.1	8162.8
62.5°	8775.4	8899.8	9300.9	9963.3	10420.4	10827.8	10855.7	10168.5	9708.3	8868.7	8234.3
65°	8511.1	8492.4	9248.1	10473.3	12205.3	13390.1	13212.9	11546.1	9938.4	8604.4	7752.3
67.5°	7239.2	7189.5	8103.7	10047.2	12908.1	15495.3	15293.2	11934.8	9161.0	7612.4	6648.4
70°	4664.5	4652.0	5644.0	7659.0	11524.3	14226.6	14301.2	10840.2	7456.9	5575.6	4620.9
72.5°	1694.8	1797.4	2372.7	4117.2	7827.0	10883.7	10930.4	8026.0	4288.2	2577.9	1900.0
75°	625.0	643.7	749.4	1337.1	3566.8	6682.6	6856.8	3893.3	1523.7	839.6	684.1
77.5°	360.7	363.8	401.1	497.5	1057.3	2609.0	2714.7	1181.7	590.8	447.8	413.6
80°	245.7	242.6	283.0	323.4	422.9	740.1	786.7	494.4	373.2	311.0	261.2
82.5°	143.0	152.4	208.3	230.1	258.1	326.5	332.7	307.9	279.9	230.1	171.0
85°	87.1	71.5	115.1	127.5	149.3	146.2	146.2	167.9	180.4	161.7	96.4
87.5°	21.8	21.8	28.0	31.1	40.4	31.1	34.2	65.3	87.1	80.9	49.8
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°	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9	2975.9
2.5°	2982.1	2972.8	2979.0	3013.2	2991.5	2926.2	2941.7	2975.9	2947.9	2932.4	2929.3
5°	2969.7	2988.4	2966.6	2972.8	2994.6	2941.7	2951.0	2994.6	2975.9	2982.1	2947.9
7.5°	2972.8	2982.1	2963.5	2935.5	2935.5	2979.0	2954.2	2960.4	2932.4	2979.0	2916.8
10°	2954.2	2929.3	2907.5	2923.1	2916.8	2904.4	2895.1	2913.7	2885.7	2926.2	2882.6
12.5°	2898.2	2904.4	2898.2	2892.0	2904.4	2935.5	2885.7	2892.0	2848.4	2854.6	2876.4
15°	2876.4	2895.1	2888.9	2923.1	2938.6	2892.0	2929.3	2892.0	2857.8	2839.1	2873.3
17.5°	2885.7	2913.7	2904.4	2929.3	2901.3	2935.5	2941.7	2926.2	2885.7	2870.2	2885.7
20°	2895.1	2885.7	2898.2	2941.7	2982.1	2947.9	2947.9	2938.6	2901.3	2879.5	2879.5
22.5°	2916.8	2901.3	2920.0	2954.2	2966.6	3019.5	2972.8	2951.0	2888.9	2832.9	2885.7
25°	2960.4	2969.7	2982.1	2969.7	3038.1	3031.9	3025.7	3010.1	2913.7	2916.8	2907.5
27.5°	3044.3	2991.5	3007.0	3081.7	3091.0	3115.9	3084.8	3112.7	3010.1	3013.2	2951.0
30°	3147.0	3091.0	3140.7	3206.0	3202.9	3249.6	3234.0	3240.2	3168.7	3128.3	3044.3
32.5°	3258.9	3252.7	3283.8	3324.2	3339.8	3364.6	3361.5	3361.5	3318.0	3212.3	3227.8
35°	3383.3	3426.8	3464.1	3507.7	3513.9	3545.0	3501.5	3507.7	3464.1	3386.4	3411.3
37.5°	3628.9	3625.8	3666.3	3719.1	3725.3	3700.5	3734.7	3719.1	3660.0	3607.2	3566.8
40°	3915.0	3852.8	3890.2	4014.5	4023.9	3980.3	3977.2	3974.1	3930.6	3815.5	3790.6
42.5°	4163.8	4244.7	4238.4	4278.9	4250.9	4229.1	4306.8	4263.3	4229.1	4107.8	4086.1
45°	4484.1	4509.0	4589.8	4720.4	4586.7	4586.7	4639.6	4605.4	4586.7	4496.5	4412.6
47.5°	4882.1	4903.9	5065.6	5074.9	4987.9	4928.8	5093.6	5099.8	5022.1	4953.7	4851.0
50°	5348.6	5357.9	5504.1	5653.3	5556.9	5445.0	5612.9	5678.2	5504.1	5410.8	5283.3
52.5°	5861.7	5833.7	5955.0	6234.8	6141.5	6107.3	6287.7	6303.2	6066.9	5920.8	5955.0
55°	6452.5	6415.2	6744.8	6934.5	6875.4	6813.2	6894.1	6931.4	6741.7	6502.3	6586.2
57.5°	7217.5	7236.1	7400.9	7587.5	7683.9	7699.5	7736.8	7699.5	7506.7	7264.1	7186.4
60°	7982.4	8038.4	8358.7	8710.1	8741.2	9014.8	8965.1	8778.5	8504.9	8159.7	8175.2
62.5°	8265.4	8218.8	8735.0	9593.2	10324.0	10824.7	10603.9	9941.5	9307.1	8679.0	8725.6
65°	7696.4	7811.4	8514.2	9857.6	11443.5	13424.3	12248.9	10417.3	9136.1	8324.5	8234.3
67.5°	6632.9	6719.9	7612.4	9030.4	11844.6	15022.7	12870.8	9745.6	8057.1	7006.0	7062.0
70°	4620.9	4664.5	5538.3	7397.8	10740.7	14176.8	11611.4	7484.9	5563.1	4434.3	4496.5
72.5°	1859.6	1965.3	2540.6	4456.1	7929.6	10771.8	7817.6	3927.5	2307.4	1716.5	1557.9
75°	687.2	690.3	811.6	1533.1	3765.8	6769.7	3526.3	1262.5	737.0	603.3	575.3
77.5°	398.0	394.9	422.9	553.5	1091.5	2643.2	1001.3	494.4	401.1	360.7	345.2
80°	248.8	245.7	289.2	366.9	478.9	724.5	422.9	307.9	270.5	233.2	233.2
82.5°	158.6	161.7	227.0	270.5	292.3	320.3	245.7	217.7	202.1	133.7	130.6
85°	102.6	93.3	158.6	180.4	161.7	143.0	136.8	115.1	105.7	65.3	71.5
87.5°	46.6	49.8	80.9	90.2	59.1	34.2	34.2	24.9	24.9	15.5	15.5
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)