

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: P479419

Luminaire Tested: **IFLD-S-SA6A-760-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479419
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

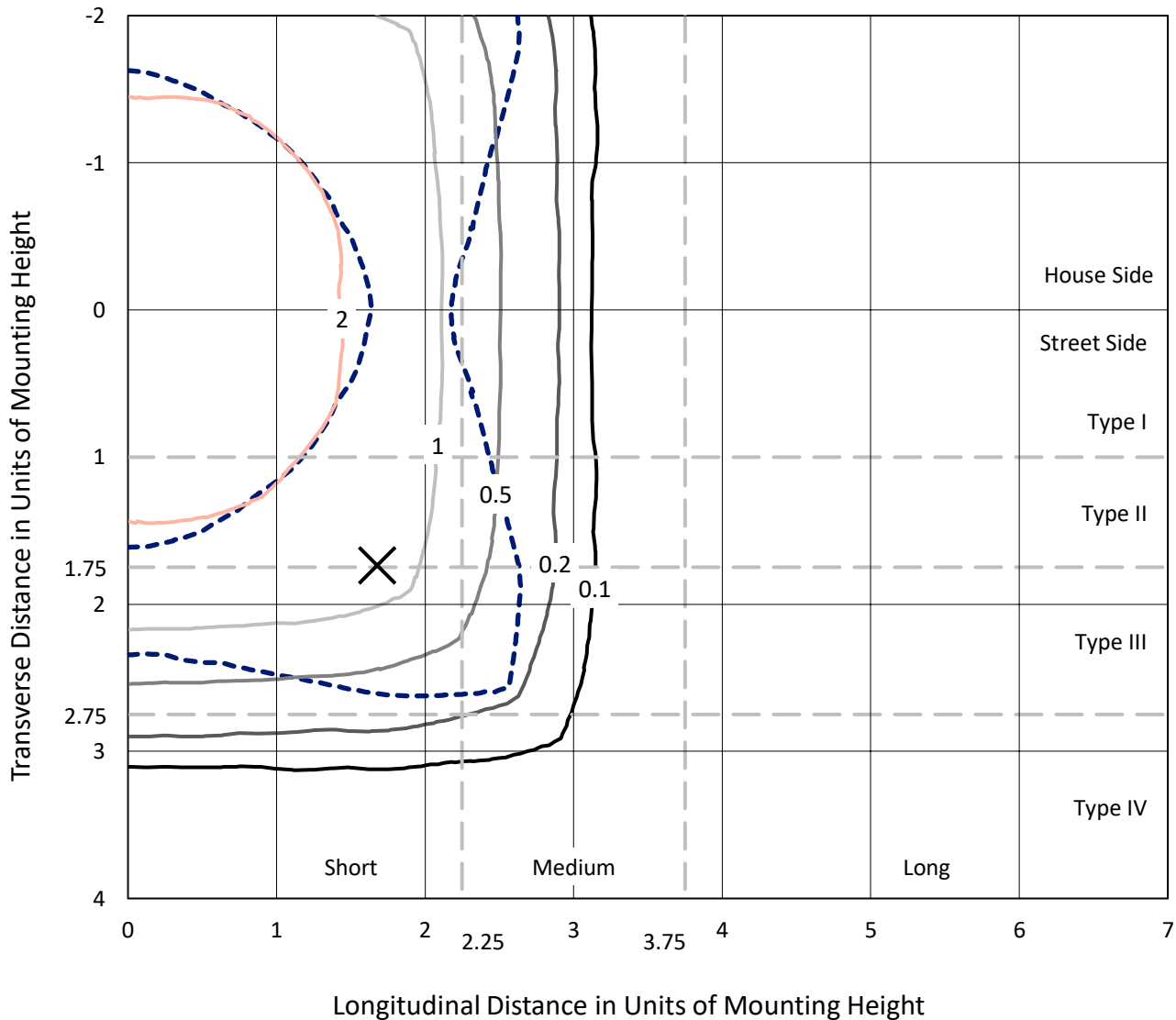
Lumens per Lamp: N/A
Luminaire Lumens: 27867.8 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 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

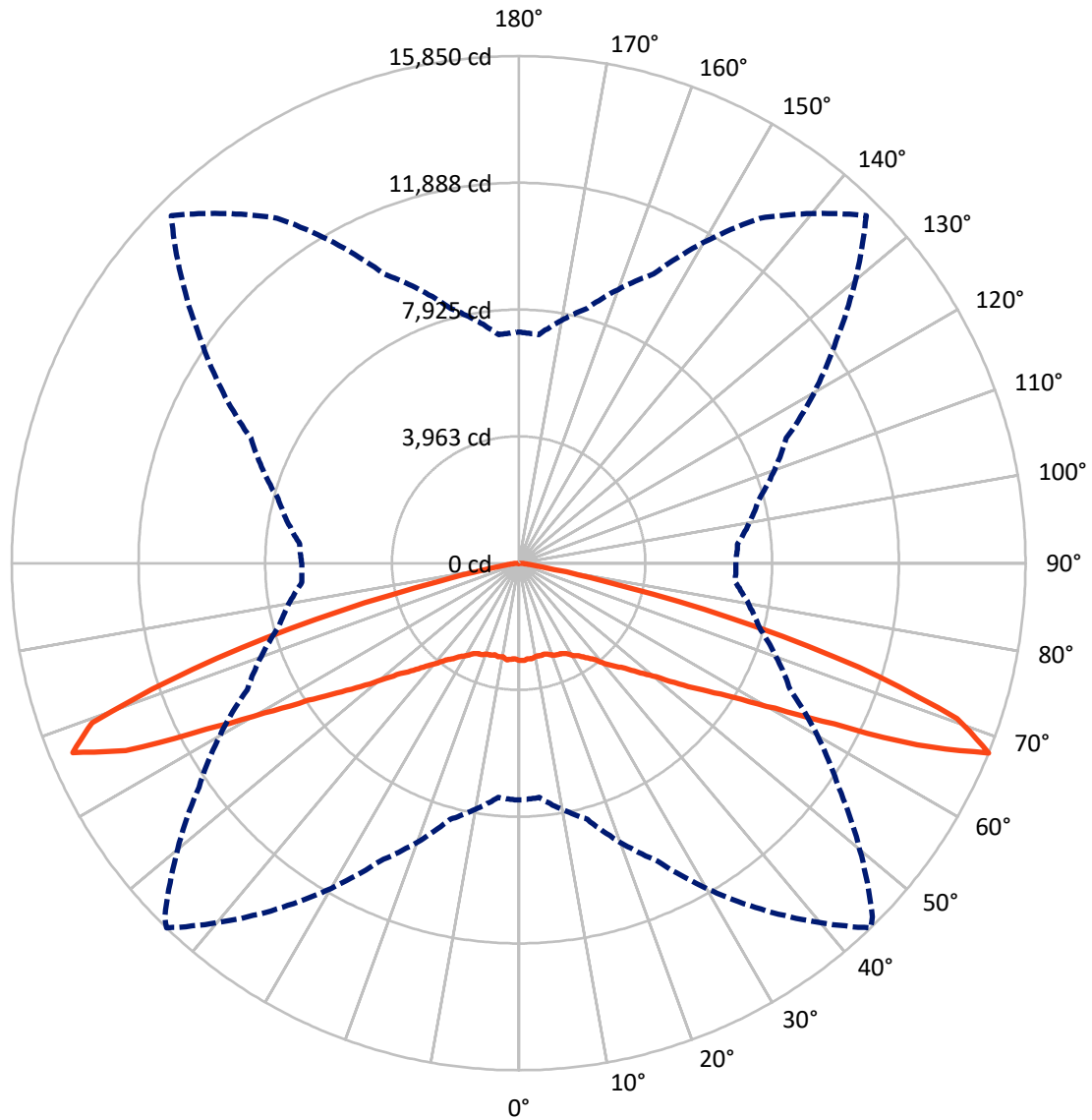
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	13898.2	0.0	13898.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13969.6	0.0	13969.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	27867.8	0.0	27867.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	1.0
10°-20°	841.6	3.0
20°-30°	1431.1	5.1
30°-40°	2269.1	8.1
40°-50°	3700.0	13.3
50°-60°	6319.0	22.7
60°-70°	9611.2	34.5
70°-80°	3239.6	11.6
80°-90°	168.2	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°	27867.8	100.0
0°-180°	27867.8	100.0

Coefficient of Utilization



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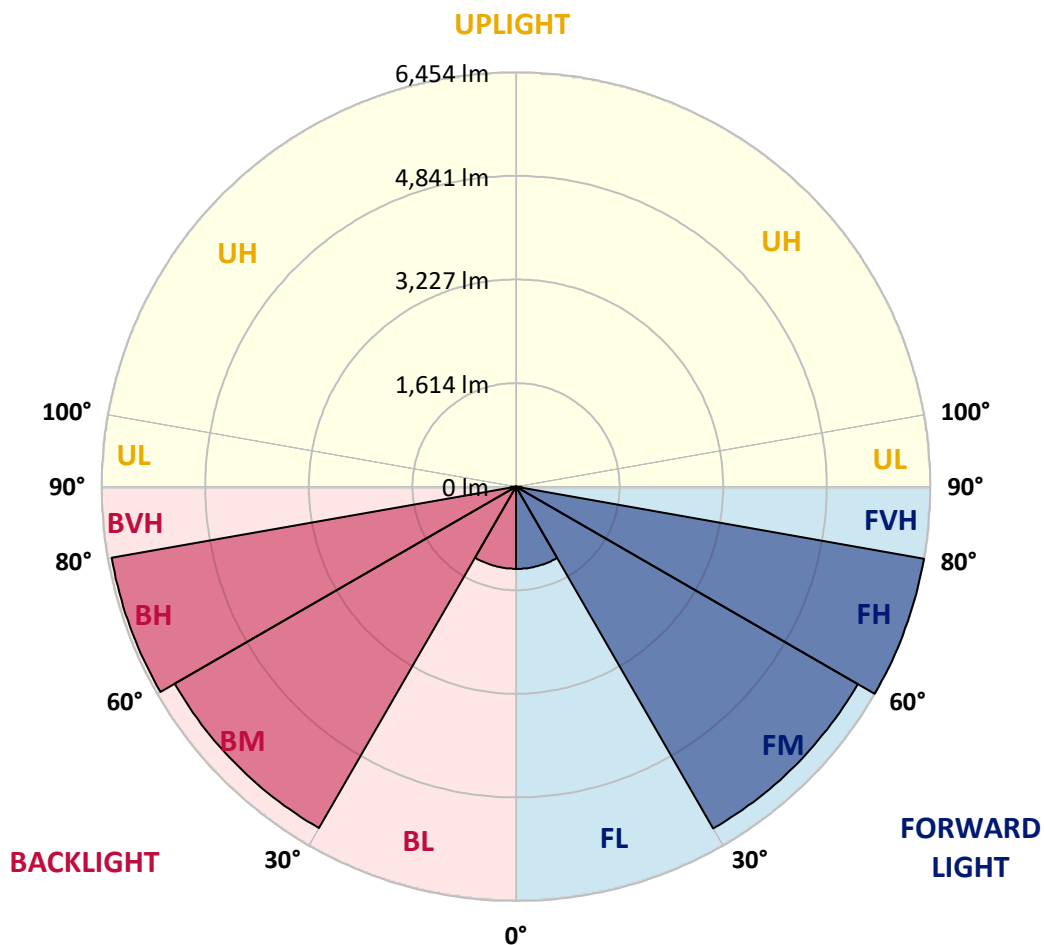
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.7	4.6			
FM (30°-60°)	6147.4	22.1			
FH (60°-80°)	6454.5	23.2			G3/7500
FVH (80°-90°)	86.0	0.3			G1/100
BL (0°-30°)	1279.1	4.6	B3/2500		
BM (30°-60°)	6140.7	22.0	B4/8500		
BH (60°-80°)	6396.3	23.0	B5		G3/7500
BVH (80°-90°)	82.2	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°	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1
2.5°	2974.1	3009.1	3034.5	3031.3	3040.9	3050.4	3037.7	3056.8	3044.1	3066.3	3079.1
5°	3031.3	3021.8	3025.0	3005.9	3050.4	2999.5	2999.5	3025.0	3056.8	3018.6	3040.9
7.5°	2996.4	2990.0	2974.1	3002.7	3012.3	3012.3	3037.7	2990.0	3044.1	3056.8	3060.0
10°	2958.2	2923.2	2970.9	2999.5	3005.9	2955.0	2977.3	2990.0	2974.1	2990.0	2999.5
12.5°	2926.4	2945.5	2945.5	2945.5	2935.9	2970.9	2993.2	2990.0	2958.2	2986.8	2935.9
15°	2923.2	2913.7	2942.3	2967.7	2951.8	2958.2	2967.7	2996.4	2935.9	2948.6	2948.6
17.5°	2920.0	2932.7	2942.3	2939.1	2993.2	2993.2	2983.6	2964.6	3012.3	2986.8	2951.8
20°	2932.7	2923.2	2948.6	2958.2	2996.4	3072.7	3044.1	3028.2	3002.7	2970.9	2970.9
22.5°	2948.6	2942.3	2977.3	3018.6	3091.8	3110.9	3107.7	3088.6	3044.1	3005.9	2999.5
25°	3005.9	2948.6	2986.8	3066.3	3091.8	3130.0	3155.4	3130.0	3069.5	3079.1	3021.8
27.5°	3091.8	3082.2	3133.1	3187.2	3164.9	3199.9	3177.7	3196.8	3199.9	3152.2	3095.0
30°	3193.6	3164.9	3196.8	3301.7	3311.3	3349.4	3311.3	3260.4	3276.3	3234.9	3206.3
32.5°	3339.9	3330.3	3390.8	3460.8	3473.5	3454.4	3435.3	3463.9	3397.1	3365.3	3314.4
35°	3435.3	3476.7	3549.8	3603.9	3645.3	3626.2	3635.7	3607.1	3623.0	3556.2	3533.9
37.5°	3718.4	3702.5	3718.4	3810.7	3820.2	3810.7	3820.2	3852.0	3829.7	3772.5	3715.2
40°	3985.6	3960.2	3998.3	4103.3	4096.9	4128.7	4065.1	4100.1	4100.1	3992.0	3969.7
42.5°	4186.0	4271.9	4316.4	4402.3	4434.1	4405.5	4392.8	4399.1	4469.1	4341.9	4294.1
45°	4599.5	4596.3	4729.9	4777.6	4688.6	4682.2	4656.8	4733.1	4780.8	4707.7	4688.6
47.5°	5048.0	5070.3	5146.6	5165.7	5219.8	5121.2	5121.2	5130.7	5299.3	5127.5	5038.5
50°	5452.0	5480.6	5633.3	5782.8	5681.0	5576.0	5617.4	5668.3	5760.5	5598.3	5522.0
52.5°	5941.8	6097.7	6199.5	6279.0	6352.2	6279.0	6183.6	6240.8	6422.1	6205.8	6110.4
55°	6648.0	6772.0	6867.5	7013.8	7074.2	6975.6	6966.1	6959.7	7061.5	6832.5	6702.0
57.5°	7436.8	7385.9	7538.6	7764.5	7983.9	7888.5	7859.9	7866.2	7891.7	7567.2	7468.6
60°	8416.5	8473.8	8655.1	8852.3	9084.5	9218.1	9030.4	8922.3	8944.5	8502.4	8349.7
62.5°	8976.4	9103.6	9513.9	10191.4	10659.0	11075.7	11104.3	10401.4	9930.6	9071.8	8422.9
65°	8706.0	8686.9	9459.8	10713.1	12484.8	13696.7	13515.4	11810.5	10166.0	8801.4	7929.9
67.5°	7405.0	7354.1	8289.3	10277.3	13203.7	15850.2	15643.4	12208.1	9370.8	7786.7	6800.7
70°	4771.3	4758.6	5773.2	7834.4	11788.2	14552.4	14628.7	11088.4	7627.7	5703.3	4726.7
72.5°	1733.6	1838.5	2427.0	4211.4	8006.2	11133.0	11180.7	8209.8	4386.4	2636.9	1943.5
75°	639.4	658.4	766.6	1367.8	3648.4	6835.6	7013.8	3982.4	1558.6	858.8	699.8
77.5°	369.0	372.2	410.3	508.9	1081.5	2668.7	2776.9	1208.7	604.4	458.0	423.1
80°	251.3	248.1	289.5	330.8	432.6	757.0	804.8	505.8	381.7	318.1	267.2
82.5°	146.3	155.9	213.1	235.4	264.0	334.0	340.4	314.9	286.3	235.4	174.9
85°	89.1	73.2	117.7	130.4	152.7	149.5	149.5	171.8	184.5	165.4	98.6
87.5°	22.3	22.3	28.6	31.8	41.4	31.8	35.0	66.8	89.1	82.7	50.9
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°	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1	3044.1
2.5°	3050.4	3040.9	3047.3	3082.2	3060.0	2993.2	3009.1	3044.1	3015.4	2999.5	2996.4
5°	3037.7	3056.8	3034.5	3040.9	3063.2	3009.1	3018.6	3063.2	3044.1	3050.4	3015.4
7.5°	3040.9	3050.4	3031.3	3002.7	3002.7	3047.3	3021.8	3028.2	2999.5	3047.3	2983.6
10°	3021.8	2996.4	2974.1	2990.0	2983.6	2970.9	2961.4	2980.5	2951.8	2993.2	2948.6
12.5°	2964.6	2970.9	2964.6	2958.2	2970.9	3002.7	2951.8	2958.2	2913.7	2920.0	2942.3
15°	2942.3	2961.4	2955.0	2990.0	3005.9	2958.2	2996.4	2958.2	2923.2	2904.1	2939.1
17.5°	2951.8	2980.5	2970.9	2996.4	2967.7	3002.7	3009.1	2993.2	2951.8	2935.9	2951.8
20°	2961.4	2951.8	2964.6	3009.1	3050.4	3015.4	3015.4	3005.9	2967.7	2945.5	2945.5
22.5°	2983.6	2967.7	2986.8	3021.8	3034.5	3088.6	3040.9	3018.6	2955.0	2897.8	2951.8
25°	3028.2	3037.7	3050.4	3037.7	3107.7	3101.3	3095.0	3079.1	2980.5	2983.6	2974.1
27.5°	3114.1	3060.0	3075.9	3152.2	3161.8	3187.2	3155.4	3184.0	3079.1	3082.2	3018.6
30°	3219.0	3161.8	3212.7	3279.5	3276.3	3324.0	3308.1	3314.4	3241.3	3199.9	3114.1
32.5°	3333.5	3327.2	3359.0	3400.3	3416.2	3441.7	3438.5	3438.5	3394.0	3285.8	3301.7
35°	3460.8	3505.3	3543.5	3588.0	3594.4	3626.2	3581.6	3588.0	3543.5	3463.9	3489.4
37.5°	3712.1	3708.9	3750.2	3804.3	3810.7	3785.2	3820.2	3804.3	3743.9	3689.8	3648.4
40°	4004.7	3941.1	3979.2	4106.5	4116.0	4071.5	4068.3	4065.1	4020.6	3902.9	3877.5
42.5°	4259.2	4341.9	4335.5	4376.8	4348.2	4326.0	4405.5	4360.9	4326.0	4201.9	4179.6
45°	4586.8	4612.2	4694.9	4828.5	4691.8	4691.8	4745.8	4710.8	4691.8	4599.5	4513.6
47.5°	4993.9	5016.2	5181.6	5191.1	5102.1	5041.6	5210.2	5216.6	5137.1	5067.1	4962.1
50°	5471.1	5480.6	5630.1	5782.8	5684.2	5569.7	5741.4	5808.2	5630.1	5534.7	5404.3
52.5°	5995.9	5967.3	6091.3	6377.6	6282.2	6247.2	6431.7	6447.6	6205.8	6056.3	6091.3
55°	6600.3	6562.1	6899.3	7093.3	7032.9	6969.2	7051.9	7090.1	6896.1	6651.2	6737.0
57.5°	7382.8	7401.8	7570.4	7761.3	7859.9	7875.8	7914.0	7875.8	7678.6	7430.5	7350.9
60°	8165.2	8222.5	8550.1	8909.6	8941.4	9221.3	9170.4	8979.5	8699.6	8346.5	8362.5
62.5°	8454.7	8407.0	8935.0	9812.9	10560.4	11072.5	10846.7	10169.2	9520.3	8877.8	8925.5
65°	7872.6	7990.3	8709.2	10083.3	11705.5	13731.7	12529.4	10655.8	9345.3	8515.1	8422.9
67.5°	6784.8	6873.8	7786.7	9237.2	12115.9	15366.7	13165.5	9968.8	8241.6	7166.5	7223.7
70°	4726.7	4771.3	5665.1	7567.2	10986.7	14501.5	11877.3	7656.3	5690.5	4535.9	4599.5
72.5°	1902.1	2010.3	2598.8	4558.2	8111.2	11018.5	7996.7	4017.4	2360.2	1755.8	1593.6
75°	703.0	706.1	830.2	1568.2	3852.0	6924.7	3607.1	1291.4	753.9	617.1	588.5
77.5°	407.1	404.0	432.6	566.2	1116.5	2703.7	1024.2	505.8	410.3	369.0	353.1
80°	254.5	251.3	295.8	375.3	489.9	741.1	432.6	314.9	276.7	238.6	238.6
82.5°	162.2	165.4	232.2	276.7	299.0	327.6	251.3	222.7	206.8	136.8	133.6
85°	105.0	95.4	162.2	184.5	165.4	146.3	140.0	117.7	108.1	66.8	73.2
87.5°	47.7	50.9	82.7	92.2	60.4	35.0	35.0	25.4	25.4	15.9	15.9
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)