

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: P479302

Luminaire Tested: **IFLD-S-SA6A-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479302  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

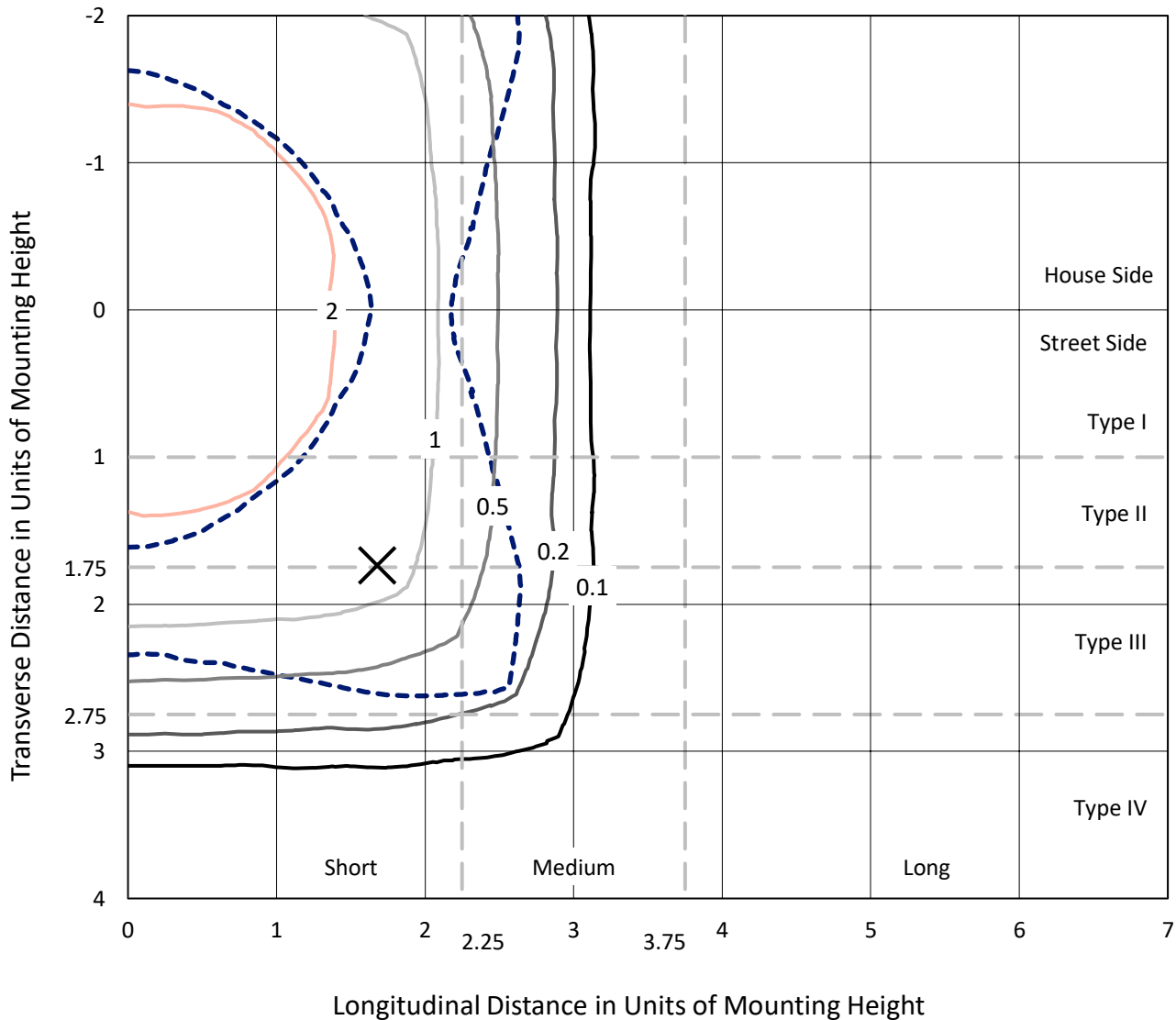
Lumens per Lamp: N/A  
Luminaire Lumens: 26870.6 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

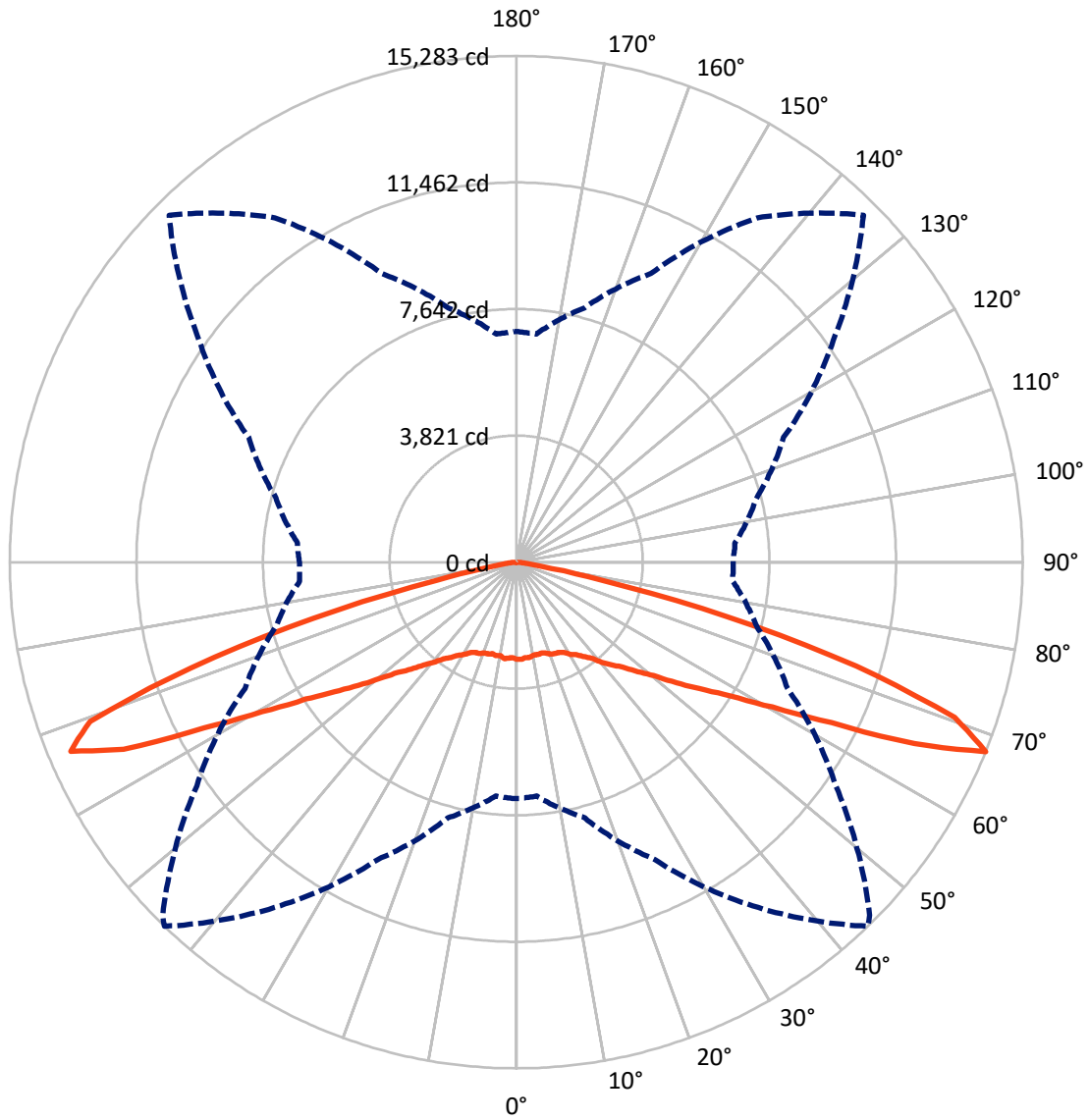
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
<b>House Side</b>	Lumens	13400.9	0.0	13400.9
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	13469.7	0.0	13469.7
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	26870.6	0.0	26870.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	1.0
10°-20°	811.4	3.0
20°-30°	1379.9	5.1
30°-40°	2187.9	8.1
40°-50°	3567.6	13.3
50°-60°	6092.9	22.7
60°-70°	9267.3	34.5
70°-80°	3123.6	11.6
80°-90°	162.2	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°	26870.6	100.0
0°-180°	26870.6	100.0

**Coefficient of Utilization**

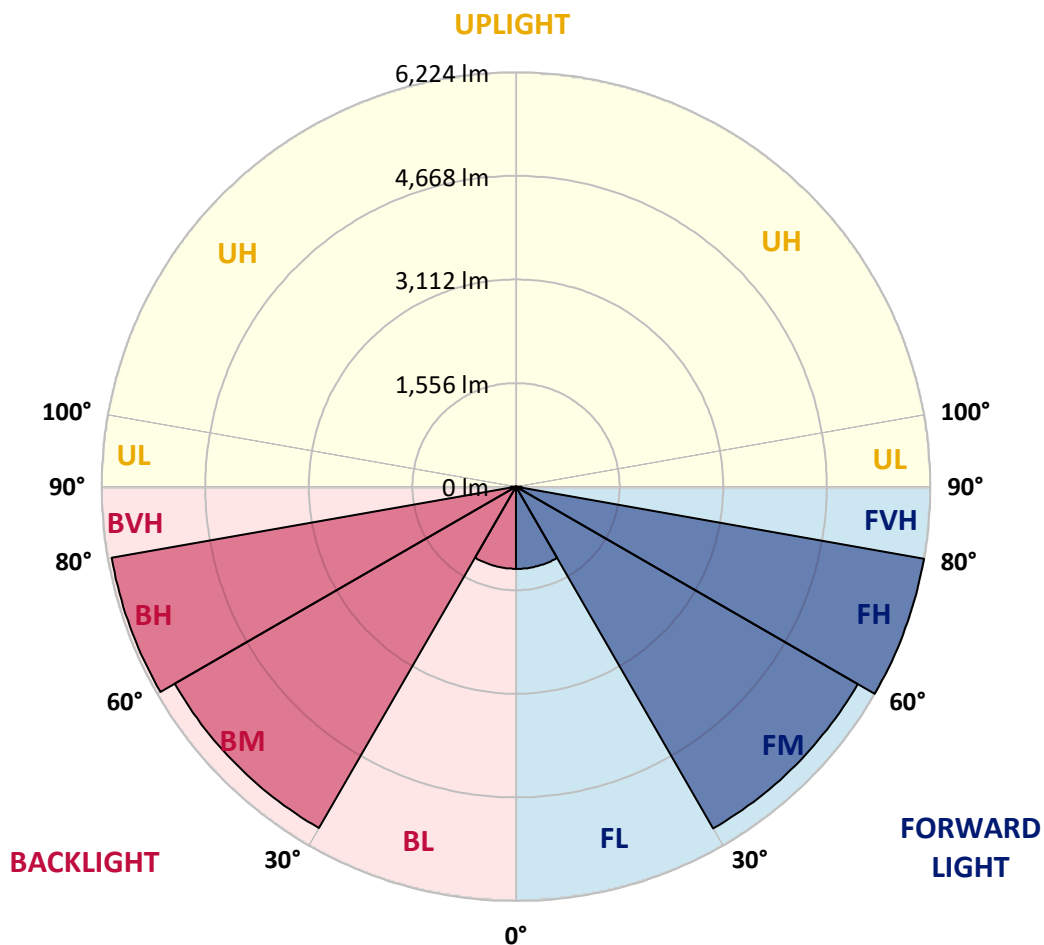


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.8	4.6			
FM (30°-60°)	5927.4	22.1			
FH (60°-80°)	6223.5	23.2			G3/7500
FVH (80°-90°)	83.0	0.3			G1/100
BL (0°-30°)	1233.3	4.6	B3/2500		
BM (30°-60°)	5921.0	22.0	B4/8500		
BH (60°-80°)	6167.4	23.0	B5		G3/7500
BVH (80°-90°)	79.2	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°	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2
2.5°	2867.7	2901.4	2926.0	2922.9	2932.1	2941.3	2929.0	2947.4	2935.2	2956.6	2968.9
5°	2922.9	2913.7	2916.8	2898.3	2941.3	2892.2	2892.2	2916.8	2947.4	2910.6	2932.1
7.5°	2889.1	2883.0	2867.7	2895.3	2904.5	2904.5	2929.0	2883.0	2935.2	2947.4	2950.5
10°	2852.3	2818.6	2864.6	2892.2	2898.3	2849.3	2870.7	2883.0	2867.7	2883.0	2892.2
12.5°	2821.7	2840.1	2840.1	2840.1	2830.9	2864.6	2886.1	2883.0	2852.3	2879.9	2830.9
15°	2818.6	2809.4	2837.0	2861.5	2846.2	2852.3	2861.5	2889.1	2830.9	2843.1	2843.1
17.5°	2815.5	2827.8	2837.0	2833.9	2886.1	2886.1	2876.9	2858.5	2904.5	2879.9	2846.2
20°	2827.8	2818.6	2843.1	2852.3	2889.1	2962.8	2935.2	2919.8	2895.3	2864.6	2864.6
22.5°	2843.1	2837.0	2870.7	2910.6	2981.2	2999.6	2996.5	2978.1	2935.2	2898.3	2892.2
25°	2898.3	2843.1	2879.9	2956.6	2981.2	3018.0	3042.5	3018.0	2959.7	2968.9	2913.7
27.5°	2981.2	2972.0	3021.0	3073.2	3051.7	3085.4	3064.0	3082.4	3085.4	3039.4	2984.2
30°	3079.3	3051.7	3082.4	3183.6	3192.8	3229.6	3192.8	3143.7	3159.0	3119.2	3091.6
32.5°	3220.4	3211.2	3269.5	3336.9	3349.2	3330.8	3312.4	3340.0	3275.6	3244.9	3195.9
35°	3312.4	3352.3	3422.8	3475.0	3514.8	3496.4	3505.6	3478.0	3493.4	3428.9	3407.5
37.5°	3585.4	3570.0	3585.4	3674.3	3683.5	3674.3	3683.5	3714.2	3692.7	3637.5	3582.3
40°	3843.0	3818.5	3855.3	3956.5	3950.3	3981.0	3919.7	3953.4	3953.4	3849.1	3827.7
42.5°	4036.2	4119.0	4162.0	4244.8	4275.4	4247.8	4235.6	4241.7	4309.2	4186.5	4140.5
45°	4434.9	4431.9	4560.7	4606.7	4520.8	4514.7	4490.1	4563.8	4609.8	4539.2	4520.8
47.5°	4867.4	4888.9	4962.5	4980.9	5033.0	4937.9	4937.9	4947.1	5109.7	4944.1	4858.2
50°	5256.9	5284.5	5431.7	5575.9	5477.7	5376.5	5416.4	5465.5	5554.4	5398.0	5324.4
52.5°	5729.2	5879.5	5977.7	6054.3	6124.9	6054.3	5962.3	6017.5	6192.3	5983.8	5891.8
55°	6410.1	6529.7	6621.7	6762.8	6821.1	6726.0	6716.8	6710.7	6808.8	6588.0	6462.2
57.5°	7170.7	7121.7	7268.9	7486.6	7698.3	7606.3	7578.6	7584.8	7609.3	7296.5	7201.4
60°	8115.4	8170.6	8345.4	8535.6	8759.5	8888.3	8707.3	8603.0	8624.5	8198.2	8051.0
62.5°	8655.2	8777.9	9173.5	9826.8	10277.6	10679.4	10707.0	10029.2	9575.3	8747.2	8121.5
65°	8394.5	8376.1	9121.4	10329.8	12038.1	13206.7	13031.8	11387.9	9802.2	8486.5	7646.1
67.5°	7140.1	7091.0	7992.7	9909.6	12731.3	15283.0	15083.7	11771.3	9035.5	7508.1	6557.3
70°	4600.6	4588.3	5566.7	7554.1	11366.4	14031.7	14105.3	10691.7	7354.8	5499.2	4557.6
72.5°	1671.5	1772.7	2340.1	4060.8	7719.7	10734.6	10780.6	7916.0	4229.4	2542.6	1874.0
75°	616.5	634.9	739.2	1318.8	3517.9	6591.1	6762.8	3839.9	1502.8	828.1	674.7
77.5°	355.8	358.8	395.6	490.7	1042.8	2573.2	2677.5	1165.5	582.7	441.7	407.9
80°	242.3	239.2	279.1	319.0	417.1	730.0	776.0	487.7	368.0	306.7	257.6
82.5°	141.1	150.3	205.5	227.0	254.6	322.0	328.2	303.6	276.0	227.0	168.7
85°	85.9	70.5	113.5	125.7	147.2	144.2	144.2	165.6	177.9	159.5	95.1
87.5°	21.5	21.5	27.6	30.7	39.9	30.7	33.7	64.4	85.9	79.7	49.1
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°	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2
2.5°	2941.3	2932.1	2938.2	2972.0	2950.5	2886.1	2901.4	2935.2	2907.6	2892.2	2889.1
5°	2929.0	2947.4	2926.0	2932.1	2953.6	2901.4	2910.6	2953.6	2935.2	2941.3	2907.6
7.5°	2932.1	2941.3	2922.9	2895.3	2895.3	2938.2	2913.7	2919.8	2892.2	2938.2	2876.9
10°	2913.7	2889.1	2867.7	2883.0	2876.9	2864.6	2855.4	2873.8	2846.2	2886.1	2843.1
12.5°	2858.5	2864.6	2858.5	2852.3	2864.6	2895.3	2846.2	2852.3	2809.4	2815.5	2837.0
15°	2837.0	2855.4	2849.3	2883.0	2898.3	2852.3	2889.1	2852.3	2818.6	2800.2	2833.9
17.5°	2846.2	2873.8	2864.6	2889.1	2861.5	2895.3	2901.4	2886.1	2846.2	2830.9	2846.2
20°	2855.4	2846.2	2858.5	2901.4	2941.3	2907.6	2907.6	2898.3	2861.5	2840.1	2840.1
22.5°	2876.9	2861.5	2879.9	2913.7	2926.0	2978.1	2932.1	2910.6	2849.3	2794.1	2846.2
25°	2919.8	2929.0	2941.3	2929.0	2996.5	2990.4	2984.2	2968.9	2873.8	2876.9	2867.7
27.5°	3002.6	2950.5	2965.8	3039.4	3048.6	3073.2	3042.5	3070.1	2968.9	2972.0	2910.6
30°	3103.8	3048.6	3097.7	3162.1	3159.0	3205.1	3189.7	3195.9	3125.3	3085.4	3002.6
32.5°	3214.3	3208.1	3238.8	3278.7	3294.0	3318.5	3315.5	3315.5	3272.5	3168.2	3183.6
35°	3336.9	3379.9	3416.7	3459.6	3465.8	3496.4	3453.5	3459.6	3416.7	3340.0	3364.5
37.5°	3579.2	3576.2	3616.0	3668.2	3674.3	3649.8	3683.5	3668.2	3609.9	3557.8	3517.9
40°	3861.4	3800.1	3836.9	3959.5	3968.7	3925.8	3922.7	3919.7	3876.7	3763.3	3738.7
42.5°	4106.8	4186.5	4180.4	4220.2	4192.6	4171.2	4247.8	4204.9	4171.2	4051.6	4030.1
45°	4422.7	4447.2	4526.9	4655.8	4523.9	4523.9	4576.0	4542.3	4523.9	4434.9	4352.1
47.5°	4815.2	4836.7	4996.2	5005.4	4919.5	4861.3	5023.8	5029.9	4953.3	4885.8	4784.6
50°	5275.3	5284.5	5428.7	5575.9	5480.8	5370.4	5536.0	5600.4	5428.7	5336.6	5210.9
52.5°	5781.4	5753.8	5873.4	6149.4	6057.4	6023.7	6201.5	6216.9	5983.8	5839.6	5873.4
55°	6364.1	6327.3	6652.4	6839.5	6781.2	6719.9	6799.6	6836.4	6649.3	6413.2	6496.0
57.5°	7118.6	7137.0	7299.5	7483.6	7578.6	7594.0	7630.8	7594.0	7403.8	7164.6	7087.9
60°	7873.1	7928.3	8244.2	8590.8	8621.4	8891.3	8842.3	8658.2	8388.3	8047.9	8063.2
62.5°	8152.2	8106.2	8615.3	9461.8	10182.6	10676.4	10458.6	9805.3	9179.6	8560.1	8606.1
65°	7590.9	7704.4	8397.5	9722.5	11286.7	13240.4	12081.1	10274.6	9011.0	8210.5	8121.5
67.5°	6542.0	6627.9	7508.1	8906.7	11682.3	14816.9	12694.5	9612.1	7946.7	6910.0	6965.2
70°	4557.6	4600.6	5462.4	7296.5	10593.5	13982.6	11452.3	7382.4	5486.9	4373.6	4434.9
72.5°	1834.1	1938.4	2505.8	4395.1	7820.9	10624.2	7710.5	3873.7	2275.7	1693.0	1536.6
75°	677.8	680.9	800.5	1512.0	3714.2	6676.9	3478.0	1245.2	726.9	595.0	567.4
77.5°	392.6	389.5	417.1	545.9	1076.5	2607.0	987.6	487.7	395.6	355.8	340.4
80°	245.4	242.3	285.2	361.9	472.3	714.6	417.1	303.6	266.8	230.0	230.0
82.5°	156.4	159.5	223.9	266.8	288.3	315.9	242.3	214.7	199.4	131.9	128.8
85°	101.2	92.0	156.4	177.9	159.5	141.1	134.9	113.5	104.3	64.4	70.5
87.5°	46.0	49.1	79.7	88.9	58.3	33.7	33.7	24.5	24.5	15.3	15.3
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)