

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: P478861

Luminaire Tested: **IFLD-S-SA3D-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478861
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

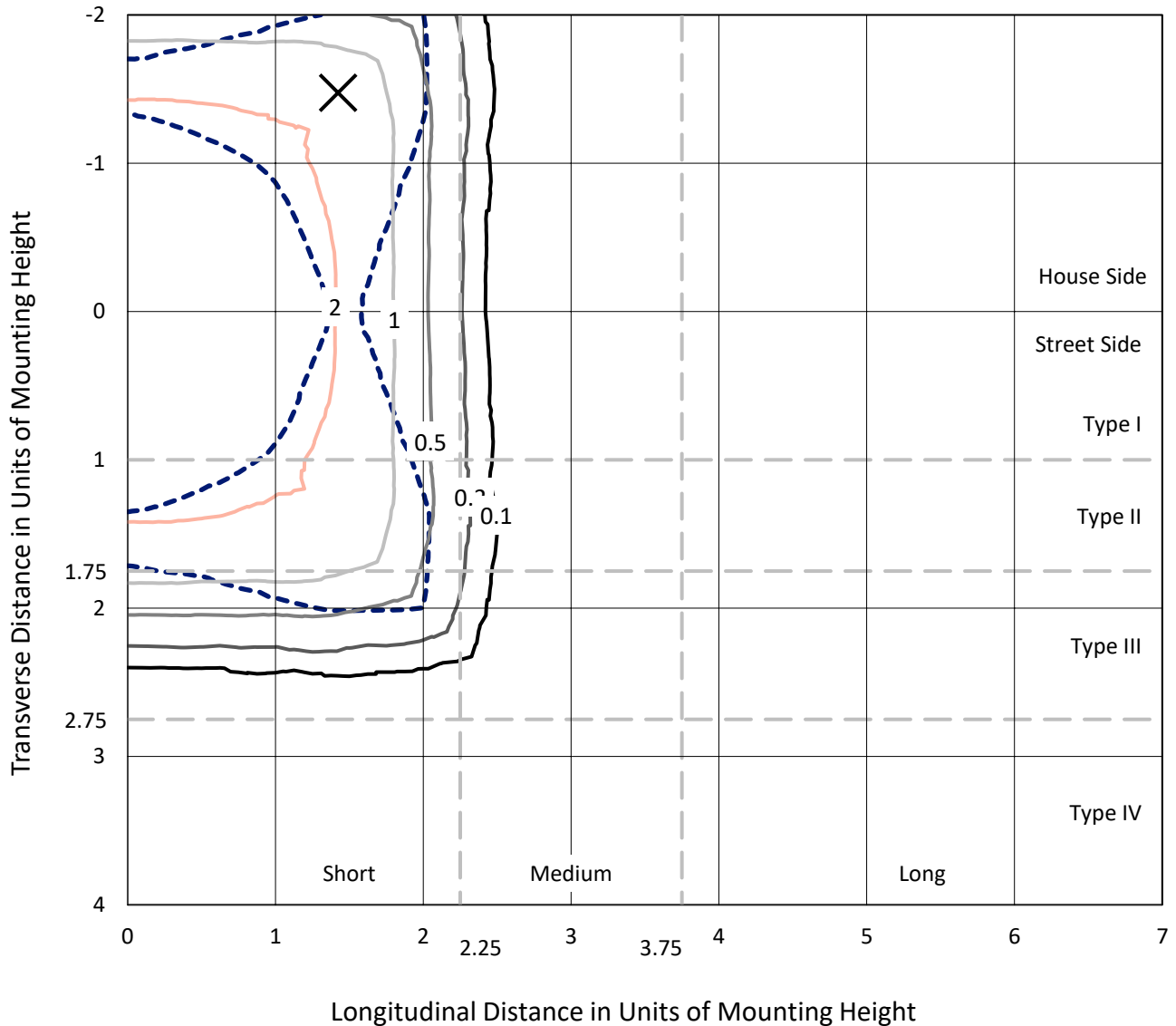
Lumens per Lamp: N/A
Luminaire Lumens: 21167.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

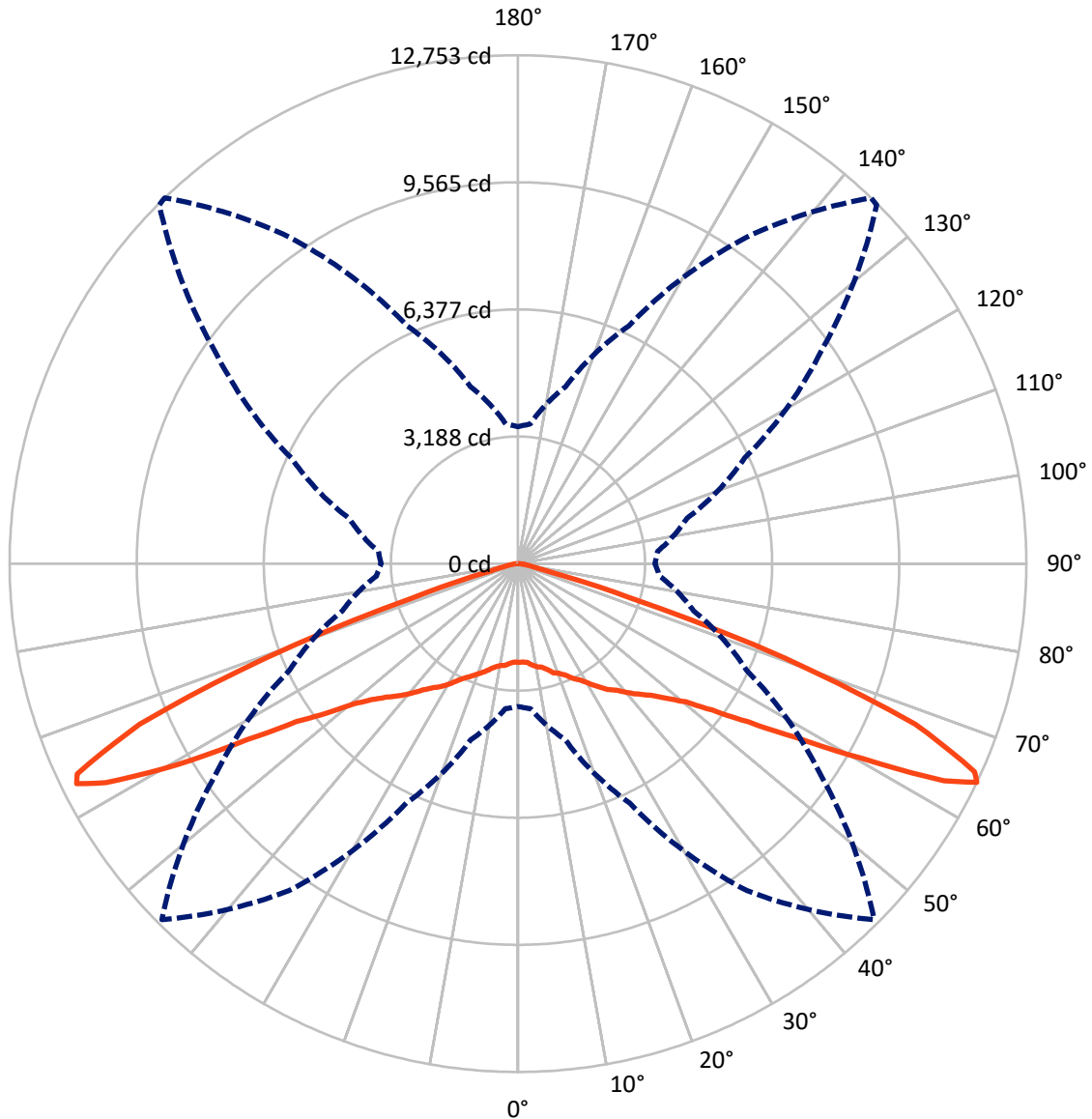
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10593.9	0.0	10593.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10573.7	0.0	10573.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	21167.6	0.0	21167.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	1.2
10°-20°	784.8	3.7
20°-30°	1475.0	7.0
30°-40°	2432.6	11.5
40°-50°	3804.4	18.0
50°-60°	6147.0	29.0
60°-70°	5534.9	26.1
70°-80°	655.6	3.1
80°-90°	89.7	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°	21167.6	100.0
0°-180°	21167.6	100.0

Coefficient of Utilization



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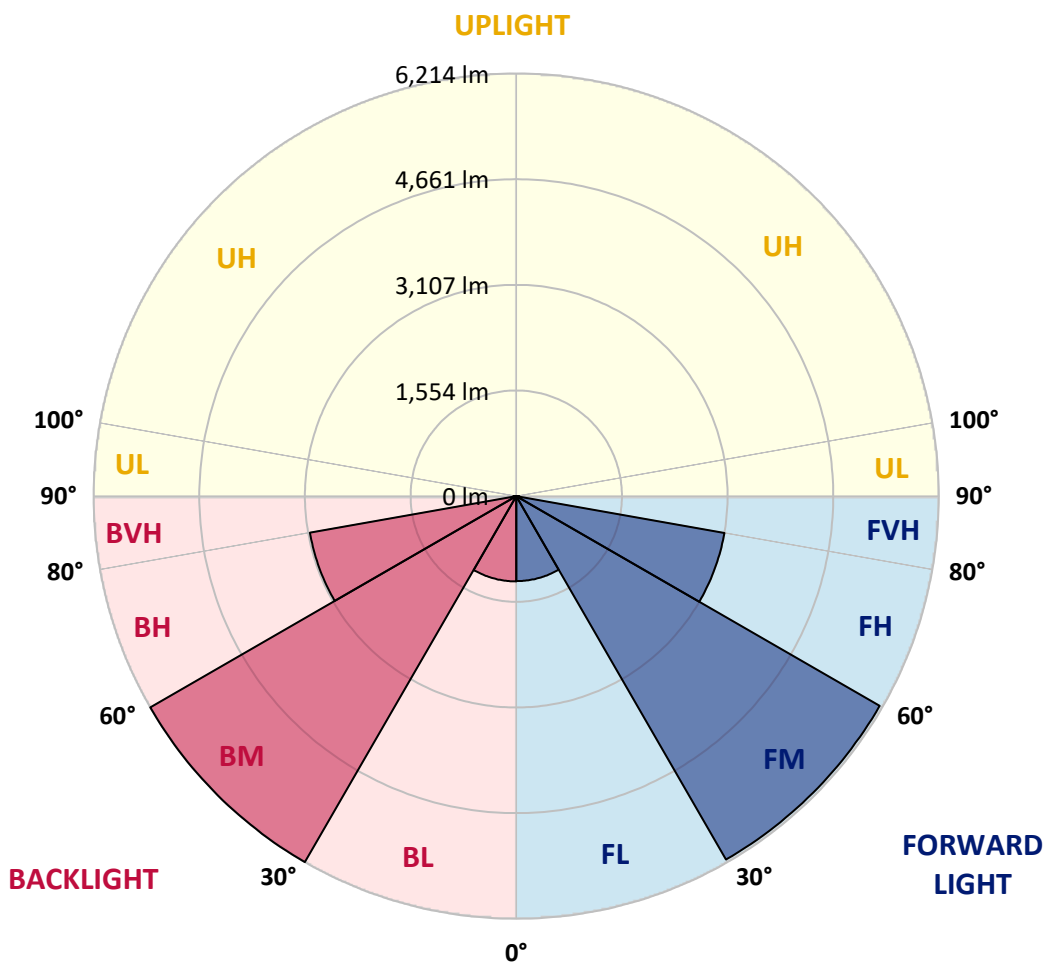
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.3	5.9			
FM (30°-60°)	6169.7	29.1			
FH (60°-80°)	3108.7	14.7			G2/5000
FVH (80°-90°)	46.0	0.2			G1/100
BL (0°-30°)	1254.1	5.9	B3/2500		
BM (30°-60°)	6214.2	29.4	B4/8500		
BH (60°-80°)	3081.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	43.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3
2.5°	2449.2	2454.0	2497.7	2480.7	2495.3	2468.6	2488.0	2529.3	2480.7	2517.1	2529.3
5°	2475.9	2483.1	2483.1	2500.1	2509.8	2505.0	2517.1	2500.1	2546.3	2526.8	2556.0
7.5°	2573.0	2560.8	2541.4	2556.0	2558.4	2570.5	2582.7	2604.5	2597.2	2580.2	2609.4
10°	2589.9	2580.2	2609.4	2611.8	2599.7	2589.9	2602.1	2602.1	2623.9	2628.8	2628.8
12.5°	2619.1	2628.8	2626.4	2645.8	2648.2	2640.9	2660.3	2696.8	2687.0	2694.3	2677.3
15°	2730.7	2718.6	2716.2	2735.6	2767.1	2721.0	2755.0	2752.6	2742.9	2757.4	2718.6
17.5°	2827.8	2789.0	2806.0	2837.5	2825.4	2835.1	2878.8	2840.0	2849.7	2832.7	2820.5
20°	2912.8	2881.2	2883.7	2895.8	2895.8	2924.9	2941.9	2927.3	2917.6	2915.2	2920.1
22.5°	3007.4	2971.0	2973.5	3024.4	3041.4	3031.7	3019.6	3043.9	3048.7	3029.3	3051.1
25°	3077.8	3116.7	3128.8	3153.1	3116.7	3143.4	3133.7	3179.8	3208.9	3170.1	3196.8
27.5°	3262.3	3245.3	3276.9	3274.5	3303.6	3276.9	3293.9	3308.4	3320.6	3323.0	3310.9
30°	3427.4	3434.7	3403.1	3488.1	3420.1	3463.8	3492.9	3500.2	3514.8	3514.8	3478.3
32.5°	3602.1	3587.6	3638.6	3619.1	3607.0	3641.0	3609.4	3708.9	3650.7	3684.7	3643.4
35°	3798.8	3798.8	3818.2	3871.6	3798.8	3776.9	3835.2	3876.4	3876.4	3815.7	3830.3
37.5°	4019.6	4000.2	4024.5	4092.5	4036.6	3963.8	4070.6	4087.6	4075.5	4058.5	4029.3
40°	4175.0	4170.1	4218.7	4308.5	4228.4	4213.8	4233.2	4279.4	4293.9	4310.9	4272.1
42.5°	4437.1	4459.0	4599.8	4577.9	4512.4	4461.4	4456.6	4628.9	4587.6	4543.9	4522.1
45°	4825.5	4806.1	4878.9	4881.3	4796.4	4684.7	4709.0	4866.8	4937.2	4840.1	4876.5
47.5°	5133.8	5143.5	5194.5	5298.8	5102.2	4985.7	5075.5	5330.4	5308.5	5272.1	5306.1
50°	5546.4	5590.1	5750.3	5713.9	5539.1	5395.9	5592.5	5832.8	5859.5	5726.0	5701.8
52.5°	6116.8	6184.8	6272.2	6301.3	6133.8	6082.9	6095.0	6393.6	6328.0	6199.4	6116.8
55°	6616.9	6648.4	6808.6	7048.9	7036.8	6791.6	6932.4	7044.1	6777.1	6512.5	6534.3
57.5°	6830.5	6845.0	7291.7	7772.3	8058.7	8114.5	7954.3	7578.1	6942.1	6432.4	6400.8
60°	6298.9	6437.3	6976.1	8061.1	9369.5	10015.1	8949.5	7638.8	6556.2	5937.2	5891.1
62.5°	5034.3	5041.5	5842.6	7488.3	10185.0	11876.9	9330.6	7068.4	5527.0	4825.5	4641.0
64°	3585.2	3653.1	4573.1	6629.0	10015.1	12634.2	9284.5	6323.2	4556.1	3560.9	3432.2
65°	2573.0	2667.6	3556.0	5755.2	9617.0	12544.4	9146.1	5682.4	3684.7	2718.6	2587.5
67.5°	946.7	985.5	1395.7	2878.8	6905.7	10689.9	7248.0	3124.0	1619.0	1153.0	1036.5
70°	439.3	441.8	517.0	951.5	3019.6	7148.5	3458.9	1172.4	609.3	483.0	449.1
72.5°	322.8	330.1	361.7	439.3	888.4	3026.9	1136.0	480.6	356.8	315.6	308.3
75°	262.2	267.0	276.7	318.0	410.2	810.7	461.2	332.5	284.0	254.9	245.2
77.5°	201.5	201.5	223.3	242.7	271.9	378.7	305.8	264.6	230.6	201.5	194.2
80°	145.6	148.1	174.8	189.3	184.5	250.0	220.9	218.5	189.3	157.8	145.6
82.5°	85.0	92.2	126.2	135.9	131.1	148.1	160.2	169.9	148.1	109.2	99.5
85°	48.5	51.0	72.8	75.2	75.2	70.4	92.2	101.9	99.5	68.0	60.7
87.5°	14.6	14.6	19.4	19.4	21.8	24.3	36.4	43.7	48.5	34.0	31.6
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3	2478.3
2.5°	2517.1	2480.7	2483.1	2492.9	2461.3	2473.4	2509.8	2483.1	2475.9	2461.3	2454.0
5°	2505.0	2543.8	2529.3	2534.1	2526.8	2492.9	2488.0	2509.8	2522.0	2500.1	2543.8
7.5°	2589.9	2573.0	2553.5	2560.8	2543.8	2573.0	2592.4	2548.7	2570.5	2558.4	2534.1
10°	2638.5	2606.9	2621.5	2616.7	2604.5	2633.6	2614.2	2609.4	2589.9	2563.2	2602.1
12.5°	2655.5	2691.9	2716.2	2674.9	2682.2	2667.6	2655.5	2655.5	2633.6	2626.4	2633.6
15°	2730.7	2762.3	2752.6	2784.1	2742.9	2757.4	2772.0	2735.6	2755.0	2701.6	2742.9
17.5°	2869.1	2842.4	2876.4	2835.1	2849.7	2878.8	2832.7	2832.7	2847.2	2818.1	2781.7
20°	2956.5	2944.3	2932.2	2934.6	2910.4	2937.1	2922.5	2915.2	2893.4	2903.1	2922.5
22.5°	3039.0	3022.0	3026.9	3034.1	3051.1	3039.0	3031.7	3039.0	2985.6	3034.1	2966.2
25°	3141.0	3187.1	3172.5	3204.1	3155.5	3187.1	3184.6	3138.5	3167.7	3148.2	3133.7
27.5°	3310.9	3286.6	3308.4	3269.6	3303.6	3306.0	3276.9	3354.6	3320.6	3315.7	3306.0
30°	3529.3	3512.3	3497.8	3475.9	3502.6	3480.8	3505.0	3512.3	3480.8	3456.5	3410.4
32.5°	3653.1	3699.2	3716.2	3662.8	3665.3	3677.4	3655.5	3633.7	3653.1	3660.4	3653.1
35°	3827.9	3871.6	3881.3	3840.0	3818.2	3878.9	3835.2	3908.0	3844.9	3847.3	3781.8
37.5°	4031.8	4043.9	4126.4	4080.3	4060.9	4031.8	4111.9	4102.2	4116.7	4000.2	4058.5
40°	4262.4	4306.1	4352.2	4235.7	4233.2	4259.9	4255.1	4310.9	4284.2	4267.2	4226.0
42.5°	4514.8	4607.1	4614.3	4536.7	4488.1	4483.3	4507.5	4631.3	4633.8	4522.1	4473.5
45°	4849.8	4951.7	4925.0	4774.5	4721.1	4713.9	4832.8	4886.2	4932.3	4888.6	4847.4
47.5°	5267.3	5335.2	5315.8	5177.5	5005.1	5053.7	5170.2	5337.7	5289.1	5230.9	5182.3
50°	5713.9	5794.0	5752.7	5614.4	5449.3	5449.3	5592.5	5806.1	5791.6	5677.5	5633.8
52.5°	6209.1	6325.6	6420.3	6223.6	6085.3	6107.1	6332.9	6410.5	6374.1	6294.0	6257.6
55°	6578.0	6801.3	6995.5	7005.2	7012.5	7010.1	7068.4	7146.0	6886.3	6757.7	6626.6
57.5°	6488.2	6910.6	7575.7	8027.1	8160.6	8231.0	8211.6	7852.4	7238.3	6815.9	6859.6
60°	5847.4	6536.8	7609.6	9058.8	10029.7	9932.6	9578.2	8158.2	7044.1	6330.4	6240.6
62.5°	4665.3	5495.5	7039.2	9350.0	12024.9	11995.8	10141.3	7451.9	5869.3	4966.3	4910.5
64°	3514.8	4388.6	6279.5	9274.8	12724.0	12753.1	9998.1	6582.9	4592.5	3514.8	3429.8
65°	2689.5	3500.2	5534.3	9119.4	12573.5	12590.5	9600.0	5684.8	3490.5	2495.3	2403.0
67.5°	1070.4	1490.4	3002.6	6915.4	10796.7	10750.6	6849.9	2750.2	1335.0	869.0	852.0
70°	456.3	568.0	1053.5	3276.9	7228.6	7095.1	2949.2	893.3	495.2	415.1	412.6
72.5°	313.1	347.1	451.5	1012.2	3005.0	2934.6	839.9	415.1	337.4	310.7	310.7
75°	252.4	276.7	327.7	424.8	796.2	767.0	395.7	305.8	269.4	250.0	247.6
77.5°	196.6	220.9	257.3	293.7	364.1	361.7	264.6	230.6	208.7	194.2	189.3
80°	155.3	179.6	203.9	208.7	237.9	233.0	179.6	182.0	169.9	140.8	138.4
82.5°	106.8	145.6	162.6	148.1	140.8	140.8	128.6	128.6	118.9	87.4	80.1
85°	65.5	97.1	101.9	87.4	65.5	65.5	70.4	68.0	63.1	46.1	43.7
87.5°	34.0	46.1	41.3	34.0	21.8	21.8	19.4	14.6	14.6	12.1	12.1
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)