

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: P478938

Luminaire Tested: **IFLD-S-SA3C-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478938
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

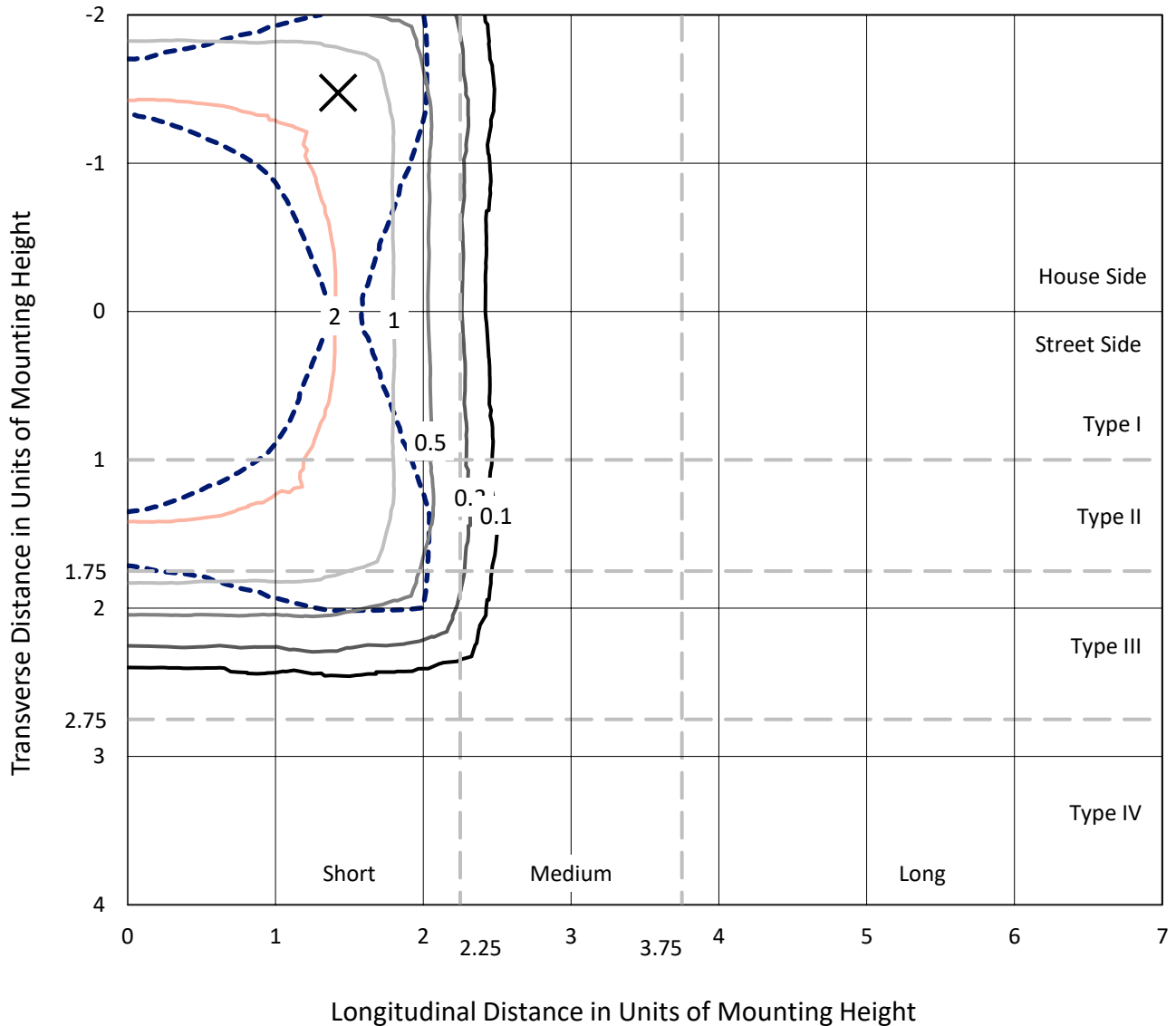
Lumens per Lamp: N/A
Luminaire Lumens: 21126.3 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

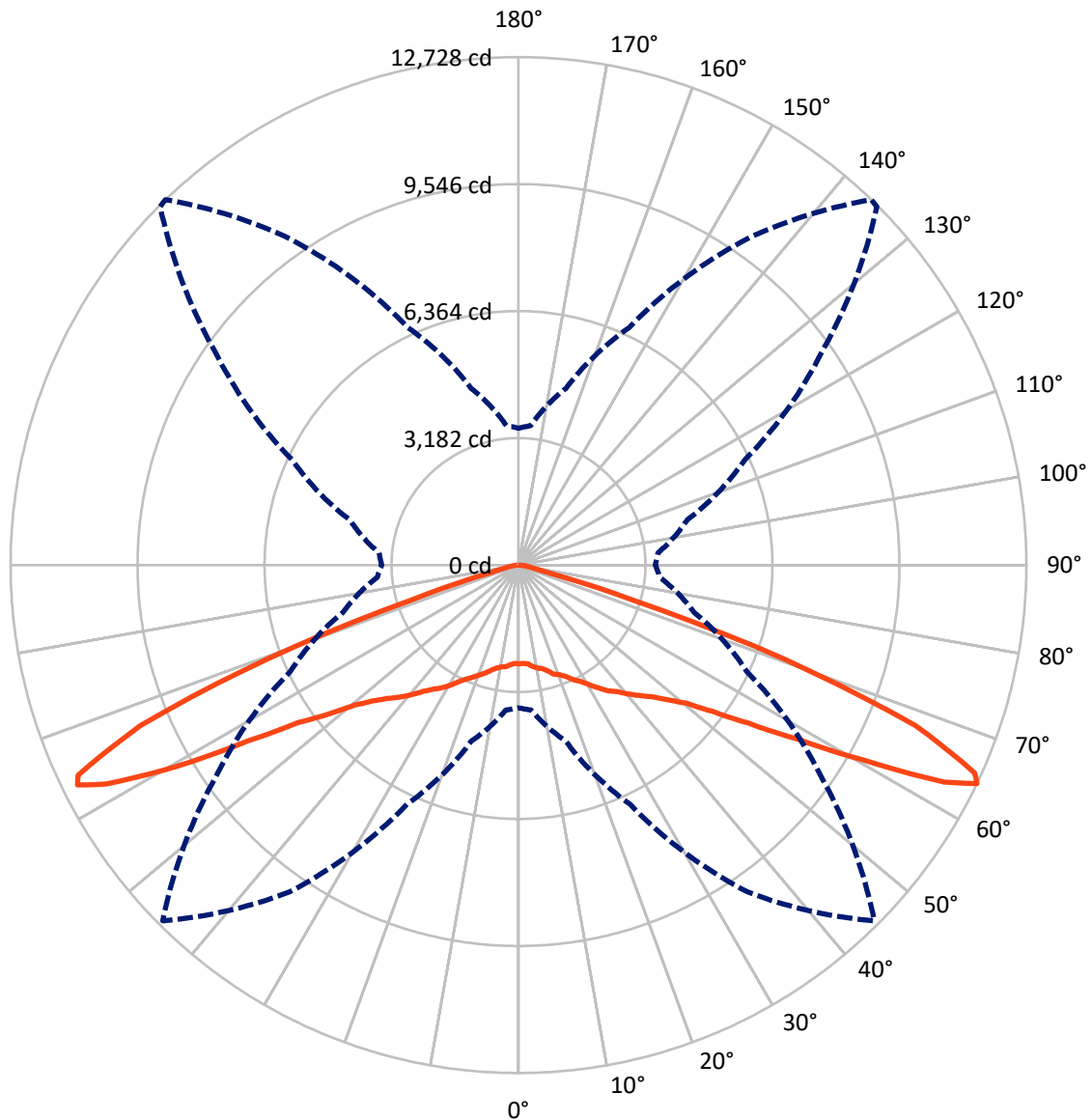
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	10573.2	0.0	10573.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10553.1	0.0	10553.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	21126.3	0.0	21126.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	1.2
10°-20°	783.3	3.7
20°-30°	1472.1	7.0
30°-40°	2427.8	11.5
40°-50°	3797.0	18.0
50°-60°	6135.0	29.0
60°-70°	5524.1	26.1
70°-80°	654.4	3.1
80°-90°	89.6	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°	21126.3	100.0
0°-180°	21126.3	100.0

Coefficient of Utilization



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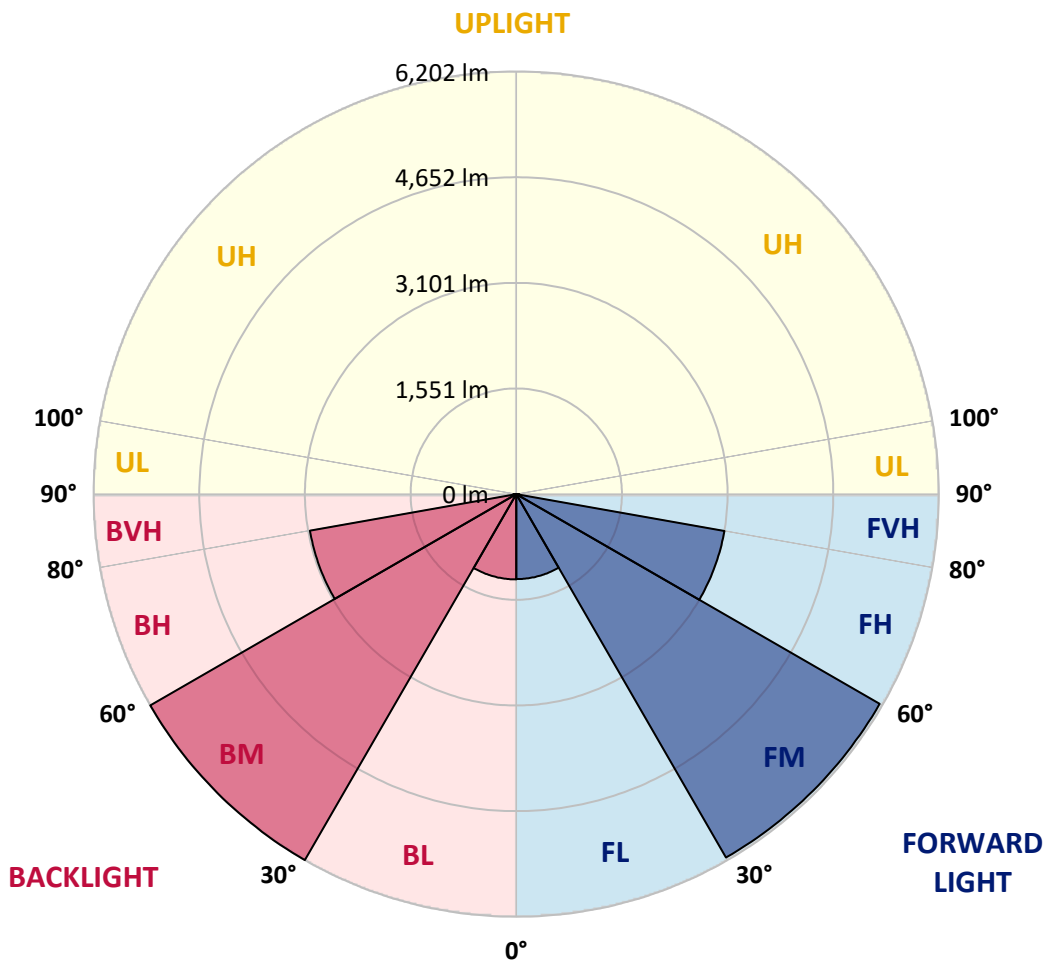
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.8	5.9			
FM (30°-60°)	6157.7	29.1			
FH (60°-80°)	3102.6	14.7			G2/5000
FVH (80°-90°)	46.0	0.2			G1/100
BL (0°-30°)	1251.7	5.9	B3/2500		
BM (30°-60°)	6202.1	29.4	B4/8500		
BH (60°-80°)	3075.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	43.6	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°	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5
2.5°	2444.4	2449.2	2492.8	2475.9	2490.4	2463.8	2483.2	2524.3	2475.9	2512.2	2524.3
5°	2471.0	2478.3	2478.3	2495.3	2505.0	2500.1	2512.2	2495.3	2541.3	2521.9	2551.0
7.5°	2567.9	2555.8	2536.4	2551.0	2553.4	2565.5	2577.6	2599.4	2592.2	2575.2	2604.3
10°	2584.9	2575.2	2604.3	2606.7	2594.6	2584.9	2597.0	2597.0	2618.8	2623.7	2623.7
12.5°	2614.0	2623.7	2621.2	2640.6	2643.0	2635.8	2655.2	2691.5	2681.8	2689.1	2672.1
15°	2725.4	2713.3	2710.9	2730.3	2761.7	2715.7	2749.6	2747.2	2737.5	2752.1	2713.3
17.5°	2822.3	2783.6	2800.5	2832.0	2819.9	2829.6	2873.2	2834.4	2844.1	2827.2	2815.0
20°	2907.1	2875.6	2878.0	2890.1	2890.1	2919.2	2936.2	2921.6	2911.9	2909.5	2914.4
22.5°	3001.6	2965.2	2967.7	3018.5	3035.5	3025.8	3013.7	3037.9	3042.8	3023.4	3045.2
25°	3071.8	3110.6	3122.7	3146.9	3110.6	3137.2	3127.6	3173.6	3202.7	3163.9	3190.5
27.5°	3256.0	3239.0	3270.5	3268.1	3297.1	3270.5	3287.4	3302.0	3314.1	3316.5	3304.4
30°	3420.7	3428.0	3396.5	3481.3	3413.4	3457.0	3486.1	3493.4	3507.9	3507.9	3471.6
32.5°	3595.1	3580.6	3631.5	3612.1	3600.0	3633.9	3602.4	3701.7	3643.6	3677.5	3636.3
35°	3791.3	3791.3	3810.7	3864.0	3791.3	3769.5	3827.7	3868.9	3868.9	3808.3	3822.8
37.5°	4011.8	3992.4	4016.6	4084.5	4028.8	3956.1	4062.7	4079.6	4067.5	4050.6	4021.5
40°	4166.8	4162.0	4210.5	4300.1	4220.1	4205.6	4225.0	4271.0	4285.6	4302.5	4263.8
42.5°	4428.5	4450.3	4590.8	4569.0	4503.6	4452.7	4447.9	4619.9	4578.7	4535.1	4513.3
45°	4816.1	4796.7	4869.4	4871.8	4787.0	4675.6	4699.8	4857.3	4927.5	4830.6	4867.0
47.5°	5123.8	5133.5	5184.3	5288.5	5092.3	4976.0	5065.6	5320.0	5298.2	5261.9	5295.8
50°	5535.6	5579.2	5739.1	5702.8	5528.3	5385.4	5581.6	5821.5	5848.1	5714.9	5690.7
52.5°	6104.9	6172.7	6260.0	6289.0	6121.9	6071.0	6083.1	6381.1	6315.7	6187.3	6104.9
55°	6604.0	6635.5	6795.4	7035.2	7023.1	6778.4	6918.9	7030.3	6763.9	6499.8	6521.6
57.5°	6817.2	6831.7	7277.4	7757.1	8043.0	8098.7	7938.8	7563.3	6928.6	6419.9	6388.4
60°	6286.6	6424.7	6962.5	8045.4	9351.2	9995.6	8932.1	7623.9	6543.4	5925.6	5879.6
62.5°	5024.4	5031.7	5831.2	7473.7	10165.2	11853.7	9312.4	7054.6	5516.2	4816.1	4632.0
64°	3578.2	3646.0	4564.2	6616.1	9995.6	12609.6	9266.4	6310.8	4547.2	3553.9	3425.5
65°	2567.9	2662.4	3549.1	5744.0	9598.3	12519.9	9128.3	5671.3	3677.5	2713.3	2582.5
67.5°	944.8	983.6	1393.0	2873.2	6892.3	10669.1	7233.8	3117.9	1615.9	1150.7	1034.4
70°	438.5	440.9	516.0	949.7	3013.7	7134.5	3452.2	1170.1	608.1	482.1	448.2
72.5°	322.2	329.5	361.0	438.5	886.7	3021.0	1133.8	479.7	356.1	314.9	307.7
75°	261.6	266.5	276.2	317.4	409.4	809.1	460.3	331.9	283.4	254.4	244.7
77.5°	201.1	201.1	222.9	242.3	271.3	377.9	305.2	264.1	230.1	201.1	193.8
80°	145.4	147.8	174.4	189.0	184.1	249.5	220.5	218.0	189.0	157.5	145.4
82.5°	84.8	92.1	126.0	135.7	130.8	147.8	159.9	169.6	147.8	109.0	99.3
85°	48.5	50.9	72.7	75.1	75.1	70.3	92.1	101.7	99.3	67.8	60.6
87.5°	14.5	14.5	19.4	19.4	21.8	24.2	36.3	43.6	48.5	33.9	31.5
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°	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5	2473.5
2.5°	2512.2	2475.9	2478.3	2488.0	2456.5	2468.6	2505.0	2478.3	2471.0	2456.5	2449.2
5°	2500.1	2538.9	2524.3	2529.2	2521.9	2488.0	2483.2	2505.0	2517.1	2495.3	2538.9
7.5°	2584.9	2567.9	2548.6	2555.8	2538.9	2567.9	2587.3	2543.7	2565.5	2553.4	2529.2
10°	2633.4	2601.9	2616.4	2611.5	2599.4	2628.5	2609.1	2604.3	2584.9	2558.3	2597.0
12.5°	2650.3	2686.6	2710.9	2669.7	2677.0	2662.4	2650.3	2650.3	2628.5	2621.2	2628.5
15°	2725.4	2756.9	2747.2	2778.7	2737.5	2752.1	2766.6	2730.3	2749.6	2696.3	2737.5
17.5°	2863.5	2836.8	2870.8	2829.6	2844.1	2873.2	2827.2	2827.2	2841.7	2812.6	2776.3
20°	2950.7	2938.6	2926.5	2928.9	2904.7	2931.3	2916.8	2909.5	2887.7	2897.4	2916.8
22.5°	3033.1	3016.1	3021.0	3028.2	3045.2	3033.1	3025.8	3033.1	2979.8	3028.2	2960.4
25°	3134.8	3180.9	3166.3	3197.8	3149.4	3180.9	3178.4	3132.4	3161.5	3142.1	3127.6
27.5°	3304.4	3280.2	3302.0	3263.2	3297.1	3299.6	3270.5	3348.0	3314.1	3309.3	3299.6
30°	3522.4	3505.5	3490.9	3469.1	3495.8	3474.0	3498.2	3505.5	3474.0	3449.8	3403.7
32.5°	3646.0	3692.0	3709.0	3655.7	3658.1	3670.2	3648.4	3626.6	3646.0	3653.3	3646.0
35°	3820.4	3864.0	3873.7	3832.5	3810.7	3871.3	3827.7	3900.4	3837.4	3839.8	3774.4
37.5°	4023.9	4036.0	4118.4	4072.4	4053.0	4023.9	4103.9	4094.2	4108.7	3992.4	4050.6
40°	4254.1	4297.7	4343.7	4227.4	4225.0	4251.6	4246.8	4302.5	4275.9	4258.9	4217.7
42.5°	4506.0	4598.1	4605.3	4527.8	4479.4	4474.5	4498.7	4622.3	4624.7	4513.3	4464.8
45°	4840.3	4942.1	4915.4	4765.2	4711.9	4704.7	4823.4	4876.7	4922.7	4879.1	4837.9
47.5°	5257.0	5324.8	5305.5	5167.4	4995.4	5043.8	5160.1	5327.3	5278.8	5220.7	5172.2
50°	5702.8	5782.7	5741.5	5603.4	5438.7	5438.7	5581.6	5794.8	5780.3	5666.4	5622.8
52.5°	6197.0	6313.3	6407.7	6211.5	6073.4	6095.2	6320.5	6398.0	6361.7	6281.8	6245.4
55°	6565.2	6788.1	6981.9	6991.6	6998.9	6996.4	7054.6	7132.1	6872.9	6744.5	6613.7
57.5°	6475.6	6897.1	7560.9	8011.5	8144.7	8215.0	8195.6	7837.1	7224.2	6802.6	6846.2
60°	5836.0	6524.0	7594.8	9041.1	10010.1	9913.2	9559.5	8142.3	7030.3	6318.1	6228.5
62.5°	4656.2	5484.7	7025.5	9331.8	12001.5	11972.4	10121.6	7437.3	5857.8	4956.6	4900.9
64°	3507.9	4380.0	6267.2	9256.7	12699.2	12728.3	9978.6	6570.1	4583.5	3507.9	3423.1
65°	2684.2	3493.4	5523.5	9101.7	12549.0	12566.0	9581.3	5673.7	3483.7	2490.4	2398.4
67.5°	1068.4	1487.5	2996.7	6901.9	10775.7	10729.6	6836.5	2744.8	1332.4	867.3	850.3
70°	455.4	566.9	1051.4	3270.5	7214.5	7081.2	2943.4	891.5	494.2	414.3	411.8
72.5°	312.5	346.4	450.6	1010.2	2999.2	2928.9	838.2	414.3	336.7	310.1	310.1
75°	251.9	276.2	327.0	424.0	794.6	765.5	394.9	305.2	268.9	249.5	247.1
77.5°	196.2	220.5	256.8	293.1	363.4	361.0	264.1	230.1	208.3	193.8	189.0
80°	155.0	179.3	203.5	208.3	237.4	232.6	179.3	181.7	169.6	140.5	138.1
82.5°	106.6	145.4	162.3	147.8	140.5	140.5	128.4	128.4	118.7	87.2	79.9
85°	65.4	96.9	101.7	87.2	65.4	65.4	70.3	67.8	63.0	46.0	43.6
87.5°	33.9	46.0	41.2	33.9	21.8	21.8	19.4	14.5	14.5	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)