

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: P478490

Luminaire Tested: **IFLD-M-SA4C-730-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478490  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-730-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

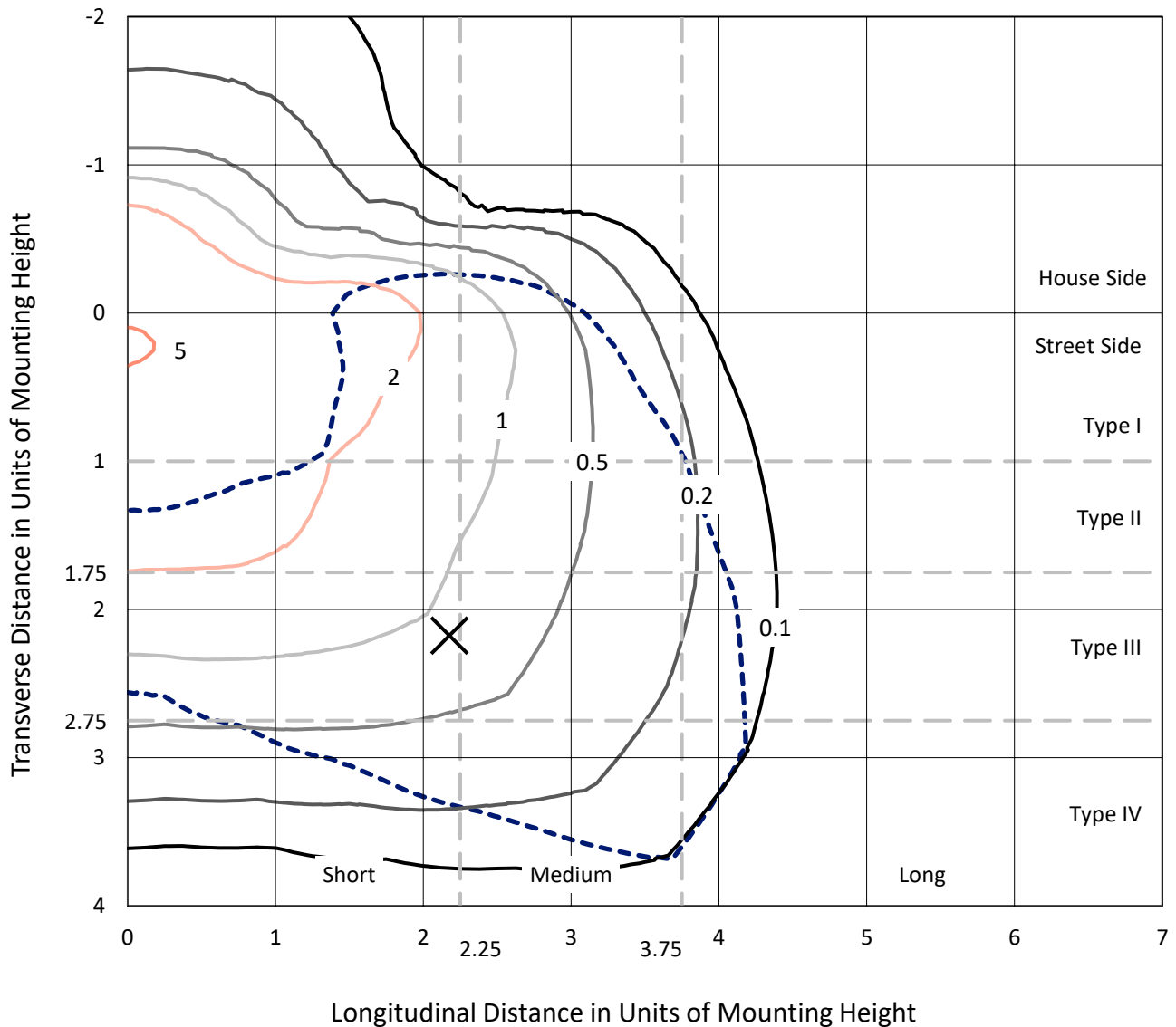
Lumens per Lamp: N/A  
Luminaire Lumens: 26169 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1  
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

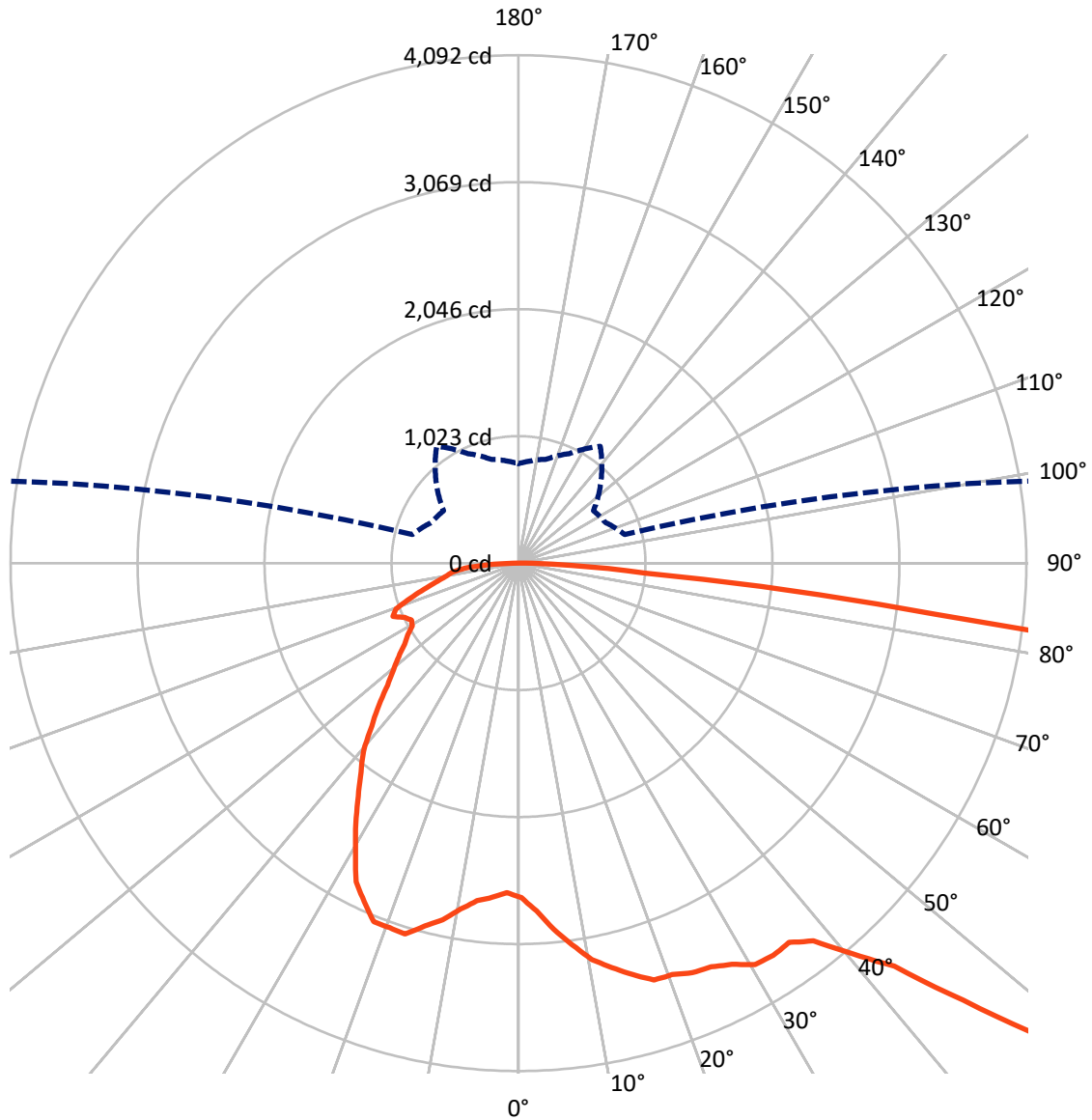
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5825.4	0.0	5825.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	20343.6	0.0	20343.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	26169.0	0.0	26169.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.8	1.1
10°-20°	917.5	3.5
20°-30°	1549.4	5.9
30°-40°	2144.1	8.2
40°-50°	3066.9	11.7
50°-60°	4946.6	18.9
60°-70°	7295.5	27.9
70°-80°	5297.8	20.2
80°-90°	675.3	2.6
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°	26169.0	100.0
0°-180°	26169.0	100.0

**Coefficient of Utilization**



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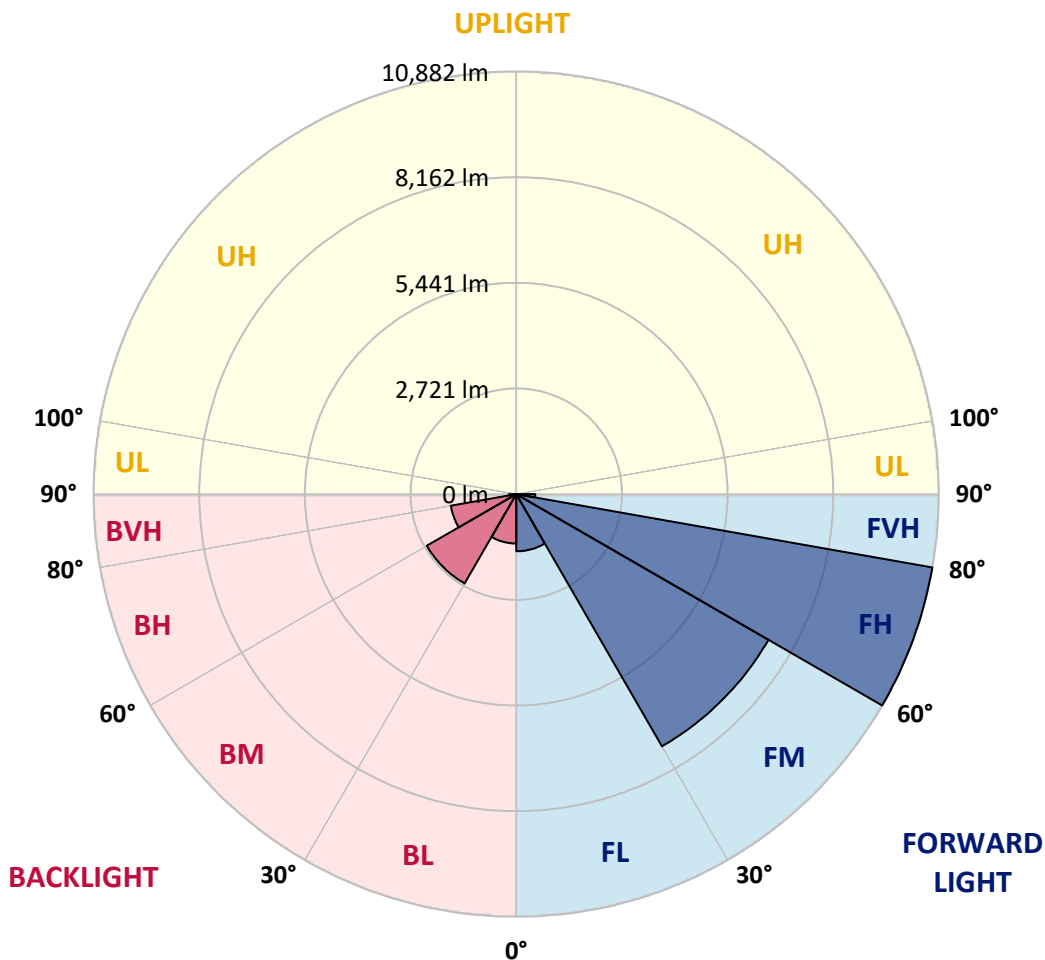
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1470.7	5.6			
FM (30°-60°)	7499.1	28.7			
FH (60°-80°)	10882.2	41.6			G4/12000
FVH (80°-90°)	491.5	1.9			G3/500
BL (0°-30°)	1271.9	4.9	B3/2500		
BM (30°-60°)	2658.5	10.2	B3/5000		
BH (60°-80°)	1711.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	183.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9
2.5°	2838.8	2855.8	2838.8	2836.0	2807.8	2788.1	2805.0	2779.6	2751.4	2740.1	2714.7
5°	3098.5	3101.3	3070.2	3073.1	3013.8	2951.7	2963.0	2886.8	2805.0	2773.9	2723.2
7.5°	3363.7	3332.7	3287.5	3273.4	3180.3	3112.6	3104.1	3036.4	2909.4	2838.8	2768.3
10°	3535.9	3547.1	3473.8	3411.7	3332.7	3250.8	3248.0	3121.0	3047.7	2943.3	2853.0
12.5°	3688.2	3691.1	3629.0	3530.2	3431.5	3329.9	3344.0	3287.5	3163.4	3064.6	2974.3
15°	3806.8	3789.8	3722.1	3631.8	3527.4	3448.4	3439.9	3391.9	3287.5	3205.7	3056.1
17.5°	3840.6	3832.2	3764.4	3668.5	3566.9	3507.6	3530.2	3451.2	3408.9	3335.5	3191.6
20°	3775.7	3756.0	3744.7	3637.5	3564.1	3558.4	3538.7	3555.6	3485.1	3417.3	3312.9
22.5°	3657.2	3648.7	3643.1	3558.4	3524.6	3550.0	3583.8	3609.2	3597.9	3533.0	3414.5
25°	3535.9	3575.4	3538.7	3499.2	3547.1	3612.1	3603.6	3685.4	3685.4	3665.7	3566.9
27.5°	3620.5	3595.1	3566.9	3547.1	3564.1	3665.7	3660.0	3758.8	3795.5	3758.8	3645.9
30°	3832.2	3806.8	3724.9	3637.5	3614.9	3724.9	3753.1	3840.6	3857.6	3767.3	3671.3
32.5°	4230.1	4215.9	4086.1	3829.3	3691.1	3753.1	3767.3	3866.0	3851.9	3795.5	3756.0
35°	4819.8	4771.9	4591.3	4156.7	3851.9	3789.8	3753.1	3832.2	3885.8	3857.6	3820.9
37.5°	5466.1	5412.4	5189.5	4639.2	4142.6	3888.6	3860.4	3925.3	3987.4	3973.3	3897.1
40°	6084.1	6084.1	5883.7	5243.1	4574.3	4128.5	4134.1	4060.7	4117.2	4091.8	4105.9
42.5°	6693.6	6671.0	6589.2	5951.4	5037.1	4529.2	4438.9	4255.5	4357.0	4348.6	4368.3
45°	7311.6	7294.7	7272.1	6611.8	5700.3	5071.0	5023.0	4692.8	4786.0	4746.5	4831.1
47.5°	7805.4	7825.2	7825.2	7348.3	6408.6	5793.4	5722.8	5200.8	5378.6	5398.3	5418.1
50°	8225.9	8234.4	8225.9	8050.9	7198.7	6620.2	6476.3	5945.8	6123.6	6278.8	6459.4
52.5°	8807.2	8818.5	8779.0	8711.3	8271.0	7489.4	7328.5	6738.7	7102.8	7266.4	7591.0
55°	9524.0	9439.3	9365.9	9416.7	9301.0	8446.0	8279.5	7557.1	8104.5	8321.8	8970.9
57.5°	9656.6	9730.0	9916.2	10319.8	10486.2	9377.2	9281.3	8561.7	9236.1	9425.2	10508.8
60°	10125.0	10003.7	10460.8	11335.6	11521.9	10590.7	10491.9	9662.2	10362.1	10559.6	11928.2
62.5°	10432.6	10427.0	11104.2	12142.7	12566.0	11849.2	11648.9	11093.0	11578.3	11770.2	13474.7
65°	10342.3	10424.2	11626.3	12616.8	13438.0	13279.9	13164.2	12323.3	12963.9	12947.0	14482.1
67.5°	9518.3	9749.7	11296.1	12958.2	14736.1	15023.9	14987.2	14053.1	14089.8	13731.4	14930.8
70°	8375.4	8296.4	9899.3	12602.7	15385.1	17092.4	17083.9	15339.9	15102.9	13903.6	13644.0
72°	6434.0	6346.5	7664.3	10822.1	15043.6	17919.2	18173.1	16231.7	15091.6	13189.6	11270.7
72.5°	5841.4	5765.2	7077.4	10187.1	14665.5	18133.6	18015.1	16265.5	14973.1	12853.8	10528.6
75°	2689.3	2601.8	3535.9	6236.4	11440.1	16068.0	16471.5	15221.4	13076.8	10232.3	6307.0
77.5°	801.4	776.0	1137.2	2517.2	6648.4	11837.9	11993.1	11485.2	9128.9	5604.3	2339.4
80°	445.9	448.7	587.0	942.5	2923.5	6843.1	7401.9	7094.3	4478.4	1851.2	778.8
82.5°	248.3	262.4	366.8	558.7	1343.2	3140.8	3380.7	3259.3	1619.8	869.2	426.1
85°	129.8	135.5	191.9	299.1	761.9	993.3	1021.5	1094.9	840.9	592.6	228.6
87.5°	50.8	50.8	70.5	124.2	282.2	307.6	276.5	335.8	482.5	383.8	112.9
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°	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9	2694.9
2.5°	2737.3	2714.7	2711.9	2675.2	2686.5	2655.4	2658.2	2652.6	2655.4	2649.8	2635.7
5°	2723.2	2706.2	2658.2	2689.3	2661.1	2700.6	2731.6	2720.3	2728.8	2726.0	2728.8
7.5°	2742.9	2720.3	2714.7	2697.8	2723.2	2740.1	2765.5	2836.0	2830.4	2838.8	2855.8
10°	2802.2	2776.8	2759.8	2785.2	2771.1	2824.7	2853.0	2889.6	2954.5	2957.4	2923.5
12.5°	2917.9	2900.9	2867.1	2872.7	2920.7	2937.6	2954.5	2977.1	3019.5	3011.0	3042.0
15°	3050.5	3013.8	2994.1	2988.4	2999.7	3019.5	3016.6	3039.2	3061.8	3081.5	3073.1
17.5°	3146.4	3098.5	3104.1	3132.3	3129.5	3123.9	3087.2	3075.9	3087.2	3098.5	3092.8
20°	3245.2	3250.8	3208.5	3183.1	3171.8	3115.4	3087.2	3053.3	3019.5	3036.4	3061.8
22.5°	3369.4	3344.0	3281.9	3205.7	3149.3	3115.4	3027.9	2968.7	2968.7	2985.6	2977.1
25°	3510.5	3456.8	3349.6	3211.3	3140.8	2996.9	2934.8	2926.3	2903.8	2929.1	2940.4
27.5°	3620.5	3572.5	3425.8	3191.6	2996.9	2881.2	2844.5	2833.2	2869.9	2872.7	2917.9
30°	3665.7	3651.6	3437.1	3140.8	2850.1	2663.9	2641.3	2692.1	2731.6	2790.9	2793.7
32.5°	3724.9	3730.6	3454.0	3022.3	2658.2	2472.0	2438.1	2500.2	2613.1	2661.1	2697.8
35°	3823.7	3851.9	3439.9	2875.5	2455.1	2277.3	2271.6	2288.6	2398.6	2483.3	2531.3
37.5°	3995.8	3990.2	3437.1	2700.6	2294.2	2108.0	2062.8	2068.5	2141.8	2212.4	2203.9
40°	4227.2	4204.7	3428.6	2472.0	2085.4	1964.1	1887.9	1859.6	1854.0	1834.2	1839.9
42.5°	4543.3	4498.1	3425.8	2240.6	1896.3	1766.5	1712.9	1639.5	1585.9	1484.3	1490.0
45°	4983.5	4904.5	3352.4	2023.3	1710.1	1602.8	1521.0	1467.4	1351.7	1224.7	1224.7
47.5°	5663.6	5406.8	3355.3	1783.5	1529.5	1442.0	1385.6	1292.4	1168.3	1066.7	1055.4
50°	6665.4	6078.4	3259.3	1594.4	1382.7	1323.5	1264.2	1157.0	1038.5	967.9	976.4
52.5°	7957.8	7080.2	3256.5	1425.1	1267.0	1224.7	1159.8	1063.9	976.4	931.2	914.3
55°	9498.6	8406.5	3358.1	1286.8	1148.5	1125.9	1097.7	1018.7	934.1	894.5	891.7
57.5°	11076.0	9701.8	3521.8	1188.0	1046.9	1063.9	1044.1	982.0	914.3	869.2	863.5
60°	12478.5	10728.9	3191.6	1069.5	956.6	993.3	1021.5	967.9	931.2	928.4	908.7
62.5°	13536.7	11169.1	2426.8	979.2	908.7	976.4	1052.6	1086.4	1069.5	1092.1	1094.9
65°	13923.3	10903.9	1670.6	931.2	872.0	1015.9	1185.2	1173.9	1075.2	1032.8	1055.4
67.5°	13381.5	9828.7	1238.8	874.8	846.6	1097.7	1261.4	1120.3	970.7	965.1	948.2
70°	11507.8	8330.3	1010.2	815.5	804.2	1052.6	1227.5	1038.5	914.3	877.6	860.7
72°	9168.4	6487.6	886.1	773.2	736.5	939.7	1148.5	973.6	866.3	821.2	801.4
72.5°	8369.8	6013.5	869.2	753.5	722.4	914.3	1109.0	953.8	855.0	815.5	784.5
75°	4591.3	3078.7	764.7	691.4	609.5	790.1	1027.2	894.5	807.1	750.6	745.0
77.5°	1707.3	1193.7	660.3	612.4	527.7	682.9	934.1	849.4	733.7	663.2	649.0
80°	654.7	629.3	539.0	516.4	443.0	598.2	860.7	761.9	623.6	553.1	530.5
82.5°	397.9	366.8	409.2	403.5	338.6	544.6	809.9	713.9	553.1	448.7	434.6
85°	217.3	217.3	285.0	273.7	237.0	434.6	612.4	474.1	349.9	287.8	293.5
87.5°	95.9	112.9	152.4	143.9	129.8	245.5	299.1	251.2	175.0	118.5	127.0
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)