

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: P478100

Luminaire Tested: **IFLD-M-SA4C-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478100  
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-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

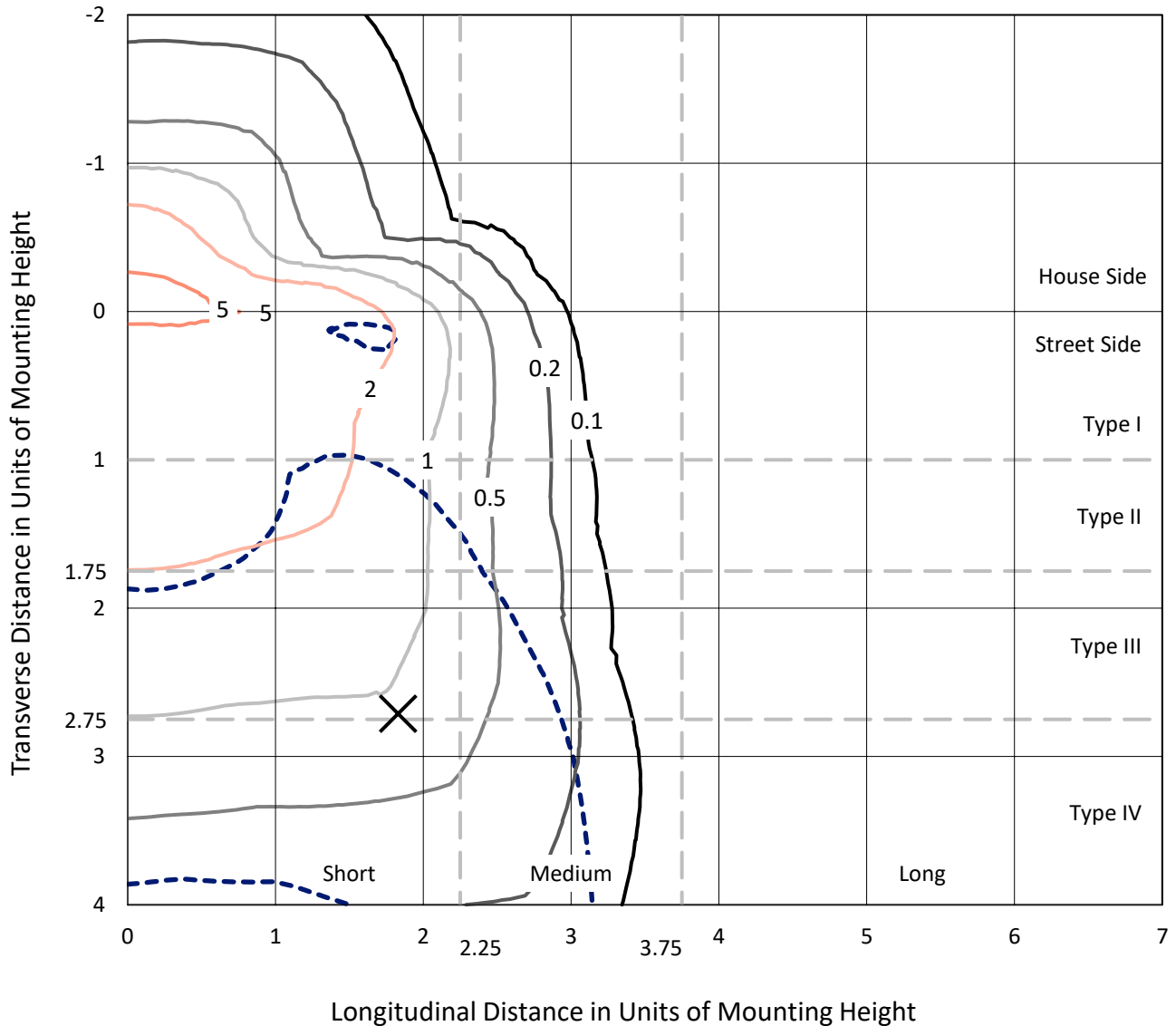
Lumens per Lamp: N/A  
Luminaire Lumens: 26524 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

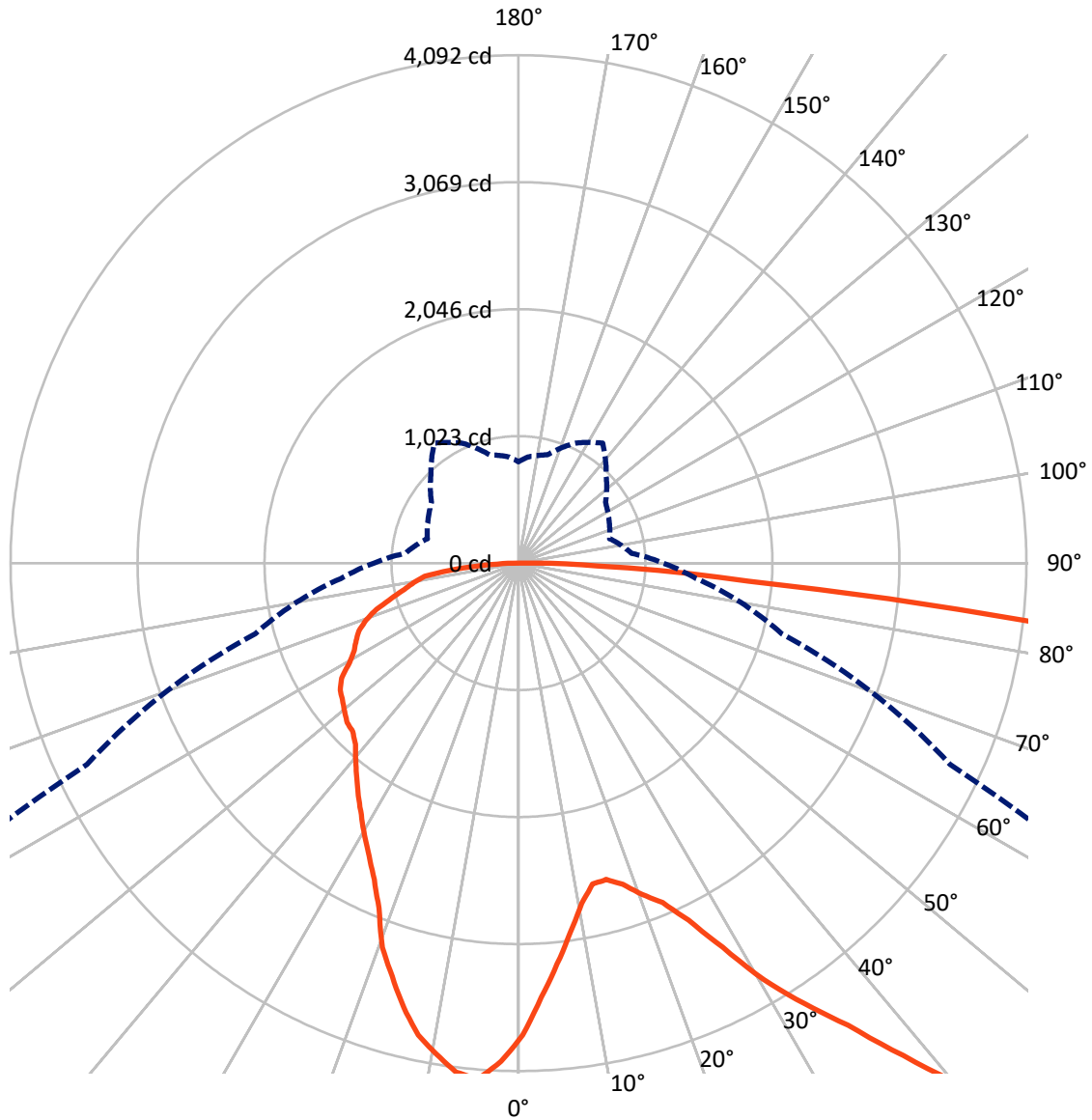
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5729.5	0.0	5729.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	20794.5	0.0	20794.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	26524.0	0.0	26524.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.0	1.3
10°-20°	982.2	3.7
20°-30°	1616.6	6.1
30°-40°	2417.6	9.1
40°-50°	3583.9	13.5
50°-60°	5164.8	19.5
60°-70°	6591.0	24.8
70°-80°	5128.9	19.3
80°-90°	688.1	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°	26524.0	100.0
0°-180°	26524.0	100.0



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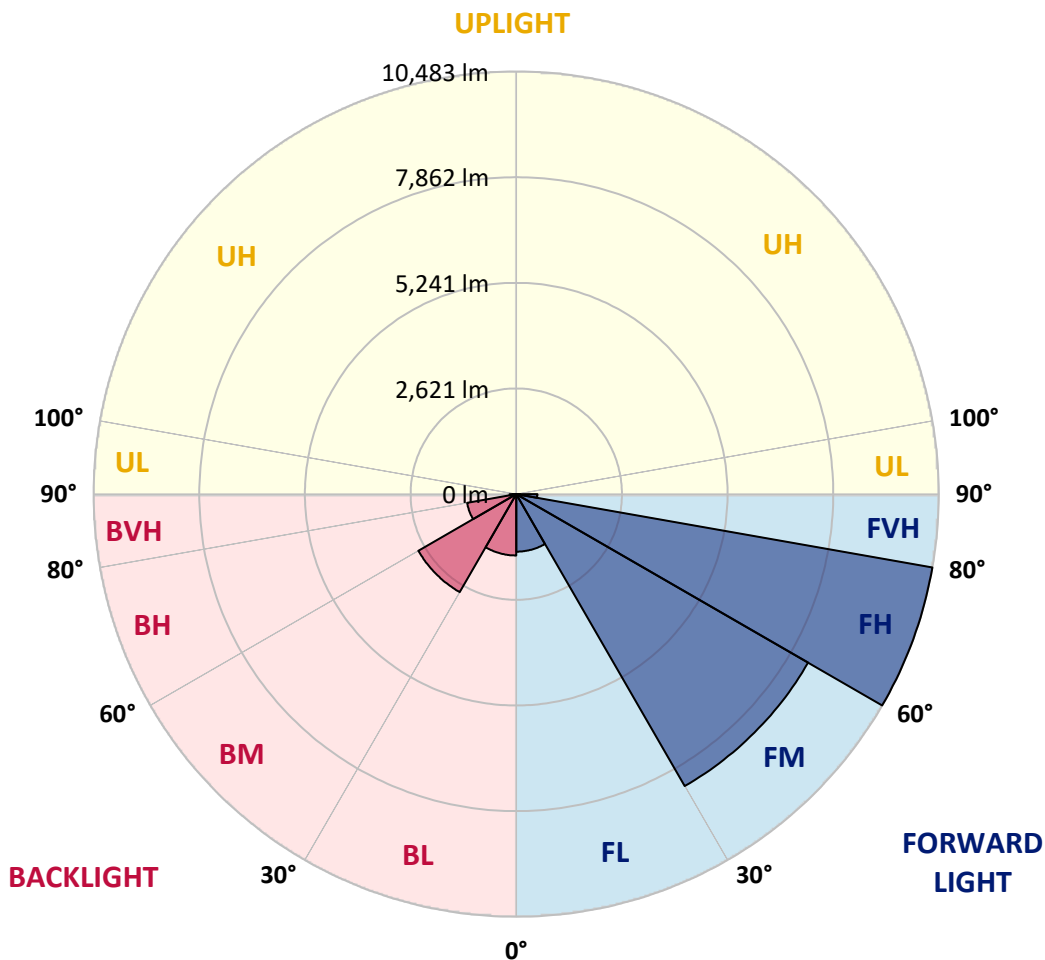
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.4	5.4			
FM (30°-60°)	8360.5	31.5			
FH (60°-80°)	10482.8	39.5			G4/12000
FVH (80°-90°)	523.7	2.0			G4/750
BL (0°-30°)	1522.3	5.7	B3/2500		
BM (30°-60°)	2805.8	10.6	B3/5000		
BH (60°-80°)	1237.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	164.3	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6
2.5°	3407.2	3418.4	3454.9	3463.3	3502.6	3480.1	3527.8	3611.9	3659.6	3729.7	3813.8
5°	3138.0	3090.3	3112.8	3199.7	3244.6	3255.8	3306.3	3449.3	3539.0	3642.8	3799.8
7.5°	2821.1	2812.7	2857.6	2913.7	3003.4	3011.8	3124.0	3250.2	3435.3	3665.2	3850.3
10°	2605.2	2641.6	2666.9	2725.8	2787.5	2787.5	2930.5	3149.2	3359.5	3581.1	3861.5
12.5°	2594.0	2571.5	2577.1	2608.0	2652.9	2709.0	2843.6	3039.9	3306.3	3564.3	3909.2
15°	2630.4	2638.8	2588.4	2627.6	2644.5	2664.1	2812.7	3034.2	3272.6	3623.2	3990.5
17.5°	2823.9	2776.3	2697.7	2661.3	2720.2	2720.2	2821.1	2995.0	3278.2	3654.0	4108.3
20°	2975.4	2975.4	2846.4	2807.1	2849.2	2840.8	2910.9	3039.9	3306.3	3715.7	4240.1
22.5°	3230.6	3267.0	3053.9	2972.6	2969.8	2992.2	3053.9	3163.2	3384.8	3802.6	4366.3
25°	3597.9	3606.3	3359.5	3275.4	3185.7	3222.1	3233.4	3342.7	3454.9	3903.6	4509.3
27.5°	4007.3	4001.7	3774.6	3564.3	3505.4	3513.8	3452.1	3525.0	3558.7	3934.4	4714.0
30°	4461.6	4411.2	4240.1	3942.8	3895.2	3841.9	3707.3	3704.5	3774.6	4108.3	4997.3
32.5°	4758.9	4694.4	4576.6	4363.5	4231.7	4237.3	4024.2	4021.4	3959.7	4299.0	5244.0
35°	5050.5	4952.4	4921.5	4702.8	4571.0	4585.0	4414.0	4391.5	4279.4	4587.8	5650.7
37.5°	5401.1	5314.1	5361.8	5196.4	5033.7	4966.4	4887.9	4859.8	4714.0	4994.5	6205.9
40°	5788.1	5760.0	5729.2	5647.9	5549.7	5555.3	5471.2	5443.1	5227.2	5485.2	6738.7
42.5°	6309.7	6203.1	6043.3	6096.5	6147.0	6200.3	6172.3	6099.3	5875.0	5984.4	7333.2
45°	6794.8	6654.6	6360.1	6377.0	6584.5	6626.6	6965.9	6957.5	6506.0	6618.1	8009.1
47.5°	7122.9	7058.4	6881.7	6862.1	7159.4	7156.6	7767.9	7767.9	7170.6	7249.1	8735.4
50°	7610.9	7442.6	7366.9	7465.0	7616.5	7720.2	8586.8	8640.0	7824.0	7908.1	9686.0
52.5°	8182.9	7972.6	7781.9	8034.3	8303.5	8370.8	9397.2	9374.8	8326.0	8673.7	10799.3
55°	8656.9	8550.3	8418.5	8564.3	9004.6	9088.7	10210.4	10002.9	8827.9	9307.5	11335.0
57.5°	9209.3	9273.8	9301.9	9265.4	9789.8	9921.6	11138.7	10544.2	9259.8	9733.7	11649.1
60°	10042.2	10081.4	10117.9	10204.8	10760.1	10945.2	11873.4	11222.8	9531.8	9980.5	11674.3
62.5°	11309.7	11158.3	11239.6	11539.7	11985.6	12195.9	12955.9	11699.5	9739.3	10129.1	10849.8
65°	12759.6	12554.8	12470.7	12857.7	14013.1	13844.8	14307.5	12055.7	9439.3	9573.9	9200.9
67.5°	14229.0	14251.4	14035.5	14812.3	16228.5	16228.5	15563.9	12226.7	8626.0	7759.5	6452.7
70°	15395.6	15465.7	15583.5	17089.4	19332.8	19672.1	17120.2	11525.7	6968.7	5165.5	3527.8
72.5°	15378.8	15168.4	15771.4	18544.8	22154.0	21870.7	17445.5	9114.0	4349.5	2529.5	1618.1
73°	15033.8	14857.2	15516.2	18530.8	22268.9	22002.5	17207.2	8401.7	3836.3	2193.0	1438.6
75°	12277.2	11957.5	13079.2	16783.7	20603.2	20807.9	14618.8	5479.6	2103.2	1351.7	1012.4
77.5°	5597.4	5737.6	7198.6	11259.3	15877.9	16119.1	9610.3	2369.6	1152.6	947.9	745.9
80°	1797.6	1887.3	2801.5	5597.4	9952.5	10387.1	4442.0	1076.9	821.7	726.3	558.1
82.5°	687.1	684.2	1175.0	2327.6	4716.8	4994.5	1623.7	656.2	611.3	535.6	395.4
85°	241.2	252.4	443.1	919.8	1856.4	1943.4	563.7	364.6	423.4	359.0	227.1
87.5°	84.1	86.9	157.0	333.7	639.4	675.8	157.0	145.8	210.3	207.5	115.0
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°	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6	3802.6
2.5°	3841.9	3867.1	3875.5	3976.5	3976.5	3976.5	4015.8	4015.8	4004.5	3976.5	4043.8
5°	3858.7	3903.6	3990.5	4077.4	4099.9	4119.5	4172.8	4127.9	4144.8	4116.7	4141.9
7.5°	3906.4	3968.1	4130.7	4184.0	4147.6	4189.6	4133.5	4102.7	4071.8	4083.1	4043.8
10°	3987.7	4066.2	4141.9	4240.1	4170.0	4127.9	4012.9	3984.9	3886.8	3853.1	3884.0
12.5°	4088.7	4184.0	4313.0	4276.6	4141.9	4021.4	3898.0	3780.2	3721.3	3637.2	3659.6
15°	4189.6	4299.0	4318.6	4256.9	4088.7	3937.2	3712.9	3547.4	3488.5	3412.8	3452.1
17.5°	4299.0	4402.7	4369.1	4209.3	3982.1	3752.2	3497.0	3334.3	3210.9	3163.2	3163.2
20°	4461.6	4512.1	4458.8	4130.7	3853.1	3550.2	3303.5	3118.4	2995.0	2975.4	2944.5
22.5°	4587.8	4669.2	4430.8	4015.8	3665.2	3286.6	3003.4	2933.3	2896.8	2866.0	2826.7
25°	4750.5	4747.7	4380.3	3909.2	3342.7	2972.6	2801.5	2795.9	2779.1	2767.8	2821.1
27.5°	4904.7	4840.2	4321.4	3645.6	3009.0	2734.2	2641.6	2703.3	2728.6	2711.8	2734.2
30°	5148.7	5042.1	4237.3	3365.2	2714.6	2493.0	2509.8	2594.0	2636.0	2661.3	2627.6
32.5°	5406.7	5244.0	4063.4	3073.5	2453.8	2341.6	2380.8	2467.8	2518.3	2546.3	2577.1
35°	5779.7	5401.1	3886.8	2692.1	2265.9	2249.0	2271.5	2319.2	2392.1	2411.7	2420.1
37.5°	6239.6	5639.4	3648.4	2386.5	2120.0	2139.7	2162.1	2178.9	2181.7	2218.2	2204.2
40°	6699.5	5841.4	3300.7	2094.8	1968.6	2075.2	2064.0	2033.1	2007.9	1974.2	1965.8
42.5°	7103.3	6018.0	2913.7	1848.0	1834.0	2007.9	1971.4	1892.9	1834.0	1808.8	1766.7
45°	7557.6	6267.6	2523.9	1693.8	1730.3	1926.6	1915.3	1794.8	1719.0	1629.3	1618.1
47.5°	8146.5	6528.4	2150.9	1534.0	1632.1	1895.7	1901.3	1747.1	1637.7	1517.1	1500.3
50°	8900.8	6904.2	1867.7	1466.6	1573.2	1850.8	1859.2	1682.6	1539.6	1416.2	1405.0
52.5°	9624.3	7288.4	1632.1	1362.9	1534.0	1797.6	1817.2	1623.7	1458.2	1304.0	1312.4
55°	9988.9	7148.2	1430.2	1287.2	1444.2	1710.6	1783.5	1581.6	1334.8	1228.3	1225.5
57.5°	10070.2	6803.2	1270.3	1208.7	1368.5	1618.1	1727.4	1455.4	1278.8	1189.0	1177.8
60°	9803.8	6200.3	1144.2	1124.5	1273.2	1522.7	1598.4	1388.1	1222.7	1149.8	1132.9
62.5°	9147.6	5574.9	1057.2	1085.3	1191.8	1419.0	1517.1	1340.5	1169.4	1118.9	1082.5
65°	7501.5	4585.0	987.1	1009.5	1107.7	1318.0	1466.6	1287.2	1121.7	1074.0	1071.2
67.5°	5196.4	3160.4	931.0	973.1	1040.4	1245.1	1416.2	1228.3	1060.0	1043.2	1020.8
70°	2661.3	1685.4	858.1	891.8	967.5	1152.6	1326.4	1166.6	995.5	992.7	964.7
72.5°	1348.9	987.1	774.0	824.5	877.7	1032.0	1214.3	1085.3	914.2	883.4	838.5
73°	1166.6	914.2	760.0	804.8	855.3	998.3	1180.6	1065.6	903.0	858.1	816.1
75°	849.7	720.7	681.4	726.3	765.6	900.2	1068.4	975.9	830.1	782.4	743.1
77.5°	636.6	555.3	566.5	616.9	650.6	776.8	950.7	883.4	751.6	687.1	670.2
80°	468.3	423.4	468.3	516.0	541.2	684.2	866.5	765.6	633.8	560.9	546.8
82.5°	333.7	308.5	361.8	392.6	403.8	566.5	779.6	611.3	479.5	384.2	353.3
85°	190.7	187.9	244.0	241.2	249.6	330.9	513.2	406.6	308.5	235.6	230.0
87.5°	84.1	92.5	123.4	98.2	103.8	157.0	218.7	151.4	126.2	70.1	53.3
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)