

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: P478210

Luminaire Tested: **IFLD-S-SA6A-750-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478210  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-750-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

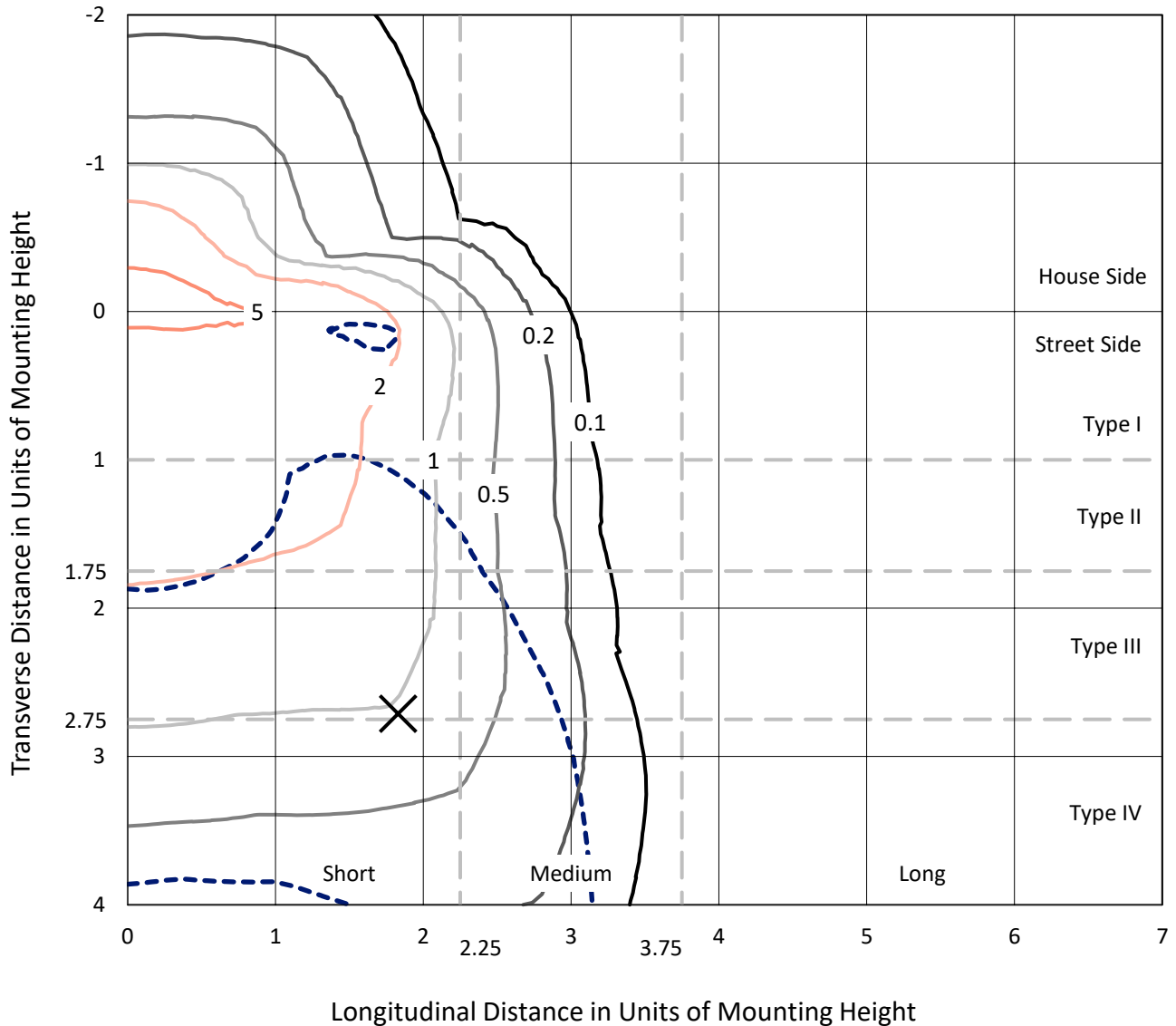
Lumens per Lamp: N/A  
Luminaire Lumens: 28284.2 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

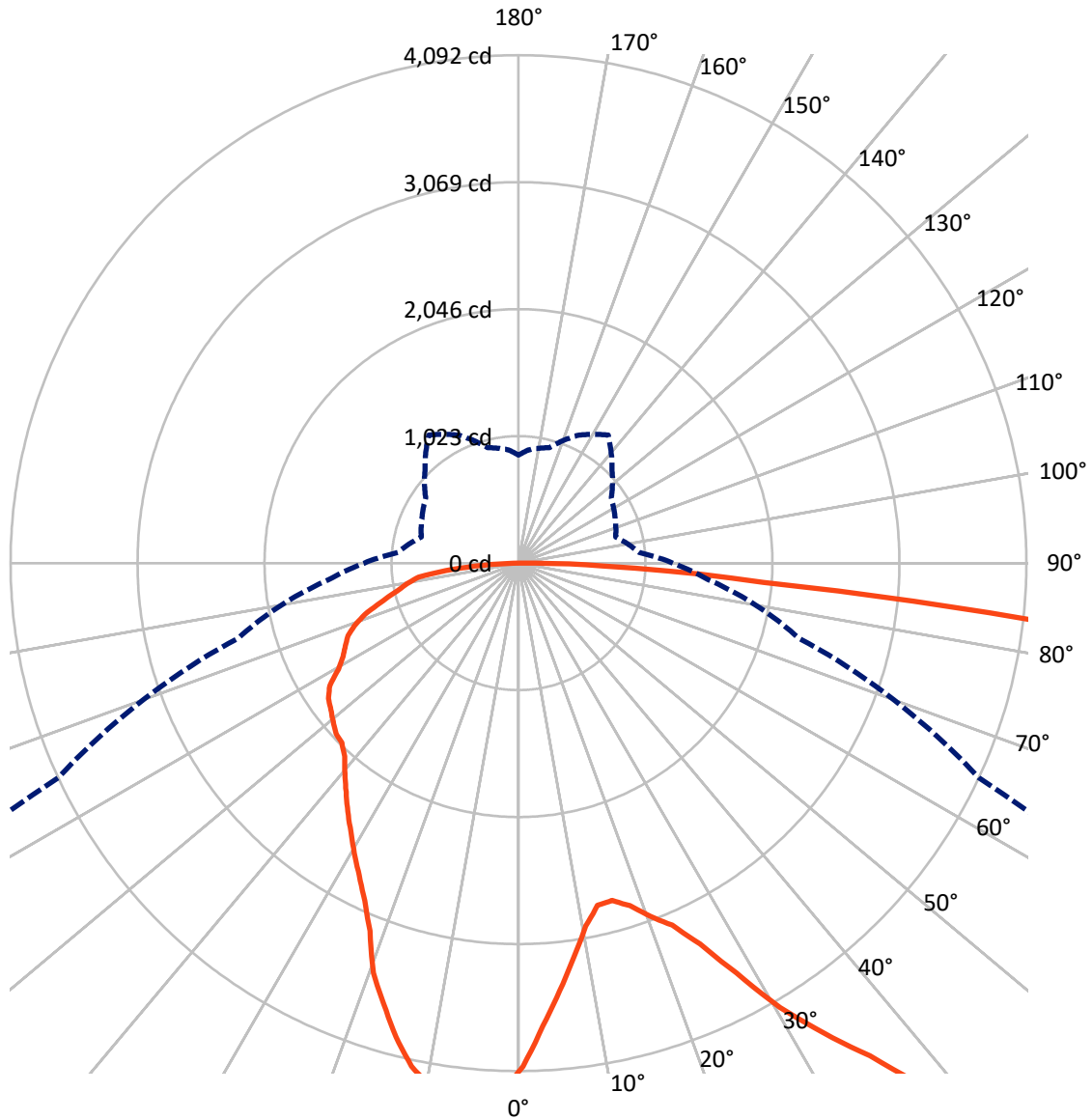
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	6109.7	0.0	6109.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	22174.4	0.0	22174.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	28284.2	0.0	28284.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.3	1.3
10°-20°	1047.4	3.7
20°-30°	1723.8	6.1
30°-40°	2578.0	9.1
40°-50°	3821.8	13.5
50°-60°	5507.6	19.5
60°-70°	7028.4	24.8
70°-80°	5469.3	19.3
80°-90°	733.7	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°	28284.2	100.0
0°-180°	28284.2	100.0

**Coefficient of Utilization**



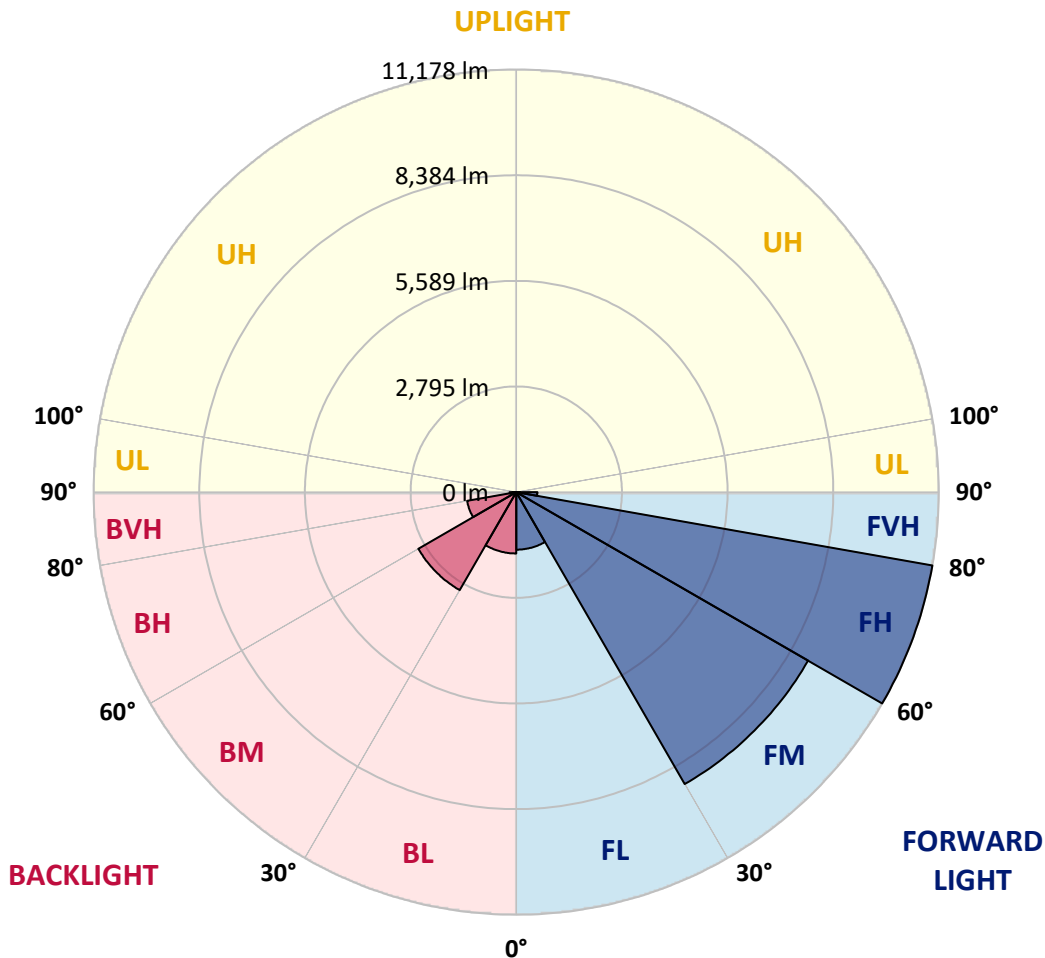
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.2	5.4			
FM	(30°-60°)	8915.4	31.5			
FH	(60°-80°)	11178.4	39.5			G4/12000
FVH	(80°-90°)	558.5	2.0			G4/750
BL	(0°-30°)	1623.3	5.7	B3/2500		
BM	(30°-60°)	2991.9	10.6	B3/5000		
BH	(60°-80°)	1319.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	175.2	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°	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0
2.5°	3633.3	3645.3	3684.2	3693.1	3735.0	3711.1	3761.9	3851.6	3902.5	3977.2	4066.9
5°	3346.3	3295.4	3319.3	3412.0	3459.9	3471.9	3525.7	3678.2	3773.9	3884.5	4052.0
7.5°	3008.3	2999.4	3047.2	3107.0	3202.7	3211.7	3331.3	3465.9	3663.2	3908.5	4105.8
10°	2778.1	2817.0	2843.9	2906.7	2972.5	2972.5	3125.0	3358.2	3582.5	3818.7	4117.8
12.5°	2766.1	2742.2	2748.2	2781.1	2828.9	2888.7	3032.3	3241.6	3525.7	3800.8	4168.6
15°	2805.0	2814.0	2760.1	2802.0	2819.9	2840.9	2999.4	3235.6	3489.8	3863.6	4255.3
17.5°	3011.3	2960.5	2876.8	2837.9	2900.7	2900.7	3008.3	3193.7	3495.8	3896.5	4380.9
20°	3172.8	3172.8	3035.3	2993.4	3038.2	3029.3	3104.0	3241.6	3525.7	3962.3	4521.5
22.5°	3444.9	3483.8	3256.5	3169.8	3166.8	3190.8	3256.5	3373.2	3609.4	4055.0	4656.0
25°	3836.7	3845.7	3582.5	3492.8	3397.1	3436.0	3447.9	3564.6	3684.2	4162.6	4808.6
27.5°	4273.3	4267.3	4025.1	3800.8	3738.0	3747.0	3681.2	3758.9	3794.8	4195.5	5026.9
30°	4757.7	4703.9	4521.5	4204.5	4153.7	4096.8	3953.3	3950.3	4025.1	4380.9	5328.9
32.5°	5074.7	5005.9	4880.3	4653.1	4512.5	4518.5	4291.2	4288.2	4222.4	4584.3	5592.0
35°	5385.7	5281.0	5248.1	5014.9	4874.3	4889.3	4706.9	4683.0	4563.3	4892.3	6025.7
37.5°	5759.5	5666.8	5717.6	5541.2	5367.8	5296.0	5212.3	5182.4	5026.9	5325.9	6617.8
40°	6172.2	6142.3	6109.4	6022.7	5918.0	5924.0	5834.3	5804.4	5574.1	5849.2	7185.9
42.5°	6728.4	6614.8	6444.3	6501.1	6555.0	6611.8	6581.9	6504.1	6264.9	6381.5	7819.9
45°	7245.7	7096.2	6782.2	6800.2	7021.5	7066.3	7428.1	7419.2	6937.7	7057.3	8540.6
47.5°	7595.6	7526.8	7338.4	7317.5	7634.5	7631.5	8283.4	8283.4	7646.4	7730.2	9315.1
50°	8115.9	7936.5	7855.8	7960.4	8121.9	8232.6	9156.6	9213.4	8343.2	8432.9	10328.8
52.5°	8726.0	8501.7	8298.4	8567.5	8854.6	8926.3	10020.8	9996.9	8878.5	9249.3	11516.0
55°	9231.4	9117.7	8977.2	9132.7	9602.2	9691.9	10888.0	10666.7	9413.8	9925.1	12087.2
57.5°	9820.5	9889.2	9919.2	9880.3	10439.5	10580.0	11877.9	11243.9	9874.3	10379.7	12422.1
60°	10708.6	10750.5	10789.4	10882.1	11474.2	11671.5	12661.3	11967.6	10164.4	10642.8	12449.0
62.5°	12060.3	11898.8	11985.5	12305.5	12781.0	13005.2	13815.6	12475.9	10385.7	10801.3	11569.9
65°	13606.3	13388.0	13298.3	13711.0	14943.0	14763.6	15257.0	12855.7	10065.7	10209.2	9811.5
67.5°	15173.3	15197.2	14966.9	15795.3	17305.4	17305.4	16596.7	13038.1	9198.5	8274.4	6880.9
70°	16417.3	16492.0	16617.6	18223.5	20615.8	20977.6	18256.4	12290.5	7431.1	5508.3	3761.9
72.5°	16399.3	16175.1	16818.0	19775.5	23624.1	23322.1	18603.3	9718.8	4638.1	2697.3	1725.5
73°	16031.5	15843.1	16545.9	19760.6	23746.8	23462.7	18349.1	8959.2	4090.9	2338.5	1534.1
75°	13092.0	12751.1	13947.2	17897.5	21970.5	22188.8	15588.9	5843.2	2242.8	1441.4	1079.5
77.5°	5968.8	6118.4	7676.4	12006.4	16931.6	17188.8	10248.1	2526.9	1229.1	1010.8	795.4
80°	1916.8	2012.5	2987.4	5968.8	10612.9	11076.4	4736.8	1148.3	876.2	774.5	595.1
82.5°	732.6	729.7	1253.0	2482.0	5029.8	5325.9	1731.4	699.8	651.9	571.2	421.6
85°	257.2	269.1	472.5	980.9	1979.6	2072.3	601.1	388.8	451.6	382.8	242.2
87.5°	89.7	92.7	167.5	355.9	681.8	720.7	167.5	155.5	224.3	221.3	122.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0	4055.0
2.5°	4096.8	4123.8	4132.7	4240.4	4240.4	4240.4	4282.3	4282.3	4270.3	4240.4	4312.2
5°	4114.8	4162.6	4255.3	4348.0	4372.0	4392.9	4449.7	4401.9	4419.8	4389.9	4416.8
7.5°	4165.6	4231.4	4404.9	4461.7	4422.8	4467.7	4407.8	4375.0	4342.1	4354.0	4312.2
10°	4252.3	4336.1	4416.8	4521.5	4446.7	4401.9	4279.3	4249.4	4144.7	4108.8	4141.7
12.5°	4360.0	4461.7	4599.2	4560.4	4416.8	4288.2	4156.7	4031.1	3968.3	3878.5	3902.5
15°	4467.7	4584.3	4605.2	4539.4	4360.0	4198.5	3959.3	3782.9	3720.1	3639.3	3681.2
17.5°	4584.3	4694.9	4659.0	4488.6	4246.4	4001.2	3729.0	3555.6	3424.0	3373.2	3373.2
20°	4757.7	4811.6	4754.7	4404.9	4108.8	3785.8	3522.7	3325.3	3193.7	3172.8	3139.9
22.5°	4892.3	4979.0	4724.8	4282.3	3908.5	3504.7	3202.7	3128.0	3089.1	3056.2	3014.3
25°	5065.7	5062.7	4671.0	4168.6	3564.6	3169.8	2987.4	2981.4	2963.5	2951.5	3008.3
27.5°	5230.2	5161.4	4608.2	3887.5	3208.7	2915.6	2817.0	2882.7	2909.7	2891.7	2915.6
30°	5490.4	5376.7	4518.5	3588.5	2894.7	2658.5	2676.4	2766.1	2811.0	2837.9	2802.0
32.5°	5765.5	5592.0	4333.1	3277.5	2616.6	2497.0	2538.8	2631.6	2685.4	2715.3	2748.2
35°	6163.2	5759.5	4144.7	2870.8	2416.2	2398.3	2422.2	2473.1	2550.8	2571.7	2580.7
37.5°	6653.6	6013.7	3890.5	2544.8	2260.7	2281.7	2305.6	2323.5	2326.5	2365.4	2350.5
40°	7144.1	6229.0	3519.7	2233.8	2099.3	2212.9	2200.9	2168.0	2141.1	2105.2	2096.3
42.5°	7574.7	6417.4	3107.0	1970.7	1955.7	2141.1	2102.2	2018.5	1955.7	1928.8	1884.0
45°	8059.1	6683.5	2691.4	1806.2	1845.1	2054.4	2042.4	1913.9	1833.1	1737.4	1725.5
47.5°	8687.1	6961.6	2293.6	1635.7	1740.4	2021.5	2027.5	1863.0	1746.4	1617.8	1599.9
50°	9491.5	7362.4	1991.6	1564.0	1677.6	1973.7	1982.6	1794.2	1641.7	1510.2	1498.2
52.5°	10263.0	7772.0	1740.4	1453.3	1635.7	1916.8	1937.8	1731.4	1555.0	1390.5	1399.5
55°	10651.8	7622.5	1525.1	1372.6	1540.1	1824.1	1901.9	1686.6	1423.4	1309.8	1306.8
57.5°	10738.5	7254.7	1354.7	1288.9	1459.3	1725.5	1842.1	1552.0	1363.6	1267.9	1256.0
60°	10454.4	6611.8	1220.1	1199.1	1357.6	1623.8	1704.5	1480.2	1303.8	1226.1	1208.1
62.5°	9754.7	5944.9	1127.4	1157.3	1270.9	1513.1	1617.8	1429.4	1247.0	1193.2	1154.3
65°	7999.3	4889.3	1052.6	1076.5	1181.2	1405.5	1564.0	1372.6	1196.2	1145.3	1142.3
67.5°	5541.2	3370.2	992.8	1037.7	1109.4	1327.7	1510.2	1309.8	1130.4	1112.4	1088.5
70°	2837.9	1797.2	915.1	950.9	1031.7	1229.1	1414.5	1244.0	1061.6	1058.6	1028.7
72.5°	1438.4	1052.6	825.3	879.2	936.0	1100.5	1294.8	1157.3	974.9	942.0	894.1
73°	1244.0	974.9	810.4	858.2	912.1	1064.6	1259.0	1136.4	962.9	915.1	870.2
75°	906.1	768.5	726.7	774.5	816.4	959.9	1139.3	1040.7	885.2	834.3	792.5
77.5°	678.8	592.1	604.1	657.9	693.8	828.3	1013.7	942.0	801.4	732.6	714.7
80°	499.4	451.6	499.4	550.2	577.1	729.7	924.0	816.4	675.8	598.1	583.1
82.5°	355.9	328.9	385.8	418.7	430.6	604.1	831.3	651.9	511.4	409.7	376.8
85°	203.3	200.4	260.2	257.2	266.1	352.9	547.2	433.6	328.9	251.2	245.2
87.5°	89.7	98.7	131.6	104.7	110.6	167.5	233.3	161.5	134.6	74.8	56.8
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)