

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: P478257

Luminaire Tested: **IFLD-M-SA4D-760-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478257  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-760-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

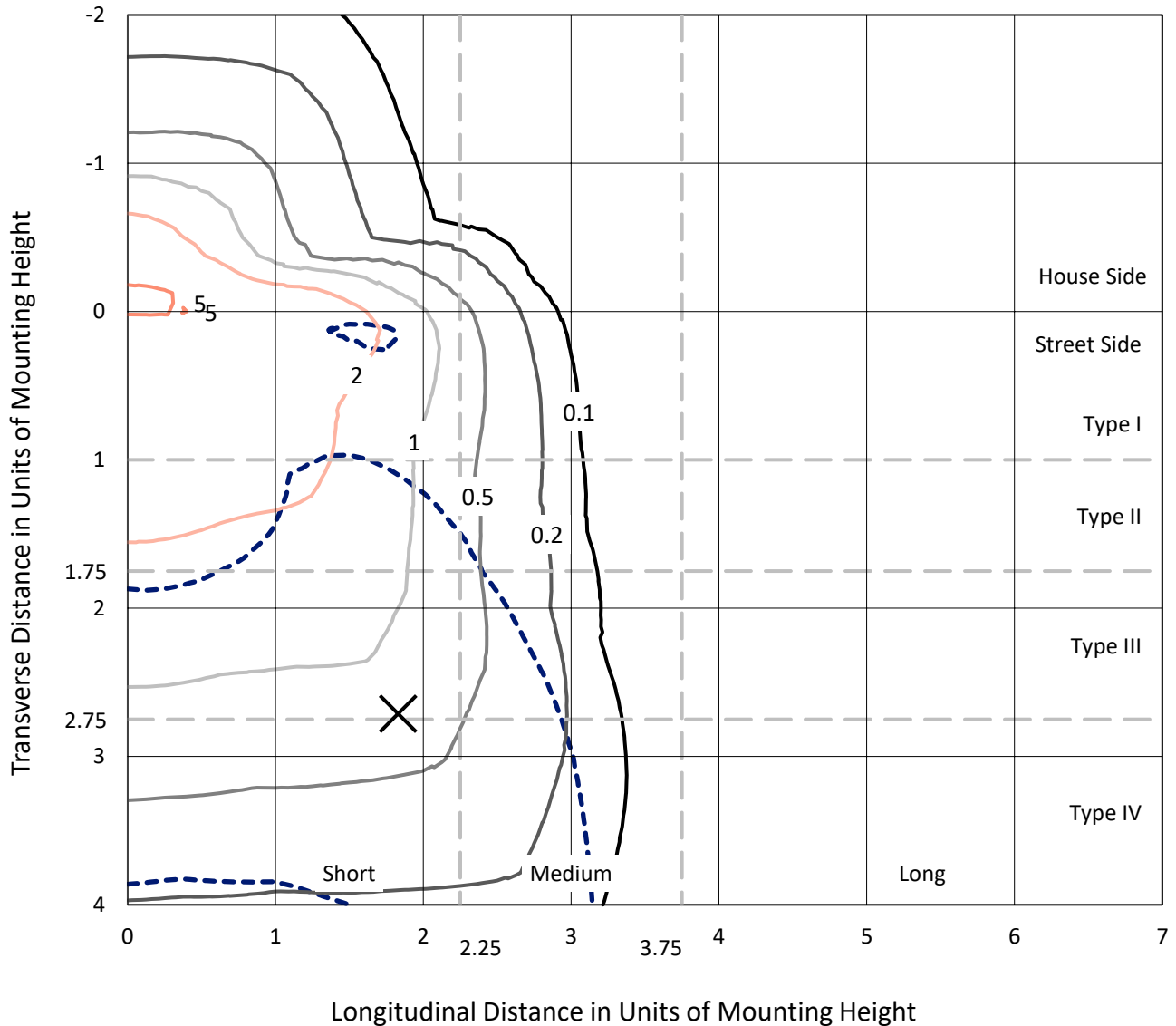
Lumens per Lamp: N/A  
Luminaire Lumens: 32784.1 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

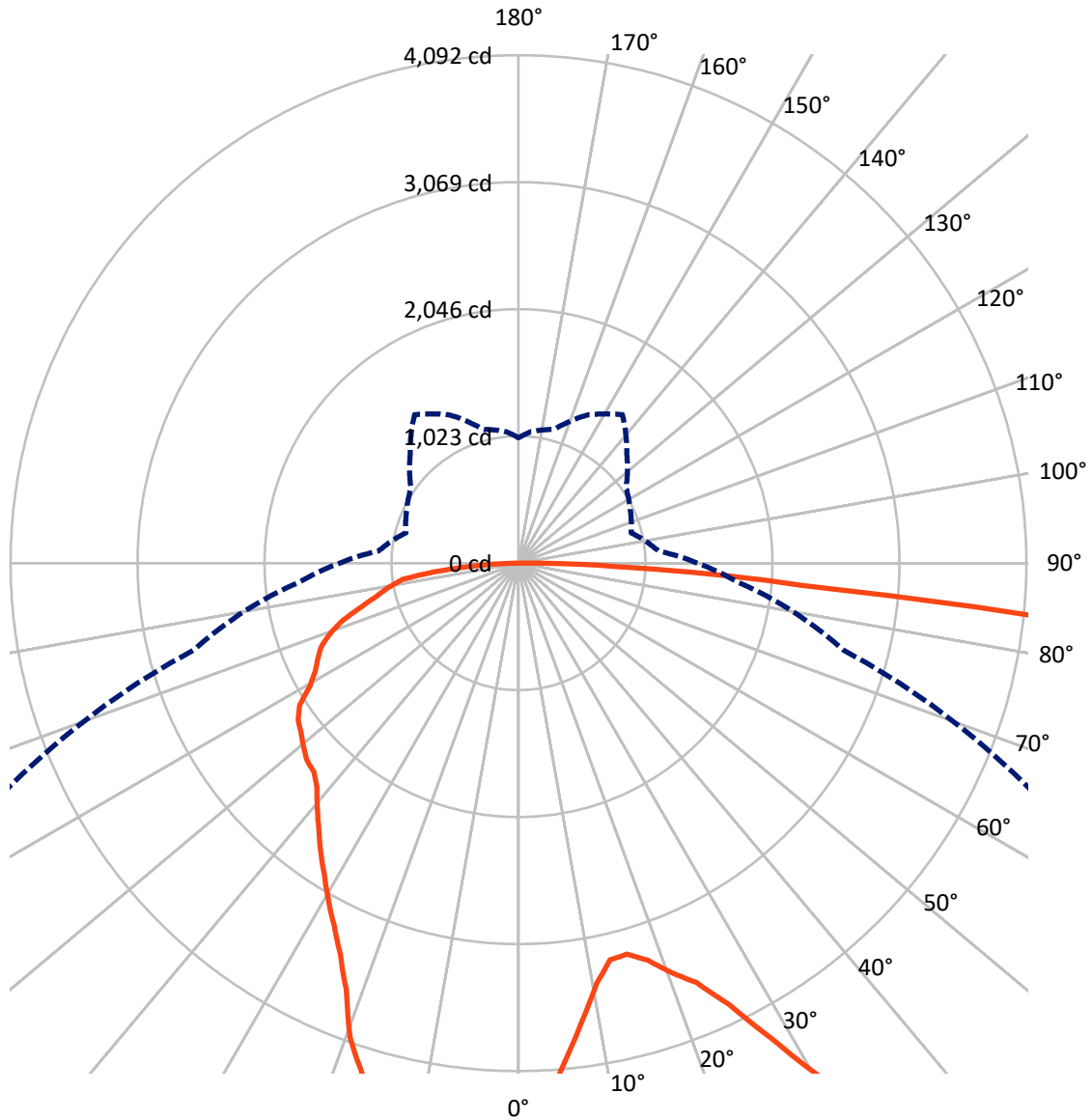
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	7081.8	0.0	7081.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	25702.3	0.0	25702.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	32784.1	0.0	32784.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.8	1.3
10°-20°	1214.0	3.7
20°-30°	1998.1	6.1
30°-40°	2988.1	9.1
40°-50°	4429.8	13.5
50°-60°	6383.8	19.5
60°-70°	8146.6	24.8
70°-80°	6339.4	19.3
80°-90°	850.5	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°	32784.1	100.0
0°-180°	32784.1	100.0

**Coefficient of Utilization**



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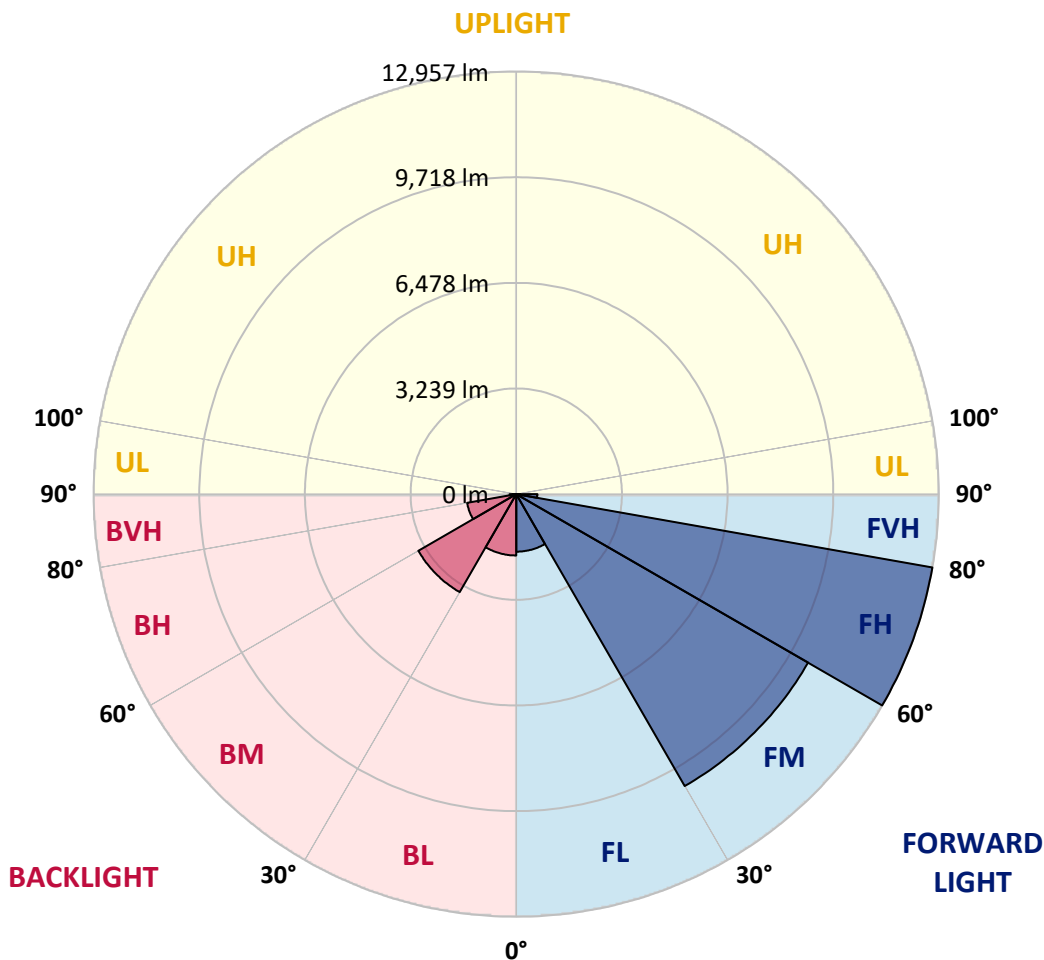
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.3	5.4			
FM (30°-60°)	10333.7	31.5			
FH (60°-80°)	12956.9	39.5			G5
FVH (80°-90°)	647.4	2.0			G4/750
BL (0°-30°)	1881.6	5.7	B3/2500		
BM (30°-60°)	3468.0	10.6	B3/5000		
BH (60°-80°)	1529.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	203.1	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1
2.5°	4211.4	4225.2	4270.3	4280.7	4329.2	4301.5	4360.4	4464.4	4523.3	4610.0	4714.0
5°	3878.6	3819.7	3847.4	3954.9	4010.3	4024.2	4086.6	4263.4	4374.3	4502.5	4696.6
7.5°	3487.0	3476.6	3532.0	3601.3	3712.3	3722.7	3861.3	4017.3	4246.0	4530.3	4759.0
10°	3220.1	3265.1	3296.3	3369.1	3445.4	3445.4	3622.1	3892.5	4152.5	4426.3	4772.9
12.5°	3206.2	3178.5	3185.4	3223.5	3279.0	3348.3	3514.7	3757.3	4086.6	4405.5	4831.8
15°	3251.3	3261.7	3199.3	3247.8	3268.6	3292.9	3476.6	3750.4	4045.0	4478.3	4932.3
17.5°	3490.4	3431.5	3334.4	3289.4	3362.2	3362.2	3487.0	3701.9	4051.9	4516.4	5077.9
20°	3677.6	3677.6	3518.2	3469.6	3521.6	3511.2	3597.9	3757.3	4086.6	4592.7	5240.8
22.5°	3993.0	4038.1	3774.6	3674.1	3670.7	3698.4	3774.6	3909.8	4183.7	4700.1	5396.8
25°	4447.1	4457.5	4152.5	4048.5	3937.6	3982.6	3996.5	4131.7	4270.3	4824.9	5573.6
27.5°	4953.1	4946.2	4665.4	4405.5	4332.7	4343.1	4266.8	4357.0	4398.6	4863.0	5826.6
30°	5514.7	5452.3	5240.8	4873.4	4814.5	4748.6	4582.3	4578.8	4665.4	5077.9	6176.7
32.5°	5882.1	5802.3	5656.8	5393.3	5230.4	5237.4	4973.9	4970.5	4894.2	5313.6	6481.7
35°	6242.6	6121.2	6083.1	5812.7	5649.8	5667.2	5455.7	5428.0	5289.4	5670.6	6984.3
37.5°	6675.8	6568.4	6627.3	6422.8	6221.8	6138.6	6041.5	6006.9	5826.6	6173.2	7670.6
40°	7154.2	7119.5	7081.4	6980.8	6859.5	6866.5	6762.5	6727.8	6460.9	6779.8	8329.2
42.5°	7798.9	7667.1	7469.6	7535.4	7597.8	7663.7	7629.0	7538.9	7261.6	7396.8	9064.0
45°	8398.5	8225.2	7861.2	7882.0	8138.5	8190.5	8609.9	8599.5	8041.5	8180.1	9899.3
47.5°	8804.0	8724.3	8506.0	8481.7	8849.1	8845.6	9601.3	9601.3	8863.0	8960.0	10797.1
50°	9407.2	9199.2	9105.6	9226.9	9414.1	9542.3	10613.4	10679.2	9670.6	9774.6	11972.1
52.5°	10114.2	9854.3	9618.6	9930.5	10263.3	10346.5	11615.1	11587.4	10291.0	10720.8	13348.2
55°	10700.0	10568.3	10405.4	10585.6	11129.8	11233.8	12620.3	12363.8	10911.5	11504.2	14010.2
57.5°	11382.9	11462.6	11497.2	11452.2	12100.4	12263.3	13767.6	13032.8	11445.3	12031.0	14398.4
60°	12412.3	12460.8	12505.9	12613.3	13299.6	13528.4	14675.7	13871.6	11781.5	12336.1	14429.6
62.5°	13979.0	13791.8	13892.4	14263.2	14814.4	15074.3	16013.6	14460.8	12038.0	12519.8	13410.6
65°	15771.0	15518.0	15414.0	15892.3	17320.4	17112.4	17684.3	14901.0	11667.1	11833.5	11372.5
67.5°	17587.3	17615.0	17348.1	18308.2	20058.7	20058.7	19237.2	15112.4	10661.9	9590.9	7975.6
70°	19029.2	19115.9	19261.4	21122.8	23895.7	24315.1	21160.9	14245.9	8613.4	6384.7	4360.4
72.5°	19008.4	18748.4	19493.7	22921.7	27382.6	27032.6	21563.0	11265.0	5376.0	3126.5	2000.0
73°	18582.1	18363.7	19178.3	22904.4	27524.8	27195.5	21268.3	10384.6	4741.7	2710.5	1778.1
75°	15174.8	14779.7	16166.2	20745.0	25465.9	25718.9	18069.1	6772.9	2599.6	1670.7	1251.3
77.5°	6918.5	7091.8	8897.6	13916.6	19625.4	19923.5	11878.5	2928.9	1424.6	1171.6	922.0
80°	2221.8	2332.7	3462.7	6918.5	12301.4	12838.6	5490.4	1331.0	1015.6	897.7	689.8
82.5°	849.2	845.7	1452.3	2876.9	5830.1	6173.2	2006.9	811.1	755.6	662.0	488.7
85°	298.1	312.0	547.7	1136.9	2294.6	2402.0	696.7	450.6	523.4	443.7	280.8
87.5°	104.0	107.5	194.1	412.5	790.3	835.3	194.1	180.2	260.0	256.5	142.1
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°	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1	4700.1
2.5°	4748.6	4779.8	4790.2	4915.0	4915.0	4915.0	4963.5	4963.5	4949.7	4915.0	4998.2
5°	4769.4	4824.9	4932.3	5039.8	5067.5	5091.8	5157.6	5102.2	5123.0	5088.3	5119.5
7.5°	4828.4	4904.6	5105.7	5171.5	5126.4	5178.4	5109.1	5071.0	5032.9	5046.7	4998.2
10°	4928.9	5025.9	5119.5	5240.8	5154.2	5102.2	4960.1	4925.4	4804.1	4762.5	4800.6
12.5°	5053.7	5171.5	5331.0	5285.9	5119.5	4970.5	4818.0	4672.4	4599.6	4495.6	4523.3
15°	5178.4	5313.6	5337.9	5261.6	5053.7	4866.5	4589.2	4384.7	4311.9	4218.3	4266.8
17.5°	5313.6	5441.9	5400.3	5202.7	4921.9	4637.7	4322.3	4121.3	3968.8	3909.8	3909.8
20°	5514.7	5577.0	5511.2	5105.7	4762.5	4388.2	4083.1	3854.4	3701.9	3677.6	3639.5
22.5°	5670.6	5771.2	5476.5	4963.5	4530.3	4062.3	3712.3	3625.6	3580.5	3542.4	3493.9
25°	5871.7	5868.2	5414.1	4831.8	4131.7	3674.1	3462.7	3455.8	3435.0	3421.1	3487.0
27.5°	6062.3	5982.6	5341.3	4506.0	3719.2	3379.5	3265.1	3341.4	3372.6	3351.8	3379.5
30°	6363.9	6232.2	5237.4	4159.4	3355.2	3081.4	3102.2	3206.2	3258.2	3289.4	3247.8
32.5°	6682.8	6481.7	5022.5	3798.9	3032.9	2894.2	2942.8	3050.2	3112.6	3147.3	3185.4
35°	7143.8	6675.8	4804.1	3327.5	2800.7	2779.9	2807.6	2866.5	2956.6	2980.9	2991.3
37.5°	7712.2	6970.4	4509.5	2949.7	2620.4	2644.7	2672.4	2693.2	2696.7	2741.7	2724.4
40°	8280.7	7220.0	4079.7	2589.2	2433.2	2565.0	2551.1	2513.0	2481.8	2440.2	2429.8
42.5°	8779.8	7438.4	3601.3	2284.2	2266.9	2481.8	2436.7	2339.7	2266.9	2235.7	2183.7
45°	9341.3	7746.9	3119.5	2093.6	2138.6	2381.3	2367.4	2218.3	2124.8	2013.8	2000.0
47.5°	10069.2	8069.2	2658.5	1896.0	2017.3	2343.1	2350.1	2159.4	2024.2	1875.2	1854.4
50°	11001.6	8533.7	2308.5	1812.8	1944.5	2287.7	2298.1	2079.7	1902.9	1750.4	1736.5
52.5°	11895.9	9008.5	2017.3	1684.6	1896.0	2221.8	2246.1	2006.9	1802.4	1611.8	1622.2
55°	12346.5	8835.2	1767.7	1591.0	1785.1	2114.4	2204.5	1954.9	1649.9	1518.2	1514.7
57.5°	12447.0	8408.9	1570.2	1493.9	1691.5	2000.0	2135.2	1798.9	1580.6	1469.7	1455.8
60°	12117.7	7663.7	1414.2	1389.9	1573.6	1882.1	1975.7	1715.7	1511.2	1421.1	1400.3
62.5°	11306.6	6890.7	1306.7	1341.4	1473.1	1753.9	1875.2	1656.8	1445.4	1383.0	1337.9
65°	9272.0	5667.2	1220.1	1247.8	1369.1	1629.1	1812.8	1591.0	1386.5	1327.5	1324.1
67.5°	6422.8	3906.4	1150.8	1202.8	1285.9	1539.0	1750.4	1518.2	1310.2	1289.4	1261.7
70°	3289.4	2083.2	1060.6	1102.2	1195.8	1424.6	1639.5	1441.9	1230.5	1227.0	1192.4
72.5°	1667.2	1220.1	956.7	1019.1	1084.9	1275.5	1500.8	1341.4	1130.0	1091.8	1036.4
73°	1441.9	1130.0	939.3	994.8	1057.2	1234.0	1459.3	1317.1	1116.1	1060.6	1008.7
75°	1050.2	890.8	842.3	897.7	946.3	1112.6	1320.6	1206.2	1026.0	967.1	918.5
77.5°	786.8	686.3	700.2	762.6	804.1	960.1	1175.0	1091.8	928.9	849.2	828.4
80°	578.8	523.4	578.8	637.8	669.0	845.7	1071.0	946.3	783.4	693.2	675.9
82.5°	412.5	381.3	447.1	485.3	499.1	700.2	963.6	755.6	592.7	474.9	436.7
85°	235.7	232.2	301.6	298.1	308.5	409.0	634.3	502.6	381.3	291.2	284.2
87.5°	104.0	114.4	152.5	121.3	128.2	194.1	270.4	187.2	156.0	86.7	65.9
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)