

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: P478102

Luminaire Tested: **IFLD-M-SA4E-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-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

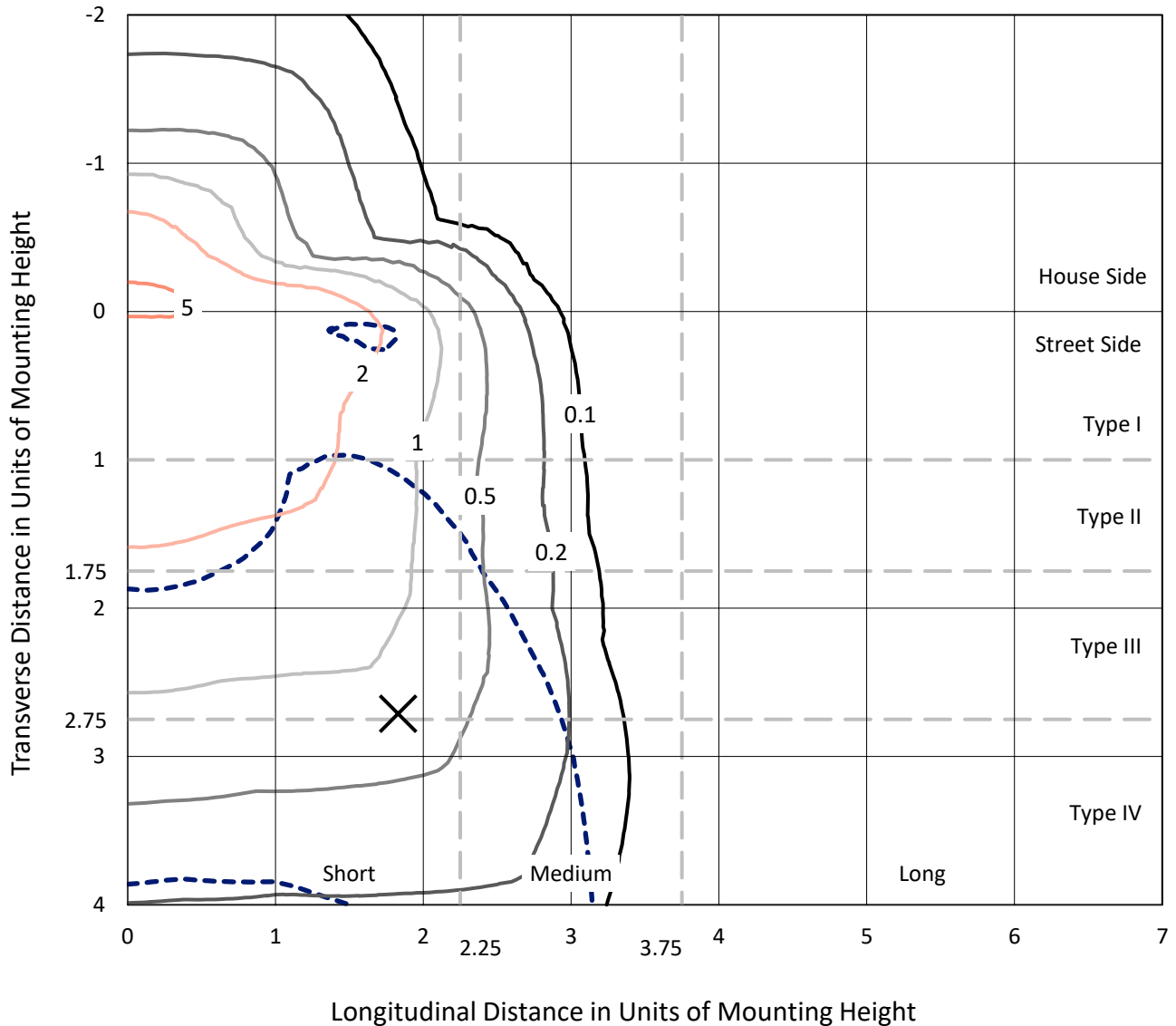
Lumens per Lamp: N/A
Luminaire Lumens: 33775.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

REPORT NUMBER: P478102
 CATALOG NUMBER: IFLD-M-SA4E-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

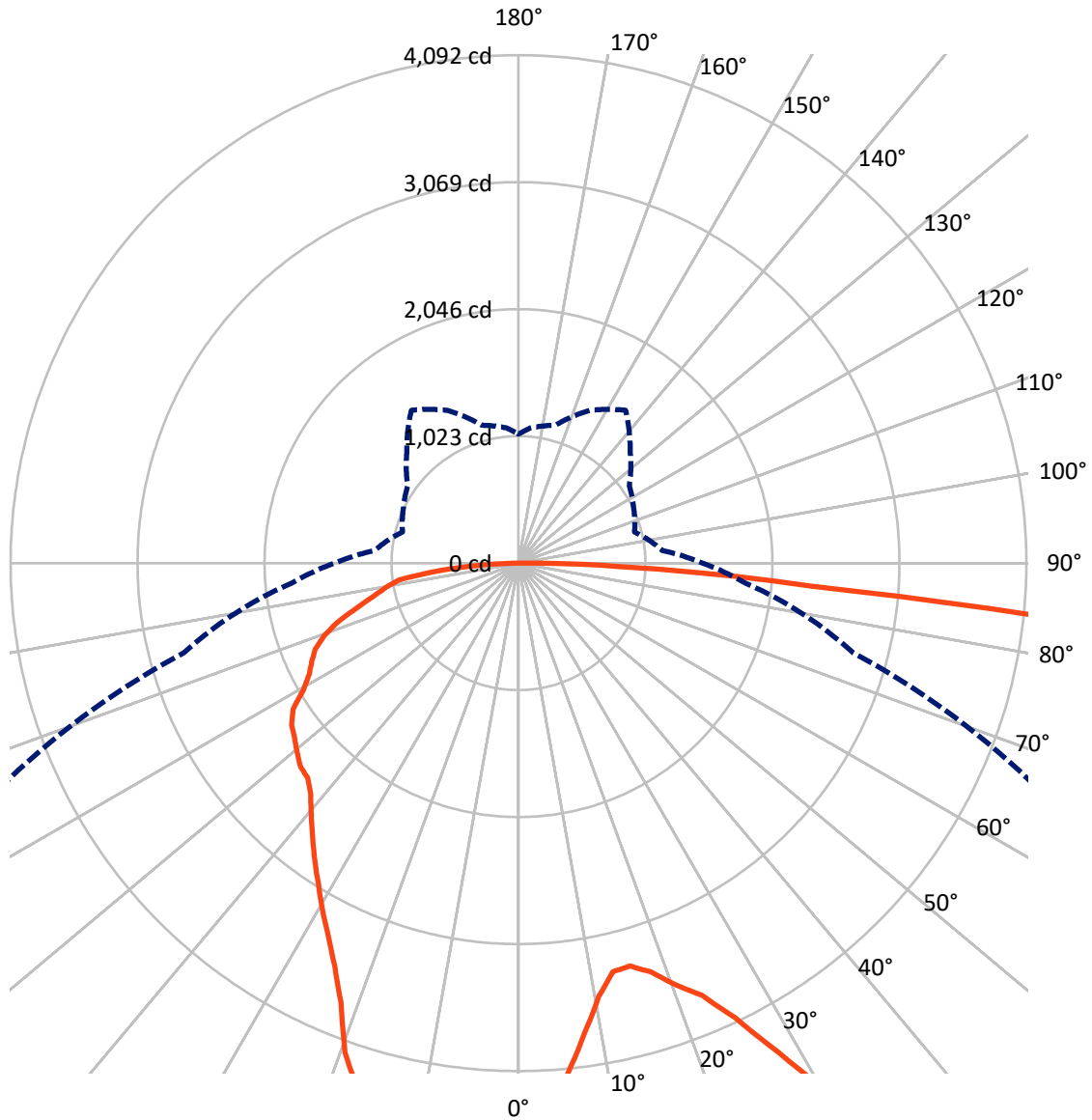
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P478102
CATALOG NUMBER: IFLD-M-SA4E-730-U-T4FT

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
House Side	Lumens	7295.9	0.0	7295.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26479.4	0.0	26479.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	33775.3	0.0	33775.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.9	1.3
10°-20°	1250.7	3.7
20°-30°	2058.5	6.1
30°-40°	3078.5	9.1
40°-50°	4563.7	13.5
50°-60°	6576.8	19.5
60°-70°	8392.9	24.8
70°-80°	6531.1	19.3
80°-90°	876.2	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°	33775.3	100.0
0°-180°	33775.3	100.0

Coefficient of Utilization



REPORT NUMBER: P478102

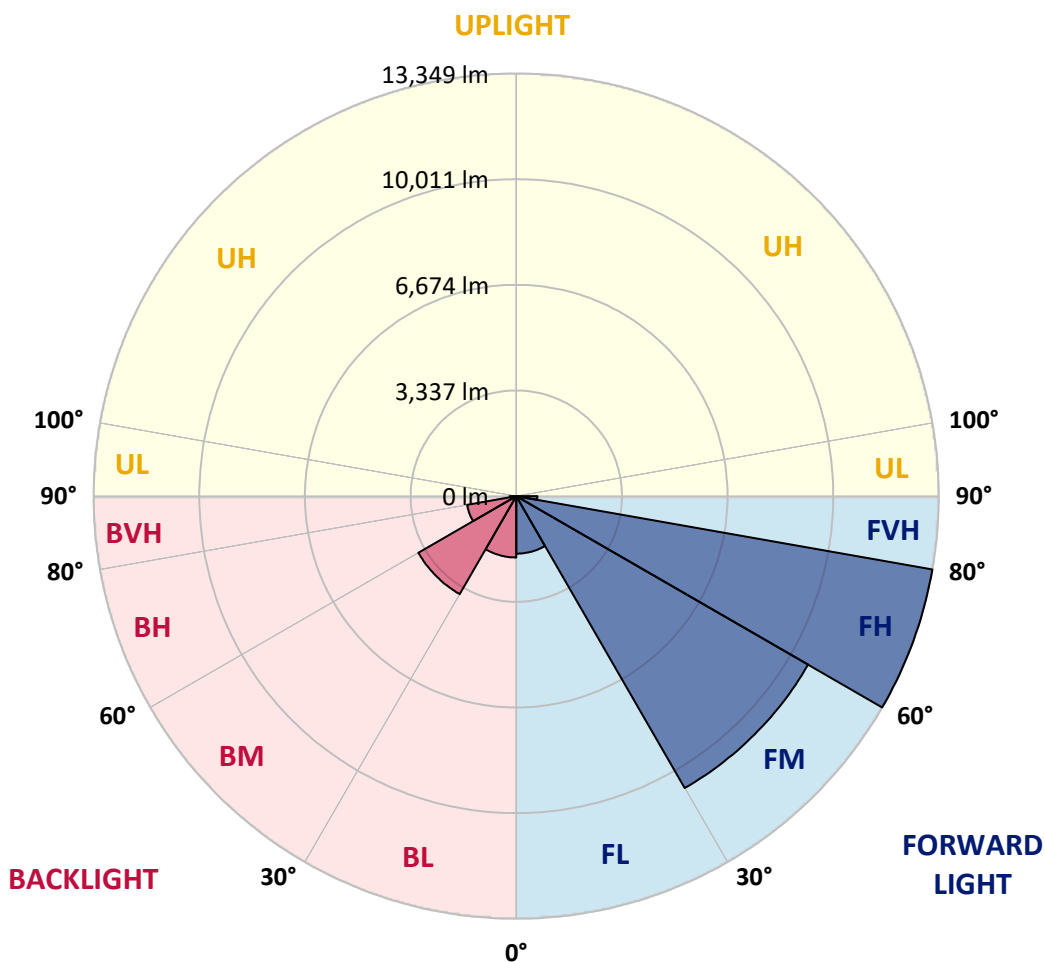
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.7	5.4			
FM (30°-60°)	10646.2	31.5			
FH (60°-80°)	13348.6	39.5			G5
FVH (80°-90°)	666.9	2.0			G4/750
BL (0°-30°)	1938.5	5.7	B3/2500		
BM (30°-60°)	3572.8	10.6	B3/5000		
BH (60°-80°)	1575.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	209.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2
2.5°	4338.7	4353.0	4399.4	4410.1	4460.1	4431.6	4492.3	4599.4	4660.1	4749.4	4856.5
5°	3995.9	3935.2	3963.8	4074.5	4131.6	4145.9	4210.2	4392.3	4506.6	4638.7	4838.7
7.5°	3592.4	3581.7	3638.8	3710.2	3824.5	3835.2	3978.1	4138.7	4374.4	4667.2	4902.9
10°	3317.4	3363.8	3396.0	3471.0	3549.5	3549.5	3731.7	4010.2	4278.0	4560.1	4917.2
12.5°	3303.1	3274.6	3281.7	3321.0	3378.1	3449.5	3621.0	3870.9	4210.2	4538.7	4977.9
15°	3349.6	3360.3	3296.0	3346.0	3367.4	3392.4	3581.7	3863.8	4167.3	4613.7	5081.5
17.5°	3596.0	3535.3	3435.3	3388.8	3463.8	3463.8	3592.4	3813.8	4174.5	4653.0	5231.5
20°	3788.8	3788.8	3624.5	3574.5	3628.1	3617.4	3706.7	3870.9	4210.2	4731.5	5399.3
22.5°	4113.7	4160.2	3888.8	3785.2	3781.6	3810.2	3888.8	4028.0	4310.2	4842.2	5560.0
25°	4581.5	4592.3	4278.0	4170.9	4056.6	4103.0	4117.3	4256.6	4399.4	4970.8	5742.1
27.5°	5102.9	5095.8	4806.5	4538.7	4463.7	4474.4	4395.9	4488.7	4531.6	5010.1	6002.8
30°	5681.4	5617.1	5399.3	5020.8	4960.1	4892.2	4720.8	4717.2	4806.5	5231.5	6363.5
32.5°	6059.9	5977.8	5827.8	5556.4	5388.6	5395.7	5124.3	5120.8	5042.2	5474.3	6677.7
35°	6431.3	6306.3	6267.0	5988.5	5820.7	5838.5	5620.7	5592.1	5449.3	5842.1	7195.5
37.5°	6877.7	6767.0	6827.7	6617.0	6409.9	6324.2	6224.2	6188.5	6002.8	6359.9	7902.5
40°	7370.5	7334.8	7295.5	7191.9	7066.9	7074.1	6966.9	6931.2	6656.3	6984.8	8581.0
42.5°	8034.7	7899.0	7695.4	7763.3	7827.5	7895.4	7859.7	7766.8	7481.2	7620.4	9338.1
45°	8652.4	8473.9	8098.9	8120.4	8384.6	8438.2	8870.3	8859.6	8284.6	8427.5	10198.7
47.5°	9070.2	8988.1	8763.1	8738.1	9116.7	9113.1	9891.6	9891.6	9130.9	9230.9	11123.5
50°	9691.6	9477.3	9380.9	9505.9	9698.7	9830.9	10934.3	11002.1	9963.0	10070.1	12334.1
52.5°	10420.1	10152.2	9909.4	10230.8	10573.6	10659.3	11966.3	11937.7	10602.2	11045.0	13751.8
55°	11023.6	10887.9	10720.0	10905.7	11466.4	11573.5	13001.9	12737.6	11241.4	11852.0	14433.8
57.5°	11727.0	11809.2	11844.9	11798.5	12466.2	12634.1	14183.9	13426.8	11791.3	12394.8	14833.8
60°	12787.6	12837.6	12884.0	12994.7	13701.8	13937.5	15119.5	14291.0	12137.7	12709.1	14865.9
62.5°	14401.7	14208.9	14312.4	14694.5	15262.3	15530.1	16497.8	14898.1	12401.9	12898.3	13816.1
65°	16247.9	15987.2	15880.1	16372.9	17844.1	17629.8	18219.0	15351.6	12019.9	12191.3	11716.3
67.5°	18119.1	18147.6	17872.7	18861.8	20665.2	20665.2	19818.8	15569.4	10984.3	9880.9	8216.8
70°	19604.6	19693.9	19843.8	21761.4	24618.2	25050.3	21800.7	14676.7	8873.8	6577.7	4492.3
72.5°	19583.2	19315.3	20083.1	23614.8	28210.6	27849.9	22215.0	11605.6	5538.6	3221.0	2060.4
73°	19143.9	18919.0	19758.1	23596.9	28357.0	28017.8	21911.4	10698.6	4885.1	2792.5	1831.9
75°	15633.7	15226.6	16655.0	21372.2	26235.9	26496.5	18615.4	6977.7	2678.2	1721.2	1289.1
77.5°	7127.6	7306.2	9166.7	14337.4	20218.8	20525.9	12237.7	3017.5	1467.7	1207.0	949.9
80°	2289.0	2403.3	3567.4	7127.6	12673.3	13226.8	5656.4	1371.2	1046.3	924.9	710.6
82.5°	874.9	871.3	1496.2	2963.9	6006.4	6359.9	2067.6	835.6	778.5	682.1	503.5
85°	307.1	321.4	564.2	1171.3	2364.0	2474.7	717.8	464.2	539.2	457.1	289.2
87.5°	107.1	110.7	200.0	424.9	814.2	860.6	200.0	185.7	267.8	264.3	146.4
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°	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2	4842.2
2.5°	4892.2	4924.4	4935.1	5063.6	5063.6	5063.6	5113.6	5113.6	5099.3	5063.6	5149.3
5°	4913.6	4970.8	5081.5	5192.2	5220.7	5245.7	5313.6	5256.5	5277.9	5242.2	5274.3
7.5°	4974.3	5052.9	5260.0	5327.9	5281.5	5335.0	5263.6	5224.3	5185.0	5199.3	5149.3
10°	5077.9	5177.9	5274.3	5399.3	5310.0	5256.5	5110.0	5074.3	4949.4	4906.5	4945.8
12.5°	5206.5	5327.9	5492.1	5445.7	5274.3	5120.8	4963.6	4813.7	4738.7	4631.5	4660.1
15°	5335.0	5474.3	5499.3	5420.7	5206.5	5013.6	4728.0	4517.3	4442.3	4345.9	4395.9
17.5°	5474.3	5606.4	5563.6	5360.0	5070.8	4777.9	4453.0	4245.9	4088.8	4028.0	4028.0
20°	5681.4	5745.7	5677.8	5260.0	4906.5	4520.8	4206.6	3970.9	3813.8	3788.8	3749.5
22.5°	5842.1	5945.7	5642.1	5113.6	4667.2	4185.2	3824.5	3735.2	3688.8	3649.5	3599.5
25°	6049.2	6045.6	5577.8	4977.9	4256.6	3785.2	3567.4	3560.2	3538.8	3524.5	3592.4
27.5°	6245.6	6163.5	5502.9	4642.2	3831.6	3481.7	3363.8	3442.4	3474.5	3453.1	3481.7
30°	6556.3	6420.6	5395.7	4285.2	3456.7	3174.6	3196.0	3303.1	3356.7	3388.8	3346.0
32.5°	6884.8	6677.7	5174.3	3913.8	3124.6	2981.8	3031.7	3142.4	3206.7	3242.4	3281.7
35°	7359.8	6877.7	4949.4	3428.1	2885.3	2863.9	2892.5	2953.2	3046.0	3071.0	3081.7
37.5°	7945.4	7181.2	4645.8	3038.9	2699.6	2724.6	2753.2	2774.6	2778.2	2824.6	2806.8
40°	8531.0	7438.3	4203.0	2667.5	2506.8	2642.5	2628.2	2588.9	2556.8	2514.0	2503.2
42.5°	9045.2	7663.3	3710.2	2353.3	2335.4	2556.8	2510.4	2410.4	2335.4	2303.3	2249.7
45°	9623.7	7981.1	3213.9	2156.9	2203.3	2453.3	2439.0	2285.4	2189.0	2074.7	2060.4
47.5°	10373.6	8313.2	2738.9	1953.3	2078.3	2414.0	2421.1	2224.7	2085.4	1931.9	1910.5
50°	11334.2	8791.7	2378.3	1867.6	2003.3	2356.8	2367.5	2142.6	1960.5	1803.3	1789.1
52.5°	12255.5	9280.9	2078.3	1735.5	1953.3	2289.0	2314.0	2067.6	1856.9	1660.5	1671.2
55°	12719.8	9102.4	1821.2	1639.1	1839.0	2178.3	2271.1	2014.0	1699.8	1564.1	1560.5
57.5°	12823.3	8663.2	1617.6	1539.1	1742.6	2060.4	2199.7	1853.3	1628.4	1514.1	1499.8
60°	12484.1	7895.4	1457.0	1432.0	1621.2	1939.0	2035.4	1767.6	1556.9	1464.1	1442.7
62.5°	11648.5	7099.1	1346.3	1382.0	1517.7	1806.9	1931.9	1706.9	1489.1	1424.8	1378.4
65°	9552.3	5838.5	1257.0	1285.5	1410.5	1678.4	1867.6	1639.1	1428.4	1367.7	1364.1
67.5°	6617.0	4024.5	1185.6	1239.1	1324.8	1585.5	1803.3	1564.1	1349.8	1328.4	1299.8
70°	3388.8	2146.1	1092.7	1135.6	1232.0	1467.7	1689.1	1485.5	1267.7	1264.1	1228.4
72.5°	1717.6	1257.0	985.6	1049.9	1117.7	1314.1	1546.2	1382.0	1164.1	1124.9	1067.7
73°	1485.5	1164.1	967.7	1024.9	1089.1	1271.3	1503.4	1357.0	1149.8	1092.7	1039.1
75°	1082.0	917.7	867.7	924.9	974.9	1146.3	1360.5	1242.7	1057.0	996.3	946.3
77.5°	810.6	707.1	721.3	785.6	828.5	989.2	1210.6	1124.9	957.0	874.9	853.5
80°	596.4	539.2	596.4	657.1	689.2	871.3	1103.4	974.9	807.0	714.2	696.3
82.5°	424.9	392.8	460.7	499.9	514.2	721.3	992.7	778.5	610.6	489.2	449.9
85°	242.8	239.3	310.7	307.1	317.8	421.4	653.5	517.8	392.8	300.0	292.8
87.5°	107.1	117.8	157.1	125.0	132.1	200.0	278.5	192.8	160.7	89.3	67.8
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)