

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: P478537

Luminaire Tested: **IFLD-L-SA8A-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478537
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

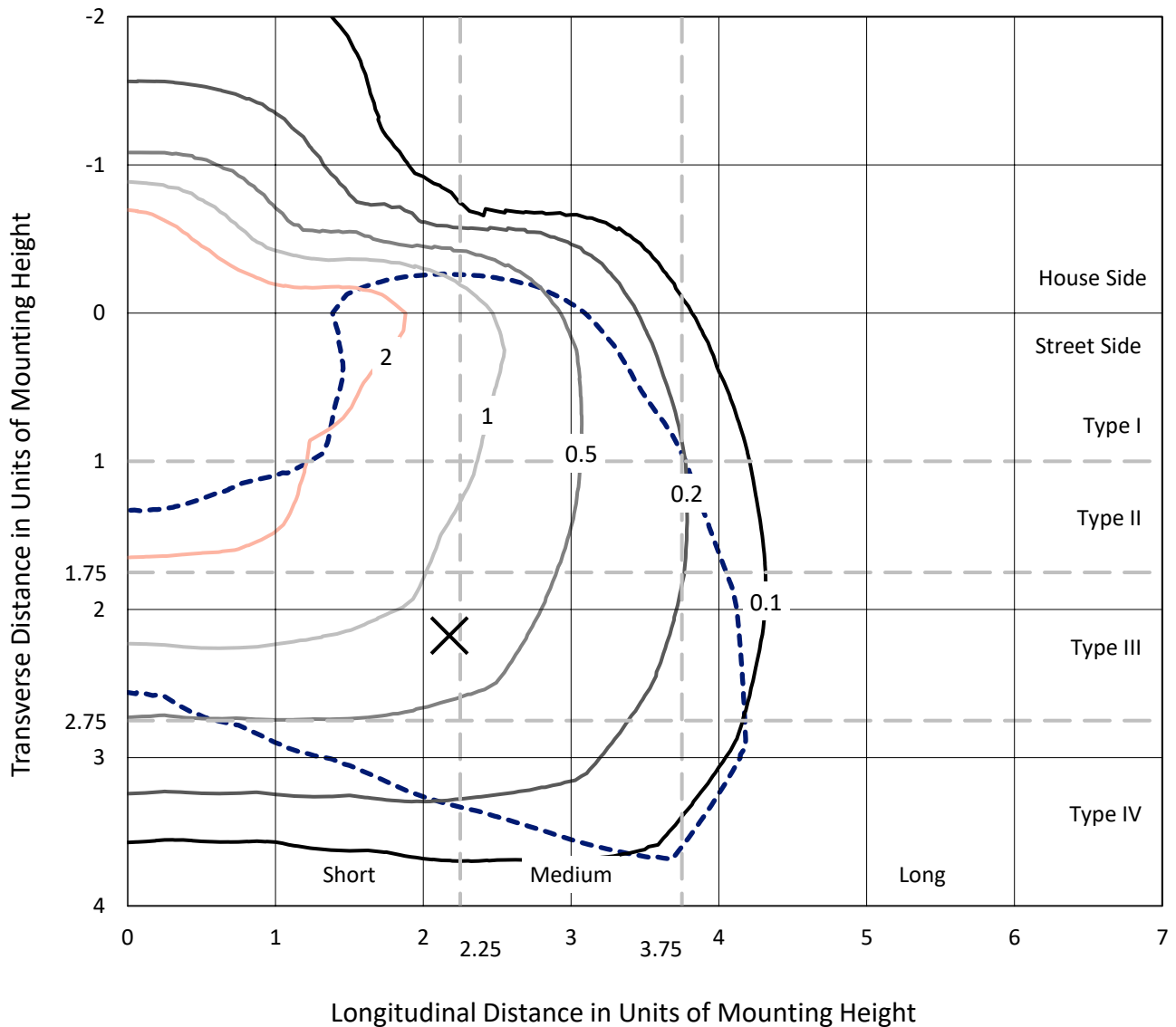
Lumens per Lamp: N/A
Luminaire Lumens: 34151.1 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

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Iso-Footcandle Lines of Horizontal Illumination

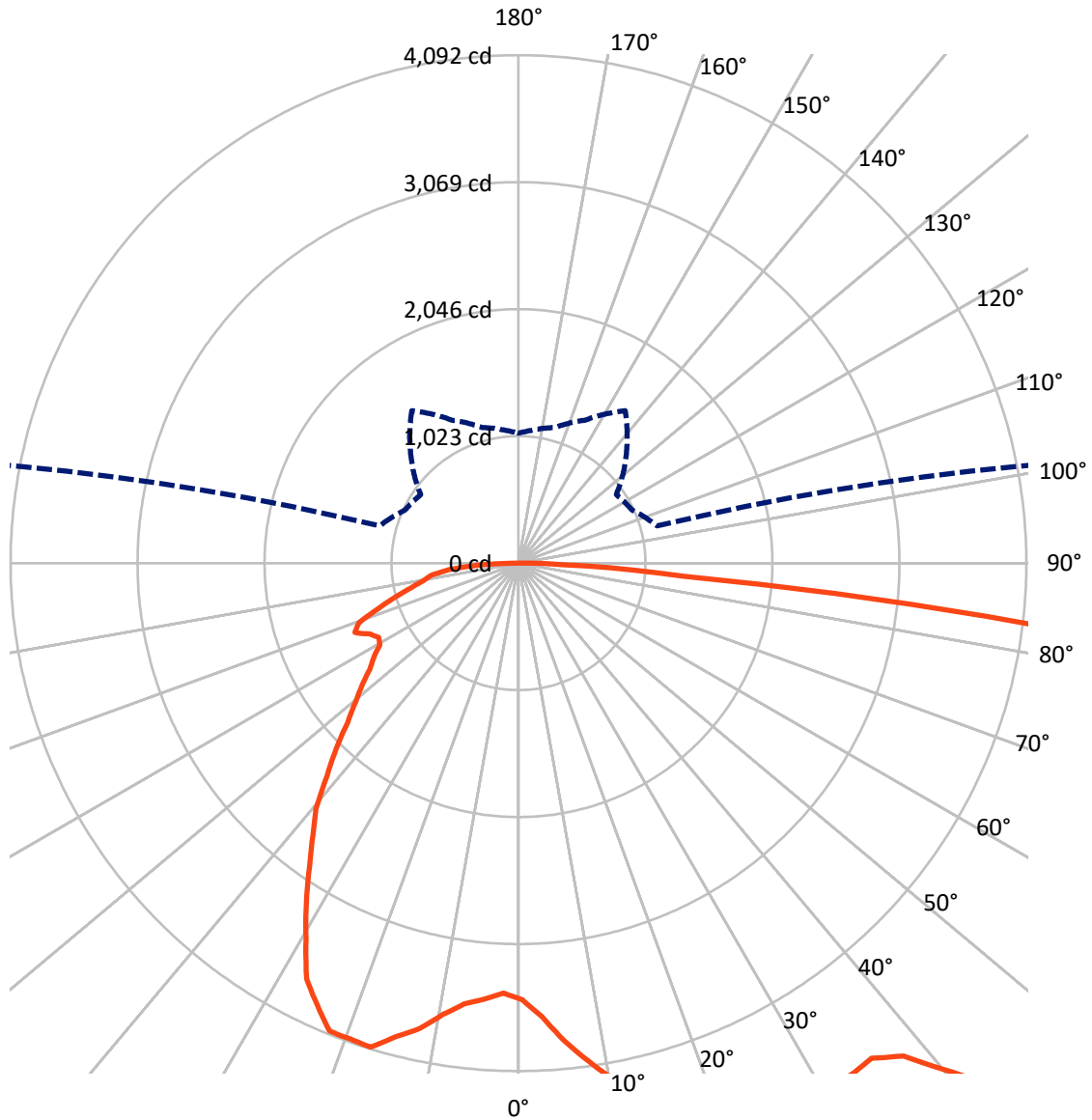
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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
House Side	Lumens	7602.2	0.0	7602.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	26548.9	0.0	26548.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	34151.1	0.0	34151.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	1.1
10°-20°	1197.4	3.5
20°-30°	2022.0	5.9
30°-40°	2798.1	8.2
40°-50°	4002.4	11.7
50°-60°	6455.5	18.9
60°-70°	9520.9	27.9
70°-80°	6913.8	20.2
80°-90°	881.3	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°	34151.1	100.0
0°-180°	34151.1	100.0

Coefficient of Utilization



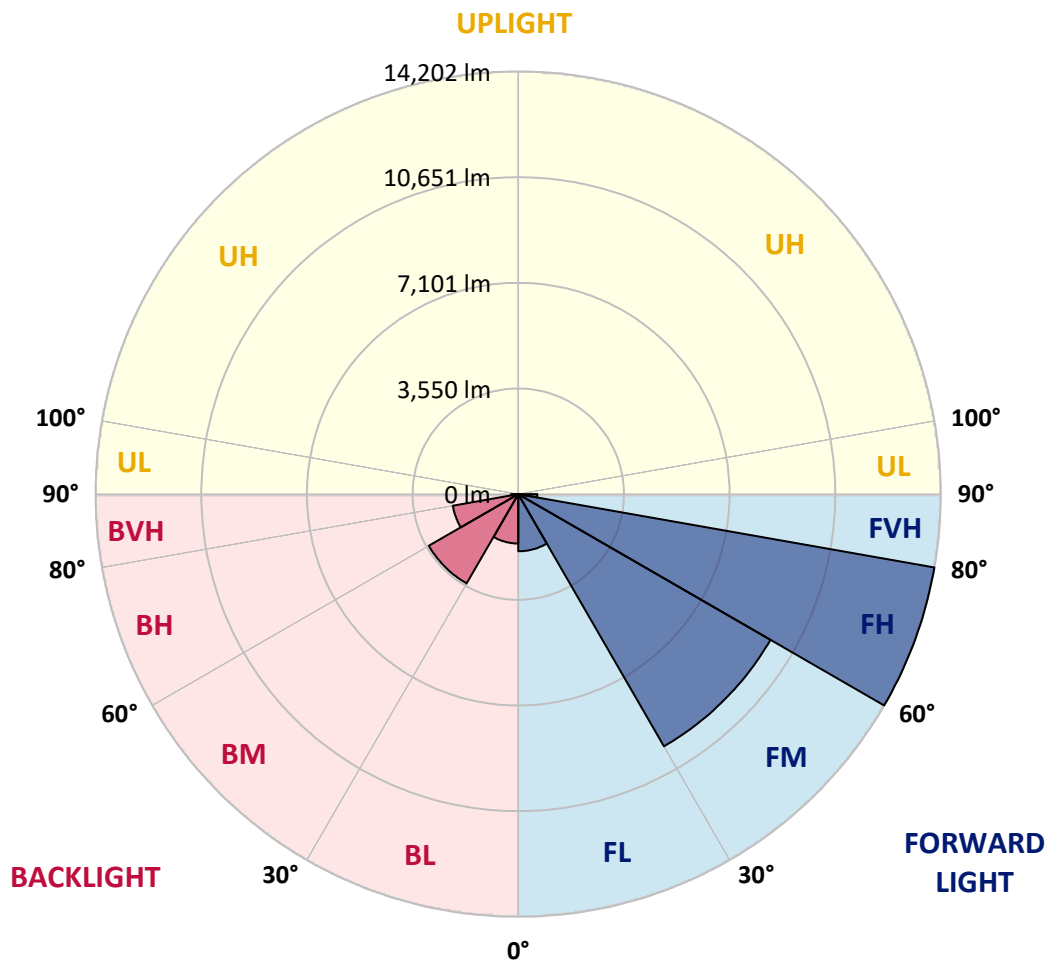
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.3	5.6			
FM (30°-60°)	9786.5	28.7			
FH (60°-80°)	14201.6	41.6			G5
FVH (80°-90°)	641.5	1.9			G4/750
BL (0°-30°)	1659.9	4.9	B3/2500		
BM (30°-60°)	3469.4	10.2	B3/5000		
BH (60°-80°)	2233.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	239.8	0.7			G3/500
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°	35°	44°	45°	55°	65°	75°	85°
0°	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9
2.5°	3704.8	3726.9	3704.8	3701.1	3664.3	3638.5	3660.6	3627.4	3590.6	3575.9	3542.7
5°	4043.6	4047.3	4006.7	4010.4	3933.1	3852.1	3866.8	3767.4	3660.6	3620.1	3553.8
7.5°	4389.7	4349.2	4290.3	4271.9	4150.4	4062.0	4050.9	3962.6	3796.8	3704.8	3612.7
10°	4614.4	4629.1	4533.4	4452.3	4349.2	4242.4	4238.8	4073.0	3977.3	3841.0	3723.2
12.5°	4813.2	4816.9	4735.9	4607.0	4478.1	4345.6	4364.0	4290.3	4128.3	3999.4	3881.5
15°	4967.9	4945.8	4857.4	4739.6	4603.3	4500.2	4489.2	4426.6	4290.3	4183.5	3988.3
17.5°	5012.1	5001.1	4912.7	4787.5	4654.9	4577.6	4607.0	4503.9	4448.7	4352.9	4165.1
20°	4927.4	4901.6	4886.9	4747.0	4651.2	4643.8	4618.1	4640.2	4548.1	4459.7	4323.5
22.5°	4772.7	4761.7	4754.3	4643.8	4599.7	4632.8	4677.0	4710.1	4695.4	4610.7	4456.0
25°	4614.4	4665.9	4618.1	4566.5	4629.1	4713.8	4702.8	4809.6	4809.6	4783.8	4654.9
27.5°	4724.9	4691.7	4654.9	4629.1	4651.2	4783.8	4776.4	4905.3	4953.2	4905.3	4758.0
30°	5001.1	4967.9	4861.1	4747.0	4717.5	4861.1	4898.0	5012.1	5034.2	4916.4	4791.2
32.5°	5520.3	5501.9	5332.5	4997.4	4816.9	4898.0	4916.4	5045.3	5026.8	4953.2	4901.6
35°	6290.0	6227.4	5991.7	5424.6	5026.8	4945.8	4898.0	5001.1	5071.0	5034.2	4986.3
37.5°	7133.3	7063.4	6772.4	6054.3	5406.2	5074.7	5037.9	5122.6	5203.6	5185.2	5085.8
40°	7939.8	7939.8	7678.4	6842.4	5969.6	5387.7	5395.1	5299.4	5373.0	5339.9	5358.3
42.5°	8735.3	8705.8	8599.0	7766.8	6573.6	5910.7	5792.8	5553.5	5686.0	5675.0	5700.8
45°	9541.8	9519.7	9490.2	8628.5	7439.0	6617.8	6555.2	6124.3	6245.8	6194.3	6304.7
47.5°	10186.3	10212.0	10212.0	9589.7	8363.3	7560.5	7468.5	6787.2	7019.2	7044.9	7070.7
50°	10735.0	10746.0	10735.0	10506.7	9394.5	8639.5	8451.7	7759.4	7991.4	8193.9	8429.6
52.5°	11493.6	11508.3	11456.8	11368.4	10793.9	9773.8	9563.9	8794.2	9269.3	9482.9	9906.4
55°	12429.0	12318.5	12222.8	12289.1	12138.1	11022.2	10805.0	9862.2	10576.6	10860.2	11707.2
57.5°	12602.1	12697.8	12940.9	13467.5	13684.8	12237.5	12112.3	11173.2	12053.4	12300.1	13714.3
60°	13213.4	13055.1	13651.7	14793.3	15036.3	13821.1	13692.2	12609.5	13522.8	13780.5	15566.6
62.5°	13614.8	13607.5	14491.3	15846.5	16398.9	15463.5	15202.1	14476.6	15110.0	15360.4	17584.7
65°	13497.0	13603.8	15172.6	16465.2	17536.9	17330.6	17179.7	16082.2	16918.2	16896.1	18899.5
67.5°	12421.6	12723.6	14741.7	16910.8	19230.9	19606.5	19558.7	18339.7	18387.6	17919.9	19485.0
70°	10930.2	10827.0	12918.8	16446.8	20077.9	22305.9	22294.9	20019.0	19709.6	18144.5	17805.7
72°	8396.5	8282.3	10002.1	14123.0	19632.3	23385.0	23716.4	21182.7	19694.9	17212.8	14708.6
72.5°	7623.1	7523.7	9236.1	13294.4	19138.8	23664.8	23510.2	21226.9	19540.2	16774.6	13740.0
75°	3509.6	3395.4	4614.4	8138.7	14929.5	20969.1	21495.7	19864.3	17065.5	13353.4	8230.8
77.5°	1045.9	1012.7	1484.1	3284.9	8676.4	15448.8	15651.3	14988.5	11913.4	7313.8	3052.9
80°	581.9	585.5	766.0	1230.0	3815.2	8930.5	9659.6	9258.2	5844.4	2415.8	1016.4
82.5°	324.1	342.5	478.7	729.2	1753.0	4098.8	4411.8	4253.5	2113.9	1134.3	556.1
85°	169.4	176.8	250.4	390.4	994.3	1296.3	1333.1	1428.9	1097.4	773.4	298.3
87.5°	66.3	66.3	92.1	162.0	368.3	401.4	360.9	438.2	629.7	500.8	147.3
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°	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9
2.5°	3572.2	3542.7	3539.0	3491.2	3505.9	3465.4	3469.1	3461.7	3465.4	3458.0	3439.6
5°	3553.8	3531.7	3469.1	3509.6	3472.8	3524.3	3564.8	3550.1	3561.1	3557.5	3561.1
7.5°	3579.6	3550.1	3542.7	3520.6	3553.8	3575.9	3609.0	3701.1	3693.7	3704.8	3726.9
10°	3656.9	3623.7	3601.7	3634.8	3616.4	3686.4	3723.2	3771.1	3855.8	3859.4	3815.2
12.5°	3807.9	3785.8	3741.6	3749.0	3811.6	3833.7	3855.8	3885.2	3940.5	3929.4	3969.9
15°	3981.0	3933.1	3907.3	3899.9	3914.7	3940.5	3936.8	3966.2	3995.7	4021.5	4010.4
17.5°	4106.2	4043.6	4050.9	4087.8	4084.1	4076.7	4028.8	4014.1	4028.8	4043.6	4036.2
20°	4235.1	4242.4	4187.2	4154.1	4139.3	4065.7	4028.8	3984.6	3940.5	3962.6	3995.7
22.5°	4397.1	4364.0	4282.9	4183.5	4109.9	4065.7	3951.5	3874.2	3874.2	3896.3	3885.2
25°	4581.2	4511.3	4371.3	4190.9	4098.8	3911.0	3830.0	3818.9	3789.5	3822.6	3837.3
27.5°	4724.9	4662.3	4470.8	4165.1	3911.0	3760.0	3712.1	3697.4	3745.3	3749.0	3807.9
30°	4783.8	4765.4	4485.5	4098.8	3719.5	3476.4	3447.0	3513.3	3564.8	3642.2	3645.8
32.5°	4861.1	4868.5	4507.6	3944.1	3469.1	3226.0	3181.8	3262.8	3410.2	3472.8	3520.6
35°	4990.0	5026.8	4489.2	3752.6	3203.9	2971.9	2964.5	2986.6	3130.3	3240.7	3303.4
37.5°	5214.7	5207.3	4485.5	3524.3	2994.0	2751.0	2692.0	2699.4	2795.1	2887.2	2876.2
40°	5516.6	5487.2	4474.4	3226.0	2721.5	2563.1	2463.7	2426.9	2419.5	2393.7	2401.1
42.5°	5929.1	5870.2	4470.8	2924.0	2474.8	2305.4	2235.4	2139.6	2069.7	1937.1	1944.4
45°	6503.6	6400.5	4375.0	2640.5	2231.7	2091.8	1985.0	1915.0	1764.0	1598.3	1598.3
47.5°	7391.1	7056.0	4378.7	2327.4	1996.0	1881.8	1808.2	1686.7	1524.6	1392.0	1377.3
50°	8698.5	7932.5	4253.5	2080.7	1804.5	1727.2	1649.8	1509.9	1355.2	1263.2	1274.2
52.5°	10385.1	9239.8	4249.8	1859.7	1653.5	1598.3	1513.6	1388.4	1274.2	1215.3	1193.2
55°	12395.9	10970.7	4382.4	1679.3	1498.8	1469.4	1432.6	1329.4	1219.0	1167.4	1163.7
57.5°	14454.5	12661.0	4596.0	1550.4	1366.3	1388.4	1362.6	1281.6	1193.2	1134.3	1126.9
60°	16284.8	14001.5	4165.1	1395.7	1248.4	1296.3	1333.1	1263.2	1215.3	1211.6	1185.8
62.5°	17665.8	14576.0	3167.1	1277.9	1185.8	1274.2	1373.6	1417.8	1395.7	1425.2	1428.9
65°	18170.3	14229.8	2180.1	1215.3	1137.9	1325.8	1546.7	1532.0	1403.1	1347.9	1377.3
67.5°	17463.2	12826.7	1616.7	1141.6	1104.8	1432.6	1646.2	1462.0	1266.8	1259.5	1237.4
70°	15017.9	10871.2	1318.4	1064.3	1049.6	1373.6	1602.0	1355.2	1193.2	1145.3	1123.2
72°	11965.0	8466.5	1156.4	1009.1	961.2	1226.3	1498.8	1270.5	1130.6	1071.7	1045.9
72.5°	10922.8	7847.8	1134.3	983.3	942.8	1193.2	1447.3	1244.7	1115.8	1064.3	1023.8
75°	5991.7	4017.8	998.0	902.3	795.5	1031.1	1340.5	1167.4	1053.2	979.6	972.2
77.5°	2228.0	1557.8	861.7	799.1	688.7	891.2	1219.0	1108.5	957.5	865.4	847.0
80°	854.4	821.2	703.4	673.9	578.2	780.7	1123.2	994.3	813.9	721.8	692.3
82.5°	519.3	478.7	534.0	526.6	441.9	710.8	1056.9	931.7	721.8	585.5	567.1
85°	283.6	283.6	371.9	357.2	309.3	567.1	799.1	618.7	456.7	375.6	383.0
87.5°	125.2	147.3	198.9	187.8	169.4	320.4	390.4	327.8	228.3	154.7	165.7
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)