

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: P478147

Luminaire Tested: **IFLD-L-SA8A-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478147
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

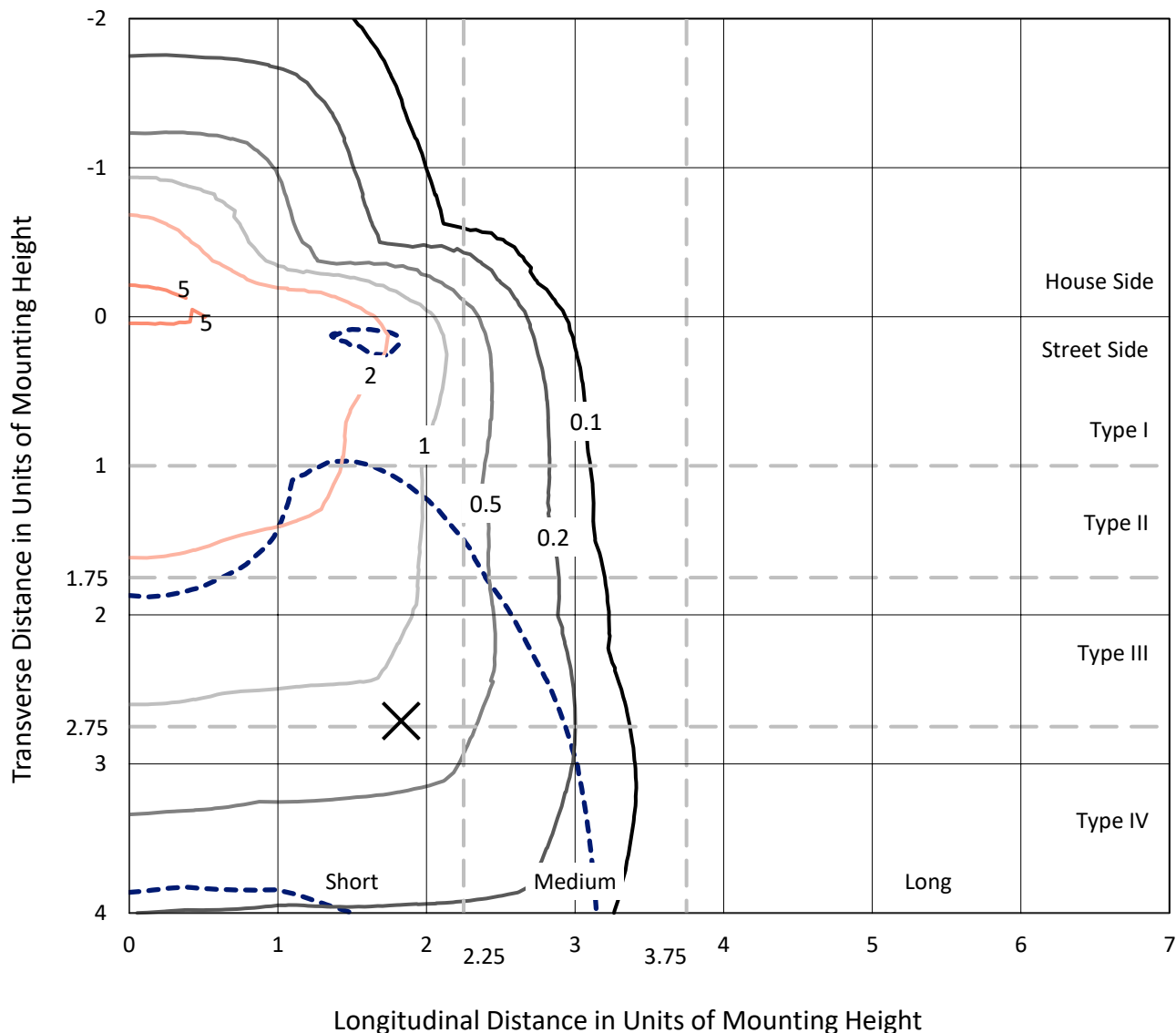
Lumens per Lamp: N/A
Luminaire Lumens: 34614.4 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

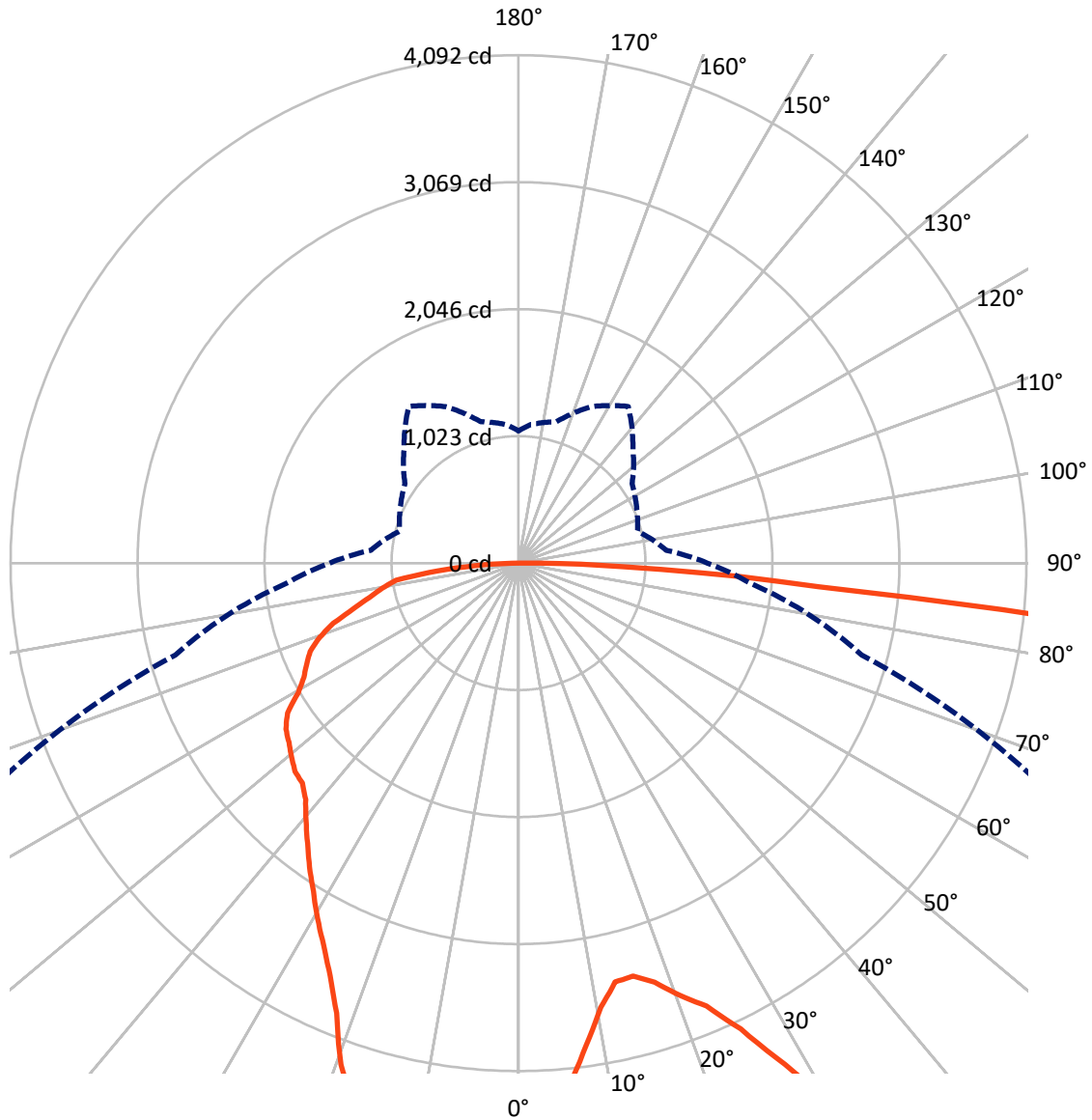
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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
House Side	Lumens	7477.1	0.0	7477.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27137.3	0.0	27137.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	34614.4	0.0	34614.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.0	1.3
10°-20°	1281.8	3.7
20°-30°	2109.7	6.1
30°-40°	3155.0	9.1
40°-50°	4677.1	13.5
50°-60°	6740.2	19.5
60°-70°	8601.4	24.8
70°-80°	6693.3	19.3
80°-90°	898.0	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°	34614.4	100.0
0°-180°	34614.4	100.0

Coefficient of Utilization



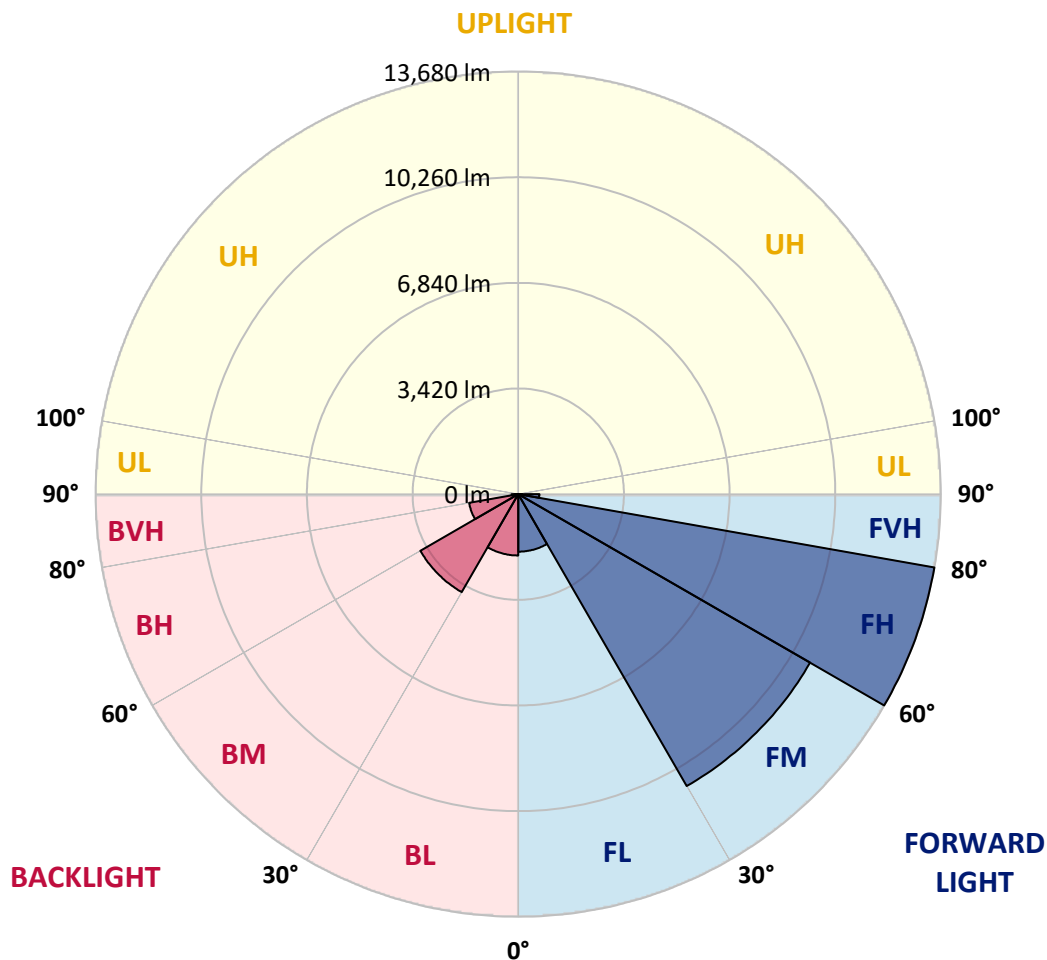
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.8	5.4			
FM (30°-60°)	10910.7	31.5			
FH (60°-80°)	13680.2	39.5			G5
FVH (80°-90°)	683.5	2.0			G4/750
BL (0°-30°)	1986.6	5.7	B3/2500		
BM (30°-60°)	3661.6	10.6	B3/5000		
BH (60°-80°)	1614.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	214.5	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°	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5
2.5°	4446.5	4461.1	4508.7	4519.7	4570.9	4541.7	4603.9	4713.7	4775.9	4867.4	4977.2
5°	4095.2	4033.0	4062.2	4175.7	4234.2	4248.9	4314.8	4501.4	4618.5	4753.9	4958.9
7.5°	3681.6	3670.7	3729.2	3802.4	3919.5	3930.5	4076.9	4241.6	4483.1	4783.2	5024.7
10°	3399.8	3447.4	3480.4	3557.2	3637.7	3637.7	3824.4	4109.8	4384.3	4673.4	5039.4
12.5°	3385.2	3355.9	3363.2	3403.5	3462.1	3535.2	3710.9	3967.1	4314.8	4651.4	5101.6
15°	3432.8	3443.8	3377.9	3429.1	3451.1	3476.7	3670.7	3959.8	4270.8	4728.3	5207.7
17.5°	3685.3	3623.1	3520.6	3473.0	3549.9	3549.9	3681.6	3908.5	4278.2	4768.6	5361.4
20°	3882.9	3882.9	3714.6	3663.3	3718.2	3707.3	3798.7	3967.1	4314.8	4849.1	5533.4
22.5°	4215.9	4263.5	3985.4	3879.3	3875.6	3904.9	3985.4	4128.1	4417.2	4962.5	5698.1
25°	4695.4	4706.3	4384.3	4274.5	4157.4	4205.0	4219.6	4362.3	4508.7	5094.3	5884.8
27.5°	5229.7	5222.4	4925.9	4651.4	4574.6	4585.6	4505.1	4600.2	4644.1	5134.5	6151.9
30°	5822.5	5756.7	5533.4	5145.5	5083.3	5013.8	4838.1	4834.4	4925.9	5361.4	6521.5
32.5°	6210.5	6126.3	5972.6	5694.5	5522.5	5529.8	5251.6	5248.0	5167.5	5610.3	6843.6
35°	6591.1	6463.0	6422.7	6137.3	5965.3	5983.6	5760.3	5731.1	5584.7	5987.2	7374.2
37.5°	7048.5	6935.1	6997.3	6781.4	6569.1	6481.3	6378.8	6342.2	6151.9	6517.9	8098.9
40°	7553.6	7517.0	7476.7	7370.6	7242.5	7249.8	7140.0	7103.4	6821.6	7158.3	8794.2
42.5°	8234.3	8095.2	7886.6	7956.1	8022.0	8091.5	8054.9	7959.8	7667.0	7809.7	9570.1
45°	8867.4	8684.4	8300.1	8322.1	8592.9	8647.8	9090.6	9079.7	8490.4	8636.8	10452.0
47.5°	9295.6	9211.4	8980.8	8955.2	9343.2	9339.5	10137.3	10137.3	9357.8	9460.3	11399.9
50°	9932.4	9712.8	9614.0	9742.1	9939.7	10075.1	11205.9	11275.5	10210.5	10320.3	12640.5
52.5°	10678.9	10404.5	10155.6	10485.0	10836.3	10924.1	12263.6	12234.3	10865.6	11319.4	14093.4
55°	11297.4	11158.4	10986.3	11176.6	11751.2	11861.0	13324.9	13054.1	11520.7	12146.5	14792.4
57.5°	12018.4	12102.5	12139.1	12091.6	12775.9	12947.9	14536.2	13760.4	12084.2	12702.7	15202.3
60°	13105.3	13156.5	13204.1	13317.6	14042.2	14283.7	15495.1	14646.0	12439.2	13024.8	15235.2
62.5°	14759.5	14561.8	14668.0	15059.6	15641.5	15915.9	16907.7	15268.2	12710.1	13218.7	14159.3
65°	16651.5	16384.4	16274.6	16779.6	18287.4	18067.8	18671.7	15732.9	12318.5	12494.1	12007.4
67.5°	18569.2	18598.5	18316.7	19330.4	21178.5	21178.5	20311.2	15956.2	11257.2	10126.3	8420.9
70°	20091.6	20183.1	20336.8	22302.1	25229.8	25672.6	22342.3	15041.3	9094.3	6741.1	4603.9
72.5°	20069.7	19795.2	20582.0	24201.4	28911.4	28541.8	22766.8	11893.9	5676.2	3301.0	2111.6
73°	19619.5	19389.0	20249.0	24183.1	29061.5	28713.8	22455.8	10964.4	5006.4	2861.9	1877.4
75°	16022.1	15604.9	17068.7	21903.2	26887.6	27154.8	19077.9	7151.0	2744.8	1764.0	1321.1
77.5°	7304.7	7487.7	9394.4	14693.6	20721.1	21035.8	12541.7	3092.4	1504.1	1237.0	973.5
80°	2345.9	2463.0	3656.0	7304.7	12988.2	13555.4	5796.9	1405.3	1072.3	947.9	728.3
82.5°	896.6	893.0	1533.4	3037.5	6155.6	6517.9	2119.0	856.4	797.8	699.0	516.0
85°	314.7	329.4	578.2	1200.4	2422.7	2536.2	735.6	475.8	552.6	468.4	296.4
87.5°	109.8	113.4	204.9	435.5	834.4	882.0	204.9	190.3	274.5	270.8	150.0
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°	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5
2.5°	5013.8	5046.7	5057.7	5189.4	5189.4	5189.4	5240.7	5240.7	5226.0	5189.4	5277.3
5°	5035.7	5094.3	5207.7	5321.2	5350.4	5376.1	5445.6	5387.0	5409.0	5372.4	5405.3
7.5°	5097.9	5178.4	5390.7	5460.2	5412.7	5467.6	5394.4	5354.1	5313.8	5328.5	5277.3
10°	5204.1	5306.5	5405.3	5533.4	5441.9	5387.0	5237.0	5200.4	5072.3	5028.4	5068.7
12.5°	5335.8	5460.2	5628.6	5581.0	5405.3	5248.0	5086.9	4933.2	4856.4	4746.6	4775.9
15°	5467.6	5610.3	5635.9	5555.4	5335.8	5138.2	4845.4	4629.5	4552.6	4453.8	4505.1
17.5°	5610.3	5745.7	5701.8	5493.2	5196.7	4896.6	4563.6	4351.4	4190.3	4128.1	4128.1
20°	5822.5	5888.4	5818.9	5390.7	5028.4	4633.1	4311.1	4069.6	3908.5	3882.9	3842.7
22.5°	5987.2	6093.4	5782.3	5240.7	4783.2	4289.1	3919.5	3828.0	3780.4	3740.2	3689.0
25°	6199.5	6195.8	5716.4	5101.6	4362.3	3879.3	3656.0	3648.7	3626.7	3612.1	3681.6
27.5°	6400.8	6316.6	5639.6	4757.6	3926.8	3568.2	3447.4	3527.9	3560.9	3538.9	3568.2
30°	6719.2	6580.1	5529.8	4391.6	3542.6	3253.5	3275.4	3385.2	3440.1	3473.0	3429.1
32.5°	7055.9	6843.6	5302.9	4011.0	3202.2	3055.8	3107.1	3220.5	3286.4	3323.0	3363.2
35°	7542.6	7048.5	5072.3	3513.3	2957.0	2935.1	2964.3	3026.6	3121.7	3147.3	3158.3
37.5°	8142.8	7359.6	4761.2	3114.4	2766.7	2792.3	2821.6	2843.6	2847.2	2894.8	2876.5
40°	8743.0	7623.1	4307.4	2733.8	2569.1	2708.2	2693.5	2653.3	2620.3	2576.4	2565.4
42.5°	9270.0	7853.7	3802.4	2411.7	2393.4	2620.3	2572.8	2470.3	2393.4	2360.5	2305.6
45°	9862.8	8179.4	3293.7	2210.4	2258.0	2514.2	2499.6	2342.2	2243.4	2126.3	2111.6
47.5°	10631.4	8519.7	2807.0	2001.8	2129.9	2473.9	2481.3	2280.0	2137.3	1979.9	1957.9
50°	11615.8	9010.1	2437.3	1914.0	2053.1	2415.4	2426.4	2195.8	2009.2	1848.1	1833.5
52.5°	12560.0	9511.5	2129.9	1778.6	2001.8	2345.9	2371.5	2119.0	1903.0	1701.7	1712.7
55°	13035.8	9328.5	1866.4	1679.8	1884.7	2232.4	2327.6	2064.1	1742.0	1602.9	1599.3
57.5°	13141.9	8878.4	1657.8	1577.3	1785.9	2111.6	2254.4	1899.4	1668.8	1551.7	1537.1
60°	12794.2	8091.5	1493.1	1467.5	1661.5	1987.2	2086.0	1811.5	1595.6	1500.5	1478.5
62.5°	11937.9	7275.4	1379.7	1416.3	1555.4	1851.8	1979.9	1749.3	1526.1	1460.2	1412.6
65°	9789.6	5983.6	1288.2	1317.5	1445.6	1720.0	1914.0	1679.8	1463.9	1401.7	1398.0
67.5°	6781.4	4124.5	1215.0	1269.9	1357.7	1624.9	1848.1	1602.9	1383.4	1361.4	1332.1
70°	3473.0	2199.5	1119.9	1163.8	1262.6	1504.1	1731.0	1522.4	1299.2	1295.5	1258.9
72.5°	1760.3	1288.2	1010.1	1075.9	1145.5	1346.8	1584.6	1416.3	1193.1	1152.8	1094.2
73°	1522.4	1193.1	991.8	1050.3	1116.2	1302.8	1540.7	1390.7	1178.4	1119.9	1065.0
75°	1108.9	940.5	889.3	947.9	999.1	1174.8	1394.3	1273.6	1083.3	1021.0	969.8
77.5°	830.7	724.6	739.3	805.1	849.0	1013.7	1240.6	1152.8	980.8	896.6	874.7
80°	611.2	552.6	611.2	673.4	706.3	893.0	1130.8	999.1	827.1	731.9	713.6
82.5°	435.5	402.6	472.1	512.4	527.0	739.3	1017.4	797.8	625.8	501.4	461.1
85°	248.9	245.2	318.4	314.7	325.7	431.8	669.7	530.7	402.6	307.4	300.1
87.5°	109.8	120.8	161.0	128.1	135.4	204.9	285.5	197.6	164.7	91.5	69.5
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)