

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: P478217

Luminaire Tested: **IFLD-M-SA4C-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478217
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

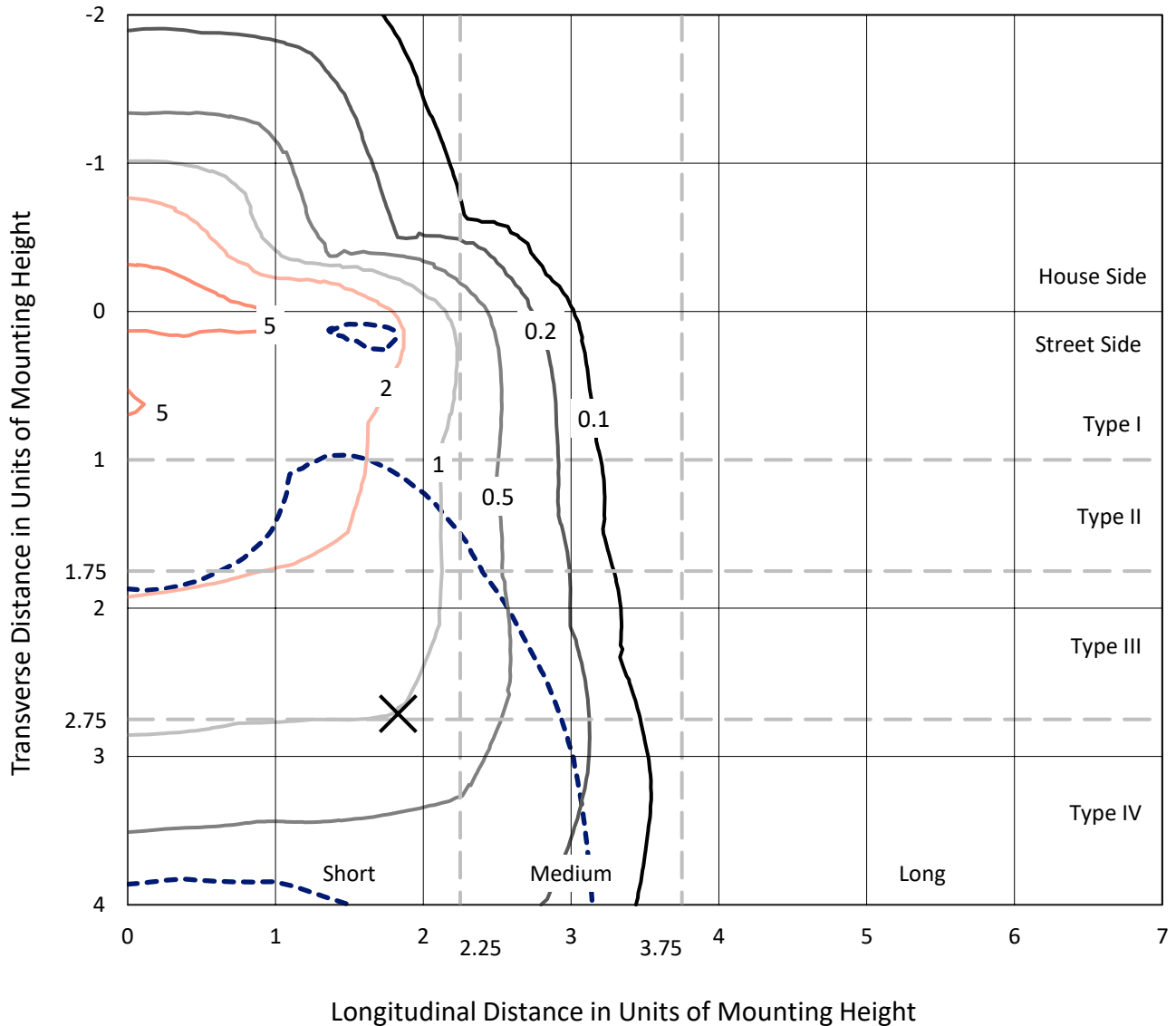
Lumens per Lamp: N/A
Luminaire Lumens: 29795 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

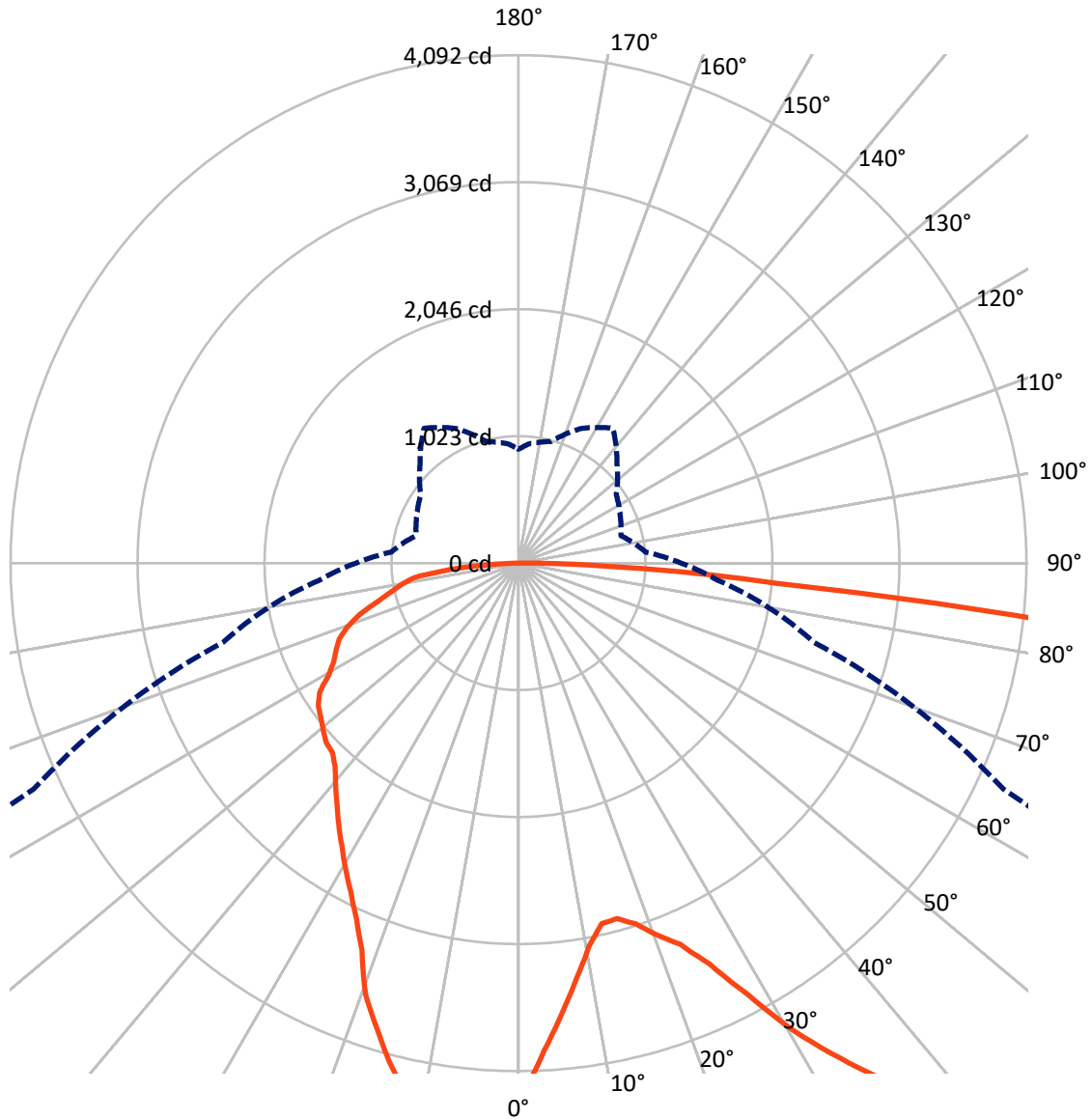
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	6436.1	0.0	6436.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23358.9	0.0	23358.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	29795.0	0.0	29795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.3	1.3
10°-20°	1103.3	3.7
20°-30°	1815.9	6.1
30°-40°	2715.7	9.1
40°-50°	4025.9	13.5
50°-60°	5801.8	19.5
60°-70°	7403.8	24.8
70°-80°	5761.4	19.3
80°-90°	772.9	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°	29795.0	100.0
0°-180°	29795.0	100.0

Coefficient of Utilization



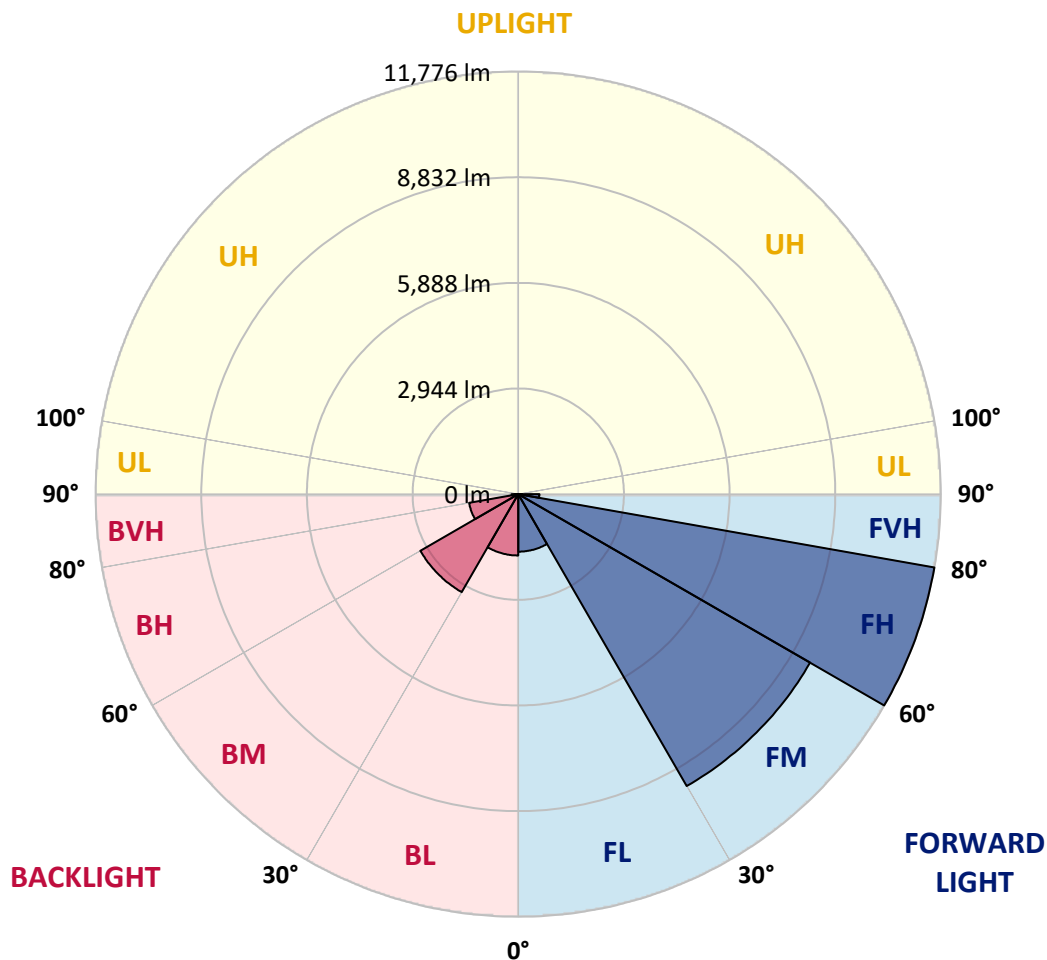
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.5	5.4			
FM (30°-60°)	9391.6	31.5			
FH (60°-80°)	11775.5	39.5			G4/12000
FVH (80°-90°)	588.3	2.0			G4/750
BL (0°-30°)	1710.0	5.7	B3/2500		
BM (30°-60°)	3151.8	10.6	B3/5000		
BH (60°-80°)	1389.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	184.6	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°	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6
2.5°	3827.4	3840.0	3881.0	3890.4	3934.5	3909.3	3962.9	4057.4	4110.9	4189.7	4284.2
5°	3525.0	3471.5	3496.7	3594.3	3644.7	3657.3	3714.0	3874.7	3975.5	4092.0	4268.4
7.5°	3169.0	3159.6	3210.0	3273.0	3373.8	3383.2	3509.3	3651.0	3858.9	4117.2	4325.1
10°	2926.5	2967.4	2995.8	3061.9	3131.2	3131.2	3291.9	3537.6	3773.9	4022.7	4337.7
12.5°	2913.9	2888.7	2895.0	2929.6	2980.0	3043.0	3194.2	3414.7	3714.0	4003.8	4391.3
15°	2954.8	2964.3	2907.6	2951.7	2970.6	2992.6	3159.6	3408.4	3676.2	4070.0	4482.6
17.5°	3172.2	3118.6	3030.4	2989.5	3055.6	3055.6	3169.0	3364.3	3682.5	4104.6	4615.0
20°	3342.3	3342.3	3197.4	3153.3	3200.5	3191.1	3269.8	3414.7	3714.0	4173.9	4763.0
22.5°	3629.0	3669.9	3430.5	3339.1	3336.0	3361.2	3430.5	3553.4	3802.2	4271.6	4904.8
25°	4041.6	4051.1	3773.9	3679.4	3578.6	3619.5	3632.1	3755.0	3881.0	4385.0	5065.4
27.5°	4501.5	4495.2	4240.1	4003.8	3937.7	3947.1	3877.8	3959.7	3997.5	4419.6	5295.4
30°	5011.9	4955.2	4763.0	4429.1	4375.5	4315.7	4164.5	4161.3	4240.1	4615.0	5613.5
32.5°	5345.8	5273.3	5141.0	4901.6	4753.6	4759.9	4520.4	4517.3	4448.0	4829.2	5890.8
35°	5673.4	5563.1	5528.5	5282.8	5134.7	5150.5	4958.3	4933.1	4807.1	5153.6	6347.5
37.5°	6067.2	5969.5	6023.1	5837.2	5654.5	5578.9	5490.7	5459.2	5295.4	5610.4	6971.3
40°	6501.9	6470.4	6435.7	6344.4	6234.1	6240.4	6145.9	6114.4	5871.9	6161.7	7569.8
42.5°	7087.8	6968.1	6788.5	6848.4	6905.1	6965.0	6933.5	6851.6	6599.5	6722.4	8237.6
45°	7632.8	7475.3	7144.5	7163.4	7396.5	7443.8	7824.9	7815.5	7308.3	7434.3	8996.8
47.5°	8001.4	7928.9	7730.4	7708.4	8042.3	8039.2	8725.9	8725.9	8054.9	8143.1	9812.7
50°	8549.5	8360.5	8275.4	8385.7	8555.8	8672.3	9645.7	9705.6	8788.9	8883.4	10880.6
52.5°	9192.1	8955.8	8741.6	9025.1	9327.6	9403.2	10556.1	10530.9	9352.8	9743.4	12131.2
55°	9724.5	9604.8	9456.7	9620.5	10115.1	10209.6	11469.7	11236.5	9916.6	10455.3	12732.9
57.5°	10345.1	10417.5	10449.0	10408.1	10997.1	11145.2	12512.3	11844.5	10401.8	10934.1	13085.7
60°	11280.6	11324.7	11365.7	11463.4	12087.1	12295.0	13337.7	12606.9	10707.3	11211.3	13114.0
62.5°	12704.5	12534.4	12625.8	12962.8	13463.7	13700.0	14553.6	13142.4	10940.4	11378.3	12187.9
65°	14333.1	14103.2	14008.7	14443.4	15741.2	15552.2	16072.0	13542.4	10603.4	10754.6	10335.6
67.5°	15983.8	16009.0	15766.4	16639.0	18229.9	18229.9	17483.3	13734.6	9689.8	8716.4	7248.5
70°	17294.3	17373.0	17505.3	19196.9	21717.1	22098.2	19231.6	12947.1	7828.1	5802.6	3962.9
72.5°	17275.4	17039.1	17716.4	20831.9	24886.1	24567.9	19597.0	10237.9	4885.9	2841.4	1817.6
73°	16887.9	16689.4	17429.7	20816.1	25015.2	24716.0	19329.2	9437.8	4309.4	2463.4	1616.0
75°	13791.3	13432.2	14692.2	18853.6	23144.1	23374.0	16421.7	6155.4	2362.6	1518.4	1137.2
77.5°	6287.7	6445.2	8086.4	12647.8	17836.1	18107.0	10795.5	2661.9	1294.7	1064.7	837.9
80°	2019.2	2120.0	3147.0	6287.7	11179.8	11668.1	4989.8	1209.7	923.0	815.9	626.9
82.5°	771.8	768.6	1319.9	2614.6	5298.5	5610.4	1823.9	737.1	686.7	601.7	444.2
85°	270.9	283.5	497.7	1033.2	2085.4	2183.0	633.2	409.5	475.7	403.2	255.2
87.5°	94.5	97.7	176.4	374.9	718.2	759.2	176.4	163.8	236.3	233.1	129.2
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°	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6	4271.6
2.5°	4315.7	4344.0	4353.5	4466.9	4466.9	4466.9	4511.0	4511.0	4498.4	4466.9	4542.5
5°	4334.6	4385.0	4482.6	4580.3	4605.5	4627.6	4687.4	4637.0	4655.9	4624.4	4652.8
7.5°	4388.1	4457.4	4640.2	4700.0	4659.1	4706.3	4643.3	4608.7	4574.0	4586.6	4542.5
10°	4479.5	4567.7	4652.8	4763.0	4684.3	4637.0	4507.8	4476.3	4366.1	4328.3	4362.9
12.5°	4592.9	4700.0	4844.9	4804.0	4652.8	4517.3	4378.7	4246.4	4180.2	4085.7	4110.9
15°	4706.3	4829.2	4851.2	4781.9	4592.9	4422.8	4170.8	3984.9	3918.8	3833.7	3877.8
17.5°	4829.2	4945.7	4907.9	4728.4	4473.2	4214.9	3928.2	3745.5	3606.9	3553.4	3553.4
20°	5011.9	5068.6	5008.7	4640.2	4328.3	3988.1	3710.9	3503.0	3364.3	3342.3	3307.6
22.5°	5153.6	5245.0	4977.2	4511.0	4117.2	3692.0	3373.8	3295.0	3254.1	3219.4	3175.3
25°	5336.3	5333.2	4920.5	4391.3	3755.0	3339.1	3147.0	3140.7	3121.8	3109.2	3169.0
27.5°	5509.6	5437.1	4854.4	4095.2	3380.1	3071.4	2967.4	3036.7	3065.1	3046.2	3071.4
30°	5783.7	5663.9	4759.9	3780.2	3049.3	2800.5	2819.4	2913.9	2961.1	2989.5	2951.7
32.5°	6073.5	5890.8	4564.6	3452.6	2756.4	2630.4	2674.5	2772.1	2828.8	2860.3	2895.0
35°	6492.4	6067.2	4366.1	3024.1	2545.3	2526.4	2551.6	2605.2	2687.1	2709.1	2718.6
37.5°	7009.1	6334.9	4098.3	2680.8	2381.5	2403.6	2428.8	2447.7	2450.8	2491.8	2476.0
40°	7525.7	6561.7	3707.7	2353.2	2211.4	2331.1	2318.5	2283.9	2255.5	2217.7	2208.2
42.5°	7979.3	6760.2	3273.0	2075.9	2060.2	2255.5	2214.5	2126.3	2060.2	2031.8	1984.6
45°	8489.6	7040.6	2835.1	1902.7	1943.6	2164.1	2151.5	2016.1	1931.0	1830.2	1817.6
47.5°	9151.2	7333.5	2416.2	1723.1	1833.4	2129.5	2135.8	1962.5	1839.7	1704.2	1685.3
50°	9998.5	7755.6	2098.0	1647.5	1767.2	2079.1	2088.5	1890.1	1729.4	1590.8	1578.2
52.5°	10811.3	8187.2	1833.4	1531.0	1723.1	2019.2	2041.3	1823.9	1638.1	1464.8	1474.3
55°	11220.8	8029.7	1606.6	1445.9	1622.3	1921.6	2003.5	1776.7	1499.5	1379.8	1376.6
57.5°	11312.1	7642.2	1427.0	1357.7	1537.3	1817.6	1940.5	1634.9	1436.5	1335.7	1323.1
60°	11012.9	6965.0	1285.3	1263.2	1430.2	1710.5	1795.6	1559.3	1373.5	1291.6	1272.7
62.5°	10275.8	6262.5	1187.6	1219.1	1338.8	1594.0	1704.2	1505.8	1313.6	1256.9	1216.0
65°	8426.6	5150.5	1108.8	1134.0	1244.3	1480.6	1647.5	1445.9	1260.1	1206.5	1203.4
67.5°	5837.2	3550.2	1045.8	1093.1	1168.7	1398.7	1590.8	1379.8	1190.8	1171.9	1146.7
70°	2989.5	1893.2	963.9	1001.7	1086.8	1294.7	1490.0	1310.5	1118.3	1115.1	1083.6
72.5°	1515.2	1108.8	869.4	926.1	986.0	1159.3	1364.0	1219.1	1026.9	992.3	941.9
73°	1310.5	1026.9	853.7	904.1	960.8	1121.4	1326.2	1197.1	1014.3	963.9	916.7
75°	954.5	809.6	765.5	815.9	860.0	1011.2	1200.2	1096.2	932.4	878.9	834.8
77.5°	715.1	623.7	636.3	693.0	730.8	872.6	1067.9	992.3	844.2	771.8	752.9
80°	526.1	475.7	526.1	579.6	608.0	768.6	973.4	860.0	711.9	630.0	614.3
82.5°	374.9	346.5	406.4	441.0	453.6	636.3	875.7	686.7	538.7	431.6	396.9
85°	214.2	211.1	274.1	270.9	280.4	371.7	576.5	456.8	346.5	264.6	258.3
87.5°	94.5	104.0	138.6	110.3	116.6	176.4	245.7	170.1	141.8	78.8	59.9
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)