

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: P476657

Luminaire Tested: **IFLD-M-SA4C-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476657
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-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

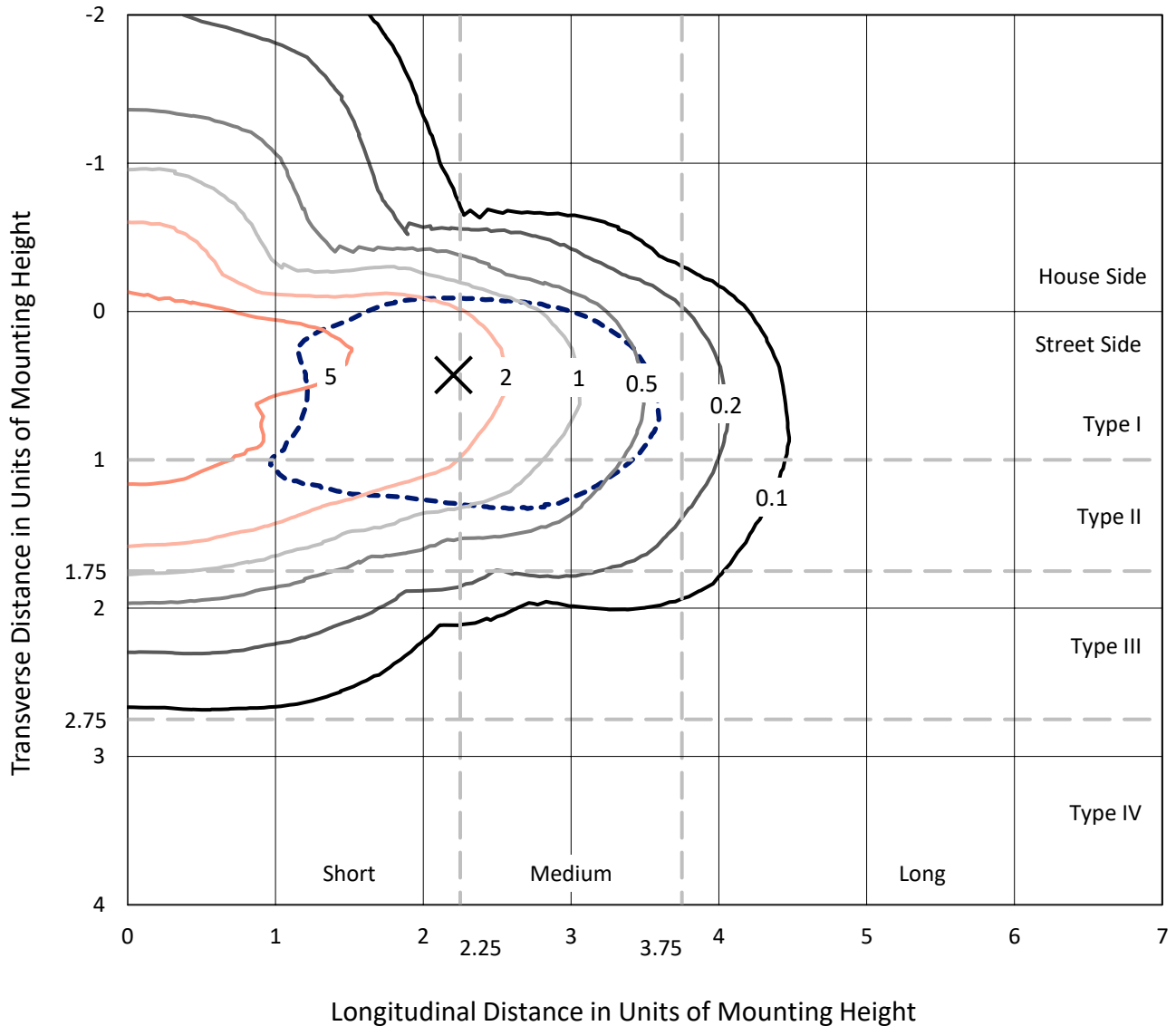
Lumens per Lamp: N/A
Luminaire Lumens: 29047.7 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

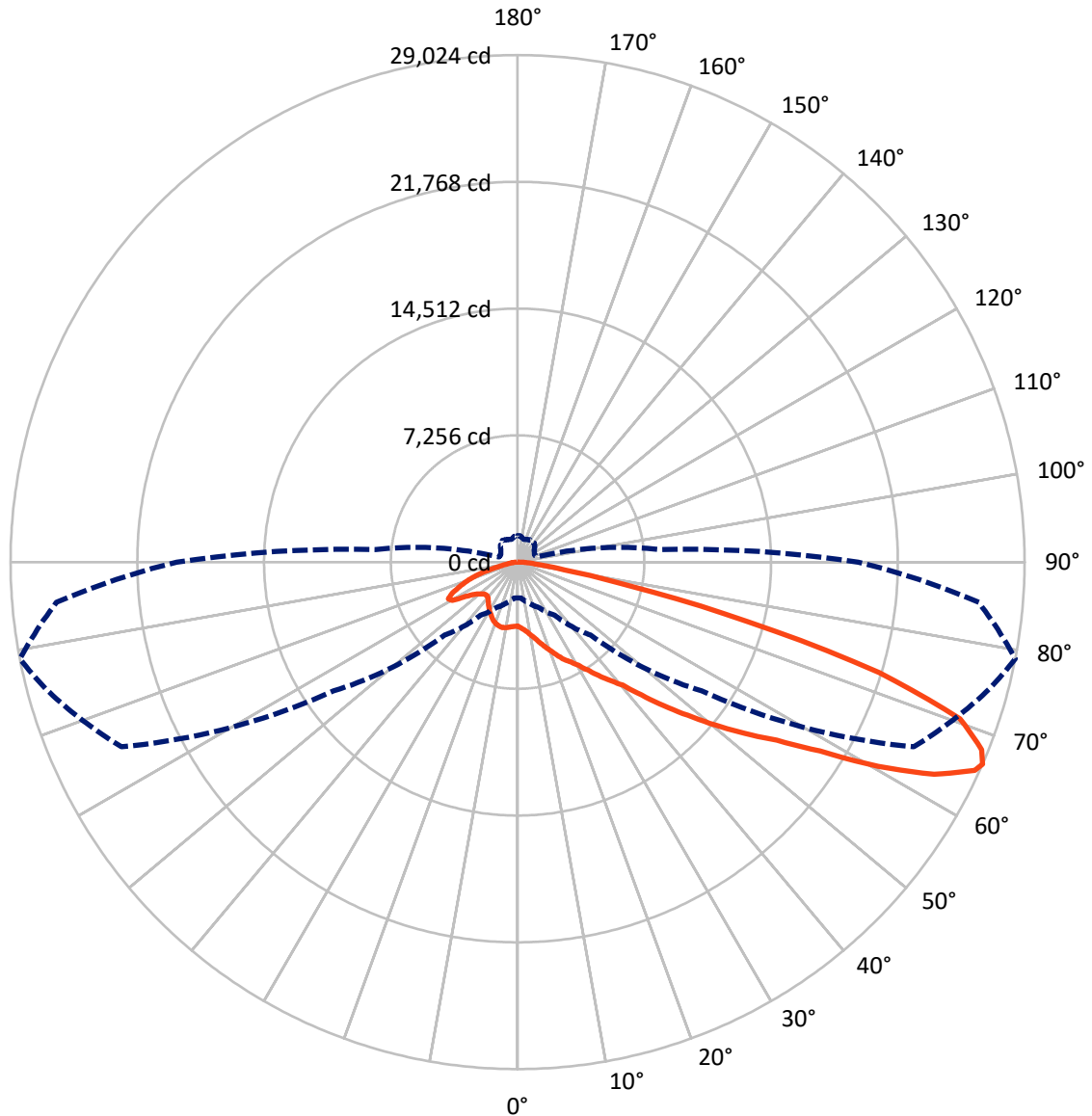
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5865.8	0.0	5865.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	23181.9	0.0	23181.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	29047.7	0.0	29047.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.7	1.2
10°-20°	1113.7	3.8
20°-30°	1911.7	6.6
30°-40°	2953.2	10.2
40°-50°	4730.3	16.3
50°-60°	7062.7	24.3
60°-70°	7257.0	25.0
70°-80°	3216.9	11.1
80°-90°	441.4	1.5
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°	29047.7	100.0
0°-180°	29047.7	100.0



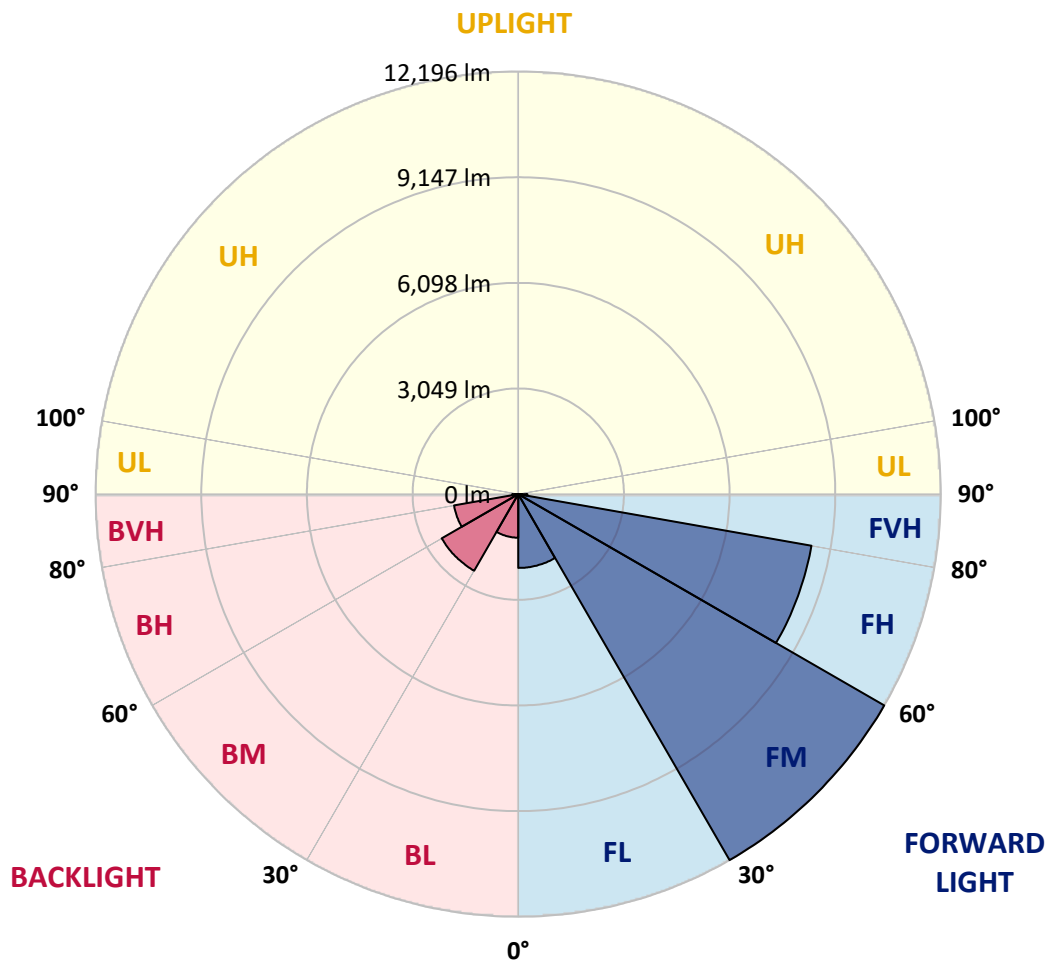
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.4	7.3			
FM (30°-60°)	12196.1	42.0			
FH (60°-80°)	8591.7	29.6			G4/12000
FVH (80°-90°)	264.7	0.9			G3/500
BL (0°-30°)	1256.7	4.3	B3/2500		
BM (30°-60°)	2550.2	8.8	B3/5000		
BH (60°-80°)	1882.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	176.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9
2.5°	3901.2	3904.3	3904.3	3891.6	3894.8	3904.3	3869.2	3792.5	3792.5	3779.7	3757.4
5°	4140.8	4124.8	4102.4	4105.6	4092.9	4092.9	4054.5	3981.0	3917.1	3891.6	3824.5
7.5°	4172.7	4188.7	4185.5	4223.9	4243.0	4243.0	4262.2	4201.5	4105.6	4044.9	3977.8
10°	4236.6	4195.1	4191.9	4281.4	4310.1	4377.2	4453.9	4421.9	4342.1	4255.8	4166.3
12.5°	4275.0	4300.5	4300.5	4345.3	4412.4	4511.4	4645.6	4706.3	4581.7	4492.2	4354.9
15°	4332.5	4297.3	4399.6	4437.9	4565.7	4636.0	4827.7	4984.3	4901.2	4792.6	4575.3
17.5°	4358.0	4335.7	4393.2	4463.5	4680.7	4786.2	5019.4	5236.7	5166.4	5096.1	4872.4
20°	4489.0	4485.8	4511.4	4568.9	4725.5	4933.2	5223.9	5524.2	5549.8	5422.0	5118.5
22.5°	4808.5	4767.0	4767.0	4744.6	4811.7	5025.8	5418.8	5834.2	5949.2	5799.0	5396.4
25°	5102.5	5160.0	5124.9	5022.6	4997.1	5108.9	5559.4	6163.2	6316.6	6176.0	5773.5
27.5°	5479.5	5498.7	5559.4	5422.0	5246.3	5281.4	5712.7	6348.6	6664.9	6476.4	5987.5
30°	6022.7	5987.5	5974.7	5821.4	5591.3	5543.4	5888.5	6620.1	7121.8	6856.6	6239.9
32.5°	6390.1	6476.4	6473.2	6262.3	5984.3	5878.9	6105.7	6875.7	7610.6	7364.6	6706.4
35°	7118.6	7208.0	7137.7	6827.8	6501.9	6291.0	6418.9	7208.0	8169.7	7978.0	7102.6
37.5°	8048.3	8259.2	8109.0	7537.1	7077.0	6847.0	6853.4	7569.1	8741.7	8585.1	7527.5
40°	8690.5	8974.9	8767.2	8230.4	7741.6	7524.3	7438.1	7997.2	9425.4	9259.2	8192.1
42.5°	9486.1	9722.5	9613.9	9083.5	8511.6	8326.3	8153.8	8712.9	10470.2	10393.5	9045.2
45°	10355.1	10467.0	10431.8	10096.4	9460.5	9396.6	9016.4	9655.4	11700.3	11732.2	10112.3
47.5°	11163.5	11224.2	11291.3	11048.5	10652.3	10706.6	10010.1	10665.1	12895.2	13106.1	11300.9
50°	11371.2	11578.9	11735.4	11898.4	11984.6	12352.1	11106.0	11904.7	14269.1	14678.0	12623.6
52.5°	11160.3	11144.3	11620.4	12131.6	12994.3	13764.3	12598.1	13444.8	15483.2	16291.5	13834.6
55°	10201.8	10169.8	10936.6	11614.0	13297.8	14550.2	14729.2	15496.0	16949.7	18000.9	15473.6
57.5°	8524.4	8326.3	9163.4	10275.3	12639.6	14636.5	16869.9	18540.9	19205.4	20403.6	17975.3
60°	5728.7	5645.6	6447.6	7773.6	10262.5	13412.8	18151.1	22352.6	22384.5	23732.8	21857.3
62.5°	3527.3	3543.3	4057.7	5051.4	7185.7	10633.1	17598.3	25397.4	25403.8	26755.3	25052.4
65°	2306.8	2316.4	2731.8	3281.3	4489.0	7211.2	14553.4	25637.1	27503.0	28758.6	26515.7
66°	2054.4	2057.6	2415.5	2862.8	3719.0	5901.3	12853.7	25014.0	27975.8	29023.8	26496.5
67.5°	1731.7	1773.3	2060.8	2405.9	2901.1	4239.8	10198.6	23212.0	27733.0	28653.2	25895.9
70°	1354.7	1377.1	1603.9	1955.4	2175.8	2453.8	6061.0	18921.1	25384.7	26876.7	23710.4
72.5°	1086.3	1105.5	1278.0	1587.9	1766.9	1616.7	3300.5	13729.1	20052.1	21643.3	18649.5
75°	917.0	920.2	1003.2	1249.3	1453.7	1214.1	1757.3	8811.9	12866.5	13607.7	11425.5
77.5°	741.3	754.0	811.5	952.1	1169.4	955.3	1048.0	4936.3	6460.4	6514.7	5281.4
80°	603.9	610.3	645.4	693.3	891.4	706.1	709.3	2409.1	2770.1	2706.2	2147.1
82.5°	476.1	482.5	524.0	514.4	655.0	504.8	440.9	1159.8	1274.8	1249.3	987.3
85°	268.4	268.4	412.2	412.2	415.4	319.5	268.4	546.4	674.2	629.4	463.3
87.5°	86.3	89.5	124.6	131.0	207.7	143.8	131.0	204.5	319.5	281.2	166.1
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°	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9
2.5°	3744.6	3693.5	3671.1	3597.6	3578.5	3530.5	3508.2	3479.4	3469.8	3428.3	3466.6
5°	3773.4	3757.4	3667.9	3575.3	3505.0	3473.0	3425.1	3361.2	3354.8	3297.3	3290.9
7.5°	3894.8	3840.4	3683.9	3584.8	3444.3	3364.4	3258.9	3227.0	3185.5	3166.3	3207.8
10°	4083.3	3945.9	3712.6	3463.4	3290.9	3195.0	3118.4	3096.0	3099.2	3086.4	3067.2
12.5°	4217.5	4086.5	3664.7	3361.2	3137.5	3044.9	3038.5	3060.9	3096.0	3080.0	3102.4
15°	4409.2	4163.1	3629.6	3191.9	3012.9	2987.4	2984.2	3051.3	3048.1	3048.1	3044.9
17.5°	4588.1	4239.8	3501.8	3044.9	2881.9	2901.1	2923.5	2920.3	2952.2	2965.0	2987.4
20°	4814.9	4329.3	3322.8	2897.9	2782.9	2776.5	2773.3	2776.5	2808.4	2827.6	2811.6
22.5°	5013.0	4348.5	3172.7	2757.3	2664.7	2639.1	2597.6	2639.1	2623.1	2629.5	2648.7
25°	5185.6	4351.7	2958.6	2651.9	2546.5	2488.9	2457.0	2453.8	2425.0	2421.8	2421.8
27.5°	5329.3	4243.0	2770.1	2504.9	2405.9	2351.6	2348.4	2313.2	2239.7	2191.8	2198.2
30°	5441.2	4160.0	2639.1	2377.1	2281.3	2271.7	2242.9	2163.0	2067.2	2006.5	2006.5
32.5°	5639.3	3993.8	2460.2	2246.1	2198.2	2185.4	2118.3	2048.0	1958.6	1901.1	1891.5
35°	5786.2	3840.4	2342.0	2134.3	2111.9	2086.4	2028.9	1952.2	1926.6	1913.8	1923.4
37.5°	5952.4	3667.9	2198.2	2038.4	2060.8	2012.9	1945.8	1910.6	2000.1	1977.7	1987.3
40°	6217.6	3546.5	2057.6	1980.9	2003.3	1949.0	1862.7	1849.9	1961.8	1881.9	1862.7
42.5°	6703.2	3543.3	1971.3	1894.7	1910.6	1869.1	1792.4	1786.0	1830.8	1734.9	1706.2
45°	7307.1	3655.1	1907.4	1830.8	1818.0	1811.6	1786.0	1757.3	1718.9	1594.3	1562.4
47.5°	8029.2	3837.3	1894.7	1734.9	1750.9	1805.2	1773.3	1699.8	1600.7	1520.8	1504.9
50°	8904.6	4214.3	1862.7	1664.6	1693.4	1779.6	1754.1	1651.8	1562.4	1511.3	1501.7
52.5°	9872.7	4690.3	1821.2	1556.0	1619.9	1757.3	1770.1	1674.2	1543.2	1498.5	1492.1
55°	11013.3	5393.2	1773.3	1437.8	1533.6	1734.9	1770.1	1610.3	1517.6	1517.6	1511.3
57.5°	13265.8	6658.5	1674.2	1329.1	1456.9	1693.4	1718.9	1613.5	1520.8	1520.8	1508.1
60°	16569.5	8633.0	1485.7	1246.1	1383.5	1635.9	1680.6	1565.6	1485.7	1504.9	1501.7
62.5°	19154.3	9233.7	1325.9	1166.2	1310.0	1530.4	1629.5	1514.5	1444.2	1514.5	1520.8
65°	19707.1	8626.6	1163.0	1079.9	1207.7	1428.2	1556.0	1441.0	1383.5	1520.8	1527.2
66°	19509.0	8153.8	1105.5	1054.4	1163.0	1377.1	1511.3	1415.4	1351.5	1514.5	1517.6
67.5°	18627.1	7444.5	1041.6	1000.0	1102.3	1303.6	1460.1	1380.3	1300.4	1495.3	1466.5
70°	16710.1	6313.4	933.0	904.2	1016.0	1182.2	1341.9	1290.8	1220.5	1377.1	1325.9
72.5°	12869.7	5045.0	817.9	821.1	917.0	1057.6	1223.7	1188.6	1127.9	1207.7	1175.8
75°	7837.5	3223.8	712.5	718.9	798.8	939.3	1111.9	1086.3	1012.8	1057.6	1041.6
77.5°	3473.0	1597.5	600.7	613.4	677.4	827.5	968.1	926.6	849.9	859.5	853.1
80°	1348.3	757.2	488.8	504.8	546.4	661.4	802.0	763.6	696.5	683.7	677.4
82.5°	648.6	421.7	377.0	383.4	399.4	527.2	690.1	642.2	552.7	495.2	495.2
85°	325.9	262.0	265.2	242.8	265.2	357.8	466.5	389.8	322.7	287.6	293.9
87.5°	131.0	131.0	131.0	111.8	118.2	169.3	217.3	147.0	134.2	79.9	79.9
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)