

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: P476658

Luminaire Tested: **IFLD-M-SA4D-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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

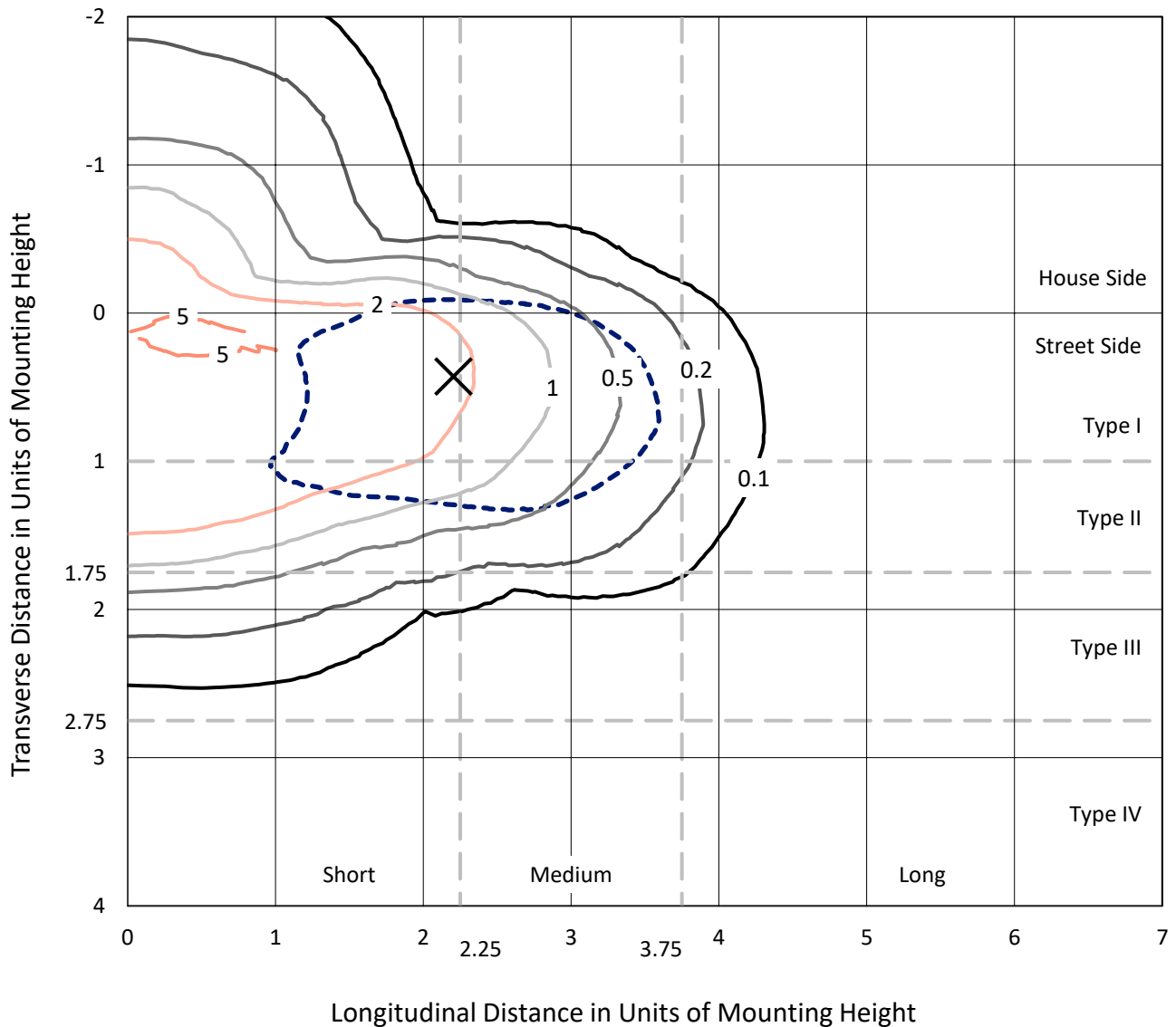
Lumens per Lamp: N/A
Luminaire Lumens: 31961.7 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

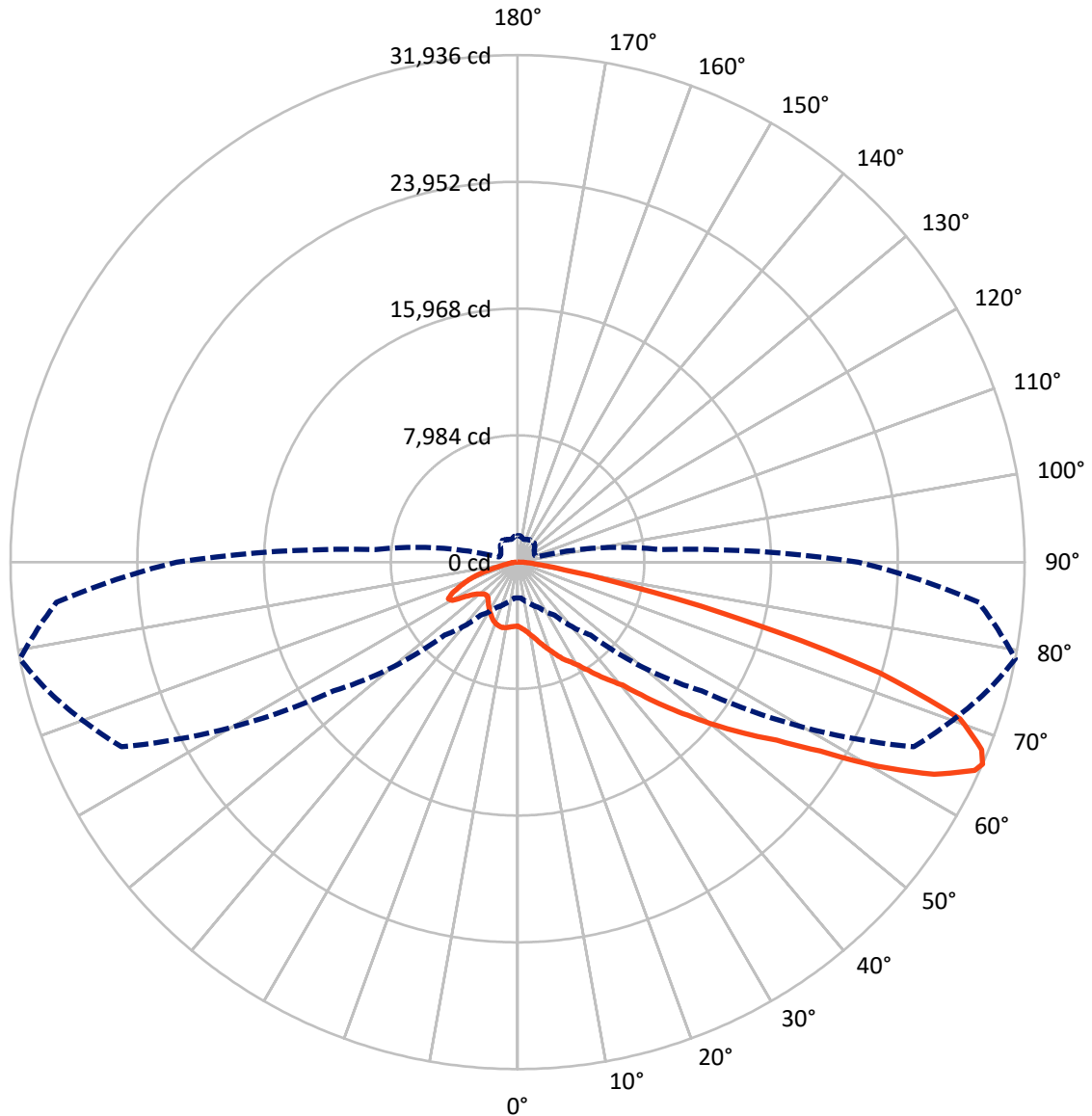
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type 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	6454.2	0.0	6454.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	25507.5	0.0	25507.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	31961.7	0.0	31961.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.8	1.2
10°-20°	1225.4	3.8
20°-30°	2103.5	6.6
30°-40°	3249.5	10.2
40°-50°	5204.9	16.3
50°-60°	7771.3	24.3
60°-70°	7985.0	25.0
70°-80°	3539.6	11.1
80°-90°	485.7	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°	31961.7	100.0
0°-180°	31961.7	100.0



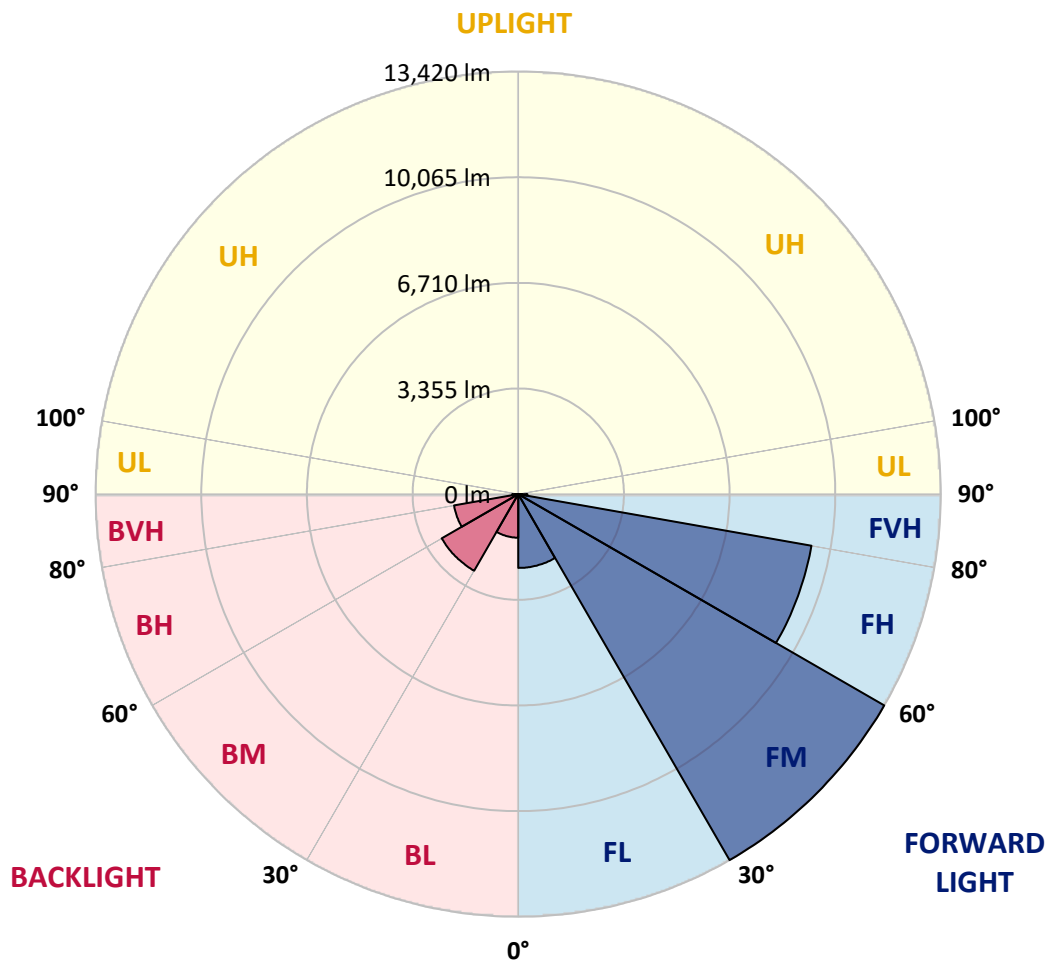
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.0	7.3			
FM (30°-60°)	13419.6	42.0			
FH (60°-80°)	9453.6	29.6			G4/12000
FVH (80°-90°)	291.3	0.9			G3/500
BL (0°-30°)	1382.8	4.3	B3/2500		
BM (30°-60°)	2806.0	8.8	B3/5000		
BH (60°-80°)	2071.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	194.4	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°	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9
2.5°	4292.5	4296.0	4296.0	4282.0	4285.5	4296.0	4257.4	4173.0	4173.0	4158.9	4134.3
5°	4556.2	4538.6	4514.0	4517.5	4503.4	4503.4	4461.3	4380.4	4310.1	4282.0	4208.1
7.5°	4591.3	4608.9	4605.4	4647.6	4668.7	4668.7	4689.8	4623.0	4517.5	4450.7	4376.9
10°	4661.6	4615.9	4612.4	4710.9	4742.5	4816.3	4900.7	4865.6	4777.7	4682.7	4584.3
12.5°	4703.8	4732.0	4732.0	4781.2	4855.0	4964.0	5111.6	5178.4	5041.3	4942.9	4791.7
15°	4767.1	4728.4	4840.9	4883.1	5023.8	5101.1	5312.0	5484.3	5392.9	5273.4	5034.3
17.5°	4795.2	4770.6	4833.9	4911.3	5150.3	5266.3	5523.0	5762.0	5684.7	5607.3	5361.2
20°	4939.4	4935.9	4964.0	5027.3	5199.5	5428.0	5748.0	6078.4	6106.5	5965.9	5631.9
22.5°	5290.9	5245.2	5245.2	5220.6	5294.5	5530.0	5962.4	6419.4	6546.0	6380.8	5937.8
25°	5614.4	5677.6	5639.0	5526.5	5498.4	5621.4	6117.1	6781.5	6950.3	6795.6	6352.6
27.5°	6029.2	6050.3	6117.1	5965.9	5772.6	5811.2	6285.8	6985.4	7333.5	7126.1	6588.2
30°	6626.9	6588.2	6574.1	6405.4	6152.3	6099.5	6479.2	7284.3	7836.2	7544.4	6865.9
32.5°	7031.1	7126.1	7122.6	6890.5	6584.7	6468.7	6718.3	7565.5	8374.1	8103.4	7379.2
35°	7832.7	7931.1	7853.8	7512.8	7154.2	6922.2	7062.8	7931.1	8989.3	8778.4	7815.1
37.5°	8855.7	9087.8	8922.5	8293.2	7787.0	7533.9	7540.9	8328.4	9618.6	9446.3	8282.7
40°	9562.4	9875.2	9646.7	9056.1	8518.2	8279.2	8184.3	8799.5	10370.9	10188.1	9013.9
42.5°	10437.7	10697.9	10578.4	9994.8	9365.5	9161.6	8971.7	9587.0	11520.5	11436.2	9952.6
45°	11394.0	11517.0	11478.3	11109.2	10409.6	10339.3	9920.9	10624.1	12874.0	12909.2	11126.8
47.5°	12283.4	12350.2	12424.0	12156.9	11720.9	11780.7	11014.3	11735.0	14188.9	14420.9	12434.6
50°	12511.9	12740.4	12912.7	13092.0	13186.9	13591.2	12220.1	13099.0	15700.5	16150.5	13890.0
52.5°	12279.9	12262.3	12786.1	13348.6	14297.8	15145.1	13861.9	14793.5	17036.5	17925.9	15222.4
55°	11225.2	11190.1	12033.8	12779.1	14631.8	16009.9	16206.8	17050.5	18650.1	19806.7	17025.9
57.5°	9379.5	9161.6	10082.7	11306.1	13907.6	16104.8	18562.2	20400.9	21132.1	22450.4	19778.6
60°	6303.4	6212.0	7094.4	8553.4	11292.0	14758.4	19972.0	24594.9	24630.1	26113.7	24050.0
62.5°	3881.2	3898.8	4464.8	5558.1	7906.5	11699.8	19363.8	27945.3	27952.3	29439.4	27565.6
65°	2538.2	2548.8	3005.8	3610.5	4939.4	7934.6	16013.4	28209.0	30262.0	31643.7	29175.7
66°	2260.5	2264.0	2657.8	3150.0	4092.1	6493.3	14143.1	27523.4	30782.4	31935.5	29154.6
67.5°	1905.4	1951.1	2267.5	2647.2	3192.1	4665.2	11221.7	25540.6	30515.2	31527.7	28493.7
70°	1490.6	1515.2	1764.8	2151.5	2394.1	2700.0	6669.0	20819.2	27931.2	29573.0	26089.1
72.5°	1195.3	1216.4	1406.2	1747.2	1944.1	1778.9	3631.6	15106.4	22063.7	23814.5	20520.4
75°	1009.0	1012.5	1103.9	1374.6	1599.6	1335.9	1933.6	9695.9	14157.2	14972.8	12571.7
77.5°	815.6	829.7	893.0	1047.6	1286.7	1051.2	1153.1	5431.6	7108.5	7168.3	5811.2
80°	664.4	671.5	710.1	762.9	980.8	776.9	780.5	2650.7	3048.0	2977.7	2362.5
82.5°	523.8	530.9	576.6	566.0	720.7	555.5	485.1	1276.2	1402.7	1374.6	1086.3
85°	295.3	295.3	453.5	453.5	457.0	351.6	295.3	601.2	741.8	692.6	509.8
87.5°	94.9	98.4	137.1	144.1	228.5	158.2	144.1	225.0	351.6	309.4	182.8
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°	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9	4035.9
2.5°	4120.3	4064.0	4039.4	3958.5	3937.4	3884.7	3860.1	3828.5	3817.9	3772.2	3814.4
5°	4151.9	4134.3	4035.9	3933.9	3856.6	3821.4	3768.7	3698.4	3691.4	3628.1	3621.0
7.5°	4285.5	4225.7	4053.5	3944.5	3789.8	3701.9	3585.9	3550.7	3505.0	3483.9	3529.6
10°	4492.9	4341.7	4085.1	3810.9	3621.0	3515.6	3431.2	3406.6	3410.1	3396.0	3374.9
12.5°	4640.6	4496.4	4032.4	3698.4	3452.3	3350.3	3343.3	3367.9	3406.6	3389.0	3413.6
15°	4851.5	4580.8	3993.7	3512.1	3315.2	3287.1	3283.5	3357.4	3353.9	3353.9	3350.3
17.5°	5048.4	4665.2	3853.1	3350.3	3171.0	3192.1	3216.7	3213.2	3248.4	3262.5	3287.1
20°	5298.0	4763.6	3656.2	3188.6	3062.1	3055.0	3051.5	3055.0	3090.2	3111.3	3093.7
22.5°	5515.9	4784.7	3491.0	3033.9	2932.0	2903.9	2858.2	2903.9	2886.3	2893.3	2914.4
25°	5705.8	4788.2	3255.4	2917.9	2801.9	2738.6	2703.5	2700.0	2668.3	2664.8	2664.8
27.5°	5864.0	4668.7	3048.0	2756.2	2647.2	2587.5	2583.9	2545.3	2464.4	2411.7	2418.7
30°	5987.0	4577.3	2903.9	2615.6	2510.1	2499.6	2467.9	2380.0	2274.6	2207.8	2207.8
32.5°	6205.0	4394.5	2707.0	2471.4	2418.7	2404.7	2330.8	2253.5	2155.0	2091.8	2081.2
35°	6366.7	4225.7	2576.9	2348.4	2323.8	2295.7	2232.4	2148.0	2119.9	2105.8	2116.4
37.5°	6549.5	4035.9	2418.7	2242.9	2267.5	2214.8	2141.0	2102.3	2200.7	2176.1	2186.7
40°	6841.3	3902.3	2264.0	2179.7	2204.3	2144.5	2049.6	2035.5	2158.6	2070.7	2049.6
42.5°	7375.7	3898.8	2169.1	2084.7	2102.3	2056.6	1972.2	1965.2	2014.4	1909.0	1877.3
45°	8040.1	4021.8	2098.8	2014.4	2000.4	1993.3	1965.2	1933.6	1891.4	1754.3	1719.1
47.5°	8834.6	4222.2	2084.7	1909.0	1926.5	1986.3	1951.1	1870.3	1761.3	1673.4	1655.8
50°	9797.9	4637.0	2049.6	1831.6	1863.3	1958.2	1930.0	1817.6	1719.1	1662.9	1652.3
52.5°	10863.1	5160.9	2003.9	1712.1	1782.4	1933.6	1947.6	1842.2	1698.0	1648.8	1641.8
55°	12118.2	5934.3	1951.1	1582.0	1687.5	1909.0	1947.6	1771.8	1669.9	1669.9	1662.9
57.5°	14596.7	7326.5	1842.2	1462.5	1603.1	1863.3	1891.4	1775.4	1673.4	1673.4	1659.4
60°	18231.8	9499.1	1634.7	1371.1	1522.2	1800.0	1849.2	1722.6	1634.7	1655.8	1652.3
62.5°	21075.9	10160.0	1459.0	1283.2	1441.4	1684.0	1792.9	1666.4	1589.0	1666.4	1673.4
65°	21684.1	9492.0	1279.7	1188.3	1328.9	1571.5	1712.1	1585.5	1522.2	1673.4	1680.4
66°	21466.1	8971.7	1216.4	1160.1	1279.7	1515.2	1662.9	1557.4	1487.1	1666.4	1669.9
67.5°	20495.8	8191.3	1146.1	1100.4	1212.9	1434.4	1606.6	1518.7	1430.8	1645.3	1613.6
70°	18386.4	6946.8	1026.5	994.9	1118.0	1300.8	1476.5	1420.3	1342.9	1515.2	1459.0
72.5°	14160.7	5551.1	900.0	903.5	1009.0	1163.7	1346.5	1307.8	1241.0	1328.9	1293.7
75°	8623.7	3547.2	784.0	791.0	878.9	1033.6	1223.4	1195.3	1114.4	1163.7	1146.1
77.5°	3821.4	1757.8	660.9	675.0	745.3	910.5	1065.2	1019.5	935.1	945.7	938.7
80°	1483.6	833.2	537.9	555.5	601.2	727.7	882.4	840.2	766.4	752.3	745.3
82.5°	713.7	464.1	414.8	421.9	439.4	580.1	759.4	706.6	608.2	544.9	544.9
85°	358.6	288.3	291.8	267.2	291.8	393.7	513.3	428.9	355.1	316.4	323.4
87.5°	144.1	144.1	144.1	123.0	130.1	186.3	239.1	161.7	147.7	87.9	87.9
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)