

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: P478615

Luminaire Tested: **IFLD-L-SA8A-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478615
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

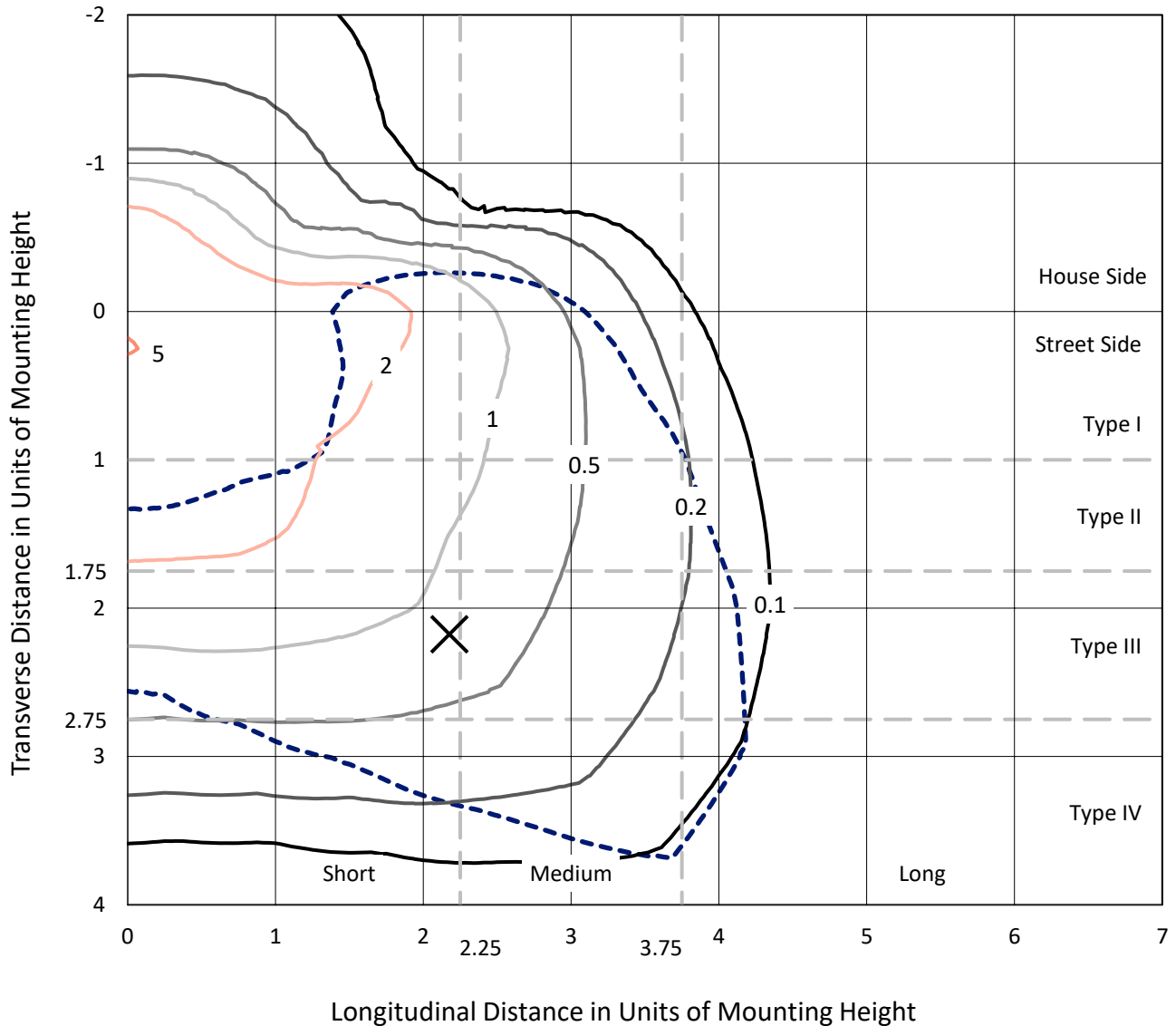
Lumens per Lamp: N/A
Luminaire Lumens: 35418.4 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

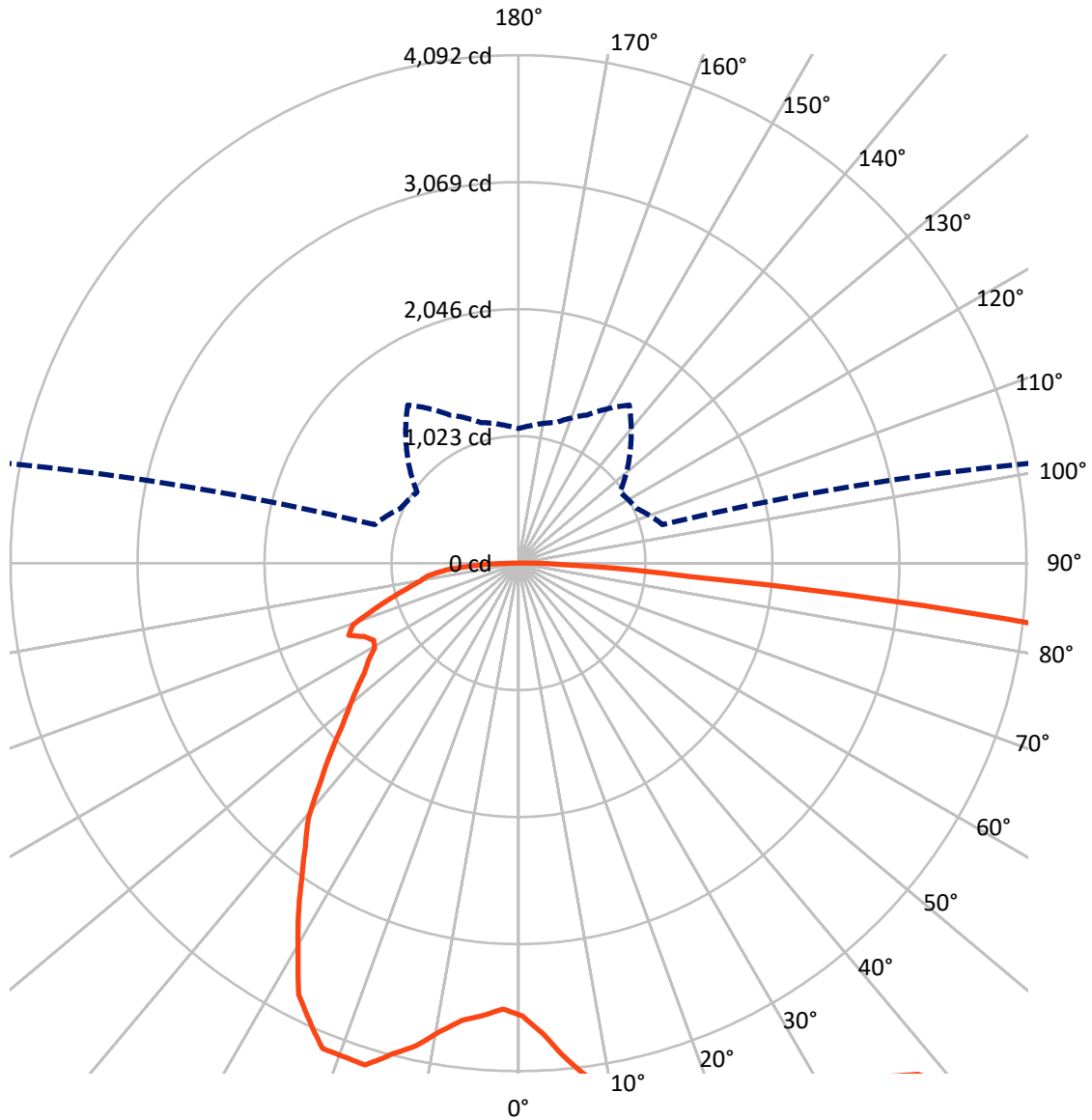
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	7884.4	0.0	7884.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27534.1	0.0	27534.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	35418.4	0.0	35418.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	1.1
10°-20°	1241.8	3.5
20°-30°	2097.0	5.9
30°-40°	2901.9	8.2
40°-50°	4150.9	11.7
50°-60°	6695.0	18.9
60°-70°	9874.2	27.9
70°-80°	7170.3	20.2
80°-90°	914.0	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°	35418.4	100.0
0°-180°	35418.4	100.0

Coefficient of Utilization



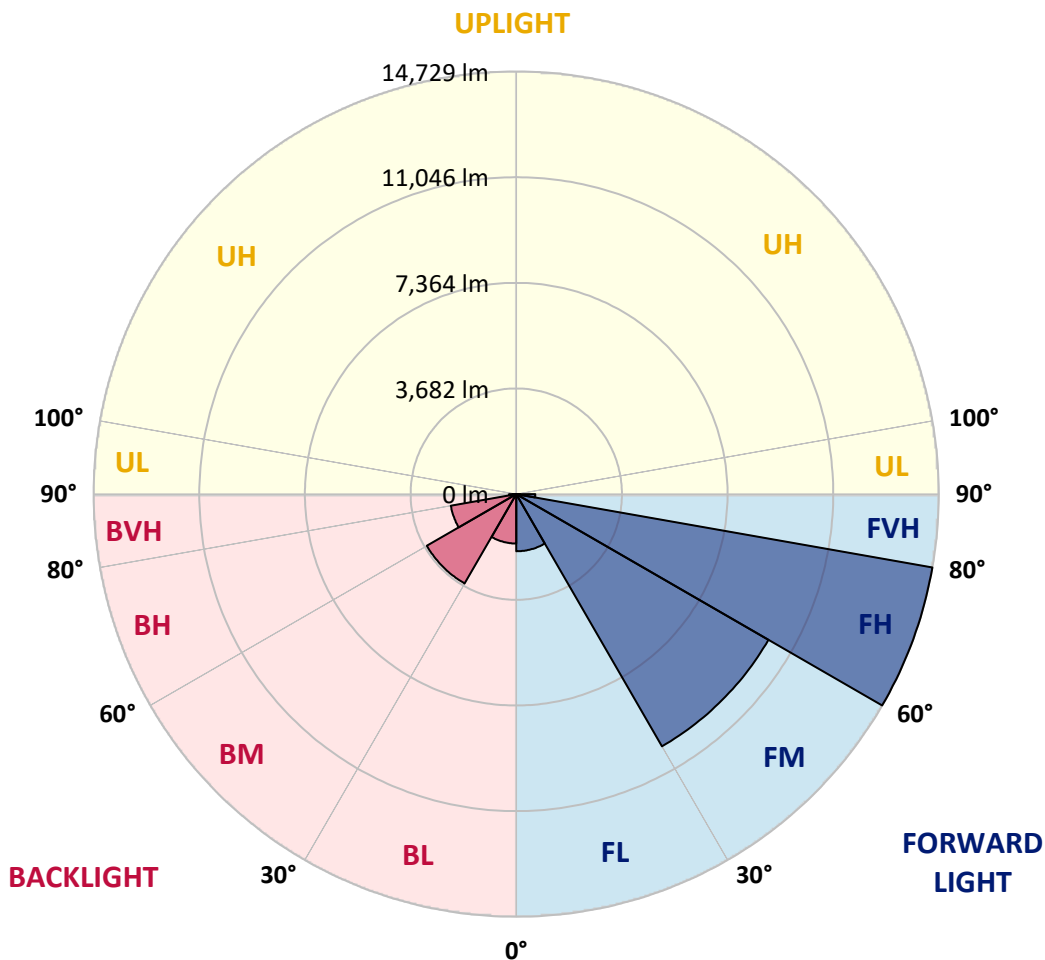
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.5	5.6			
FM (30°-60°)	10149.7	28.7			
FH (60°-80°)	14728.6	41.6			G5
FVH (80°-90°)	665.3	1.9			G4/750
BL (0°-30°)	1721.5	4.9	B3/2500		
BM (30°-60°)	3598.2	10.2	B3/5000		
BH (60°-80°)	2315.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	248.7	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°	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5
2.5°	3842.2	3865.2	3842.2	3838.4	3800.2	3773.5	3796.4	3762.0	3723.8	3708.6	3674.2
5°	4193.6	4197.4	4155.4	4159.2	4079.0	3995.0	4010.3	3907.2	3796.4	3754.4	3685.7
7.5°	4552.6	4510.6	4449.5	4430.4	4304.4	4212.7	4201.3	4109.6	3937.7	3842.2	3746.8
10°	4785.6	4800.9	4701.6	4617.6	4510.6	4399.9	4396.0	4224.2	4124.9	3983.6	3861.3
12.5°	4991.9	4995.7	4911.7	4778.0	4644.3	4506.8	4525.9	4449.5	4281.5	4147.8	4025.6
15°	5152.3	5129.4	5037.7	4915.5	4774.2	4667.2	4655.8	4590.8	4449.5	4338.8	4136.3
17.5°	5198.1	5186.6	5095.0	4965.1	4827.6	4747.4	4778.0	4671.0	4613.7	4514.4	4319.7
20°	5110.3	5083.5	5068.2	4923.1	4823.8	4816.2	4789.4	4812.4	4716.9	4625.2	4483.9
22.5°	4949.8	4938.4	4930.8	4816.2	4770.3	4804.7	4850.5	4884.9	4869.6	4781.8	4621.4
25°	4785.6	4839.1	4789.4	4736.0	4800.9	4888.7	4877.3	4988.0	4988.0	4961.3	4827.6
27.5°	4900.2	4865.8	4827.6	4800.9	4823.8	4961.3	4953.7	5087.3	5137.0	5087.3	4934.6
30°	5186.6	5152.3	5041.5	4923.1	4892.6	5041.5	5079.7	5198.1	5221.0	5098.8	4968.9
32.5°	5725.2	5706.1	5530.4	5182.8	4995.7	5079.7	5098.8	5232.5	5213.4	5137.0	5083.5
35°	6523.4	6458.5	6214.0	5625.9	5213.4	5129.4	5079.7	5186.6	5259.2	5221.0	5171.4
37.5°	7398.0	7325.5	7023.7	6279.0	5606.8	5263.0	5224.8	5312.7	5396.7	5377.6	5274.5
40°	8234.5	8234.5	7963.3	7096.3	6191.1	5587.7	5595.3	5496.0	5572.4	5538.0	5557.1
42.5°	9059.4	9028.9	8918.1	8055.0	6817.5	6130.0	6007.8	5759.5	5897.0	5885.6	5912.3
45°	9895.9	9873.0	9842.4	8948.7	7715.0	6863.3	6798.4	6351.5	6477.6	6424.1	6538.7
47.5°	10564.3	10591.0	10591.0	9945.5	8673.7	7841.1	7745.6	7039.0	7279.6	7306.4	7333.1
50°	11133.3	11144.8	11133.3	10896.5	9743.1	8960.1	8765.4	8047.3	8287.9	8498.0	8742.4
52.5°	11920.1	11935.4	11881.9	11790.3	11194.4	10136.5	9918.8	9120.6	9613.2	9834.8	10274.0
55°	12890.2	12775.7	12676.3	12745.1	12588.5	11431.2	11205.9	10228.2	10969.1	11263.2	12141.6
57.5°	13069.7	13169.0	13421.1	13967.3	14192.6	12691.6	12561.8	11587.8	12500.7	12756.6	14223.2
60°	13703.7	13539.5	14158.2	15342.2	15594.3	14333.9	14200.3	13077.4	14024.6	14291.9	16144.3
62.5°	14120.1	14112.4	15029.1	16434.6	17007.5	16037.4	15766.2	15013.8	15670.7	15930.4	18237.3
65°	13997.8	14108.6	15735.6	17076.2	18187.6	17973.8	17817.2	16679.0	17546.0	17523.1	19600.8
67.5°	12882.6	13195.8	15288.8	17538.4	19944.5	20334.1	20284.4	19020.3	19069.9	18584.8	20208.1
70°	11335.8	11228.8	13398.2	17057.1	20823.0	23133.7	23122.2	20761.9	20441.0	18817.8	18466.4
72°	8708.1	8589.7	10373.3	14647.1	20360.8	24252.7	24596.5	21968.8	20425.8	17851.5	15254.4
72.5°	7906.0	7802.9	9578.9	13787.8	19849.0	24543.0	24382.6	22014.6	20265.4	17397.0	14249.9
75°	3639.8	3521.4	4785.6	8440.7	15483.6	21747.3	22293.4	20601.5	17698.8	13848.9	8536.2
77.5°	1084.7	1050.3	1539.2	3406.8	8998.3	16022.1	16232.1	15544.7	12355.5	7585.2	3166.2
80°	603.5	607.3	794.4	1275.7	3956.8	9261.9	10018.1	9601.8	6061.3	2505.5	1054.1
82.5°	336.1	355.2	496.5	756.2	1818.0	4250.9	4575.6	4411.3	2192.3	1176.4	576.7
85°	175.7	183.3	259.7	404.8	1031.2	1344.4	1382.6	1481.9	1138.2	802.1	309.4
87.5°	68.7	68.7	95.5	168.1	381.9	416.3	374.3	454.5	653.1	519.4	152.8
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°	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5
2.5°	3704.7	3674.2	3670.4	3620.7	3636.0	3594.0	3597.8	3590.2	3594.0	3586.3	3567.3
5°	3685.7	3662.7	3597.8	3639.8	3601.6	3655.1	3697.1	3681.8	3693.3	3689.5	3693.3
7.5°	3712.4	3681.8	3674.2	3651.3	3685.7	3708.6	3742.9	3838.4	3830.8	3842.2	3865.2
10°	3792.6	3758.2	3735.3	3769.7	3750.6	3823.1	3861.3	3911.0	3998.8	4002.7	3956.8
12.5°	3949.2	3926.3	3880.4	3888.1	3953.0	3975.9	3998.8	4029.4	4086.7	4075.2	4117.2
15°	4128.7	4079.0	4052.3	4044.7	4059.9	4086.7	4082.9	4113.4	4144.0	4170.7	4159.2
17.5°	4258.6	4193.6	4201.3	4239.5	4235.6	4228.0	4178.3	4163.1	4178.3	4193.6	4186.0
20°	4392.2	4399.9	4342.6	4308.2	4292.9	4216.5	4178.3	4132.5	4086.7	4109.6	4144.0
22.5°	4560.3	4525.9	4441.9	4338.8	4262.4	4216.5	4098.1	4017.9	4017.9	4040.8	4029.4
25°	4751.2	4678.7	4533.5	4346.4	4250.9	4056.1	3972.1	3960.6	3930.1	3964.5	3979.7
27.5°	4900.2	4835.3	4636.7	4319.7	4056.1	3899.5	3849.9	3834.6	3884.3	3888.1	3949.2
30°	4961.3	4942.2	4651.9	4250.9	3857.5	3605.4	3574.9	3643.6	3697.1	3777.3	3781.1
32.5°	5041.5	5049.2	4674.9	4090.5	3597.8	3345.7	3299.9	3383.9	3536.7	3601.6	3651.3
35°	5175.2	5213.4	4655.8	3891.9	3322.8	3082.2	3074.6	3097.5	3246.4	3361.0	3425.9
37.5°	5408.2	5400.5	4651.9	3655.1	3105.1	2853.0	2791.9	2799.6	2898.9	2994.4	2982.9
40°	5721.4	5690.8	4640.5	3345.7	2822.5	2658.3	2555.1	2516.9	2509.3	2482.6	2490.2
42.5°	6149.1	6088.0	4636.7	3032.5	2566.6	2390.9	2318.3	2219.0	2146.5	2009.0	2016.6
45°	6744.9	6638.0	4537.4	2738.5	2314.5	2169.4	2058.6	1986.1	1829.5	1657.6	1657.6
47.5°	7665.4	7317.8	4541.2	2413.8	2070.1	1951.7	1875.3	1749.3	1581.2	1443.7	1428.4
50°	9021.3	8226.8	4411.3	2157.9	1871.5	1791.3	1711.1	1565.9	1405.5	1310.0	1321.5
52.5°	10770.5	9582.7	4407.5	1928.8	1714.9	1657.6	1569.7	1439.9	1321.5	1260.4	1237.5
55°	12855.9	11377.8	4545.0	1741.6	1554.5	1523.9	1485.7	1378.8	1264.2	1210.7	1206.9
57.5°	14990.9	13130.8	4766.5	1607.9	1417.0	1439.9	1413.2	1329.1	1237.5	1176.4	1168.7
60°	16889.1	14521.1	4319.7	1447.5	1294.8	1344.4	1382.6	1310.0	1260.4	1256.6	1229.8
62.5°	18321.3	15116.9	3284.6	1325.3	1229.8	1321.5	1424.6	1470.4	1447.5	1478.1	1481.9
65°	18844.6	14757.9	2261.0	1260.4	1180.2	1375.0	1604.1	1588.8	1455.2	1397.9	1428.4
67.5°	18111.3	13302.7	1676.7	1184.0	1145.8	1485.7	1707.2	1516.3	1313.8	1306.2	1283.3
70°	15575.2	11274.7	1367.3	1103.8	1088.5	1424.6	1661.4	1405.5	1237.5	1187.8	1164.9
72°	12409.0	8780.6	1199.3	1046.5	996.8	1271.8	1554.5	1317.7	1172.5	1111.4	1084.7
72.5°	11328.1	8139.0	1176.4	1019.8	977.7	1237.5	1501.0	1290.9	1157.3	1103.8	1061.8
75°	6214.0	4166.9	1035.0	935.7	825.0	1069.4	1390.2	1210.7	1092.3	1015.9	1008.3
77.5°	2310.7	1615.6	893.7	828.8	714.2	924.3	1264.2	1149.6	993.0	897.5	878.4
80°	886.1	851.7	729.5	698.9	599.6	809.7	1164.9	1031.2	844.1	748.6	718.0
82.5°	538.5	496.5	553.8	546.2	458.3	737.1	1096.1	966.3	748.6	607.3	588.2
85°	294.1	294.1	385.8	370.5	320.8	588.2	828.8	641.6	473.6	389.6	397.2
87.5°	129.9	152.8	206.2	194.8	175.7	332.3	404.8	339.9	236.8	160.4	171.9
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)