

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: P478342

Luminaire Tested: **IFLD-L-SA8A-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478342
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

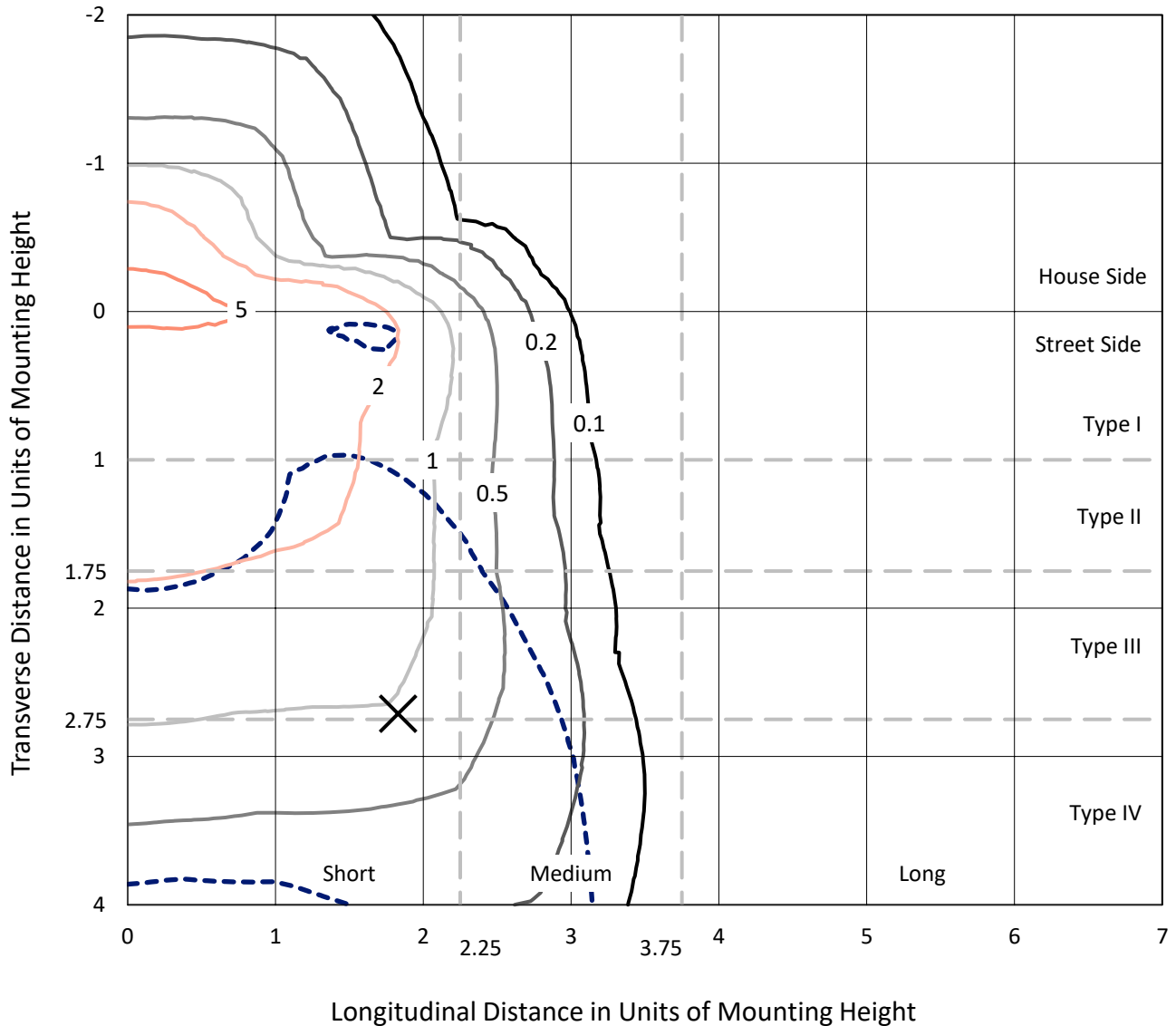
Lumens per Lamp: N/A
Luminaire Lumens: 27886.7 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

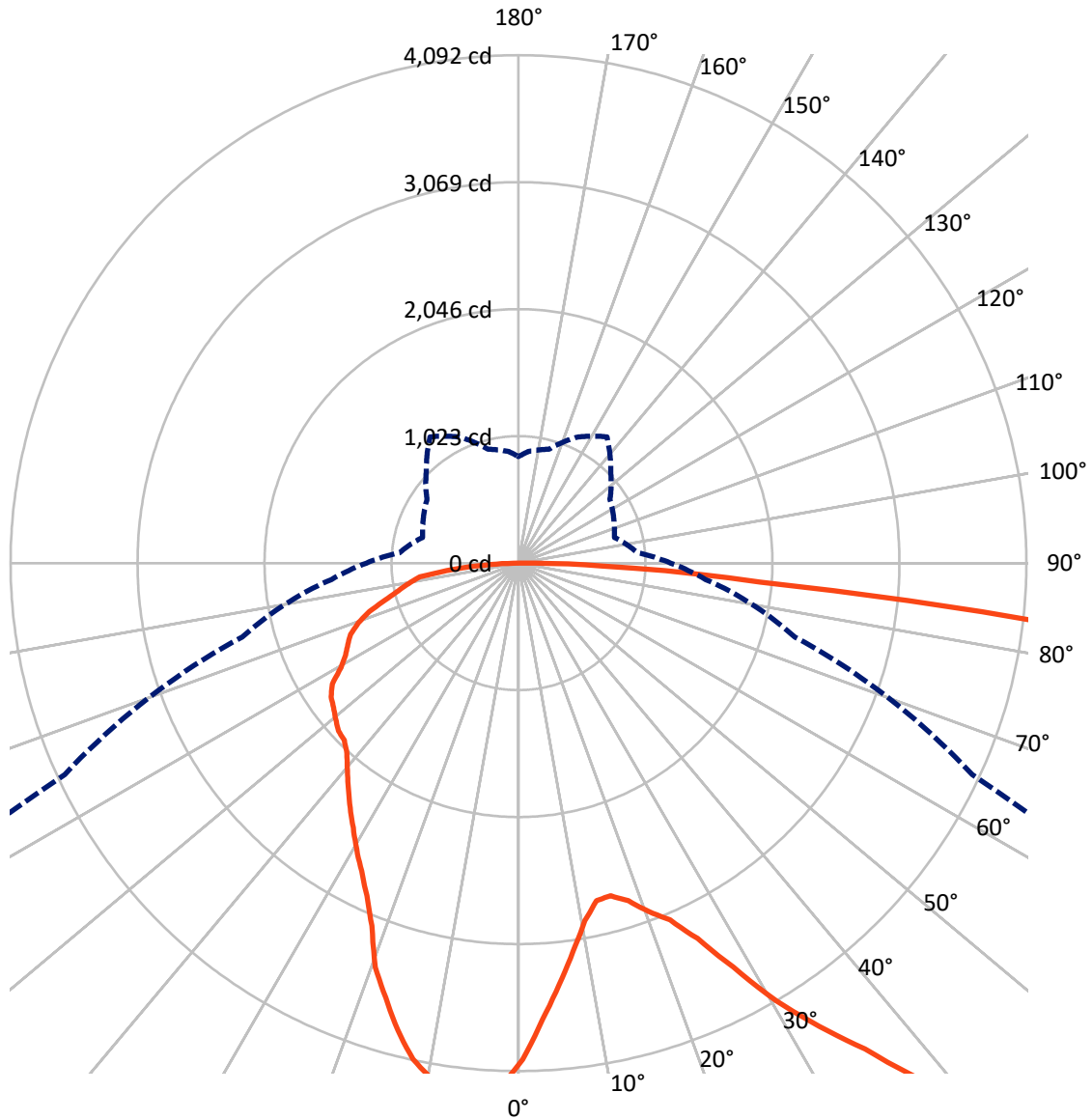
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6023.9	0.0	6023.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21862.8	0.0	21862.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	27886.7	0.0	27886.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	1.3
10°-20°	1032.7	3.7
20°-30°	1699.6	6.1
30°-40°	2541.8	9.1
40°-50°	3768.1	13.5
50°-60°	5430.2	19.5
60°-70°	6929.6	24.8
70°-80°	5392.4	19.3
80°-90°	723.4	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°	27886.7	100.0
0°-180°	27886.7	100.0

Coefficient of Utilization



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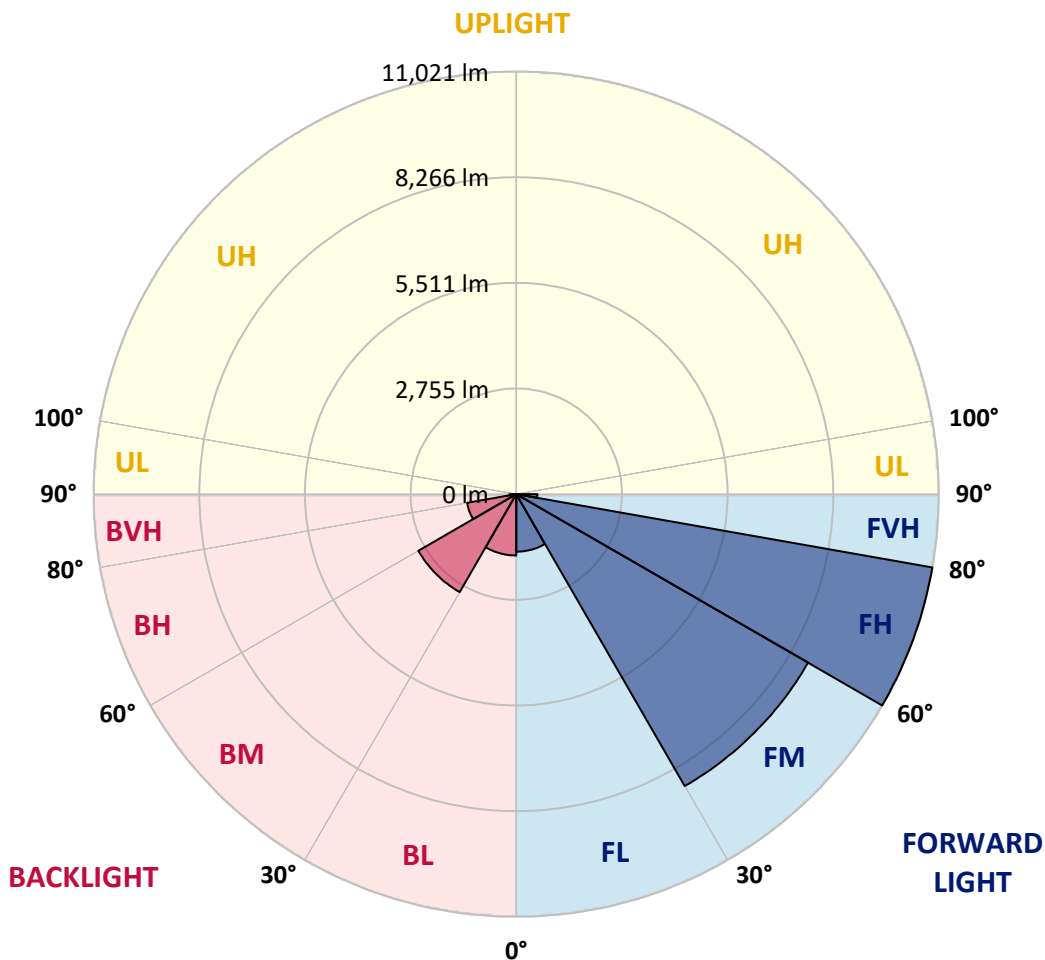
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1500.8	5.4			
FM (30°-60°)	8790.1	31.5			
FH (60°-80°)	11021.3	39.5			G4/12000
FVH (80°-90°)	550.6	2.0			G4/750
BL (0°-30°)	1600.5	5.7	B3/2500		
BM (30°-60°)	2949.9	10.6	B3/5000		
BH (60°-80°)	1300.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	172.8	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°	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0
2.5°	3582.3	3594.1	3632.4	3641.2	3682.5	3658.9	3709.1	3797.5	3847.6	3921.3	4009.8
5°	3299.2	3249.1	3272.7	3364.1	3411.3	3423.1	3476.1	3626.5	3720.8	3829.9	3995.0
7.5°	2966.1	2957.2	3004.4	3063.4	3157.7	3166.6	3284.5	3417.2	3611.8	3853.5	4048.1
10°	2739.0	2777.4	2803.9	2865.8	2930.7	2930.7	3081.0	3311.0	3532.1	3765.1	4059.9
12.5°	2727.2	2703.7	2709.6	2742.0	2789.2	2848.1	2989.6	3196.0	3476.1	3747.4	4110.0
15°	2765.6	2774.4	2721.3	2762.6	2780.3	2801.0	2957.2	3190.1	3440.7	3809.3	4195.5
17.5°	2969.0	2918.9	2836.3	2798.0	2859.9	2859.9	2966.1	3148.9	3446.6	3841.7	4319.4
20°	3128.2	3128.2	2992.6	2951.3	2995.5	2986.7	3060.4	3196.0	3476.1	3906.6	4457.9
22.5°	3396.5	3434.9	3210.8	3125.3	3122.3	3145.9	3210.8	3325.8	3558.7	3998.0	4590.6
25°	3782.8	3791.6	3532.1	3443.7	3349.3	3387.7	3399.5	3514.5	3632.4	4104.1	4741.0
27.5°	4213.2	4207.3	3968.5	3747.4	3685.5	3694.3	3629.4	3706.1	3741.5	4136.6	4956.2
30°	4690.9	4637.8	4457.9	4145.4	4095.3	4039.3	3897.7	3894.8	3968.5	4319.4	5254.0
32.5°	5003.4	4935.6	4811.7	4587.7	4449.1	4455.0	4230.9	4228.0	4163.1	4519.9	5513.5
35°	5310.0	5206.8	5174.4	4944.4	4805.8	4820.6	4640.7	4617.1	4499.2	4823.5	5941.0
37.5°	5678.6	5587.2	5637.3	5463.3	5292.3	5221.6	5139.0	5109.5	4956.2	5251.0	6524.7
40°	6085.4	6056.0	6023.5	5938.0	5834.8	5840.7	5752.3	5722.8	5495.8	5767.0	7084.9
42.5°	6633.8	6521.8	6353.7	6409.8	6462.8	6518.8	6489.4	6412.7	6176.8	6291.8	7710.0
45°	7143.9	6996.5	6686.9	6704.6	6922.8	6967.0	7323.8	7314.9	6840.2	6958.2	8420.5
47.5°	7488.9	7421.0	7235.3	7214.7	7527.2	7524.2	8167.0	8167.0	7539.0	7621.5	9184.2
50°	8001.9	7825.0	7745.4	7848.6	8007.8	8116.9	9027.9	9083.9	8226.0	8314.4	10183.7
52.5°	8603.3	8382.2	8181.7	8447.1	8730.1	8800.9	9880.0	9856.4	8753.7	9119.3	11354.2
55°	9101.6	8989.6	8851.0	9004.3	9467.2	9555.7	10735.0	10516.8	9281.5	9785.6	11917.3
57.5°	9682.5	9750.3	9779.7	9741.4	10292.8	10431.3	11710.9	11085.9	9735.5	10233.8	12247.5
60°	10558.1	10599.4	10637.7	10729.1	11312.9	11507.5	12483.4	11799.4	10021.5	10493.3	12274.1
62.5°	11890.8	11731.6	11817.1	12132.5	12601.3	12822.5	13621.5	12300.6	10239.7	10649.5	11407.2
65°	13415.1	13199.9	13111.4	13518.3	14733.0	14556.1	15042.6	12675.0	9924.2	10065.7	9673.6
67.5°	14960.0	14983.6	14756.6	15573.3	17062.2	17062.2	16363.5	12854.9	9069.2	8158.1	6784.2
70°	16186.6	16260.3	16384.1	17967.4	20326.1	20682.8	17999.8	12117.8	7326.7	5430.9	3709.1
72.5°	16168.9	15947.7	16581.6	19497.6	23292.1	22994.3	18341.8	9582.2	4572.9	2659.4	1701.2
73°	15806.2	15620.5	16313.3	19482.8	23413.0	23132.9	18091.2	8833.3	4033.4	2305.6	1512.5
75°	12908.0	12571.9	13751.2	17646.0	21661.7	21876.9	15369.9	5761.1	2211.3	1421.1	1064.4
77.5°	5884.9	6032.4	7568.5	11837.7	16693.7	16947.2	10104.1	2491.4	1211.8	996.5	784.3
80°	1889.9	1984.3	2945.4	5884.9	10463.8	10920.8	4670.2	1132.2	863.9	763.6	586.7
82.5°	722.4	719.4	1235.4	2447.1	4959.2	5251.0	1707.1	689.9	642.7	563.1	415.7
85°	253.6	265.4	465.8	967.1	1951.8	2043.2	592.6	383.3	445.2	377.4	238.8
87.5°	88.5	91.4	165.1	350.9	672.2	710.6	165.1	153.3	221.1	218.2	120.9
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°	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0	3998.0
2.5°	4039.3	4065.8	4074.6	4180.8	4180.8	4180.8	4222.1	4222.1	4210.3	4180.8	4251.6
5°	4057.0	4104.1	4195.5	4286.9	4310.5	4331.2	4387.2	4340.0	4357.7	4328.2	4354.7
7.5°	4107.1	4171.9	4343.0	4399.0	4360.6	4404.9	4345.9	4313.5	4281.0	4292.8	4251.6
10°	4192.6	4275.1	4354.7	4457.9	4384.2	4340.0	4219.1	4189.6	4086.4	4051.1	4083.5
12.5°	4298.7	4399.0	4534.6	4496.3	4354.7	4228.0	4098.2	3974.4	3912.5	3824.0	3847.6
15°	4404.9	4519.9	4540.5	4475.6	4298.7	4139.5	3903.6	3729.7	3667.8	3588.2	3629.4
17.5°	4519.9	4628.9	4593.6	4425.5	4186.7	3944.9	3676.6	3505.6	3375.9	3325.8	3325.8
20°	4690.9	4743.9	4687.9	4343.0	4051.1	3732.6	3473.2	3278.6	3148.9	3128.2	3095.8
22.5°	4823.5	4909.0	4658.4	4222.1	3853.5	3455.5	3157.7	3084.0	3045.7	3013.2	2972.0
25°	4994.5	4991.6	4605.4	4110.0	3514.5	3125.3	2945.4	2939.5	2921.8	2910.0	2966.1
27.5°	5156.7	5088.9	4543.4	3832.9	3163.6	2874.7	2777.4	2842.2	2868.8	2851.1	2874.7
30°	5413.2	5301.2	4455.0	3538.0	2854.0	2621.1	2638.8	2727.2	2771.5	2798.0	2762.6
32.5°	5684.5	5513.5	4272.2	3231.4	2579.8	2461.9	2503.2	2594.6	2647.6	2677.1	2709.6
35°	6076.6	5678.6	4086.4	2830.4	2382.3	2364.6	2388.2	2438.3	2515.0	2535.6	2544.4
37.5°	6560.1	5929.2	3835.8	2509.1	2229.0	2249.6	2273.2	2290.9	2293.8	2332.2	2317.4
40°	7043.7	6141.5	3470.2	2202.4	2069.8	2181.8	2170.0	2137.6	2111.0	2075.7	2066.8
42.5°	7468.2	6327.2	3063.4	1943.0	1928.2	2111.0	2072.7	1990.2	1928.2	1901.7	1857.5
45°	7945.9	6589.6	2653.5	1780.8	1819.1	2025.5	2013.7	1887.0	1807.4	1713.0	1701.2
47.5°	8565.0	6863.8	2261.4	1612.8	1716.0	1993.1	1999.0	1836.8	1721.8	1595.1	1577.4
50°	9358.1	7258.9	1963.6	1542.0	1654.0	1945.9	1954.8	1769.0	1618.7	1488.9	1477.1
52.5°	10118.8	7662.8	1716.0	1432.9	1612.8	1889.9	1910.5	1707.1	1533.2	1371.0	1379.8
55°	10502.1	7515.4	1503.7	1353.3	1518.4	1798.5	1875.2	1662.9	1403.4	1291.4	1288.4
57.5°	10587.6	7152.7	1335.6	1270.7	1438.8	1701.2	1816.2	1530.2	1344.5	1250.1	1238.3
60°	10307.5	6518.8	1202.9	1182.3	1338.6	1601.0	1680.6	1459.4	1285.5	1208.8	1191.1
62.5°	9617.6	5861.4	1111.5	1141.0	1253.1	1491.9	1595.1	1409.3	1229.5	1176.4	1138.1
65°	7886.9	4820.6	1037.8	1061.4	1164.6	1385.7	1542.0	1353.3	1179.3	1129.2	1126.3
67.5°	5463.3	3322.8	978.9	1023.1	1093.8	1309.1	1488.9	1291.4	1114.5	1096.8	1073.2
70°	2798.0	1772.0	902.2	937.6	1017.2	1211.8	1394.6	1226.5	1046.7	1043.7	1014.2
72.5°	1418.2	1037.8	813.8	866.8	922.8	1085.0	1276.6	1141.0	961.2	928.7	881.6
73°	1226.5	961.2	799.0	846.2	899.3	1049.6	1241.3	1120.4	949.4	902.2	858.0
75°	893.4	757.7	716.5	763.6	804.9	946.4	1123.3	1026.0	872.7	822.6	781.3
77.5°	669.3	583.8	595.6	648.6	684.0	816.7	999.5	928.7	790.2	722.4	704.7
80°	492.4	445.2	492.4	542.5	569.0	719.4	911.0	804.9	666.3	589.7	574.9
82.5°	350.9	324.3	380.3	412.8	424.6	595.6	819.6	642.7	504.2	403.9	371.5
85°	200.5	197.5	256.5	253.6	262.4	347.9	539.6	427.5	324.3	247.7	241.8
87.5°	88.5	97.3	129.7	103.2	109.1	165.1	230.0	159.2	132.7	73.7	56.0
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)