

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: P478069

Luminaire Tested: **IFLD-L-SA8A-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478069  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

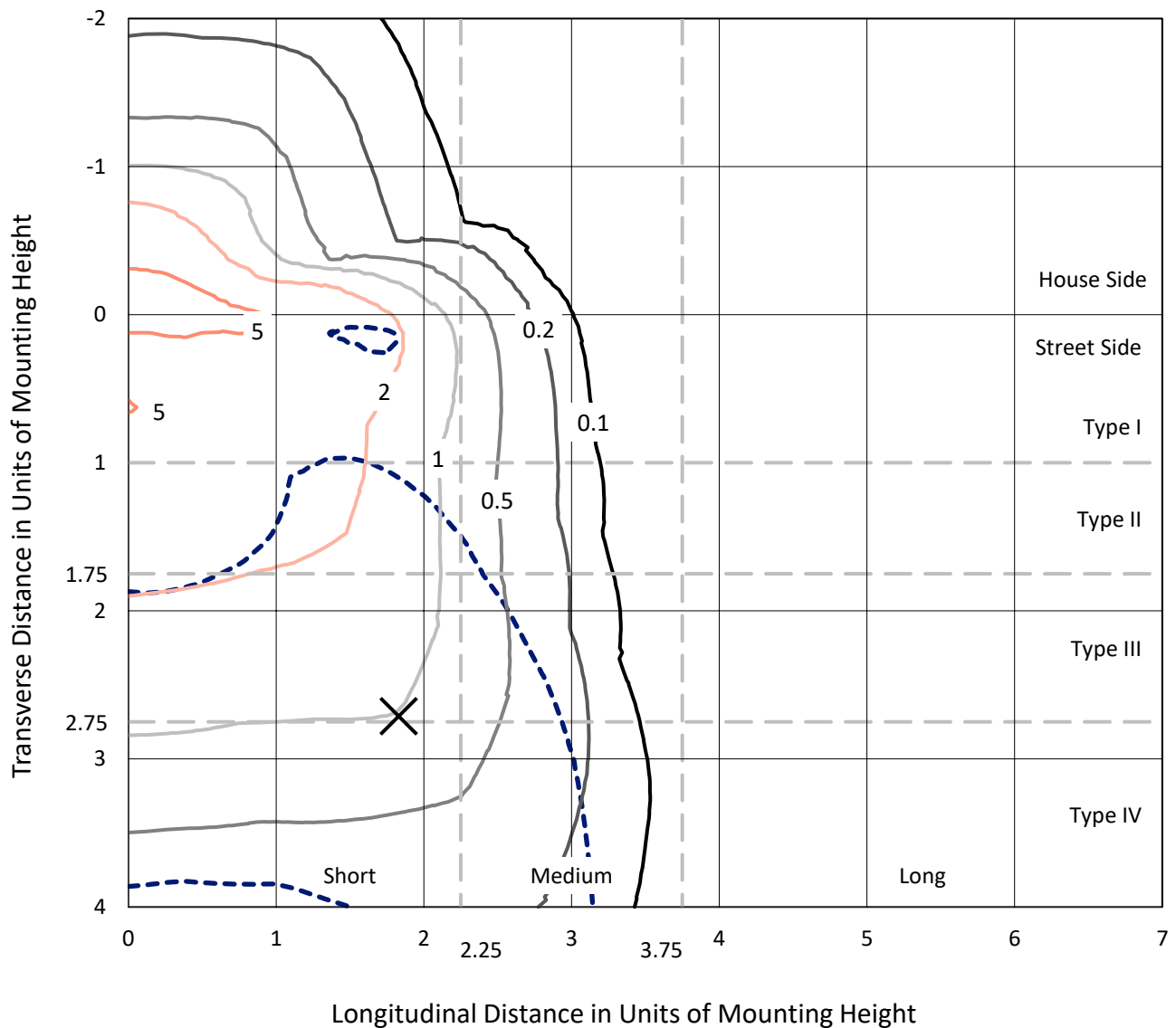
Lumens per Lamp: N/A  
Luminaire Lumens: 29350.1 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

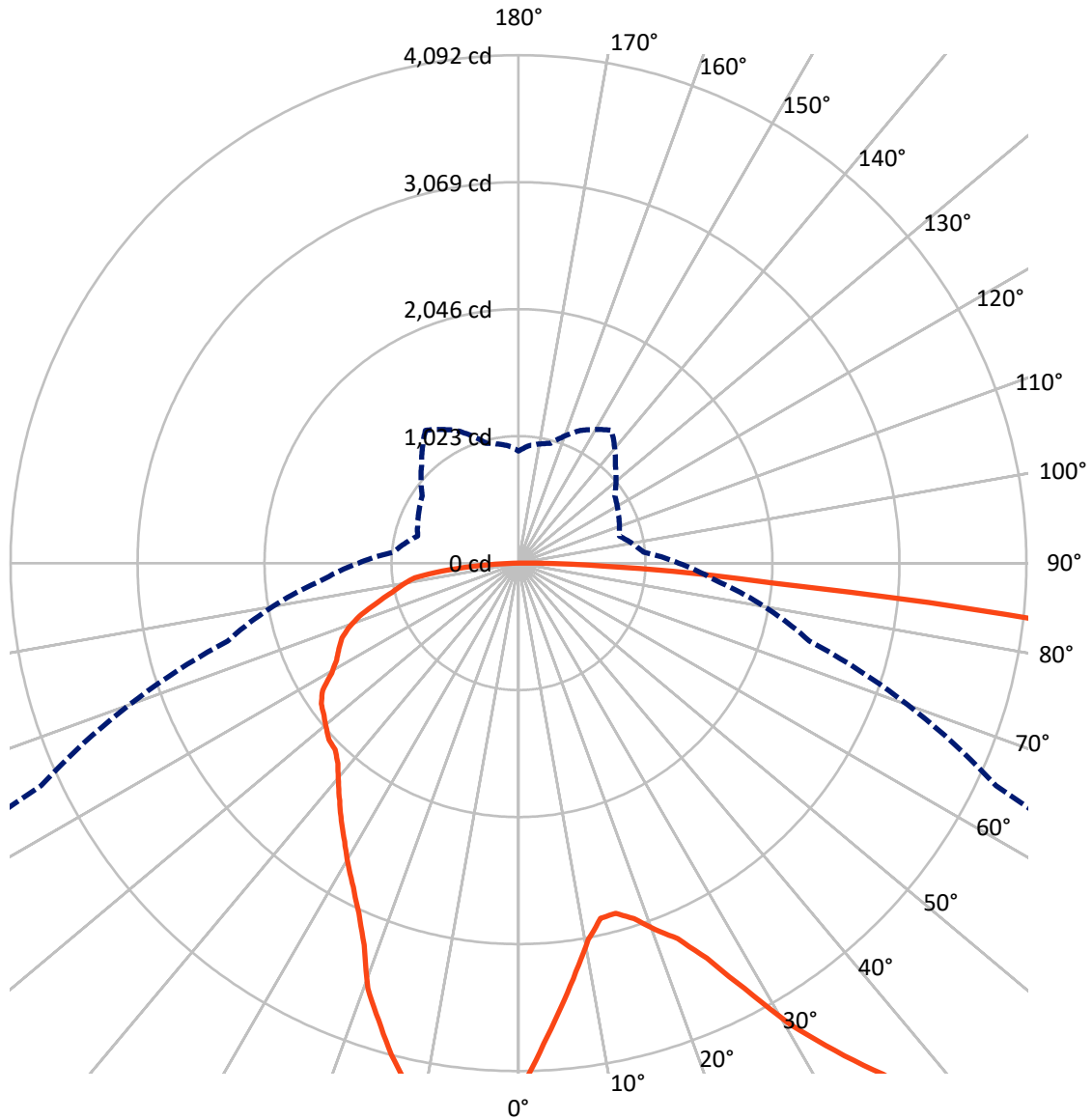
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	6340.0	0.0	6340.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	23010.1	0.0	23010.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	29350.1	0.0	29350.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.4	1.3
10°-20°	1086.9	3.7
20°-30°	1788.8	6.1
30°-40°	2675.1	9.1
40°-50°	3965.8	13.5
50°-60°	5715.1	19.5
60°-70°	7293.3	24.8
70°-80°	5675.4	19.3
80°-90°	761.4	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°	29350.1	100.0
0°-180°	29350.1	100.0

**Coefficient of Utilization**



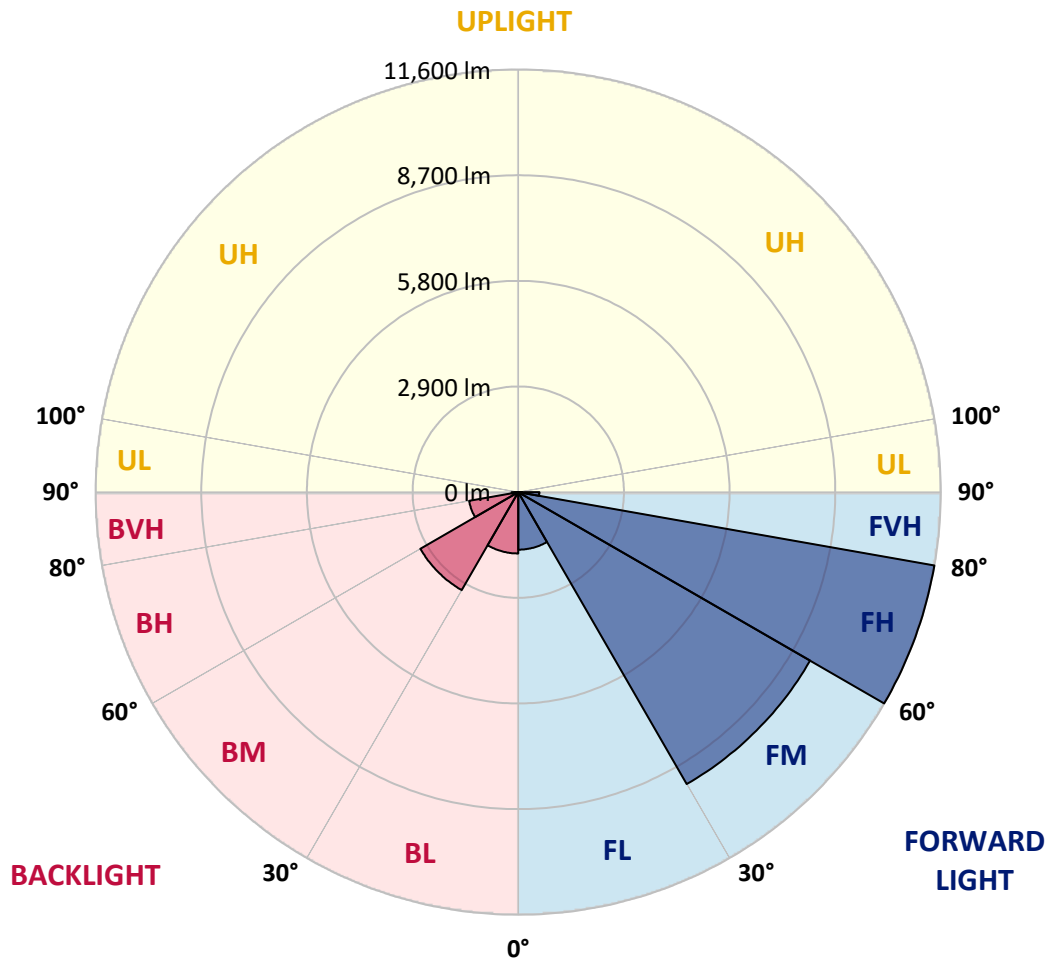
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.5	5.4			
FM (30°-60°)	9251.4	31.5			
FH (60°-80°)	11599.7	39.5			G4/12000
FVH (80°-90°)	579.5	2.0			G4/750
BL (0°-30°)	1684.5	5.7	B3/2500		
BM (30°-60°)	3104.7	10.6	B3/5000		
BH (60°-80°)	1368.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	181.8	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°	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8
2.5°	3770.3	3782.7	3823.0	3832.3	3875.8	3850.9	3903.7	3996.8	4049.5	4127.1	4220.2
5°	3472.4	3419.6	3444.4	3540.6	3590.3	3602.7	3658.6	3816.8	3916.1	4030.9	4204.7
7.5°	3121.7	3112.4	3162.1	3224.1	3323.4	3332.7	3456.9	3596.5	3801.3	4055.8	4260.6
10°	2882.8	2923.1	2951.0	3016.2	3084.5	3084.5	3242.7	3484.8	3717.5	3962.7	4273.0
12.5°	2870.4	2845.5	2851.7	2885.9	2935.5	2997.6	3146.5	3363.8	3658.6	3944.0	4325.7
15°	2910.7	2920.0	2864.2	2907.6	2926.2	2947.9	3112.4	3357.6	3621.3	4009.2	4415.7
17.5°	3124.8	3072.1	2985.2	2944.8	3010.0	3010.0	3121.7	3314.1	3627.5	4043.3	4546.0
20°	3292.4	3292.4	3149.6	3106.2	3152.7	3143.4	3221.0	3363.8	3658.6	4111.6	4691.9
22.5°	3574.8	3615.1	3379.3	3289.3	3286.2	3311.0	3379.3	3500.3	3745.4	4207.8	4831.5
25°	3981.3	3990.6	3717.5	3624.4	3525.1	3565.5	3577.9	3698.9	3823.0	4319.5	4989.8
27.5°	4434.3	4428.1	4176.8	3944.0	3878.9	3888.2	3819.9	3900.6	3937.8	4353.6	5216.3
30°	4937.0	4881.2	4691.9	4363.0	4310.2	4251.2	4102.3	4099.2	4176.8	4546.0	5529.7
32.5°	5266.0	5194.6	5064.3	4828.4	4682.6	4688.8	4452.9	4449.8	4381.6	4757.1	5802.8
35°	5588.7	5480.1	5445.9	5203.9	5058.1	5073.6	4884.3	4859.5	4735.3	5076.7	6252.7
37.5°	5976.6	5880.4	5933.1	5750.0	5570.1	5495.6	5408.7	5377.7	5216.3	5526.6	6867.2
40°	6404.8	6373.8	6339.6	6249.6	6141.0	6147.2	6054.1	6023.1	5784.2	6069.7	7456.7
42.5°	6982.0	6864.1	6687.2	6746.1	6802.0	6861.0	6829.9	6749.2	6501.0	6622.0	8114.6
45°	7518.8	7363.7	7037.8	7056.4	7286.1	7332.6	7708.1	7698.8	7199.2	7323.3	8862.5
47.5°	7881.9	7810.5	7615.0	7593.3	7922.2	7919.1	8595.6	8595.6	7934.6	8021.5	9666.2
50°	8421.8	8235.6	8151.8	8260.5	8428.0	8542.8	9501.7	9560.6	8657.6	8750.7	10718.1
52.5°	9054.8	8822.1	8611.1	8890.4	9188.3	9262.8	10398.5	10373.7	9213.1	9597.9	11950.0
55°	9579.3	9461.3	9315.5	9476.9	9964.1	10057.1	11298.4	11068.8	9768.6	10299.2	12542.7
57.5°	10190.6	10261.9	10293.0	10252.6	10832.9	10978.8	12325.5	11667.7	10246.4	10770.9	12890.3
60°	11112.2	11155.6	11196.0	11292.2	11906.6	12111.4	13138.5	12418.6	10547.4	11043.9	12918.2
62.5°	12514.8	12347.2	12437.2	12769.3	13262.6	13495.4	14336.3	12946.1	10777.1	11208.4	12005.9
65°	14119.1	13892.6	13799.5	14227.7	15506.2	15320.0	15832.0	13340.2	10445.0	10594.0	10181.3
67.5°	15745.1	15770.0	15531.0	16390.6	17957.6	17957.6	17222.2	13529.5	9545.1	8586.3	7140.2
70°	17036.0	17113.6	17243.9	18910.3	21392.8	21768.2	18944.4	12753.7	7711.2	5715.9	3903.7
72.5°	17017.4	16784.7	17451.8	20520.8	24514.5	24201.1	19304.4	10085.1	4812.9	2799.0	1790.5
73°	16635.7	16440.2	17169.4	20505.3	24641.7	24346.9	19040.6	9296.9	4245.0	2426.6	1591.9
75°	13585.4	13231.6	14472.9	18572.0	22798.5	23025.0	16176.5	6063.5	2327.3	1495.7	1120.2
77.5°	6193.8	6348.9	7965.7	12458.9	17569.7	17836.6	10634.3	2622.1	1275.4	1048.8	825.4
80°	1989.1	2088.4	3100.0	6193.8	11012.9	11493.9	4915.3	1191.6	909.2	803.7	617.5
82.5°	760.3	757.2	1300.2	2575.6	5219.4	5526.6	1796.7	726.1	676.5	592.7	437.5
85°	266.9	279.3	490.3	1017.8	2054.3	2150.4	623.7	403.4	468.6	397.2	251.4
87.5°	93.1	96.2	173.8	369.3	707.5	747.8	173.8	161.4	232.7	229.6	127.2
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°	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8	4207.8
2.5°	4251.2	4279.2	4288.5	4400.2	4400.2	4400.2	4443.6	4443.6	4431.2	4400.2	4474.7
5°	4269.9	4319.5	4415.7	4511.9	4536.7	4558.5	4617.4	4567.8	4586.4	4555.3	4583.3
7.5°	4322.6	4390.9	4570.9	4629.8	4589.5	4636.0	4574.0	4539.8	4505.7	4518.1	4474.7
10°	4412.6	4499.5	4583.3	4691.9	4614.3	4567.8	4440.5	4409.5	4300.9	4263.7	4297.8
12.5°	4524.3	4629.8	4772.6	4732.2	4583.3	4449.8	4313.3	4183.0	4117.8	4024.7	4049.5
15°	4636.0	4757.1	4778.8	4710.5	4524.3	4356.8	4108.5	3925.4	3860.3	3776.5	3819.9
17.5°	4757.1	4871.9	4834.6	4657.8	4406.4	4151.9	3869.6	3689.6	3553.0	3500.3	3500.3
20°	4937.0	4992.9	4933.9	4570.9	4263.7	3928.5	3655.5	3450.6	3314.1	3292.4	3258.3
22.5°	5076.7	5166.7	4902.9	4443.6	4055.8	3636.8	3323.4	3245.8	3205.5	3171.4	3127.9
25°	5256.7	5253.5	4847.0	4325.7	3698.9	3289.3	3100.0	3093.8	3075.2	3062.8	3121.7
27.5°	5427.3	5355.9	4781.9	4034.0	3329.6	3025.5	2923.1	2991.4	3019.3	3000.7	3025.5
30°	5697.3	5579.4	4688.8	3723.7	3003.8	2758.7	2777.3	2870.4	2916.9	2944.8	2907.6
32.5°	5982.8	5802.8	4496.4	3401.0	2715.2	2591.1	2634.5	2730.7	2786.6	2817.6	2851.7
35°	6395.5	5976.6	4300.9	2979.0	2507.3	2488.7	2513.5	2566.3	2646.9	2668.7	2678.0
37.5°	6904.4	6240.3	4037.1	2640.7	2345.9	2367.7	2392.5	2411.1	2414.2	2454.6	2439.0
40°	7413.3	6463.8	3652.3	2318.0	2178.4	2296.3	2283.9	2249.7	2221.8	2184.6	2175.3
42.5°	7860.2	6659.3	3224.1	2044.9	2029.4	2221.8	2181.5	2094.6	2029.4	2001.5	1955.0
45°	8362.9	6935.4	2792.8	1874.3	1914.6	2131.8	2119.4	1986.0	1902.2	1802.9	1790.5
47.5°	9014.5	7224.0	2380.1	1697.4	1806.0	2097.7	2103.9	1933.2	1812.2	1678.8	1660.2
50°	9849.2	7639.8	2066.7	1622.9	1740.8	2048.0	2057.4	1861.9	1703.6	1567.1	1554.7
52.5°	10649.8	8065.0	1806.0	1508.1	1697.4	1989.1	2010.8	1796.7	1613.6	1442.9	1452.3
55°	11053.2	7909.8	1582.6	1424.3	1598.1	1892.9	1973.6	1750.1	1477.1	1359.2	1356.1
57.5°	11143.2	7528.1	1405.7	1337.4	1514.3	1790.5	1911.5	1610.5	1415.0	1315.7	1303.3
60°	10848.4	6861.0	1266.1	1244.3	1408.8	1685.0	1768.8	1536.0	1353.0	1272.3	1253.7
62.5°	10122.3	6169.0	1169.9	1200.9	1318.8	1570.2	1678.8	1483.3	1294.0	1238.1	1197.8
65°	8300.8	5073.6	1092.3	1117.1	1225.7	1458.5	1622.9	1424.3	1241.2	1188.5	1185.4
67.5°	5750.0	3497.2	1030.2	1076.8	1151.2	1377.8	1567.1	1359.2	1173.0	1154.4	1129.5
70°	2944.8	1865.0	949.5	986.8	1070.6	1275.4	1467.8	1290.9	1101.6	1098.5	1067.5
72.5°	1492.6	1092.3	856.5	912.3	971.3	1141.9	1343.6	1200.9	1011.6	977.5	927.8
73°	1290.9	1011.6	840.9	890.6	946.4	1104.7	1306.4	1179.2	999.2	949.5	903.0
75°	940.2	797.5	754.1	803.7	847.1	996.1	1182.3	1079.9	918.5	865.8	822.3
77.5°	704.4	614.4	626.8	682.7	719.9	859.6	1052.0	977.5	831.6	760.3	741.6
80°	518.2	468.6	518.2	571.0	598.9	757.2	958.9	847.1	701.3	620.6	605.1
82.5°	369.3	341.3	400.3	434.4	446.8	626.8	862.7	676.5	530.6	425.1	391.0
85°	211.0	207.9	270.0	266.9	276.2	366.2	567.9	449.9	341.3	260.7	254.5
87.5°	93.1	102.4	136.5	108.6	114.8	173.8	242.0	167.6	139.6	77.6	59.0
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)