

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: P478140

Luminaire Tested: **IFLD-M-SA4D-735-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478140  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

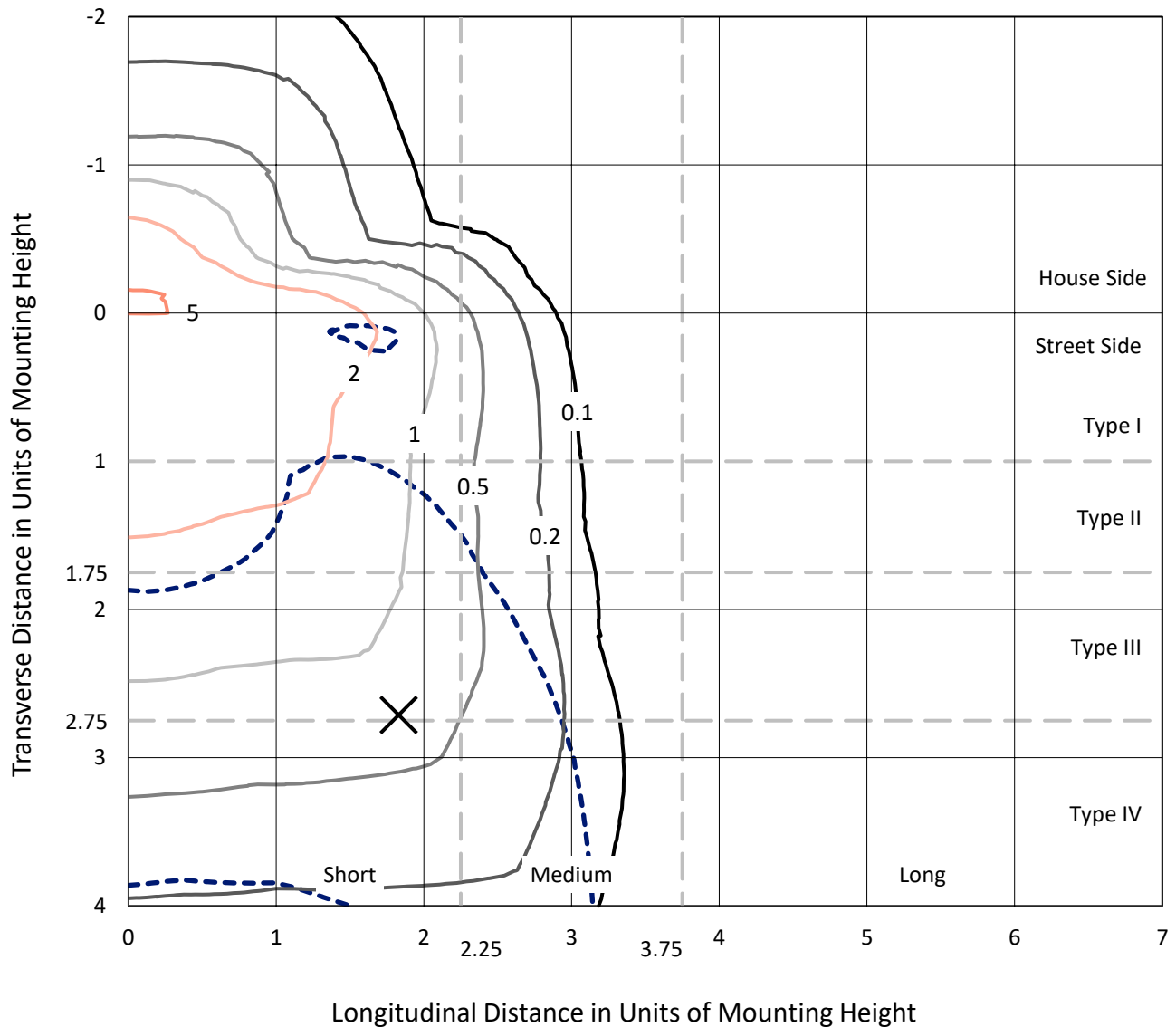
Lumens per Lamp: N/A  
Luminaire Lumens: 31611 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

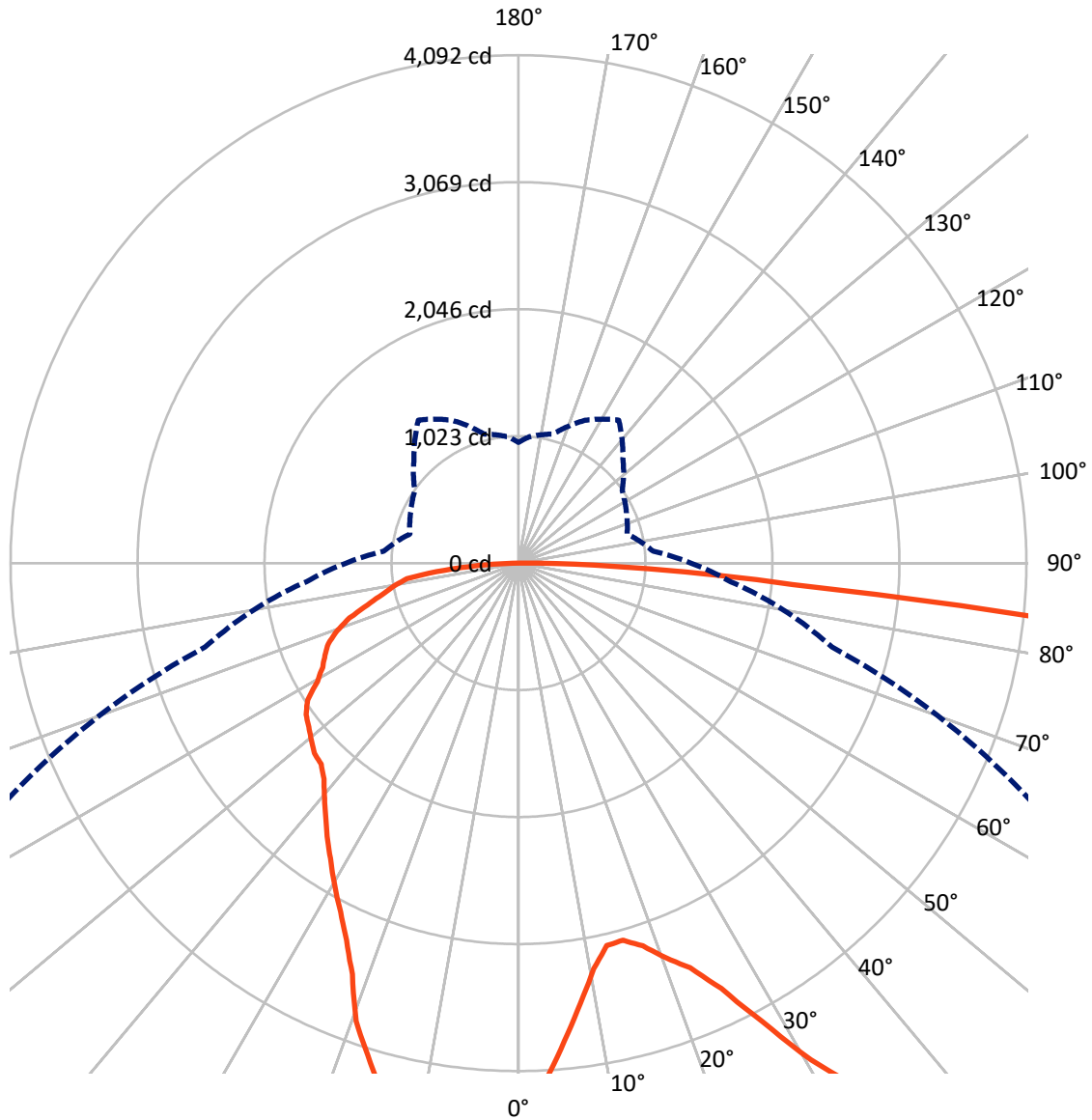
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	6828.4	0.0	6828.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	24782.7	0.0	24782.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	31611.0	0.0	31611.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.3	1.3
10°-20°	1170.6	3.7
20°-30°	1926.6	6.1
30°-40°	2881.2	9.1
40°-50°	4271.3	13.5
50°-60°	6155.4	19.5
60°-70°	7855.1	24.8
70°-80°	6112.6	19.3
80°-90°	820.0	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°	31611.0	100.0
0°-180°	31611.0	100.0

**Coefficient of Utilization**

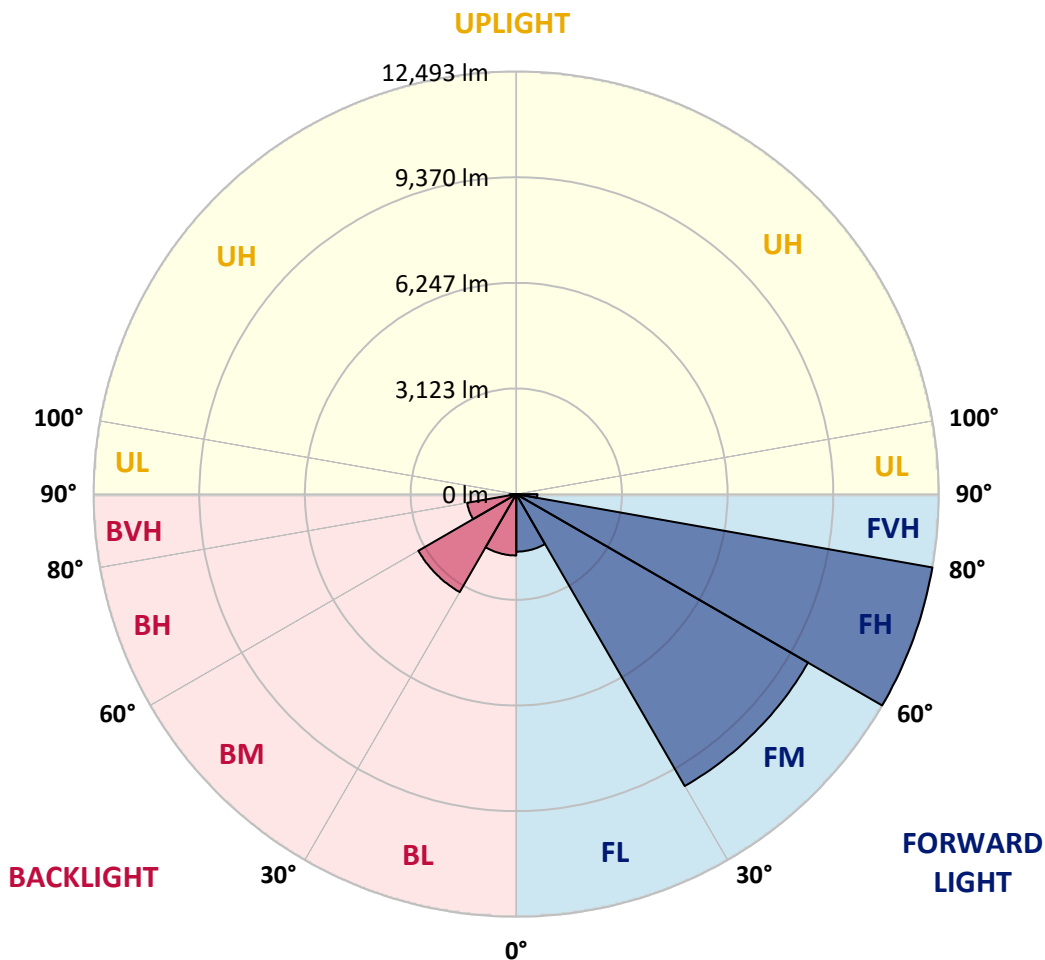


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1701.2	5.4			
FM (30°-60°)	9964.0	31.5			
FH (60°-80°)	12493.3	39.5			G5
FVH (80°-90°)	624.2	2.0			G4/750
BL (0°-30°)	1814.3	5.7	B3/2500		
BM (30°-60°)	3343.9	10.6	B3/5000		
BH (60°-80°)	1474.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	195.8	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9
2.5°	4060.7	4074.1	4117.5	4127.5	4174.3	4147.6	4204.4	4304.7	4361.5	4445.0	4545.3
5°	3739.9	3683.0	3709.8	3813.4	3866.9	3880.2	3940.4	4110.8	4217.8	4341.4	4528.6
7.5°	3362.2	3352.2	3405.6	3472.5	3579.4	3589.5	3723.1	3873.5	4094.1	4368.2	4588.8
10°	3104.8	3148.3	3178.4	3248.6	3322.1	3322.1	3492.5	3753.2	4003.9	4267.9	4602.1
12.5°	3091.5	3064.7	3071.4	3108.2	3161.7	3228.5	3388.9	3622.9	3940.4	4247.9	4658.9
15°	3134.9	3145.0	3084.8	3131.6	3151.6	3175.0	3352.2	3616.2	3900.3	4318.0	4755.9
17.5°	3365.5	3308.7	3215.1	3171.7	3241.9	3241.9	3362.2	3569.4	3907.0	4354.8	4896.2
20°	3546.0	3546.0	3392.3	3345.5	3395.6	3385.6	3469.1	3622.9	3940.4	4428.3	5053.3
22.5°	3850.1	3893.6	3639.6	3542.7	3539.3	3566.1	3639.6	3769.9	4034.0	4531.9	5203.7
25°	4288.0	4298.0	4003.9	3903.6	3796.7	3840.1	3853.5	3983.8	4117.5	4652.3	5374.2
27.5°	4775.9	4769.2	4498.5	4247.9	4177.7	4187.7	4114.2	4201.1	4241.2	4689.0	5618.1
30°	5317.3	5257.2	5053.3	4699.0	4642.2	4578.7	4418.3	4415.0	4498.5	4896.2	5955.7
32.5°	5671.6	5594.7	5454.4	5200.4	5043.3	5050.0	4796.0	4792.6	4719.1	5123.5	6249.8
35°	6019.2	5902.2	5865.4	5604.8	5447.7	5464.4	5260.5	5233.8	5100.1	5467.7	6734.4
37.5°	6437.0	6333.3	6390.2	6193.0	5999.1	5918.9	5825.3	5791.9	5618.1	5952.3	7396.1
40°	6898.2	6864.7	6828.0	6731.1	6614.1	6620.8	6520.5	6487.1	6229.7	6537.2	8031.2
42.5°	7519.8	7392.8	7202.3	7265.8	7326.0	7389.5	7356.0	7269.1	7001.8	7132.1	8739.7
45°	8098.0	7930.9	7580.0	7600.0	7847.3	7897.5	8301.9	8291.8	7753.8	7887.4	9545.1
47.5°	8489.0	8412.2	8201.6	8178.2	8532.5	8529.1	9257.7	9257.7	8545.8	8639.4	10410.8
50°	9070.6	8870.0	8779.8	8896.8	9077.2	9200.9	10233.6	10297.1	9324.6	9424.8	11543.7
52.5°	9752.4	9501.7	9274.4	9575.2	9896.1	9976.3	11199.5	11172.8	9922.8	10337.2	12870.6
55°	10317.2	10190.2	10033.1	10206.9	10731.6	10831.9	12168.7	11921.4	10521.0	11092.6	13508.9
57.5°	10975.6	11052.4	11085.9	11042.4	11667.4	11824.5	13275.0	12566.4	11035.7	11600.6	13883.2
60°	11968.2	12015.0	12058.4	12162.0	12823.8	13044.4	14150.6	13375.2	11359.9	11894.7	13913.3
62.5°	13478.8	13298.4	13395.3	13752.9	14284.3	14535.0	15440.7	13943.4	11607.2	12071.8	12930.7
65°	15206.7	14962.7	14862.5	15323.7	16700.7	16500.1	17051.6	14367.8	11249.6	11410.1	10965.6
67.5°	16958.0	16984.7	16727.4	17653.2	19340.9	19340.9	18548.9	14571.7	10280.4	9247.7	7690.3
70°	18348.3	18431.9	18572.3	20367.0	23040.7	23445.1	20403.7	13736.2	8305.2	6156.2	4204.4
72.5°	18328.3	18077.6	18796.2	22101.5	26402.9	26065.3	20791.4	10861.9	5183.7	3014.6	1928.4
73°	17917.2	17706.6	18492.0	22084.8	26539.9	26222.4	20507.4	10013.0	4572.0	2613.6	1714.5
75°	14631.9	14250.9	15587.7	20002.7	24554.7	24798.7	17422.6	6530.5	2506.6	1610.9	1206.5
77.5°	6670.9	6838.0	8579.3	13418.7	18923.2	19210.6	11453.5	2824.1	1373.6	1129.6	889.0
80°	2142.3	2249.3	3338.8	6670.9	11861.2	12379.3	5293.9	1283.4	979.2	865.6	665.1
82.5°	818.8	815.5	1400.4	2774.0	5621.5	5952.3	1935.1	782.1	728.6	638.3	471.2
85°	287.4	300.8	528.1	1096.2	2212.5	2316.1	671.8	434.5	504.7	427.8	270.7
87.5°	100.3	103.6	187.2	397.7	762.0	805.5	187.2	173.8	250.7	247.3	137.0
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°	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9
2.5°	4578.7	4608.8	4618.8	4739.1	4739.1	4739.1	4785.9	4785.9	4772.6	4739.1	4819.4
5°	4598.8	4652.3	4755.9	4859.5	4886.2	4909.6	4973.1	4919.6	4939.7	4906.3	4936.3
7.5°	4655.6	4729.1	4923.0	4986.5	4943.0	4993.2	4926.3	4889.5	4852.8	4866.2	4819.4
10°	4752.5	4846.1	4936.3	5053.3	4969.8	4919.6	4782.6	4749.2	4632.2	4592.1	4628.9
12.5°	4872.8	4986.5	5140.2	5096.8	4936.3	4792.6	4645.6	4505.2	4435.0	4334.8	4361.5
15°	4993.2	5123.5	5146.9	5073.4	4872.8	4692.4	4425.0	4227.8	4157.6	4067.4	4114.2
17.5°	5123.5	5247.2	5207.0	5016.5	4745.8	4471.8	4167.6	3973.8	3826.7	3769.9	3769.9
20°	5317.3	5377.5	5314.0	4923.0	4592.1	4231.1	3937.0	3716.5	3569.4	3546.0	3509.2
22.5°	5467.7	5564.7	5280.6	4785.9	4368.2	3917.0	3579.4	3495.9	3452.4	3415.7	3368.9
25°	5661.6	5658.2	5220.4	4658.9	3983.8	3542.7	3338.8	3332.1	3312.1	3298.7	3362.2
27.5°	5845.4	5768.5	5150.2	4344.8	3586.1	3258.6	3148.3	3221.8	3251.9	3231.8	3258.6
30°	6136.2	6009.2	5050.0	4010.6	3235.2	2971.2	2991.2	3091.5	3141.6	3171.7	3131.6
32.5°	6443.6	6249.8	4842.8	3663.0	2924.4	2790.7	2837.5	2941.1	3001.2	3034.7	3071.4
35°	6888.1	6437.0	4632.2	3208.5	2700.4	2680.4	2707.1	2763.9	2850.8	2874.2	2884.3
37.5°	7436.3	6721.0	4348.1	2844.2	2526.7	2550.1	2576.8	2596.8	2600.2	2643.6	2626.9
40°	7984.4	6961.7	3933.7	2496.6	2346.2	2473.2	2459.8	2423.0	2393.0	2352.9	2342.8
42.5°	8465.6	7172.2	3472.5	2202.5	2185.8	2393.0	2349.5	2255.9	2185.8	2155.7	2105.5
45°	9007.1	7469.7	3007.9	2018.7	2062.1	2296.0	2282.7	2139.0	2048.7	1941.8	1928.4
47.5°	9708.9	7780.5	2563.4	1828.1	1945.1	2259.3	2266.0	2082.2	1951.8	1808.1	1788.0
50°	10607.9	8228.3	2225.9	1747.9	1874.9	2205.8	2215.8	2005.3	1834.8	1687.8	1674.4
52.5°	11470.2	8686.2	1945.1	1624.3	1828.1	2142.3	2165.7	1935.1	1737.9	1554.1	1564.1
55°	11904.7	8519.1	1704.5	1534.0	1721.2	2038.7	2125.6	1885.0	1590.9	1463.9	1460.5
57.5°	12001.6	8108.0	1514.0	1440.5	1631.0	1928.4	2058.8	1734.6	1524.0	1417.1	1403.7
60°	11684.1	7389.5	1363.6	1340.2	1517.3	1814.8	1905.0	1654.4	1457.2	1370.3	1350.2
62.5°	10902.0	6644.2	1260.0	1293.4	1420.4	1691.1	1808.1	1597.5	1393.7	1333.5	1290.1
65°	8940.2	5464.4	1176.4	1203.2	1320.1	1570.8	1747.9	1534.0	1336.9	1280.0	1276.7
67.5°	6193.0	3766.6	1109.6	1159.7	1239.9	1483.9	1687.8	1463.9	1263.3	1243.3	1216.5
70°	3171.7	2008.6	1022.7	1062.8	1153.0	1373.6	1580.8	1390.3	1186.5	1183.1	1149.7
72.5°	1607.6	1176.4	922.4	982.6	1046.1	1229.9	1447.1	1293.4	1089.5	1052.8	999.3
73°	1390.3	1089.5	905.7	959.2	1019.4	1189.8	1407.0	1270.0	1076.2	1022.7	972.6
75°	1012.7	858.9	812.1	865.6	912.4	1072.8	1273.4	1163.1	989.3	932.5	885.7
77.5°	758.7	661.7	675.1	735.3	775.4	925.8	1133.0	1052.8	895.7	818.8	798.8
80°	558.1	504.7	558.1	615.0	645.0	815.5	1032.7	912.4	755.3	668.4	651.7
82.5°	397.7	367.6	431.1	467.9	481.3	675.1	929.1	728.6	571.5	457.9	421.1
85°	227.3	223.9	290.8	287.4	297.5	394.4	611.6	484.6	367.6	280.7	274.1
87.5°	100.3	110.3	147.1	117.0	123.7	187.2	260.7	180.5	150.4	83.6	63.5
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)