

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: P476663

Luminaire Tested: **IFLD-L-SA7D-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476663  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

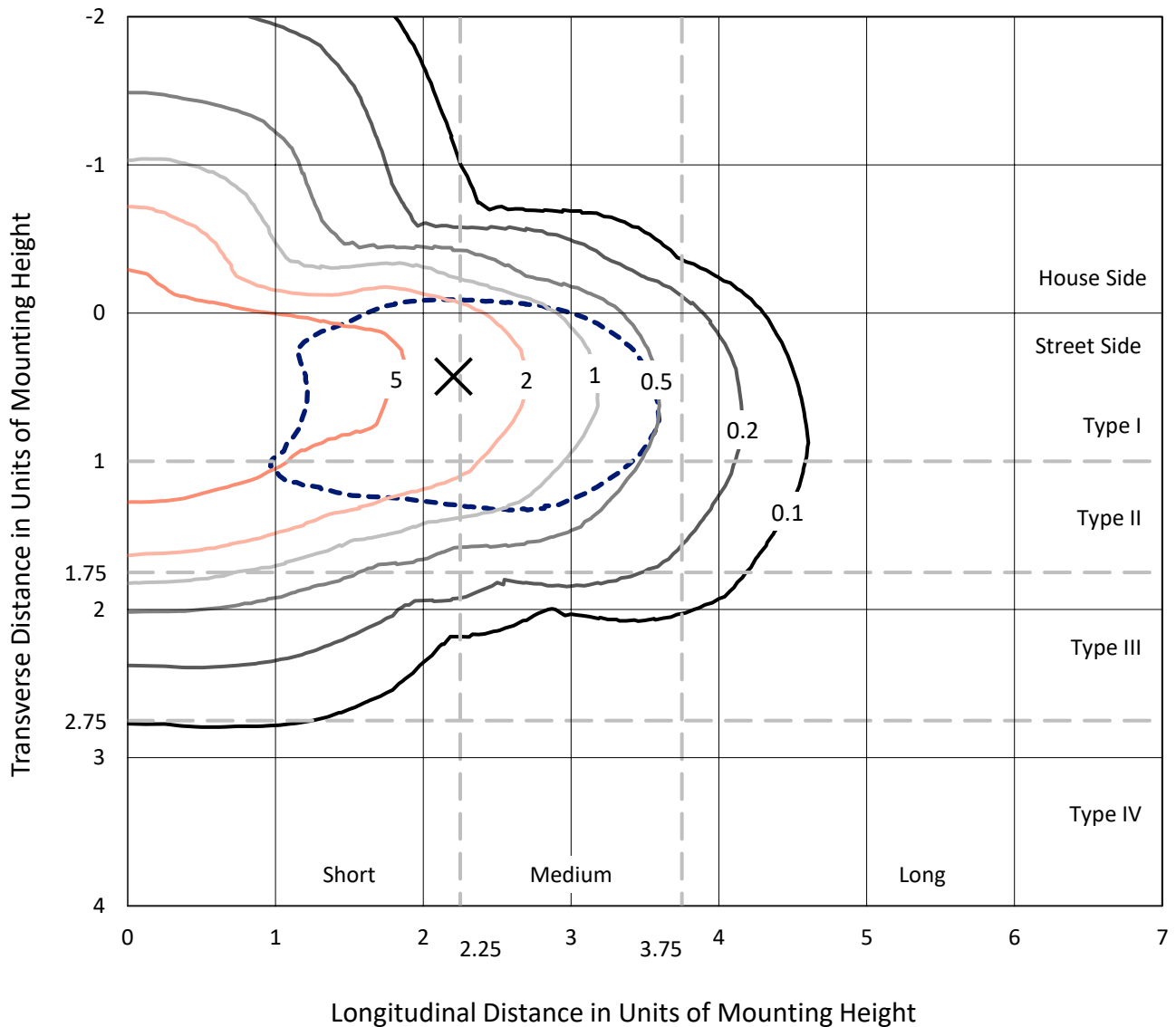
Lumens per Lamp: N/A  
Luminaire Lumens: 49835.9 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6  
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

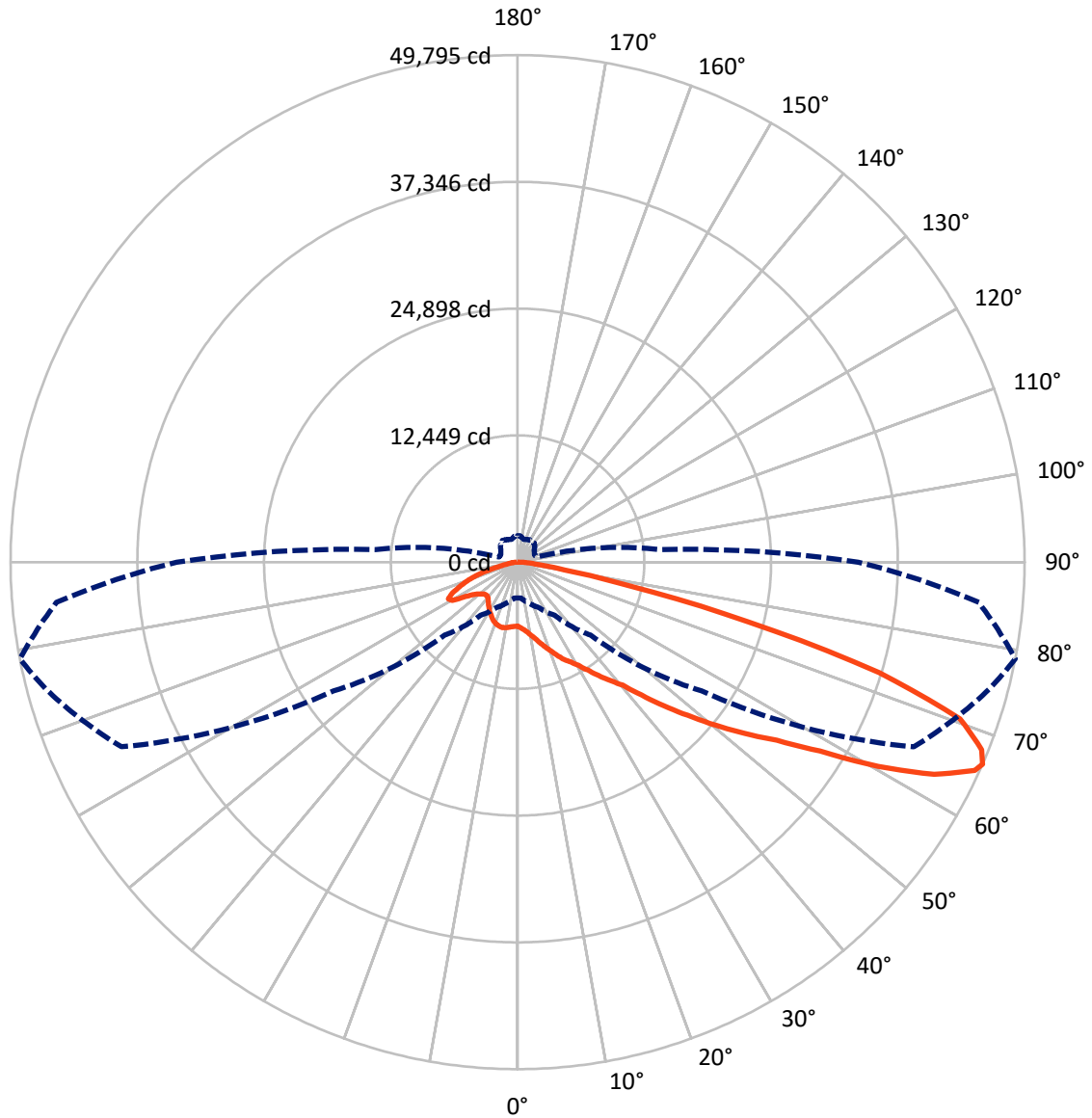
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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
<b>House Side</b>	Lumens	10063.7	0.0	10063.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	39772.2	0.0	39772.2
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	49835.9	0.0	49835.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.8	1.2
10°-20°	1910.8	3.8
20°-30°	3279.9	6.6
30°-40°	5066.7	10.2
40°-50°	8115.7	16.3
50°-60°	12117.2	24.3
60°-70°	12450.5	25.0
70°-80°	5519.1	11.1
80°-90°	757.3	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°	49835.9	100.0
0°-180°	49835.9	100.0

**Coefficient of Utilization**



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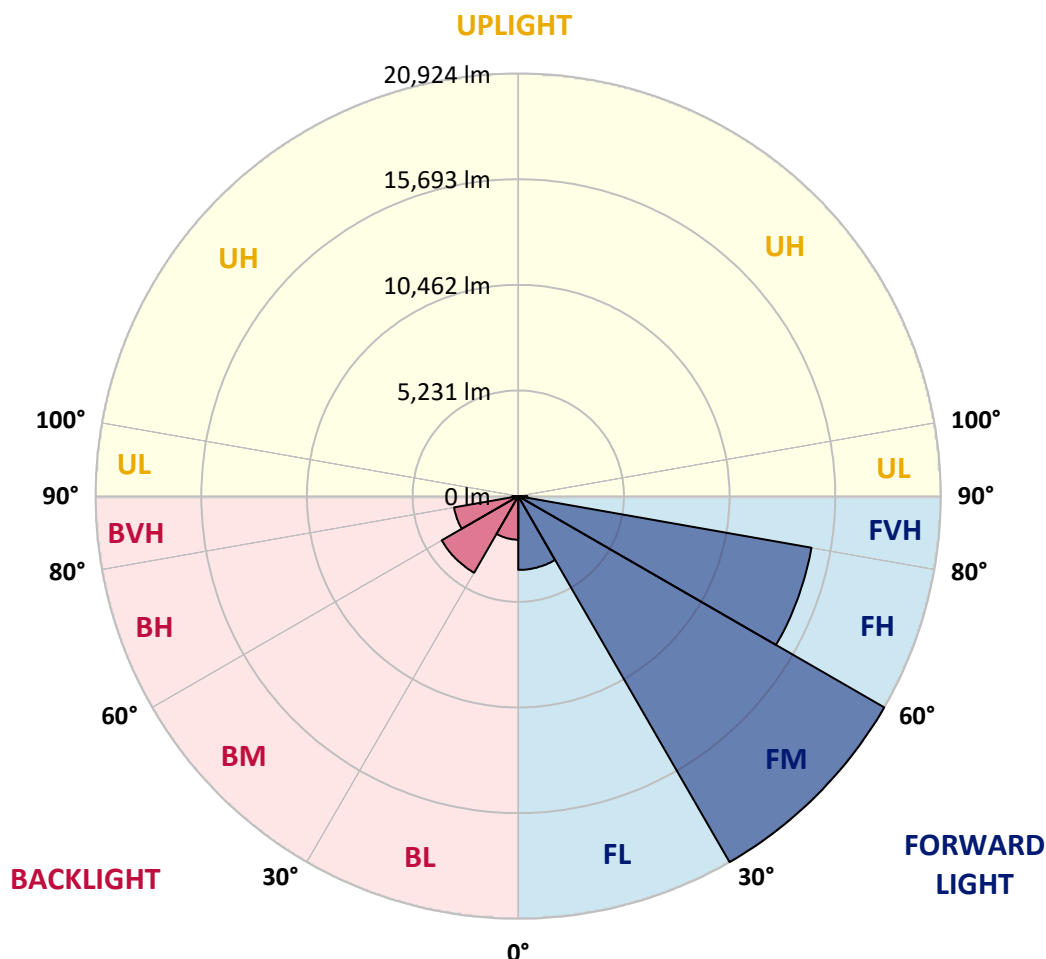
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3653.3	7.3			
FM (30°-60°)	20924.4	42.0			
FH (60°-80°)	14740.3	29.6			G5
FVH (80°-90°)	454.2	0.9			G3/500
BL (0°-30°)	2156.1	4.3	B3/2500		
BM (30°-60°)	4375.2	8.8	B3/5000		
BH (60°-80°)	3229.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	303.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9
2.5°	6693.0	6698.5	6698.5	6676.6	6682.1	6698.5	6638.2	6506.7	6506.7	6484.7	6446.4
5°	7104.2	7076.8	7038.4	7043.9	7021.9	7021.9	6956.2	6830.1	6720.5	6676.6	6561.5
7.5°	7159.0	7186.4	7180.9	7246.7	7279.6	7279.6	7312.5	7208.3	7043.9	6939.7	6824.6
10°	7268.6	7197.4	7191.9	7345.4	7394.7	7509.8	7641.4	7586.6	7449.5	7301.5	7148.0
12.5°	7334.4	7378.3	7378.3	7455.0	7570.1	7740.0	7970.3	8074.4	7860.6	7707.1	7471.4
15°	7433.1	7372.8	7548.2	7614.0	7833.2	7953.8	8282.7	8551.3	8408.8	8222.4	7849.7
17.5°	7476.9	7438.5	7537.2	7657.8	8030.6	8211.5	8611.6	8984.4	8863.8	8743.2	8359.5
20°	7701.7	7696.2	7740.0	7838.7	8107.3	8463.6	8962.4	9477.7	9521.6	9302.3	8781.5
22.5°	8249.8	8178.6	8178.6	8140.2	8255.3	8622.6	9296.8	10009.4	10206.8	9949.1	9258.4
25°	8754.1	8852.8	8792.5	8617.1	8573.2	8765.1	9538.0	10574.0	10837.1	10596.0	9905.3
27.5°	9401.0	9433.9	9538.0	9302.3	9000.8	9061.1	9801.1	10892.0	11434.6	11111.2	10272.5
30°	10332.8	10272.5	10250.6	9987.5	9592.8	9510.6	10102.6	11357.9	12218.5	11763.5	10705.6
32.5°	10963.2	11111.2	11105.7	10744.0	10267.1	10086.2	10475.4	11796.4	13057.2	12635.1	11505.9
35°	12213.0	12366.5	12245.9	11714.2	11155.1	10793.3	11012.6	12366.5	14016.5	13687.6	12185.6
37.5°	13808.2	14170.0	13912.3	12931.1	12141.8	11747.1	11758.1	12985.9	14997.7	14729.1	12914.7
40°	14910.0	15397.8	15041.5	14120.6	13281.9	12909.2	12761.2	13720.5	16170.8	15885.7	14054.9
42.5°	16274.9	16680.5	16494.2	15584.2	14603.0	14285.1	13989.1	14948.4	17963.2	17831.7	15518.4
45°	17765.9	17957.8	17897.5	17321.9	16231.1	16121.4	15469.1	16565.4	20073.7	20128.5	17349.3
47.5°	19152.8	19256.9	19372.0	18955.4	18275.7	18368.9	17173.9	18297.6	22123.8	22485.6	19388.5
50°	19509.1	19865.4	20134.0	20413.5	20561.5	21191.9	19054.1	20424.5	24480.9	25182.5	21657.9
52.5°	19147.3	19119.9	19936.6	20813.7	22293.7	23614.8	21614.0	23066.6	26563.9	27950.7	23735.4
55°	17502.8	17448.0	18763.6	19925.7	22814.5	24963.3	25270.2	26585.8	29080.0	30883.4	26547.4
57.5°	14624.9	14285.1	15721.3	17628.9	21685.3	25111.3	28942.9	31809.8	32950.0	35005.6	30839.6
60°	9828.5	9686.0	11061.9	13336.8	17606.9	23011.8	31141.0	38349.4	38404.2	40717.4	37499.7
62.5°	6051.7	6079.1	6961.6	8666.4	12328.1	18242.8	30192.7	43573.3	43584.3	45903.0	42981.3
65°	3957.7	3974.2	4686.8	5629.6	7701.7	12372.0	24968.7	43984.5	47185.7	49340.0	45491.9
66°	3524.7	3530.2	4144.1	4911.5	6380.6	10124.5	22052.5	42915.5	47997.0	49795.0	45459.0
67.5°	2971.0	3042.3	3535.6	4127.7	4977.3	7274.1	17497.3	39823.9	47580.4	49159.1	44428.5
70°	2324.2	2362.6	2751.8	3354.7	3733.0	4209.9	10398.6	32462.1	43551.4	46111.3	40679.0
72.5°	1863.7	1896.6	2192.6	2724.4	3031.3	2773.7	5662.5	23554.5	34402.6	37132.4	31996.2
75°	1573.2	1578.7	1721.2	2143.3	2494.1	2083.0	3014.9	15118.3	22074.5	23346.2	19602.2
77.5°	1271.7	1293.7	1392.3	1633.5	2006.3	1639.0	1798.0	8469.1	11083.8	11177.0	9061.1
80°	1036.0	1047.0	1107.3	1189.5	1529.4	1211.4	1216.9	4133.1	4752.6	4642.9	3683.6
82.5°	816.8	827.7	899.0	882.5	1123.7	866.1	756.5	1989.8	2187.2	2143.3	1693.8
85°	460.5	460.5	707.1	707.1	712.6	548.2	460.5	937.4	1156.6	1079.9	794.8
87.5°	148.0	153.5	213.8	224.7	356.3	246.7	224.7	350.8	548.2	482.4	285.0
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°	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9	6292.9
2.5°	6424.4	6336.7	6298.4	6172.3	6139.4	6057.2	6018.8	5969.5	5953.0	5881.8	5947.5
5°	6473.8	6446.4	6292.9	6133.9	6013.3	5958.5	5876.3	5766.7	5755.7	5657.0	5646.1
7.5°	6682.1	6588.9	6320.3	6150.4	5909.2	5772.1	5591.2	5536.4	5465.2	5432.3	5503.5
10°	7005.5	6769.8	6369.6	5942.1	5646.1	5481.6	5350.1	5311.7	5317.2	5295.2	5262.3
12.5°	7235.7	7011.0	6287.4	5766.7	5382.9	5224.0	5213.0	5251.4	5311.7	5284.3	5322.6
15°	7564.6	7142.5	6227.1	5476.1	5169.2	5125.3	5119.8	5234.9	5229.5	5229.5	5224.0
17.5°	7871.6	7274.1	6007.8	5224.0	4944.4	4977.3	5015.7	5010.2	5065.0	5086.9	5125.3
20°	8260.8	7427.6	5700.9	4971.8	4774.5	4763.5	4758.0	4763.5	4818.3	4851.2	4823.8
22.5°	8600.6	7460.5	5443.2	4730.6	4571.7	4527.8	4456.6	4527.8	4500.4	4511.4	4544.3
25°	8896.7	7466.0	5076.0	4549.7	4368.8	4270.2	4215.4	4209.9	4160.5	4155.1	4155.1
27.5°	9143.3	7279.6	4752.6	4297.6	4127.7	4034.5	4029.0	3968.7	3842.6	3760.4	3771.3
30°	9335.2	7137.1	4527.8	4078.3	3913.9	3897.4	3848.1	3711.1	3546.6	3442.5	3442.5
32.5°	9675.0	6852.0	4220.8	3853.6	3771.3	3749.4	3634.3	3513.7	3360.2	3261.6	3245.1
35°	9927.2	6588.9	4018.0	3661.7	3623.3	3579.5	3480.8	3349.3	3305.4	3283.5	3299.9
37.5°	10212.2	6292.9	3771.3	3497.3	3535.6	3453.4	3338.3	3278.0	3431.5	3393.1	3409.6
40°	10667.2	6084.6	3530.2	3398.6	3437.0	3343.8	3195.8	3173.9	3365.7	3228.7	3195.8
42.5°	11500.4	6079.1	3382.2	3250.6	3278.0	3206.7	3075.2	3064.2	3141.0	2976.5	2927.2
45°	12536.4	6271.0	3272.5	3141.0	3119.0	3108.1	3064.2	3014.9	2949.1	2735.3	2680.5
47.5°	13775.3	6583.4	3250.6	2976.5	3003.9	3097.1	3042.3	2916.2	2746.3	2609.2	2581.8
50°	15277.3	7230.2	3195.8	2855.9	2905.3	3053.3	3009.4	2834.0	2680.5	2592.8	2576.4
52.5°	16938.2	8047.0	3124.5	2669.5	2779.2	3014.9	3036.8	2872.4	2647.6	2570.9	2559.9
55°	18895.1	9253.0	3042.3	2466.7	2631.2	2976.5	3036.8	2762.7	2603.8	2603.8	2592.8
57.5°	22759.7	11423.7	2872.4	2280.4	2499.6	2905.3	2949.1	2768.2	2609.2	2609.2	2587.3
60°	28427.6	14811.3	2548.9	2137.8	2373.5	2806.6	2883.3	2686.0	2548.9	2581.8	2576.4
62.5°	32862.3	15841.9	2274.9	2000.8	2247.5	2625.7	2795.6	2598.3	2477.7	2598.3	2609.2
65°	33810.6	14800.4	1995.3	1852.8	2072.0	2450.3	2669.5	2472.2	2373.5	2609.2	2620.2
66°	33470.7	13989.1	1896.6	1808.9	1995.3	2362.6	2592.8	2428.4	2318.7	2598.3	2603.8
67.5°	31957.8	12772.2	1787.0	1715.7	1891.2	2236.5	2505.1	2368.1	2231.0	2565.4	2516.1
70°	28668.8	10831.7	1600.6	1551.3	1743.2	2028.2	2302.3	2214.6	2094.0	2362.6	2274.9
72.5°	22079.9	8655.5	1403.3	1408.8	1573.2	1814.4	2099.5	2039.2	1935.0	2072.0	2017.2
75°	13446.4	5530.9	1222.4	1233.4	1370.4	1611.6	1907.6	1863.7	1737.7	1814.4	1787.0
77.5°	5958.5	2740.8	1030.5	1052.5	1162.1	1419.7	1660.9	1589.7	1458.1	1474.6	1463.6
80°	2313.2	1299.1	838.7	866.1	937.4	1134.7	1375.9	1310.1	1195.0	1173.1	1162.1
82.5°	1112.8	723.6	646.8	657.8	685.2	904.5	1184.0	1101.8	948.3	849.6	849.6
85°	559.1	449.5	455.0	416.6	455.0	613.9	800.3	668.8	553.6	493.3	504.3
87.5°	224.7	224.7	224.7	191.9	202.8	290.5	372.7	252.2	230.2	137.0	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

(END OF REPORT)