

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: P478587

Luminaire Tested: **IFLD-S-SA3C-750-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478587  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-750-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

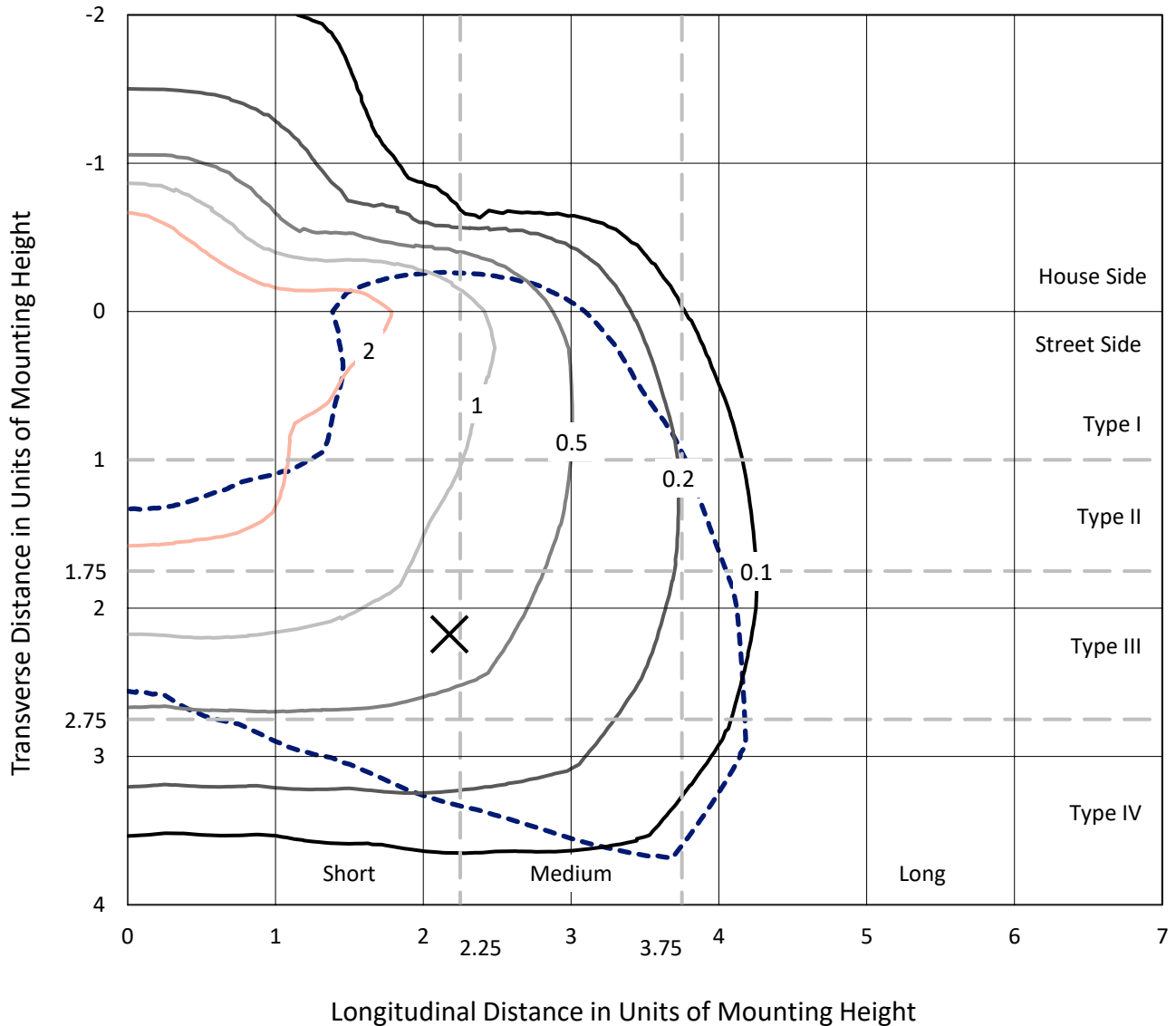
Lumens per Lamp: N/A  
Luminaire Lumens: 21900.6 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

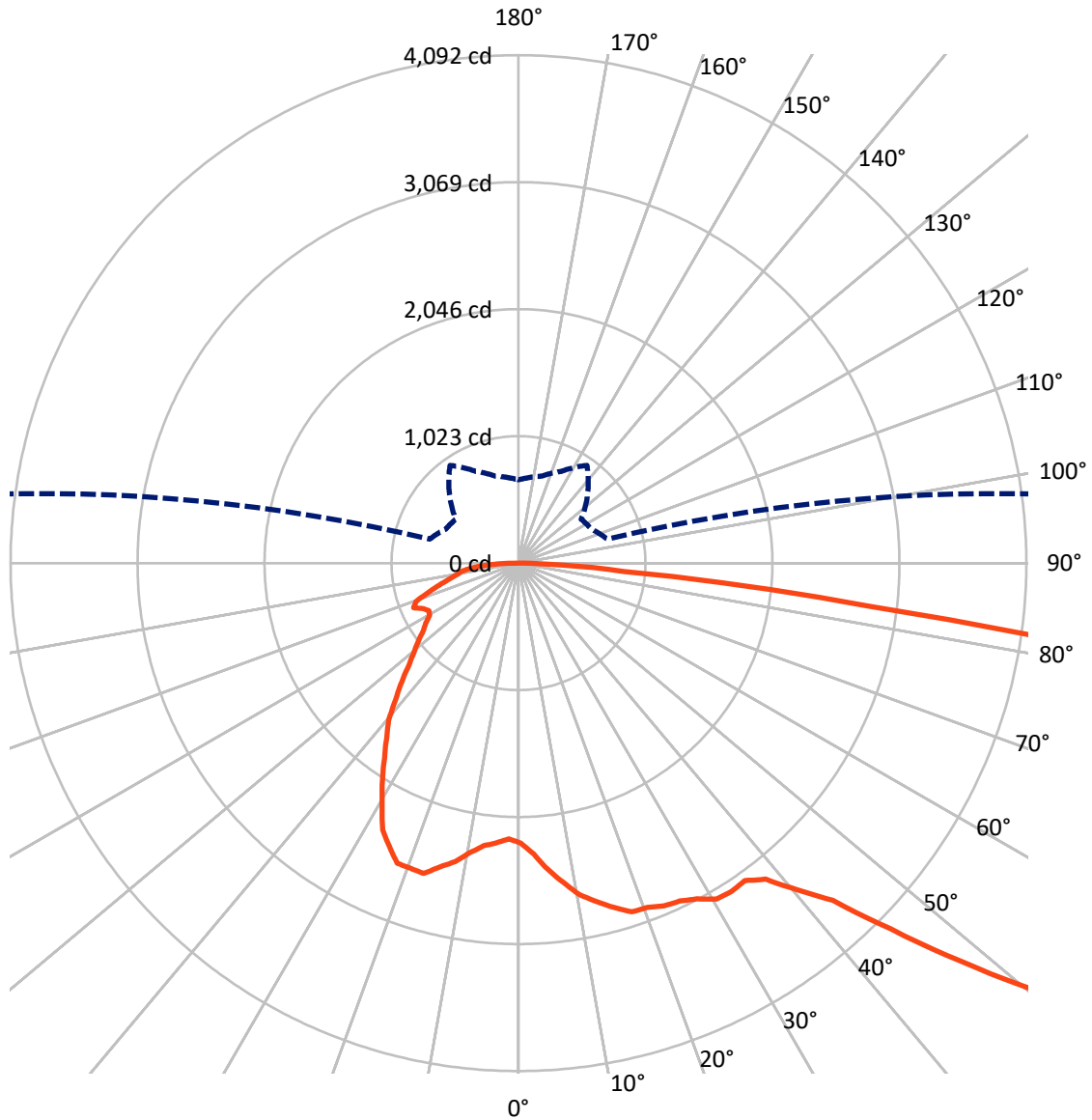
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
<b>House Side</b>	Lumens	4875.2	0.0	4875.2
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	17025.4	0.0	17025.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	21900.6	0.0	21900.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.8	1.1
10°-20°	767.8	3.5
20°-30°	1296.7	5.9
30°-40°	1794.4	8.2
40°-50°	2566.7	11.7
50°-60°	4139.8	18.9
60°-70°	6105.6	27.9
70°-80°	4433.7	20.2
80°-90°	565.2	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°	21900.6	100.0
0°-180°	21900.6	100.0

**Coefficient of Utilization**



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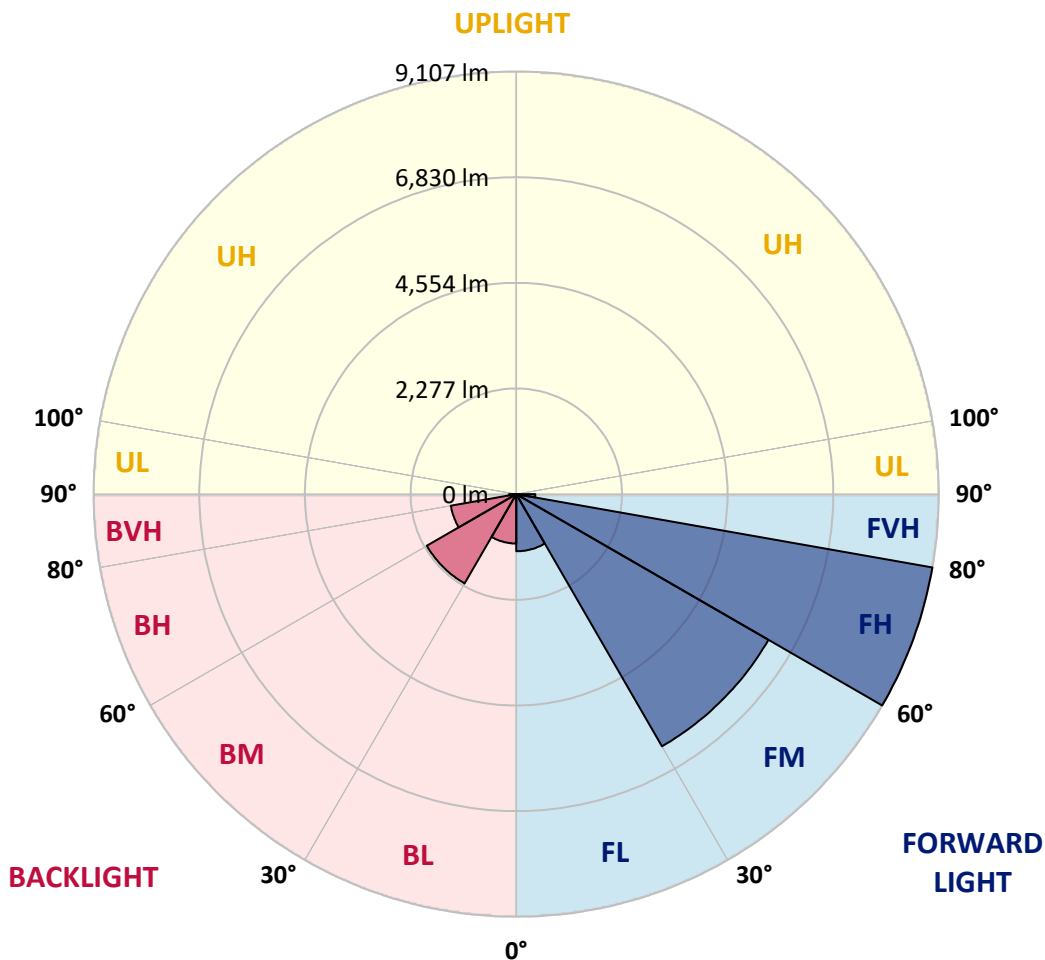
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.8	5.6			
FM (30°-60°)	6275.9	28.7			
FH (60°-80°)	9107.3	41.6			G4/12000
FVH (80°-90°)	411.4	1.9			G3/500
BL (0°-30°)	1064.5	4.9	B3/2500		
BM (30°-60°)	2224.9	10.2	B2/2500		
BH (60°-80°)	1432.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	153.8	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2375.8	2390.0	2375.8	2373.4	2349.8	2333.3	2347.5	2326.2	2302.6	2293.2	2271.9
5°	2593.1	2595.4	2569.5	2571.8	2522.2	2470.3	2479.7	2416.0	2347.5	2321.5	2279.0
7.5°	2815.1	2789.1	2751.3	2739.5	2661.6	2604.9	2597.8	2541.1	2434.9	2375.8	2316.8
10°	2959.1	2968.6	2907.2	2855.2	2789.1	2720.6	2718.2	2612.0	2550.6	2463.2	2387.6
12.5°	3086.7	3089.0	3037.1	2954.4	2871.8	2786.7	2798.5	2751.3	2647.4	2564.7	2489.2
15°	3185.9	3171.7	3115.0	3039.4	2952.1	2885.9	2878.8	2838.7	2751.3	2682.8	2557.7
17.5°	3214.2	3207.1	3150.4	3070.1	2985.1	2935.5	2954.4	2888.3	2852.9	2791.5	2671.0
20°	3159.9	3143.3	3133.9	3044.2	2982.8	2978.0	2961.5	2975.7	2916.6	2859.9	2772.6
22.5°	3060.7	3053.6	3048.9	2978.0	2949.7	2970.9	2999.3	3020.5	3011.1	2956.8	2857.6
25°	2959.1	2992.2	2961.5	2928.4	2968.6	3022.9	3015.8	3084.3	3084.3	3067.8	2985.1
27.5°	3030.0	3008.7	2985.1	2968.6	2982.8	3067.8	3063.0	3145.7	3176.4	3145.7	3051.2
30°	3207.1	3185.9	3117.4	3044.2	3025.3	3117.4	3141.0	3214.2	3228.4	3152.8	3072.5
32.5°	3540.1	3528.3	3419.7	3204.7	3089.0	3141.0	3152.8	3235.4	3223.6	3176.4	3143.3
35°	4033.7	3993.5	3842.4	3478.7	3223.6	3171.7	3141.0	3207.1	3252.0	3228.4	3197.7
37.5°	4574.5	4529.6	4343.1	3882.5	3466.9	3254.3	3230.7	3285.0	3337.0	3325.2	3261.4
40°	5091.7	5091.7	4924.0	4387.9	3828.2	3455.1	3459.8	3398.4	3445.6	3424.4	3436.2
42.5°	5601.8	5582.9	5514.4	4980.7	4215.5	3790.4	3714.9	3561.4	3646.4	3639.3	3655.8
45°	6119.0	6104.8	6085.9	5533.3	4770.5	4243.9	4203.7	3927.4	4005.3	3972.3	4043.1
47.5°	6532.3	6548.8	6548.8	6149.7	5363.3	4848.4	4789.4	4352.5	4501.3	4517.8	4534.3
50°	6884.2	6891.3	6884.2	6737.8	6024.5	5540.4	5420.0	4976.0	5124.8	5254.6	5405.8
52.5°	7370.7	7380.1	7347.1	7290.4	6922.0	6267.8	6133.2	5639.6	5944.2	6081.2	6352.8
55°	7970.5	7899.7	7838.3	7880.8	7784.0	7068.4	6929.1	6324.5	6782.6	6964.5	7507.7
57.5°	8081.5	8142.9	8298.8	8636.5	8775.9	7847.7	7767.4	7165.2	7729.6	7887.9	8794.7
60°	8473.6	8372.0	8754.6	9486.7	9642.6	8863.2	8780.6	8086.3	8671.9	8837.3	9982.7
62.5°	8731.0	8726.3	9293.1	10162.1	10516.4	9916.5	9748.9	9283.6	9689.8	9850.4	11276.8
65°	8655.4	8723.9	9730.0	10558.9	11246.1	11113.9	11017.1	10313.3	10849.4	10835.2	12119.9
67.5°	7965.8	8159.5	9453.6	10844.7	12332.5	12573.4	12542.7	11761.0	11791.7	11491.7	12495.4
70°	7009.3	6943.2	8284.6	10547.1	12875.7	14304.5	14297.4	12837.9	12639.5	11635.8	11418.5
72°	5384.5	5311.3	6414.2	9056.9	12589.9	14996.4	15209.0	13584.2	12630.1	11038.3	9432.4
72.5°	4888.6	4824.8	5923.0	8525.5	12273.4	15175.9	15076.7	13612.5	12530.9	10757.3	8811.3
75°	2250.6	2177.4	2959.1	5219.2	9574.1	13447.2	13784.9	12738.7	10943.8	8563.3	5278.3
77.5°	670.7	649.5	951.7	2106.6	5564.0	9907.1	10037.0	9611.9	7639.9	4690.2	1957.8
80°	373.1	375.5	491.2	788.8	2446.7	5727.0	6194.6	5937.2	3747.9	1549.2	651.8
82.5°	207.8	219.6	307.0	467.6	1124.1	2628.5	2829.2	2727.7	1355.6	727.4	356.6
85°	108.6	113.4	160.6	250.3	637.6	831.3	854.9	916.3	703.8	495.9	191.3
87.5°	42.5	42.5	59.0	103.9	236.2	257.4	231.4	281.0	403.8	321.2	94.5
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°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2290.8	2271.9	2269.5	2238.8	2248.3	2222.3	2224.7	2219.9	2222.3	2217.6	2205.8
5°	2279.0	2264.8	2224.7	2250.6	2227.0	2260.1	2286.1	2276.6	2283.7	2281.3	2283.7
7.5°	2295.5	2276.6	2271.9	2257.7	2279.0	2293.2	2314.4	2373.4	2368.7	2375.8	2390.0
10°	2345.1	2323.9	2309.7	2330.9	2319.1	2364.0	2387.6	2418.3	2472.6	2475.0	2446.7
12.5°	2441.9	2427.8	2399.4	2404.1	2444.3	2458.5	2472.6	2491.5	2527.0	2519.9	2545.8
15°	2552.9	2522.2	2505.7	2501.0	2510.4	2527.0	2524.6	2543.5	2562.4	2578.9	2571.8
17.5°	2633.2	2593.1	2597.8	2621.4	2619.1	2614.3	2583.6	2574.2	2583.6	2593.1	2588.4
20°	2715.9	2720.6	2685.2	2663.9	2654.5	2607.3	2583.6	2555.3	2527.0	2541.1	2562.4
22.5°	2819.8	2798.5	2746.6	2682.8	2635.6	2607.3	2534.0	2484.4	2484.4	2498.6	2491.5
25°	2937.9	2893.0	2803.3	2687.5	2628.5	2508.1	2456.1	2449.0	2430.1	2451.4	2460.8
27.5°	3030.0	2989.8	2867.0	2671.0	2508.1	2411.2	2380.5	2371.1	2401.8	2404.1	2441.9
30°	3067.8	3056.0	2876.5	2628.5	2385.3	2229.4	2210.5	2253.0	2286.1	2335.7	2338.0
32.5°	3117.4	3122.1	2890.6	2529.3	2224.7	2068.8	2040.5	2092.4	2186.9	2227.0	2257.7
35°	3200.0	3223.6	2878.8	2406.5	2054.6	1905.8	1901.1	1915.3	2007.4	2078.2	2118.4
37.5°	3344.1	3339.4	2876.5	2260.1	1920.0	1764.1	1726.4	1731.1	1792.5	1851.5	1844.4
40°	3537.7	3518.8	2869.4	2068.8	1745.3	1643.7	1579.9	1556.3	1551.6	1535.1	1539.8
42.5°	3802.2	3764.5	2867.0	1875.1	1587.0	1478.4	1433.5	1372.1	1327.2	1242.2	1246.9
45°	4170.7	4104.5	2805.6	1693.3	1431.2	1341.4	1272.9	1228.1	1131.2	1025.0	1025.0
47.5°	4739.8	4524.9	2808.0	1492.6	1280.0	1206.8	1159.6	1081.6	977.7	892.7	883.3
50°	5578.2	5087.0	2727.7	1334.3	1157.2	1107.6	1058.0	968.3	869.1	810.0	817.1
52.5°	6659.8	5925.4	2725.3	1192.6	1060.4	1025.0	970.6	890.3	817.1	779.3	765.2
55°	7949.3	7035.3	2810.4	1076.9	961.2	942.3	918.7	852.6	781.7	748.6	746.3
57.5°	9269.4	8119.3	2947.3	994.3	876.2	890.3	873.8	821.9	765.2	727.4	722.7
60°	10443.2	8979.0	2671.0	895.1	800.6	831.3	854.9	810.0	779.3	777.0	760.4
62.5°	11328.8	9347.4	2031.0	819.5	760.4	817.1	880.9	909.2	895.1	914.0	916.3
65°	11652.3	9125.4	1398.1	779.3	729.7	850.2	991.9	982.4	899.8	864.4	883.3
67.5°	11198.9	8225.6	1036.8	732.1	708.5	918.7	1055.7	937.6	812.4	807.7	793.5
70°	9630.8	6971.6	845.5	682.5	673.1	880.9	1027.3	869.1	765.2	734.5	720.3
72°	7673.0	5429.4	741.6	647.1	616.4	786.4	961.2	814.8	725.0	687.2	670.7
72.5°	7004.6	5032.7	727.4	630.6	604.6	765.2	928.1	798.2	715.6	682.5	656.5
75°	3842.4	2576.5	640.0	578.6	510.1	661.3	859.6	748.6	675.4	628.2	623.5
77.5°	1428.8	999.0	552.6	512.5	441.6	571.5	781.7	710.9	614.0	555.0	543.2
80°	547.9	526.6	451.1	432.2	370.8	500.7	720.3	637.6	521.9	462.9	444.0
82.5°	333.0	307.0	342.4	337.7	283.4	455.8	677.8	597.5	462.9	375.5	363.7
85°	181.8	181.8	238.5	229.1	198.4	363.7	512.5	396.8	292.8	240.9	245.6
87.5°	80.3	94.5	127.5	120.4	108.6	205.5	250.3	210.2	146.4	99.2	106.3
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)