

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: P478679

Luminaire Tested: **IFLD-S-SA6B-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478679  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

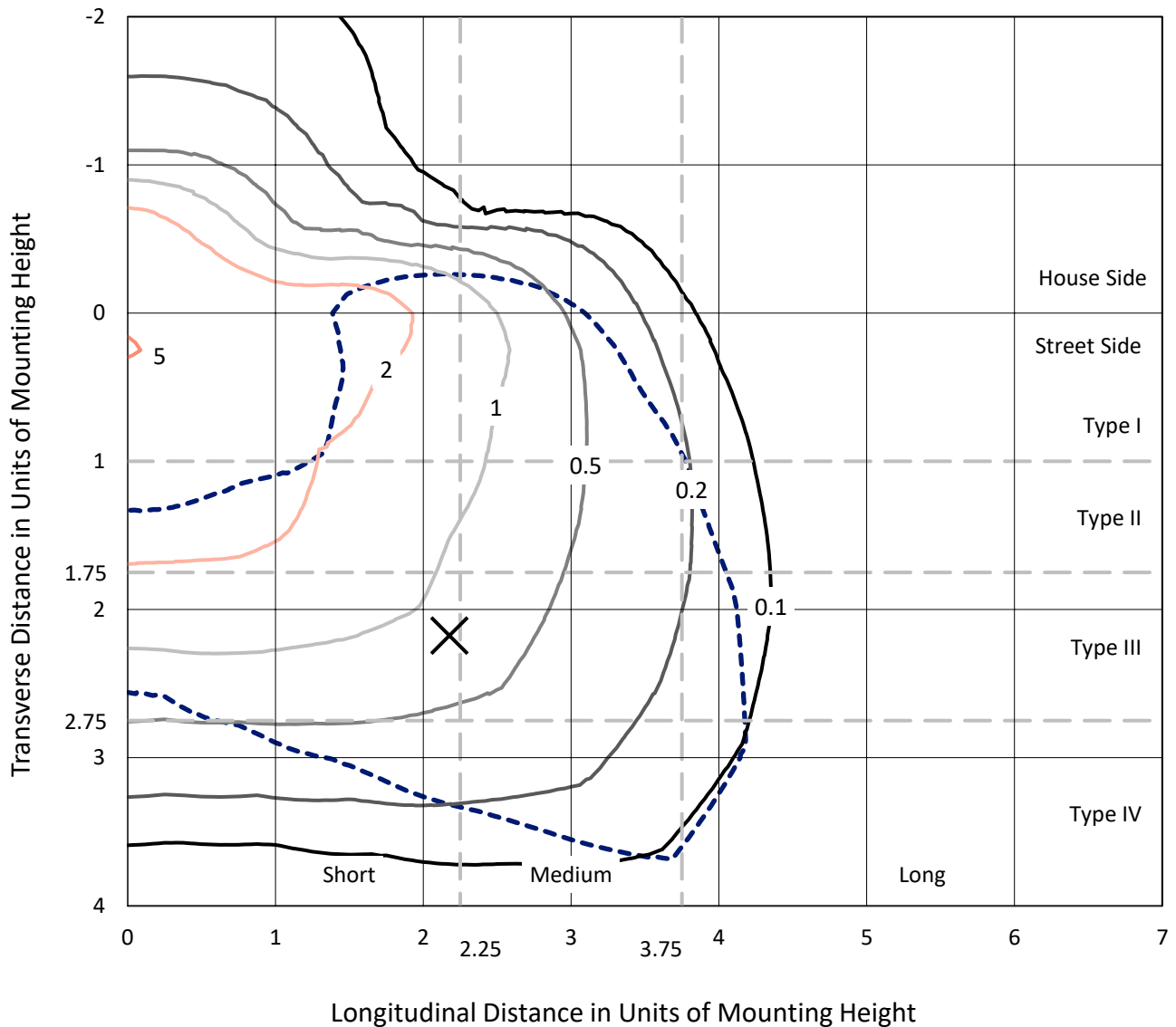
Lumens per Lamp: N/A  
Luminaire Lumens: 24801.9 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9  
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

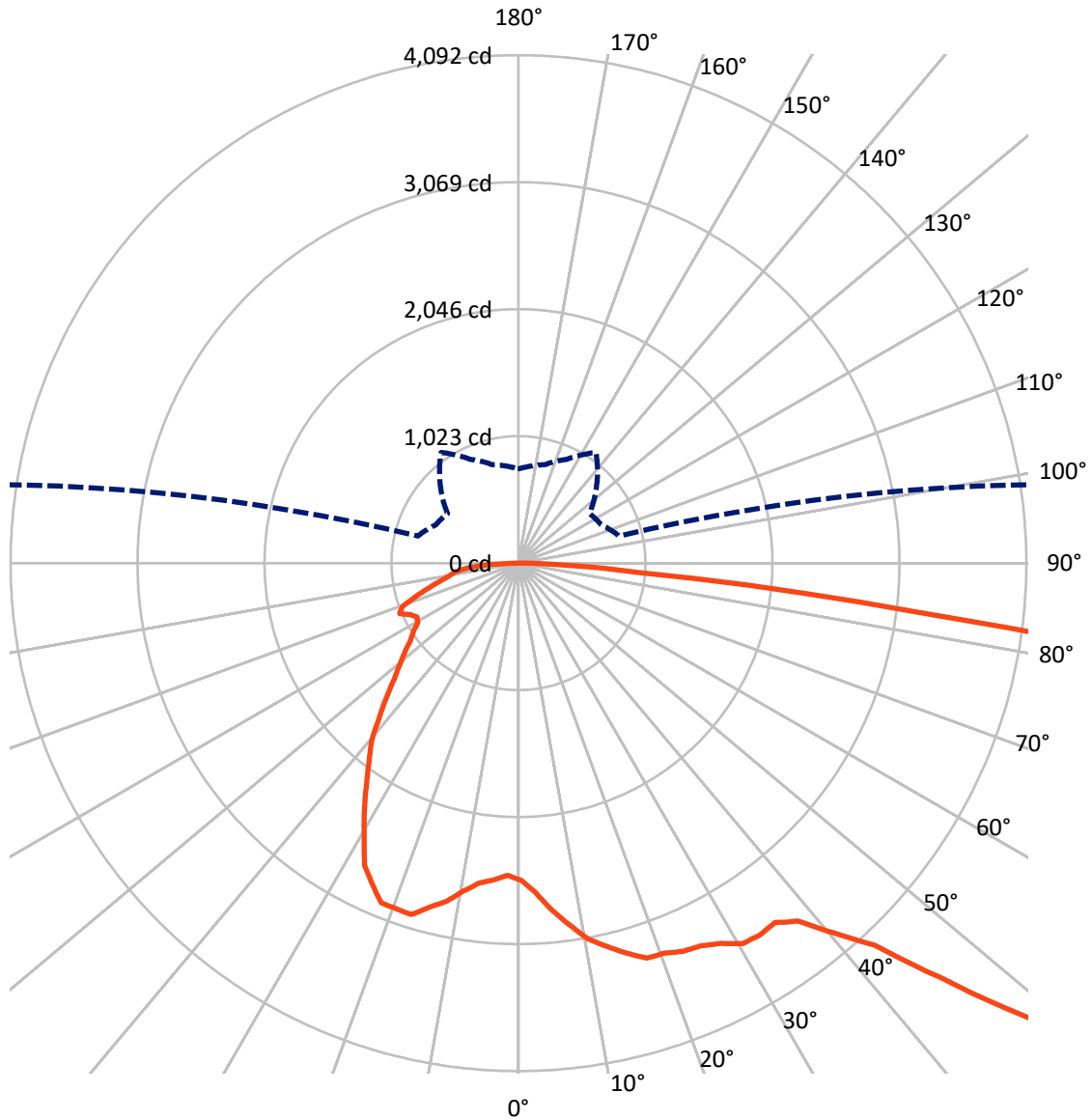
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5521.0	0.0	5521.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	19280.9	0.0	19280.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	24801.9	0.0	24801.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.4	1.1
10°-20°	869.6	3.5
20°-30°	1468.4	5.9
30°-40°	2032.1	8.2
40°-50°	2906.7	11.7
50°-60°	4688.2	18.9
60°-70°	6914.4	27.9
70°-80°	5021.1	20.2
80°-90°	640.1	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°	24801.9	100.0
0°-180°	24801.9	100.0

**Coefficient of Utilization**

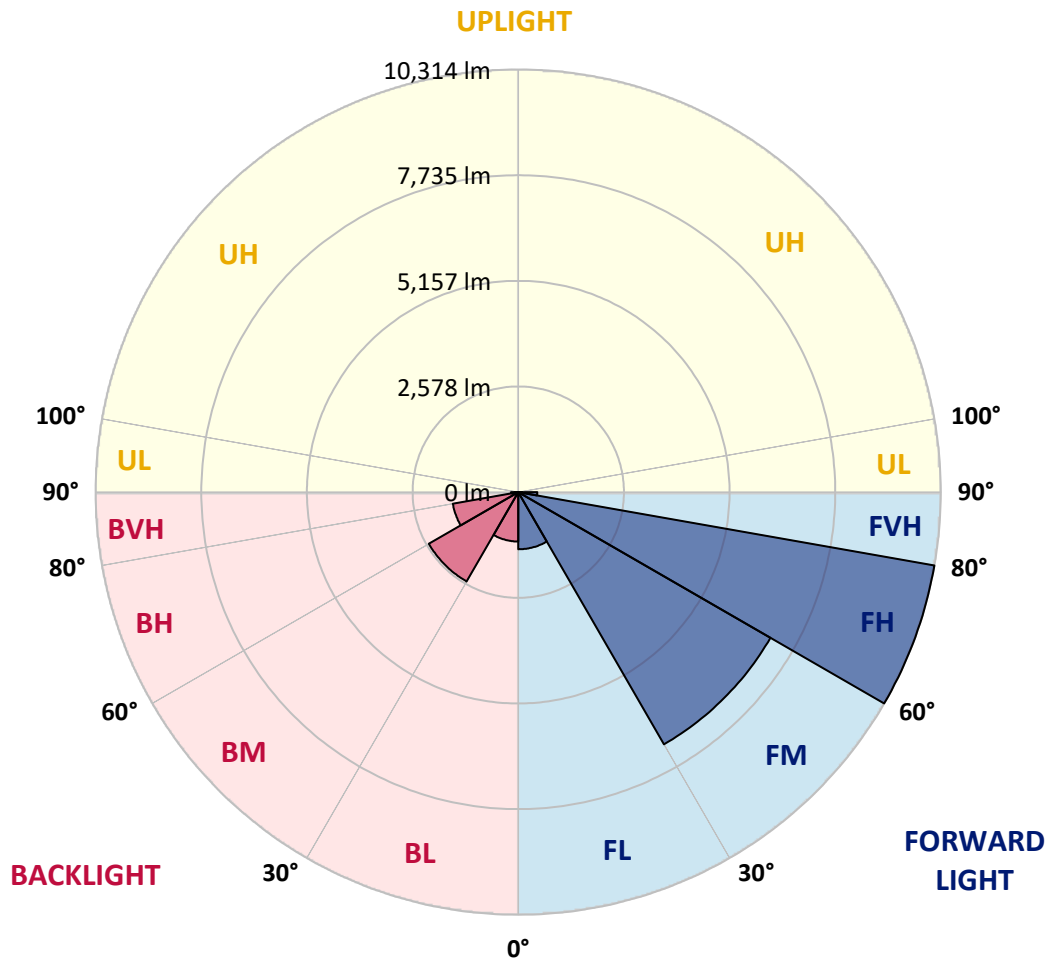


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.9	5.6			
FM (30°-60°)	7107.4	28.7			
FH (60°-80°)	10313.7	41.6			G4/12000
FVH (80°-90°)	465.9	1.9			G3/500
BL (0°-30°)	1205.5	4.9	B3/2500		
BM (30°-60°)	2519.6	10.2	B3/5000		
BH (60°-80°)	1621.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	174.2	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°	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1
2.5°	2690.5	2706.6	2690.5	2687.9	2661.1	2642.4	2658.5	2634.4	2607.6	2596.9	2572.9
5°	2936.6	2939.3	2909.9	2912.5	2856.4	2797.5	2808.2	2736.0	2658.5	2629.0	2580.9
7.5°	3188.0	3158.6	3115.8	3102.4	3014.2	2950.0	2941.9	2877.8	2757.4	2690.5	2623.7
10°	3351.1	3361.8	3292.3	3233.5	3158.6	3081.0	3078.3	2958.0	2888.5	2789.5	2703.9
12.5°	3495.6	3498.2	3439.4	3345.8	3252.2	3155.9	3169.3	3115.8	2998.1	2904.5	2818.9
15°	3607.9	3591.9	3527.7	3442.1	3343.1	3268.2	3260.2	3214.7	3115.8	3038.2	2896.5
17.5°	3640.0	3632.0	3567.8	3476.8	3380.6	3324.4	3345.8	3270.9	3230.8	3161.3	3024.9
20°	3578.5	3559.8	3549.1	3447.4	3377.9	3372.5	3353.8	3369.9	3303.0	3238.8	3139.9
22.5°	3466.2	3458.1	3452.8	3372.5	3340.5	3364.5	3396.6	3420.7	3410.0	3348.5	3236.1
25°	3351.1	3388.6	3353.8	3316.4	3361.8	3423.4	3415.3	3492.9	3492.9	3474.2	3380.6
27.5°	3431.4	3407.3	3380.6	3361.8	3377.9	3474.2	3468.8	3562.4	3597.2	3562.4	3455.5
30°	3632.0	3607.9	3530.3	3447.4	3426.0	3530.3	3557.1	3640.0	3656.0	3570.5	3479.5
32.5°	4009.1	3995.7	3872.7	3629.3	3498.2	3557.1	3570.5	3664.1	3650.7	3597.2	3559.8
35°	4568.0	4522.6	4351.4	3939.5	3650.7	3591.9	3557.1	3632.0	3682.8	3656.0	3621.3
37.5°	5180.5	5129.7	4918.4	4396.9	3926.2	3685.5	3658.7	3720.2	3779.1	3765.7	3693.5
40°	5766.2	5766.2	5576.3	4969.2	4335.4	3912.8	3918.1	3848.6	3902.1	3878.0	3891.4
42.5°	6343.9	6322.5	6245.0	5640.5	4774.0	4292.6	4207.0	4033.1	4129.4	4121.4	4140.1
45°	6929.6	6913.6	6892.2	6266.4	5402.5	4806.1	4760.6	4447.7	4536.0	4498.5	4578.7
47.5°	7397.7	7416.4	7416.4	6964.4	6073.8	5490.7	5423.9	4929.1	5097.6	5116.3	5135.0
50°	7796.2	7804.2	7796.2	7630.3	6822.6	6274.4	6138.0	5635.2	5803.7	5950.8	6121.9
52.5°	8347.1	8357.8	8320.4	8256.2	7839.0	7098.1	6945.7	6386.7	6731.7	6886.8	7194.4
55°	9026.4	8946.2	8876.7	8924.8	8815.2	8004.8	7847.0	7162.3	7681.2	7887.1	8502.2
57.5°	9152.1	9221.7	9398.2	9780.6	9938.4	8887.4	8796.4	8114.4	8753.6	8932.8	9959.8
60°	9596.1	9481.1	9914.4	10743.5	10920.0	10037.4	9943.8	9157.5	9820.8	10008.0	11305.1
62.5°	9887.6	9882.3	10524.2	11508.4	11909.5	11230.2	11040.3	10513.5	10973.5	11155.3	12770.7
65°	9802.0	9879.6	11018.9	11957.7	12736.0	12586.2	12476.5	11679.5	12286.7	12270.6	13725.5
67.5°	9021.1	9240.4	10706.0	12281.3	13966.2	14239.0	14204.3	13319.0	13353.8	13014.1	14150.8
70°	7937.9	7863.0	9382.1	11944.3	14581.4	16199.4	16191.4	14538.6	14313.9	13177.3	12931.2
72°	6097.9	6015.0	7263.9	10256.7	14257.8	16983.1	17223.8	15383.7	14303.2	12500.6	10682.0
72.5°	5536.2	5464.0	6707.6	9654.9	13899.4	17186.3	17074.0	15415.8	14190.9	12182.3	9978.6
75°	2548.8	2465.9	3351.1	5910.6	10842.4	15228.6	15611.1	14426.3	12393.6	9697.7	5977.5
77.5°	759.6	735.5	1077.8	2385.7	6301.1	11219.5	11366.6	10885.2	8652.0	5311.6	2217.2
80°	422.6	425.2	556.3	893.3	2770.8	6485.7	7015.2	6723.7	4244.4	1754.5	738.2
82.5°	235.4	248.7	347.7	529.6	1273.1	2976.7	3204.1	3089.0	1535.2	823.7	403.8
85°	123.0	128.4	181.9	283.5	722.1	941.4	968.2	1037.7	797.0	561.6	216.6
87.5°	48.1	48.1	66.9	117.7	267.4	291.5	262.1	318.3	457.3	363.7	107.0
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°	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1
2.5°	2594.3	2572.9	2570.2	2535.4	2546.1	2516.7	2519.4	2514.0	2516.7	2511.4	2498.0
5°	2580.9	2564.8	2519.4	2548.8	2522.1	2559.5	2588.9	2578.2	2586.2	2583.6	2586.2
7.5°	2599.6	2578.2	2572.9	2556.8	2580.9	2596.9	2621.0	2687.9	2682.5	2690.5	2706.6
10°	2655.8	2631.7	2615.7	2639.7	2626.4	2677.2	2703.9	2738.7	2800.2	2802.9	2770.8
12.5°	2765.4	2749.4	2717.3	2722.6	2768.1	2784.2	2800.2	2821.6	2861.7	2853.7	2883.1
15°	2891.1	2856.4	2837.6	2832.3	2843.0	2861.7	2859.0	2880.4	2901.8	2920.6	2912.5
17.5°	2982.1	2936.6	2941.9	2968.7	2966.0	2960.7	2925.9	2915.2	2925.9	2936.6	2931.3
20°	3075.7	3081.0	3040.9	3016.8	3006.1	2952.6	2925.9	2893.8	2861.7	2877.8	2901.8
22.5°	3193.4	3169.3	3110.4	3038.2	2984.7	2952.6	2869.7	2813.6	2813.6	2829.6	2821.6
25°	3327.1	3276.3	3174.6	3043.6	2976.7	2840.3	2781.5	2773.5	2752.1	2776.1	2786.8
27.5°	3431.4	3385.9	3246.8	3024.9	2840.3	2730.7	2695.9	2685.2	2720.0	2722.6	2765.4
30°	3474.2	3460.8	3257.5	2976.7	2701.2	2524.7	2503.3	2551.5	2588.9	2645.1	2647.8
32.5°	3530.3	3535.7	3273.6	2864.4	2519.4	2342.9	2310.8	2369.6	2476.6	2522.1	2556.8
35°	3623.9	3650.7	3260.2	2725.3	2326.8	2158.3	2153.0	2169.0	2273.3	2353.6	2399.0
37.5°	3787.1	3781.7	3257.5	2559.5	2174.4	1997.9	1955.1	1960.4	2029.9	2096.8	2088.8
40°	4006.4	3985.0	3249.5	2342.9	1976.5	1861.5	1789.2	1762.5	1757.1	1738.4	1743.8
42.5°	4305.9	4263.2	3246.8	2123.6	1797.3	1674.2	1623.4	1553.9	1503.1	1406.8	1412.1
45°	4723.2	4648.3	3177.3	1917.6	1620.7	1519.1	1441.6	1390.7	1281.1	1160.7	1160.7
47.5°	5367.7	5124.3	3180.0	1690.3	1449.6	1366.7	1313.2	1224.9	1107.2	1011.0	1000.3
50°	6317.2	5760.9	3089.0	1511.1	1310.5	1254.3	1198.2	1096.5	984.2	917.4	925.4
52.5°	7542.1	6710.3	3086.4	1350.6	1200.9	1160.7	1099.2	1008.3	925.4	882.6	866.5
55°	9002.4	7967.3	3182.7	1219.6	1088.5	1067.1	1040.4	965.5	885.3	847.8	845.1
57.5°	10497.4	9194.9	3337.8	1126.0	992.2	1008.3	989.6	930.7	866.5	823.7	818.4
60°	11826.6	10168.4	3024.9	1013.6	906.7	941.4	968.2	917.4	882.6	879.9	861.2
62.5°	12829.6	10585.7	2300.1	928.1	861.2	925.4	997.6	1029.7	1013.6	1035.0	1037.7
65°	13196.0	10334.3	1583.3	882.6	826.4	962.8	1123.3	1112.6	1019.0	978.9	1000.3
67.5°	12682.5	9315.3	1174.1	829.1	802.3	1040.4	1195.5	1061.8	920.0	914.7	898.6
70°	10906.6	7895.1	957.5	772.9	762.2	997.6	1163.4	984.2	866.5	831.8	815.7
72°	8689.5	6148.7	839.8	732.8	698.0	890.6	1088.5	922.7	821.1	778.3	759.6
72.5°	7932.6	5699.4	823.7	714.1	684.7	866.5	1051.1	904.0	810.4	772.9	743.5
75°	4351.4	2917.9	724.8	655.3	577.7	748.9	973.5	847.8	764.9	711.4	706.1
77.5°	1618.1	1131.3	625.8	580.4	500.1	647.2	885.3	805.0	695.4	628.5	615.1
80°	620.5	596.4	510.8	489.4	419.9	567.0	815.7	722.1	591.1	524.2	502.8
82.5°	377.1	347.7	387.8	382.5	320.9	516.2	767.6	676.6	524.2	425.2	411.9
85°	205.9	205.9	270.1	259.4	224.7	411.9	580.4	449.3	331.6	272.8	278.1
87.5°	90.9	107.0	144.4	136.4	123.0	232.7	283.5	238.0	165.8	112.3	120.4
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)