

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: P478415

Luminaire Tested: **IFLD-L-SA7A-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478415
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

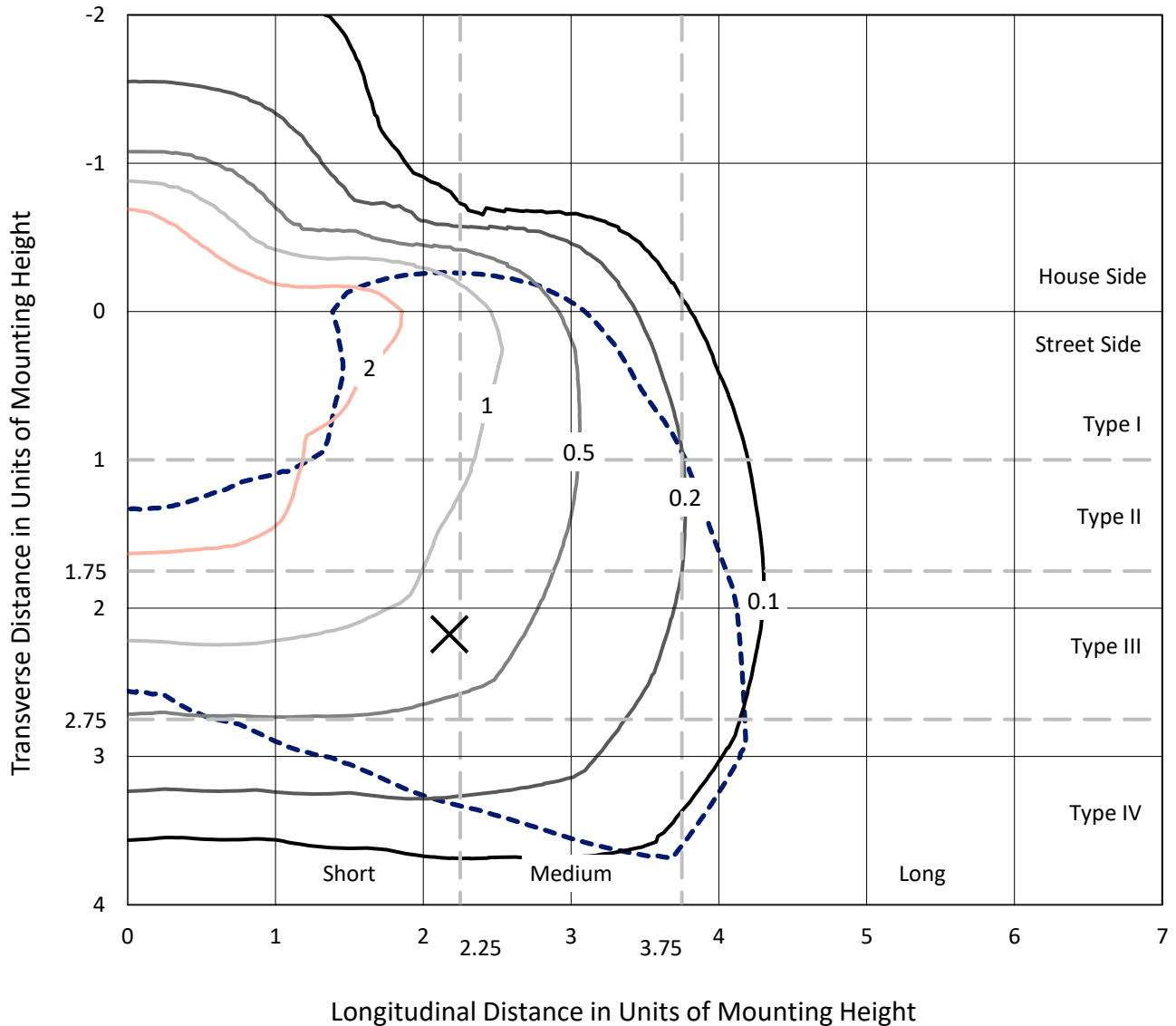
Lumens per Lamp: N/A
Luminaire Lumens: 23304.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

REPORT NUMBER: P478415
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

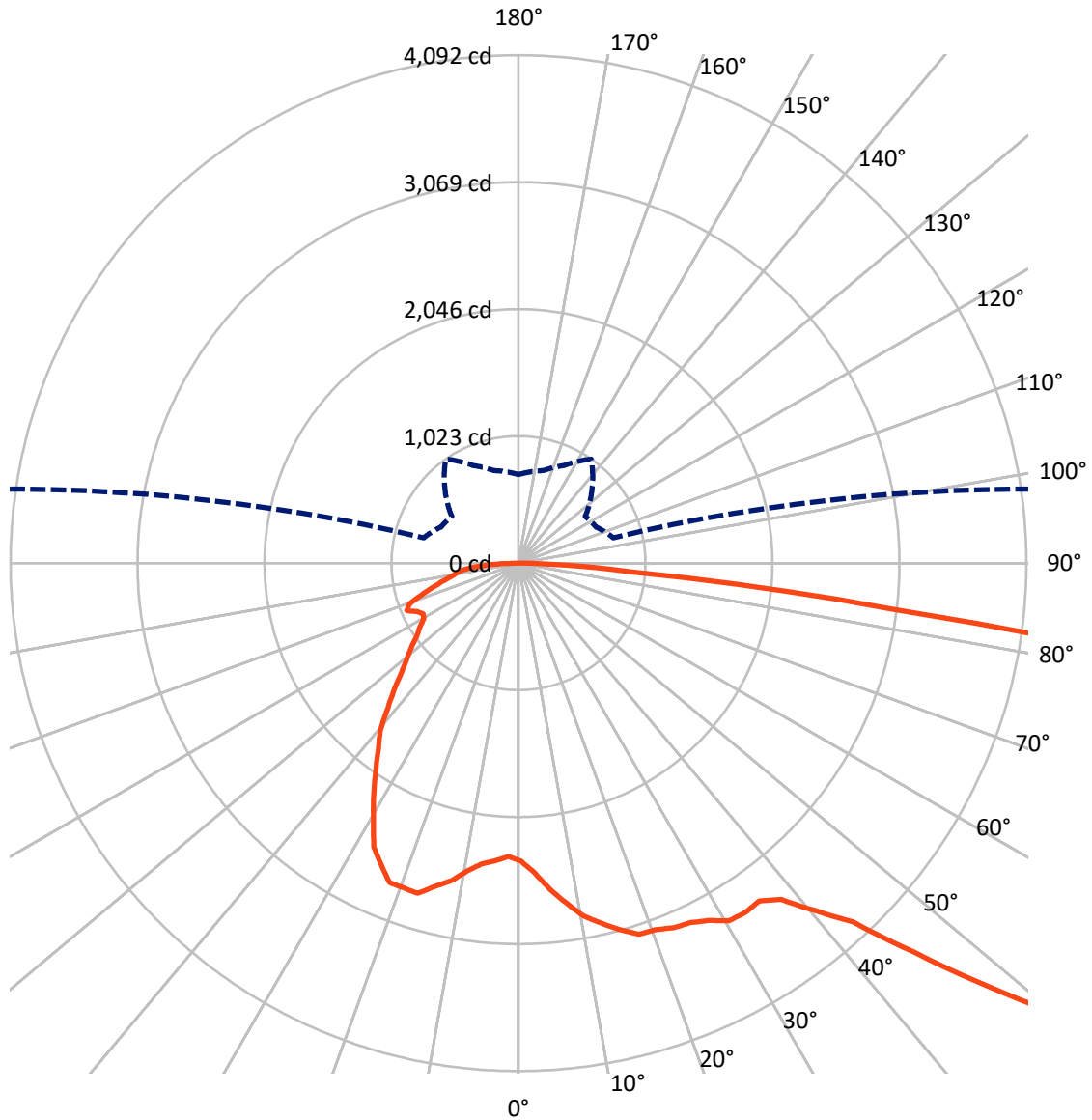
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P478415
CATALOG NUMBER: IFLD-L-SA7A-722-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478415
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5187.7	0.0	5187.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18116.8	0.0	18116.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	23304.5	0.0	23304.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.1
10°-20°	817.1	3.5
20°-30°	1379.8	5.9
30°-40°	1909.4	8.2
40°-50°	2731.2	11.7
50°-60°	4405.1	18.9
60°-70°	6497.0	27.9
70°-80°	4717.9	20.2
80°-90°	601.4	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°	23304.5	100.0
0°-180°	23304.5	100.0

Coefficient of Utilization



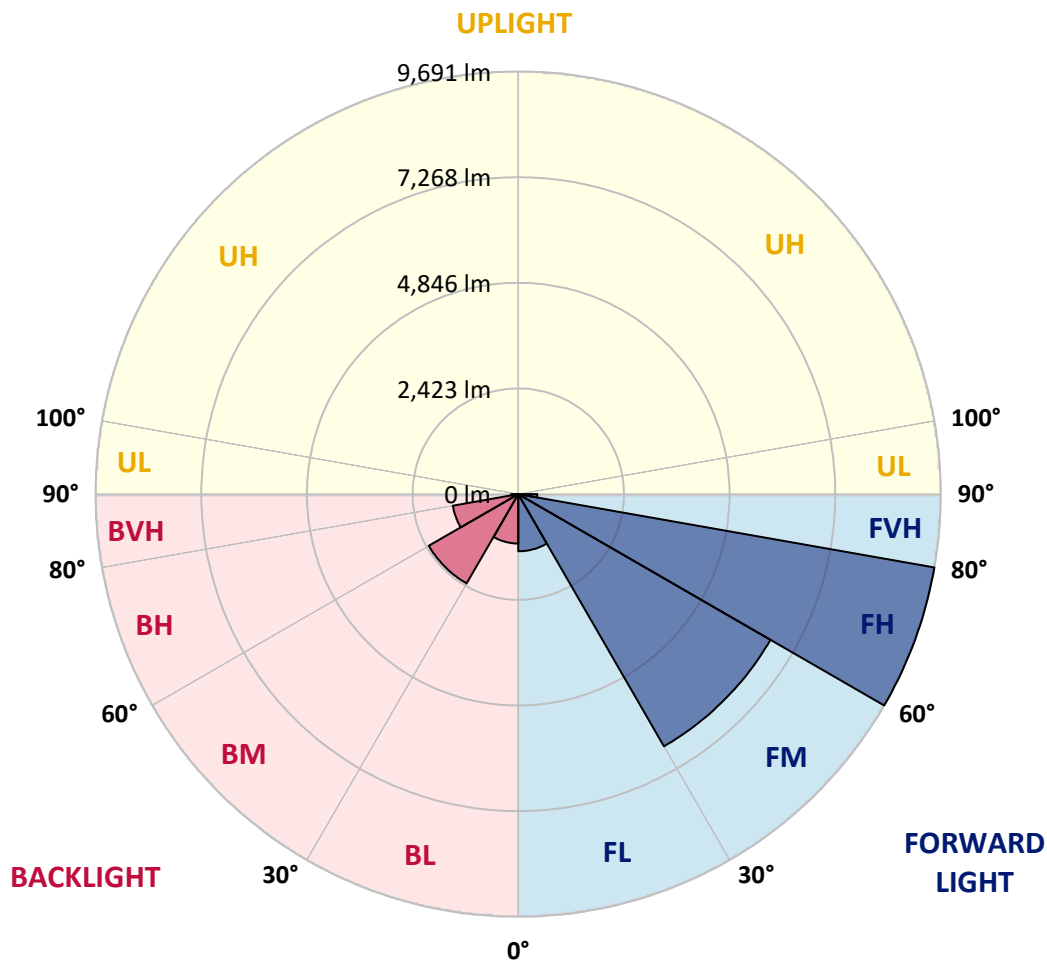
REPORT NUMBER: P478415
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.7	5.6			
FM (30°-60°)	6678.3	28.7			
FH (60°-80°)	9691.1	41.6			G4/12000
FVH (80°-90°)	437.7	1.9			G3/500
BL (0°-30°)	1132.7	4.9	B3/2500		
BM (30°-60°)	2367.5	10.2	B2/2500		
BH (60°-80°)	1523.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	163.7	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





REPORT NUMBER: P478415
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9
2.5°	2528.1	2543.2	2528.1	2525.6	2500.5	2482.9	2497.9	2475.3	2450.2	2440.2	2417.5
5°	2759.3	2761.8	2734.2	2736.7	2683.9	2628.6	2638.7	2570.8	2497.9	2470.3	2425.1
7.5°	2995.5	2967.9	2927.7	2915.1	2832.2	2771.9	2764.3	2704.0	2590.9	2528.1	2465.3
10°	3148.8	3158.9	3093.5	3038.3	2967.9	2895.0	2892.5	2779.4	2714.1	2621.1	2540.7
12.5°	3284.5	3287.0	3231.8	3143.8	3055.8	2965.4	2977.9	2927.7	2817.1	2729.1	2648.7
15°	3390.1	3375.0	3314.7	3234.3	3141.3	3070.9	3063.4	3020.7	2927.7	2854.8	2721.6
17.5°	3420.2	3412.7	3352.4	3266.9	3176.5	3123.7	3143.8	3073.4	3035.7	2970.4	2842.2
20°	3362.4	3344.8	3334.8	3239.3	3174.0	3168.9	3151.3	3166.4	3103.6	3043.3	2950.3
22.5°	3256.9	3249.3	3244.3	3168.9	3138.8	3161.4	3191.5	3214.2	3204.1	3146.3	3040.8
25°	3148.8	3184.0	3151.3	3116.2	3158.9	3216.7	3209.1	3282.0	3282.0	3264.4	3176.5
27.5°	3224.2	3201.6	3176.5	3158.9	3174.0	3264.4	3259.4	3347.4	3380.0	3347.4	3246.8
30°	3412.7	3390.1	3317.2	3239.3	3219.2	3317.2	3342.3	3420.2	3435.3	3354.9	3269.4
32.5°	3767.0	3754.5	3638.9	3410.2	3287.0	3342.3	3354.9	3442.8	3430.3	3380.0	3344.8
35°	4292.3	4249.5	4088.7	3701.7	3430.3	3375.0	3342.3	3412.7	3460.4	3435.3	3402.6
37.5°	4867.7	4820.0	4621.5	4131.4	3689.1	3463.0	3437.8	3495.6	3550.9	3538.3	3470.5
40°	5418.1	5418.1	5239.7	4669.2	4073.6	3676.6	3681.6	3616.2	3666.5	3643.9	3656.5
42.5°	5960.9	5940.8	5867.9	5300.0	4485.8	4033.4	3953.0	3789.6	3880.1	3872.6	3890.2
45°	6511.3	6496.2	6476.1	5888.0	5076.3	4515.9	4473.2	4179.2	4262.1	4226.9	4302.3
47.5°	6951.0	6968.6	6968.6	6543.9	5707.1	5159.2	5096.4	4631.5	4789.8	4807.4	4825.0
50°	7325.5	7333.0	7325.5	7169.7	6410.7	5895.6	5767.4	5295.0	5453.3	5591.5	5752.3
52.5°	7843.2	7853.2	7818.0	7757.7	7365.7	6669.6	6526.3	6001.1	6325.3	6471.0	6760.0
55°	8481.5	8406.1	8340.7	8386.0	8282.9	7521.5	7373.2	6729.9	7217.4	7410.9	7988.9
57.5°	8599.6	8664.9	8830.8	9190.1	9338.4	8350.8	8265.3	7624.5	8225.1	8393.5	9358.5
60°	9016.7	8908.7	9315.8	10094.8	10260.7	9431.4	9343.4	8604.6	9227.8	9403.8	10622.6
62.5°	9290.7	9285.6	9888.8	10813.6	11190.5	10552.2	10373.8	9878.7	10311.0	10481.8	11999.7
65°	9210.2	9283.1	10353.7	11235.7	11967.0	11826.3	11723.3	10974.4	11544.9	11529.8	12896.9
67.5°	8476.4	8682.5	10059.7	11539.8	13123.0	13379.4	13346.7	12514.9	12547.5	12228.4	13296.4
70°	7458.7	7388.3	8815.7	11223.2	13701.0	15221.4	15213.9	13660.8	13449.7	12381.7	12150.5
72°	5729.7	5651.8	6825.4	9637.5	13397.0	15957.7	16183.9	14454.9	13439.7	11745.9	10037.0
72.5°	5202.0	5134.1	6302.7	9072.0	13060.2	16148.7	16043.2	14485.1	13334.1	11446.8	9376.1
75°	2394.9	2317.0	3148.8	5553.8	10187.8	14309.2	14668.5	13555.3	11645.4	9112.2	5616.6
77.5°	713.7	691.1	1012.8	2241.6	5920.7	10542.2	10680.4	10228.0	8129.6	4990.9	2083.3
80°	397.1	399.6	522.7	839.4	2603.5	6094.1	6591.7	6317.8	3988.2	1648.5	693.6
82.5°	221.1	233.7	326.7	497.6	1196.2	2797.0	3010.6	2902.5	1442.5	774.0	379.5
85°	115.6	120.6	170.9	266.4	678.5	884.6	909.7	975.1	748.9	527.7	203.6
87.5°	45.2	45.2	62.8	110.6	251.3	273.9	246.3	299.1	429.7	341.8	100.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478415
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9
2.5°	2437.6	2417.5	2415.0	2382.4	2392.4	2364.8	2367.3	2362.2	2364.8	2359.7	2347.2
5°	2425.1	2410.0	2367.3	2394.9	2369.8	2405.0	2432.6	2422.6	2430.1	2427.6	2430.1
7.5°	2442.7	2422.6	2417.5	2402.5	2425.1	2440.2	2462.8	2525.6	2520.6	2528.1	2543.2
10°	2495.4	2472.8	2457.7	2480.4	2467.8	2515.5	2540.7	2573.3	2631.1	2633.7	2603.5
12.5°	2598.5	2583.4	2553.2	2558.3	2601.0	2616.1	2631.1	2651.2	2688.9	2681.4	2709.0
15°	2716.6	2683.9	2666.3	2661.3	2671.3	2688.9	2686.4	2706.5	2726.6	2744.2	2736.7
17.5°	2802.0	2759.3	2764.3	2789.5	2786.9	2781.9	2749.3	2739.2	2749.3	2759.3	2754.3
20°	2890.0	2895.0	2857.3	2834.7	2824.6	2774.4	2749.3	2719.1	2688.9	2704.0	2726.6
22.5°	3000.6	2977.9	2922.7	2854.8	2804.5	2774.4	2696.5	2643.7	2643.7	2658.8	2651.2
25°	3126.2	3078.5	2983.0	2859.8	2797.0	2668.8	2613.5	2606.0	2585.9	2608.5	2618.6
27.5°	3224.2	3181.5	3050.8	2842.2	2668.8	2565.8	2533.1	2523.1	2555.7	2558.3	2598.5
30°	3264.4	3251.9	3060.9	2797.0	2538.2	2372.3	2352.2	2397.4	2432.6	2485.4	2487.9
32.5°	3317.2	3322.2	3075.9	2691.5	2367.3	2201.4	2171.3	2226.5	2327.1	2369.8	2402.5
35°	3405.2	3430.3	3063.4	2560.8	2186.3	2028.0	2023.0	2038.1	2136.1	2211.5	2254.2
37.5°	3558.4	3553.4	3060.9	2405.0	2043.1	1877.2	1837.0	1842.0	1907.4	1970.2	1962.7
40°	3764.5	3744.4	3053.3	2201.4	1857.1	1749.1	1681.2	1656.1	1651.1	1633.5	1638.5
42.5°	4046.0	4005.8	3050.8	1995.3	1688.8	1573.2	1525.4	1460.1	1412.3	1321.9	1326.9
45°	4438.0	4367.6	2985.5	1801.8	1522.9	1427.4	1354.5	1306.8	1203.7	1090.7	1090.7
47.5°	5043.6	4815.0	2988.0	1588.2	1362.1	1284.2	1233.9	1151.0	1040.4	949.9	939.9
50°	5935.8	5413.1	2902.5	1419.9	1231.4	1178.6	1125.8	1030.3	924.8	862.0	869.5
52.5°	7086.7	6305.2	2900.0	1269.1	1128.3	1090.7	1032.9	947.4	869.5	829.3	814.2
55°	8458.9	7486.3	2990.5	1145.9	1022.8	1002.7	977.6	907.2	831.8	796.6	794.1
57.5°	9863.6	8639.8	3136.3	1058.0	932.3	947.4	929.8	874.5	814.2	774.0	769.0
60°	11112.6	9554.5	2842.2	952.4	851.9	884.6	909.7	862.0	829.3	826.8	809.2
62.5°	12055.0	9946.6	2161.2	872.0	809.2	869.5	937.4	967.5	952.4	972.5	975.1
65°	12399.3	9710.3	1487.7	829.3	776.5	904.7	1055.5	1045.4	957.5	919.8	939.9
67.5°	11916.8	8752.9	1103.2	779.0	753.9	977.6	1123.3	997.7	864.5	859.5	844.4
70°	10248.1	7418.5	899.7	726.3	716.2	937.4	1093.2	924.8	814.2	781.6	766.5
72°	8164.8	5777.5	789.1	688.6	655.9	836.8	1022.8	867.0	771.5	731.3	713.7
72.5°	7453.6	5355.3	774.0	671.0	643.3	814.2	987.6	849.4	761.4	726.3	698.6
75°	4088.7	2741.7	681.0	615.7	542.8	703.6	914.7	796.6	718.7	668.5	663.4
77.5°	1520.4	1063.0	588.0	545.3	469.9	608.2	831.8	756.4	653.4	590.6	578.0
80°	583.0	560.4	480.0	459.9	394.5	532.8	766.5	678.5	555.4	492.6	472.4
82.5°	354.3	326.7	364.4	359.4	301.6	485.0	721.2	635.8	492.6	399.6	387.0
85°	193.5	193.5	253.8	243.8	211.1	387.0	545.3	422.2	311.6	256.3	261.4
87.5°	85.4	100.5	135.7	128.2	115.6	218.6	266.4	223.7	155.8	105.5	113.1
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)