

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: P478686

Luminaire Tested: **IFLD-M-SA4D-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478686
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

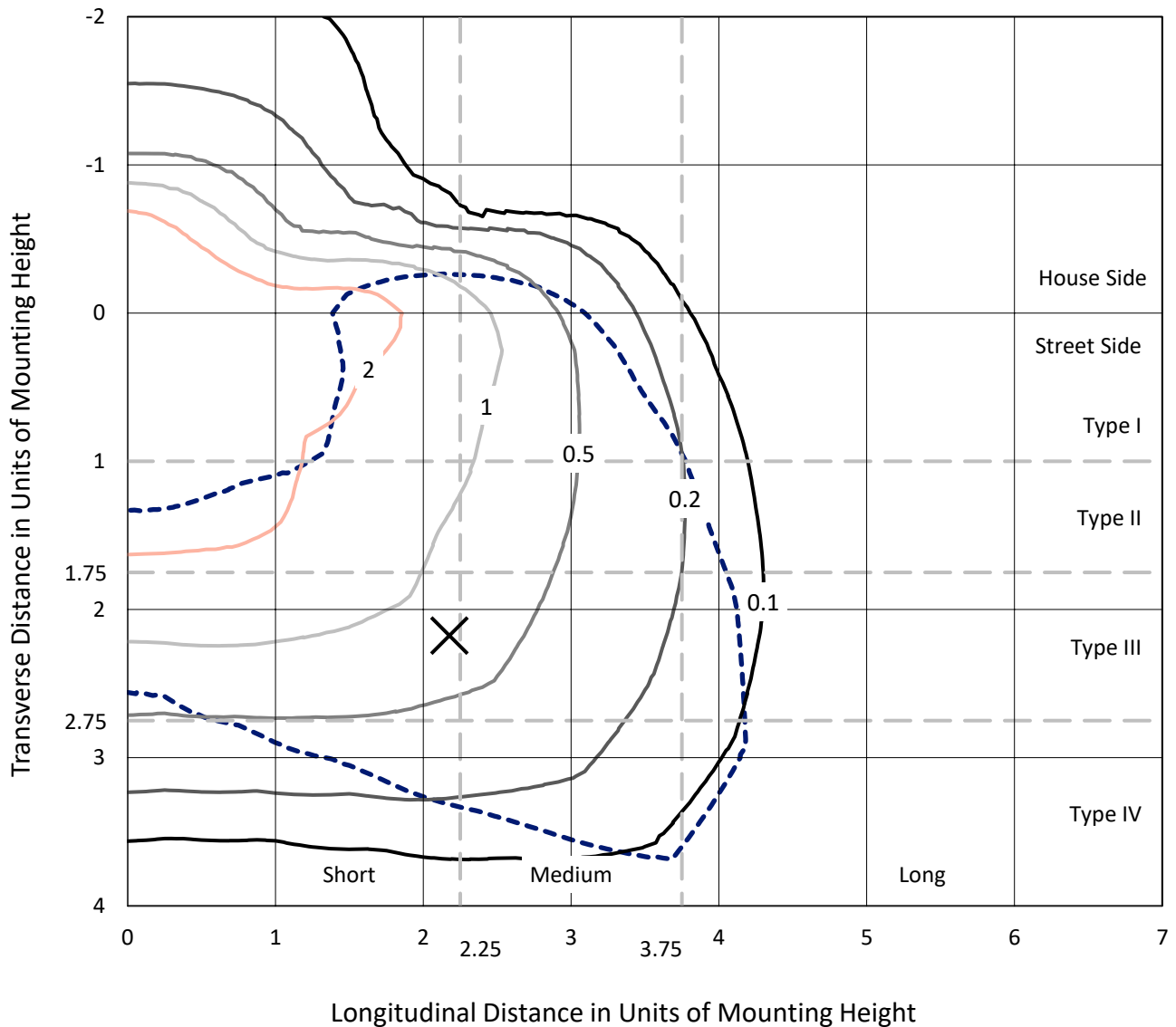
Lumens per Lamp: N/A
Luminaire Lumens: 23244.7 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

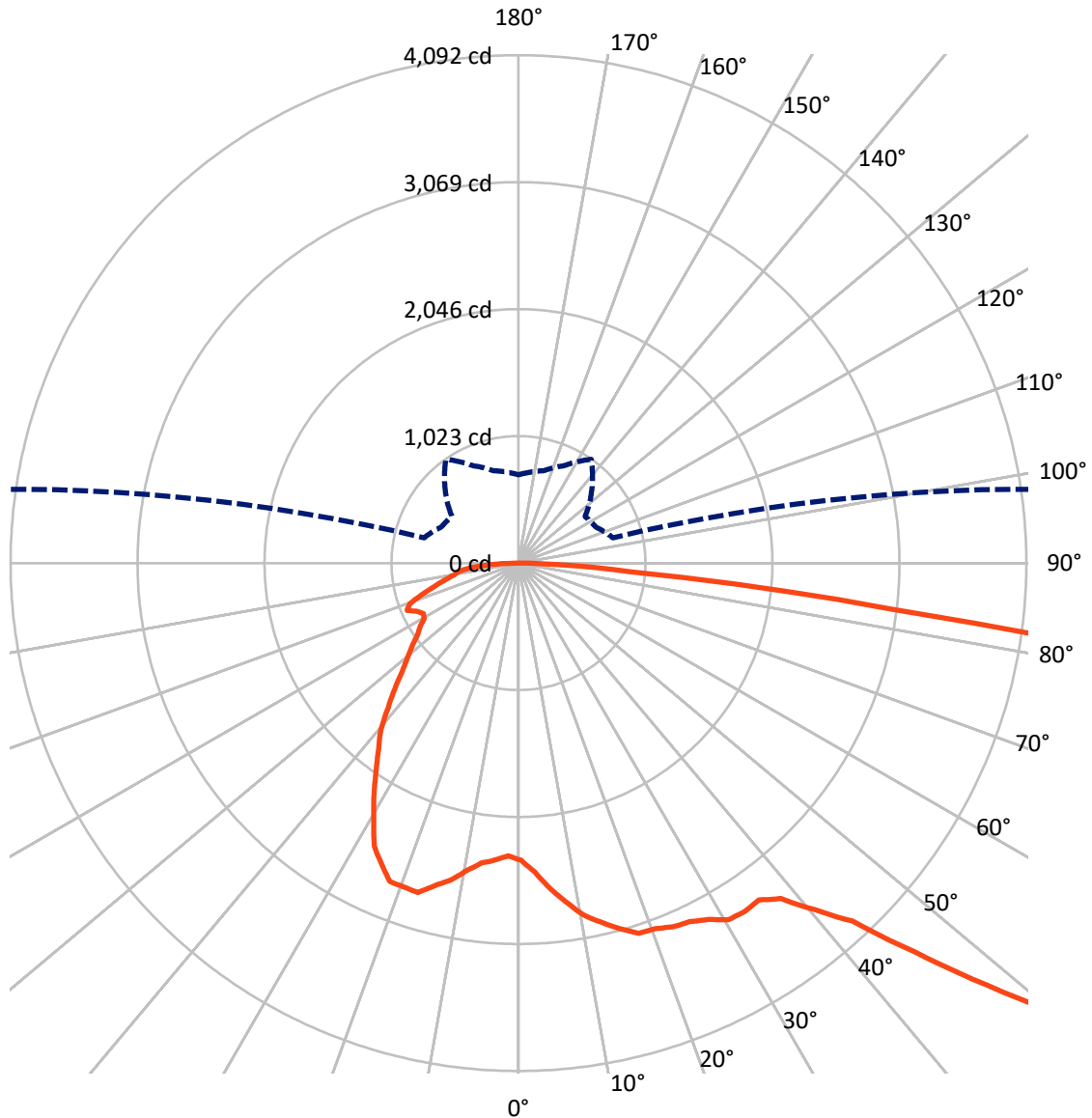
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	5174.4	0.0	5174.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18070.3	0.0	18070.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	23244.7	0.0	23244.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.1
10°-20°	815.0	3.5
20°-30°	1376.2	5.9
30°-40°	1904.5	8.2
40°-50°	2724.2	11.7
50°-60°	4393.9	18.9
60°-70°	6480.3	27.9
70°-80°	4705.8	20.2
80°-90°	599.9	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°	23244.7	100.0
0°-180°	23244.7	100.0



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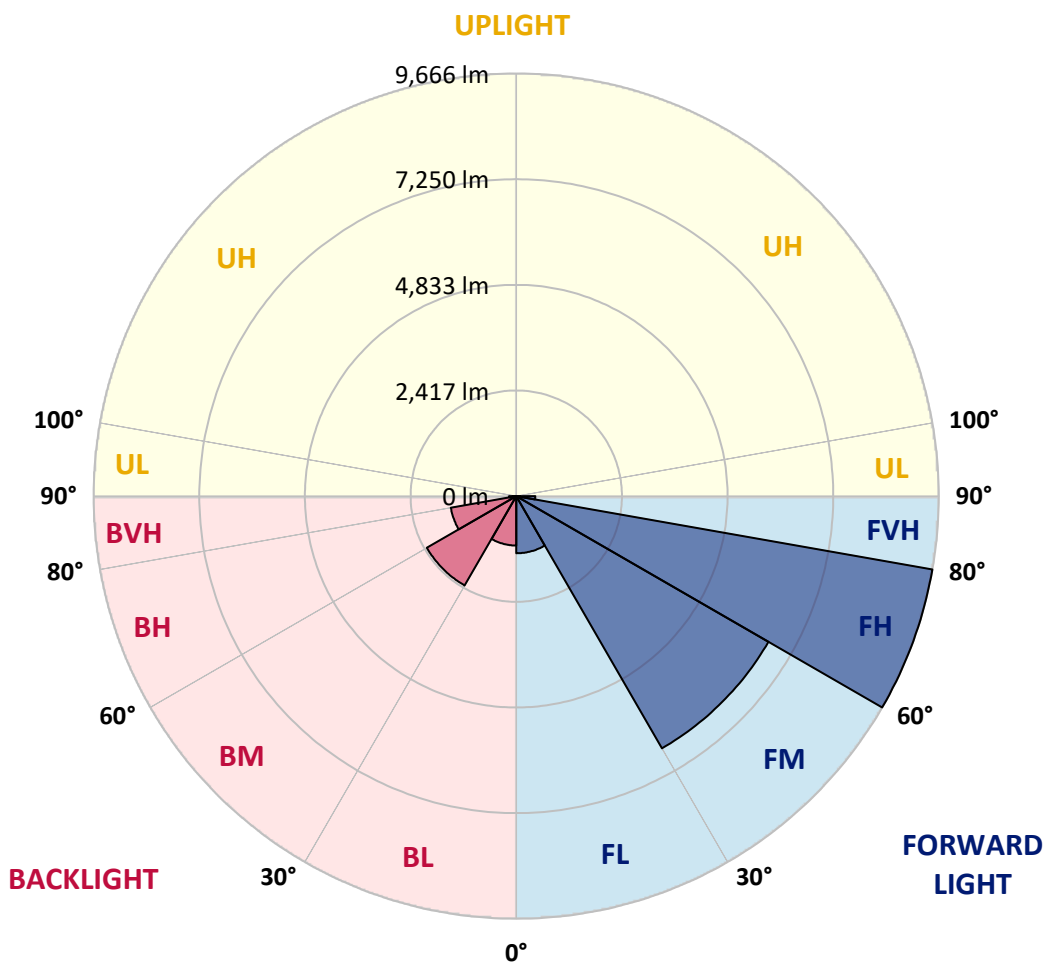
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1306.4	5.6			
FM (30°-60°)	6661.1	28.7			
FH (60°-80°)	9666.2	41.6			G4/12000
FVH (80°-90°)	436.6	1.9			G3/500
BL (0°-30°)	1129.8	4.9	B3/2500		
BM (30°-60°)	2361.4	10.2	B2/2500		
BH (60°-80°)	1519.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	163.3	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°	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8
2.5°	2521.6	2536.7	2521.6	2519.1	2494.0	2476.5	2491.5	2469.0	2443.9	2433.9	2411.3
5°	2752.2	2754.7	2727.2	2729.7	2677.0	2621.9	2631.9	2564.2	2491.5	2464.0	2418.9
7.5°	2987.8	2960.3	2920.2	2907.6	2824.9	2764.8	2757.2	2697.1	2584.3	2521.6	2459.0
10°	3140.7	3150.8	3085.6	3030.5	2960.3	2887.6	2885.1	2772.3	2707.1	2614.4	2534.2
12.5°	3276.1	3278.6	3223.5	3135.7	3048.0	2957.8	2970.3	2920.2	2809.9	2722.1	2641.9
15°	3381.4	3366.3	3306.2	3226.0	3133.2	3063.0	3055.5	3012.9	2920.2	2847.5	2714.6
17.5°	3411.5	3403.9	3343.8	3258.6	3168.3	3115.7	3135.7	3065.5	3027.9	2962.8	2834.9
20°	3353.8	3336.3	3326.2	3231.0	3165.8	3160.8	3143.3	3158.3	3095.6	3035.5	2942.7
22.5°	3248.5	3241.0	3236.0	3160.8	3130.7	3153.3	3183.4	3205.9	3195.9	3138.2	3033.0
25°	3140.7	3175.8	3143.3	3108.2	3150.8	3208.4	3200.9	3273.6	3273.6	3256.0	3168.3
27.5°	3215.9	3193.4	3168.3	3150.8	3165.8	3256.0	3251.0	3338.8	3371.4	3338.8	3238.5
30°	3403.9	3381.4	3308.7	3231.0	3210.9	3308.7	3333.8	3411.5	3426.5	3346.3	3261.1
32.5°	3757.4	3744.8	3629.5	3401.4	3278.6	3333.8	3346.3	3434.0	3421.5	3371.4	3336.3
35°	4281.2	4238.6	4078.2	3692.2	3421.5	3366.3	3333.8	3403.9	3451.6	3426.5	3393.9
37.5°	4855.2	4807.6	4609.6	4120.8	3679.7	3454.1	3429.0	3486.7	3541.8	3529.3	3461.6
40°	5404.2	5404.2	5226.2	4657.2	4063.2	3667.1	3672.1	3607.0	3657.1	3634.5	3647.1
42.5°	5945.6	5925.6	5852.9	5286.4	4474.2	4023.1	3942.9	3779.9	3870.2	3862.6	3880.2
45°	6494.6	6479.5	6459.5	5872.9	5063.3	4504.3	4461.7	4168.4	4251.2	4216.1	4291.3
47.5°	6933.2	6950.7	6950.7	6527.1	5692.4	5146.0	5083.3	4619.6	4777.5	4795.1	4812.6
50°	7306.7	7314.2	7306.7	7151.3	6394.3	5880.4	5752.6	5281.4	5439.3	5577.1	5737.6
52.5°	7823.0	7833.1	7798.0	7737.8	7346.8	6652.5	6509.6	5985.7	6309.1	6454.4	6742.7
55°	8459.7	8384.5	8319.3	8364.5	8261.7	7502.2	7354.3	6712.6	7198.9	7391.9	7968.4
57.5°	8577.5	8642.7	8808.1	9166.6	9314.5	8329.4	8244.1	7605.0	8204.0	8372.0	9334.5
60°	8993.6	8885.8	9291.9	10068.9	10234.4	9407.2	9319.5	8582.5	9204.2	9379.6	10595.3
62.5°	9266.8	9261.8	9863.4	10785.8	11161.8	10525.1	10347.2	9853.4	10284.5	10454.9	11968.9
65°	9186.6	9259.3	10327.1	11206.9	11936.3	11796.0	11693.2	10946.2	11515.2	11500.2	12863.8
67.5°	8454.7	8660.2	10033.8	11510.2	13089.4	13345.0	13312.5	12482.8	12515.4	12197.0	13262.3
70°	7439.5	7369.3	8793.1	11194.4	13665.9	15182.4	15174.8	13625.8	13415.2	12349.9	12119.3
72°	5715.0	5637.3	6807.9	9612.7	13362.6	15916.8	16142.4	14417.9	13405.2	11715.8	10011.3
72.5°	5188.6	5120.9	6286.5	9048.8	13026.7	16107.3	16002.0	14447.9	13299.9	11417.5	9352.1
75°	2388.8	2311.1	3140.7	5539.5	10161.7	14272.5	14630.9	13520.5	11615.5	9088.9	5602.2
77.5°	711.9	689.3	1010.2	2235.9	5905.5	10515.1	10653.0	10201.8	8108.8	4978.1	2078.0
80°	396.0	398.5	521.4	837.2	2596.8	6078.5	6574.8	6301.5	3977.9	1644.3	691.8
82.5°	220.6	233.1	325.9	496.3	1193.1	2789.8	3002.9	2895.1	1438.8	772.0	378.5
85°	115.3	120.3	170.4	265.7	676.8	882.3	907.4	972.6	747.0	526.4	203.0
87.5°	45.1	45.1	62.7	110.3	250.7	273.2	245.6	298.3	428.6	340.9	100.3
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°	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8
2.5°	2431.4	2411.3	2408.8	2376.2	2386.3	2358.7	2361.2	2356.2	2358.7	2353.7	2341.1
5°	2418.9	2403.8	2361.2	2388.8	2363.7	2398.8	2426.4	2416.3	2423.9	2421.4	2423.9
7.5°	2436.4	2416.3	2411.3	2396.3	2418.9	2433.9	2456.4	2519.1	2514.1	2521.6	2536.7
10°	2489.0	2466.5	2451.4	2474.0	2461.5	2509.1	2534.2	2566.7	2624.4	2626.9	2596.8
12.5°	2591.8	2576.8	2546.7	2551.7	2594.3	2609.4	2624.4	2644.4	2682.0	2674.5	2702.1
15°	2709.6	2677.0	2659.5	2654.5	2664.5	2682.0	2679.5	2699.6	2719.6	2737.2	2729.7
17.5°	2794.8	2752.2	2757.2	2782.3	2779.8	2774.8	2742.2	2732.2	2742.2	2752.2	2747.2
20°	2882.6	2887.6	2850.0	2827.4	2817.4	2767.3	2742.2	2712.1	2682.0	2697.1	2719.6
22.5°	2992.9	2970.3	2915.2	2847.5	2797.3	2767.3	2689.6	2636.9	2636.9	2652.0	2644.4
25°	3118.2	3070.6	2975.3	2852.5	2789.8	2662.0	2606.8	2599.3	2579.3	2601.8	2611.9
27.5°	3215.9	3173.3	3043.0	2834.9	2662.0	2559.2	2526.6	2516.6	2549.2	2551.7	2591.8
30°	3256.0	3243.5	3053.0	2789.8	2531.6	2366.2	2346.2	2391.3	2426.4	2479.0	2481.5
32.5°	3308.7	3313.7	3068.1	2684.5	2361.2	2195.8	2165.7	2220.8	2321.1	2363.7	2396.3
35°	3396.4	3421.5	3055.5	2554.2	2180.7	2022.8	2017.8	2032.8	2130.6	2205.8	2248.4
37.5°	3549.3	3544.3	3053.0	2398.8	2037.9	1872.4	1832.3	1837.3	1902.5	1965.2	1957.6
40°	3754.9	3734.8	3045.5	2195.8	1852.4	1744.6	1676.9	1651.8	1646.8	1629.3	1634.3
42.5°	4035.6	3995.5	3043.0	1990.2	1684.4	1569.1	1521.5	1456.3	1408.7	1318.5	1323.5
45°	4426.6	4356.4	2977.8	1797.2	1519.0	1423.7	1351.0	1303.4	1200.7	1087.9	1087.9
47.5°	5030.7	4802.6	2980.3	1584.2	1358.6	1280.9	1230.7	1148.0	1037.7	947.5	937.5
50°	5920.5	5399.2	2895.1	1416.2	1228.2	1175.6	1122.9	1027.7	922.4	859.8	867.3
52.5°	7068.6	6289.0	2892.6	1265.8	1125.5	1087.9	1030.2	945.0	867.3	827.2	812.1
55°	8437.2	7467.1	2982.8	1143.0	1020.2	1000.1	975.1	904.9	829.7	794.6	792.1
57.5°	9838.3	8617.6	3128.2	1055.3	929.9	945.0	927.4	872.3	812.1	772.0	767.0
60°	11084.1	9530.0	2834.9	950.0	849.7	882.3	907.4	859.8	827.2	824.7	807.1
62.5°	12024.1	9921.0	2155.7	869.8	807.1	867.3	935.0	965.0	950.0	970.0	972.6
65°	12367.5	9685.4	1483.9	827.2	774.5	902.4	1052.8	1042.7	955.0	917.4	937.5
67.5°	11886.2	8730.4	1100.4	777.0	752.0	975.1	1120.4	995.1	862.3	857.3	842.2
70°	10221.8	7399.4	897.4	724.4	714.4	935.0	1090.4	922.4	812.1	779.5	764.5
72°	8143.9	5762.6	787.1	686.8	654.2	834.7	1020.2	864.8	769.5	729.4	711.9
72.5°	7434.5	5341.5	772.0	669.3	641.7	812.1	985.1	847.2	759.5	724.4	696.8
75°	4078.2	2734.7	679.3	614.1	541.4	701.8	912.4	794.6	716.9	666.8	661.7
77.5°	1516.5	1060.3	586.5	543.9	468.7	606.6	829.7	754.5	651.7	589.0	576.5
80°	581.5	559.0	478.8	458.7	393.5	531.4	764.5	676.8	554.0	491.3	471.2
82.5°	353.4	325.9	363.5	358.4	300.8	483.8	719.4	634.2	491.3	398.5	386.0
85°	193.0	193.0	253.2	243.1	210.6	386.0	543.9	421.1	310.8	255.7	260.7
87.5°	85.2	100.3	135.4	127.8	115.3	218.1	265.7	223.1	155.4	105.3	112.8
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)