

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: P478444

Luminaire Tested: **IFLD-S-SA6A-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478444
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

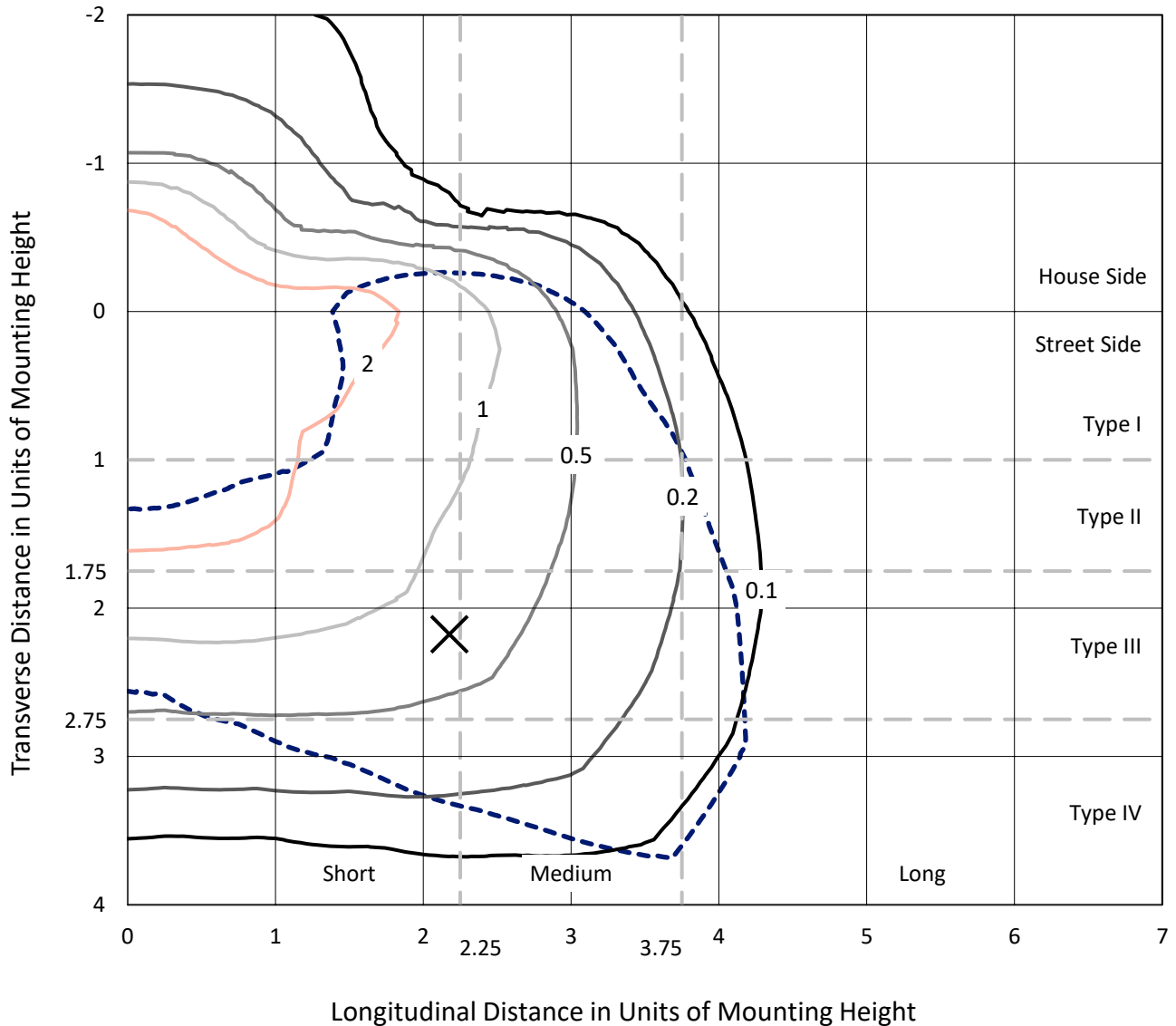
Lumens per Lamp: N/A
Luminaire Lumens: 22815 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

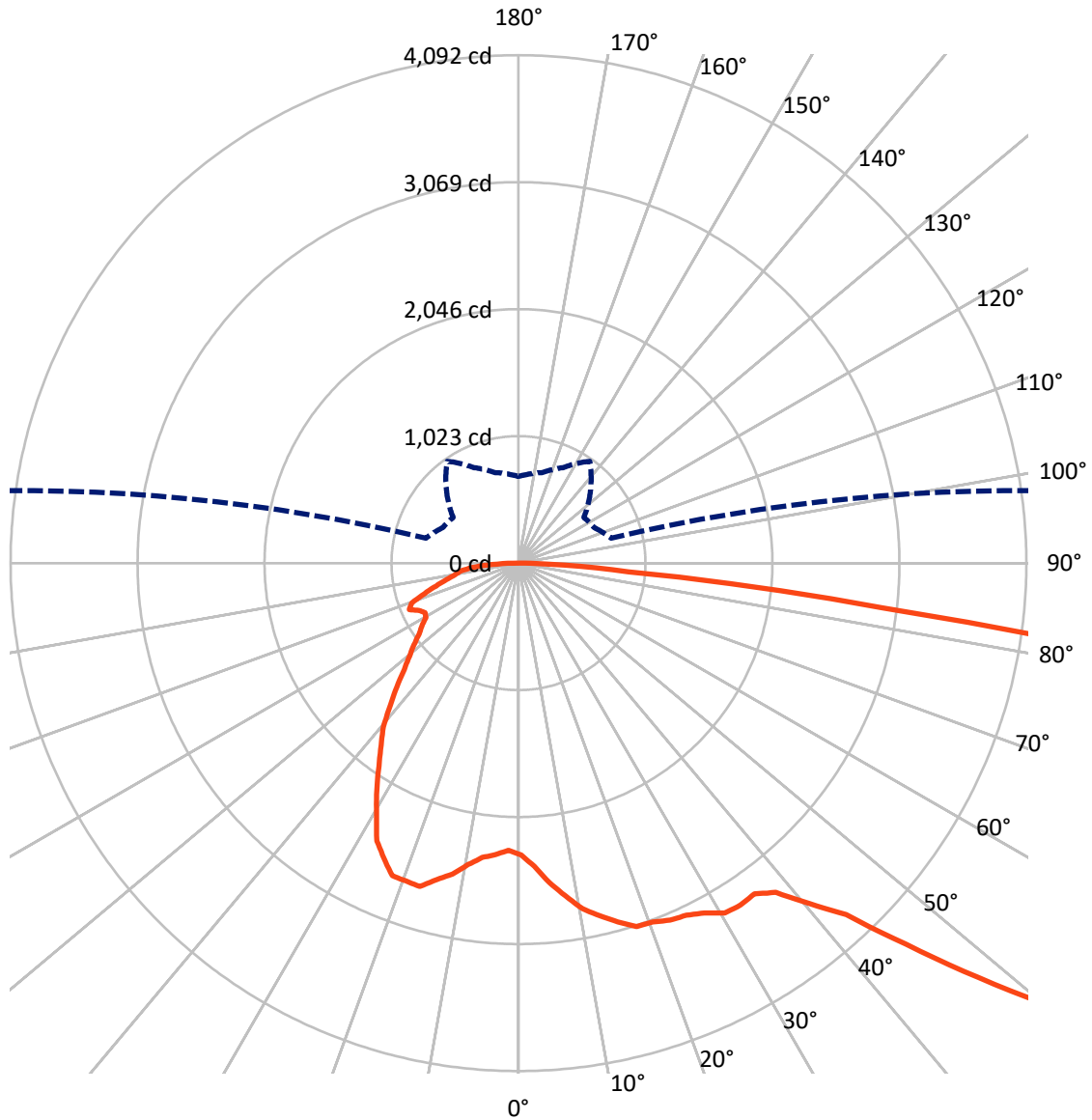
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	5078.8	0.0	5078.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17736.2	0.0	17736.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	22815.0	0.0	22815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	1.1
10°-20°	799.9	3.5
20°-30°	1350.8	5.9
30°-40°	1869.3	8.2
40°-50°	2673.9	11.7
50°-60°	4312.6	18.9
60°-70°	6360.5	27.9
70°-80°	4618.8	20.2
80°-90°	588.8	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°	22815.0	100.0
0°-180°	22815.0	100.0

Coefficient of Utilization

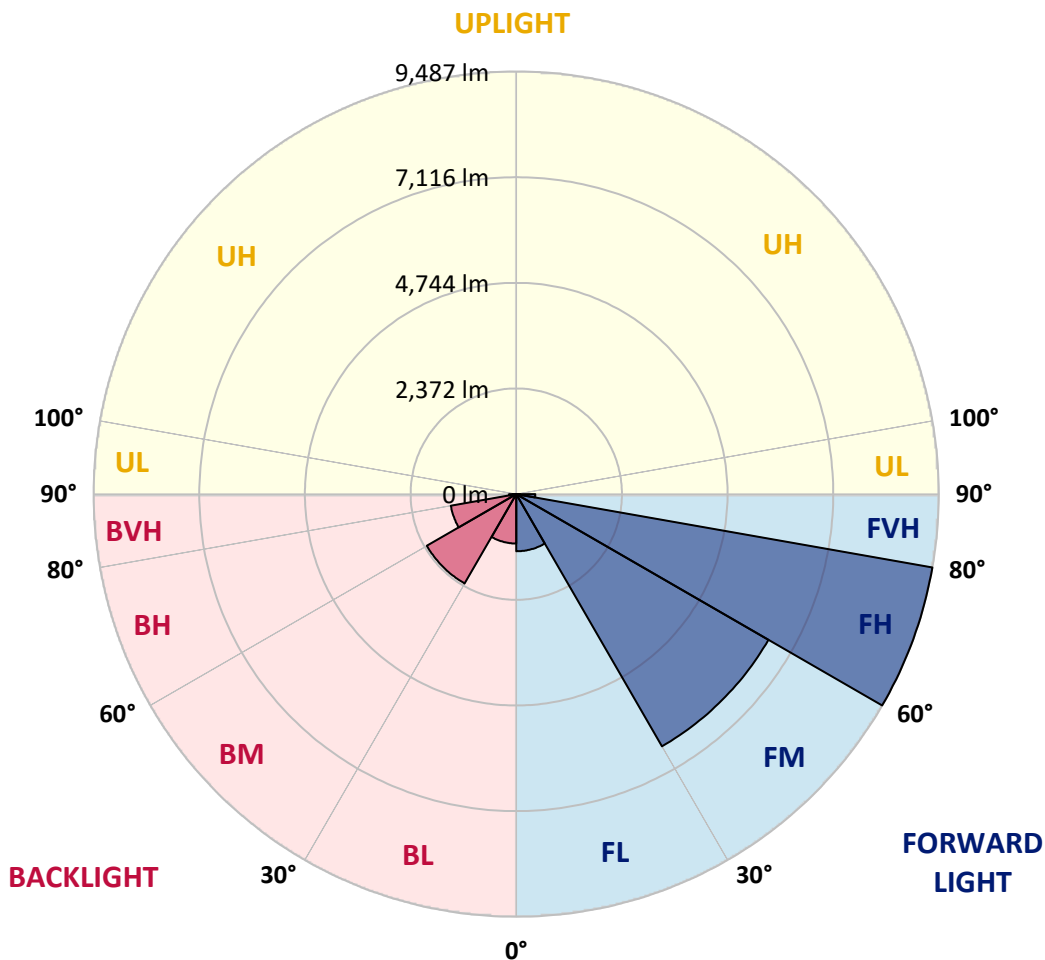


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.2	5.6			
FM (30°-60°)	6538.0	28.7			
FH (60°-80°)	9487.5	41.6			G4/12000
FVH (80°-90°)	428.6	1.9			G3/500
BL (0°-30°)	1108.9	4.9	B3/2500		
BM (30°-60°)	2317.8	10.2	B2/2500		
BH (60°-80°)	1491.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	160.2	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°	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5
2.5°	2475.0	2489.8	2475.0	2472.5	2447.9	2430.7	2445.5	2423.3	2398.7	2388.9	2366.8
5°	2701.3	2703.8	2676.7	2679.2	2627.5	2573.4	2583.3	2516.8	2445.5	2418.4	2374.1
7.5°	2932.6	2905.5	2866.2	2853.9	2772.7	2713.6	2706.3	2647.2	2536.5	2475.0	2413.5
10°	3082.7	3092.5	3028.6	2974.4	2905.5	2834.2	2831.7	2721.0	2657.1	2566.0	2487.3
12.5°	3215.5	3218.0	3163.9	3077.8	2991.7	2903.1	2915.4	2866.2	2757.9	2671.8	2593.1
15°	3318.9	3304.1	3245.1	3166.3	3075.3	3006.4	2999.0	2957.2	2866.2	2794.8	2664.4
17.5°	3348.4	3341.0	3282.0	3198.3	3109.7	3058.1	3077.8	3008.9	2972.0	2908.0	2782.5
20°	3291.8	3274.6	3264.7	3171.3	3107.3	3102.4	3085.1	3099.9	3038.4	2979.4	2888.3
22.5°	3188.5	3181.1	3176.2	3102.4	3072.8	3095.0	3124.5	3146.7	3136.8	3080.2	2976.9
25°	3082.7	3117.1	3085.1	3050.7	3092.5	3149.1	3141.7	3213.1	3213.1	3195.9	3109.7
27.5°	3156.5	3134.4	3109.7	3092.5	3107.3	3195.9	3190.9	3277.0	3309.0	3277.0	3178.6
30°	3341.0	3318.9	3247.5	3171.3	3151.6	3247.5	3272.1	3348.4	3363.2	3284.4	3200.8
32.5°	3687.9	3675.6	3562.4	3338.6	3218.0	3272.1	3284.4	3370.5	3358.2	3309.0	3274.6
35°	4202.1	4160.3	4002.8	3623.9	3358.2	3304.1	3272.1	3341.0	3387.8	3363.2	3331.2
37.5°	4765.5	4718.7	4524.4	4044.6	3611.6	3390.2	3365.6	3422.2	3476.3	3464.0	3397.6
40°	5304.3	5304.3	5129.6	4571.1	3988.1	3599.3	3604.3	3540.3	3589.5	3567.4	3579.7
42.5°	5835.7	5816.0	5744.7	5188.7	4391.5	3948.7	3870.0	3710.0	3798.6	3791.2	3808.5
45°	6374.5	6359.7	6340.0	5764.4	4969.7	4421.1	4379.2	4091.4	4172.6	4138.1	4211.9
47.5°	6805.0	6822.3	6822.3	6406.5	5587.2	5050.9	4989.4	4534.2	4689.2	4706.4	4723.7
50°	7171.6	7179.0	7171.6	7019.1	6276.1	5771.7	5646.3	5183.7	5338.7	5474.0	5631.5
52.5°	7678.4	7688.3	7653.8	7594.8	7211.0	6529.5	6389.3	5875.1	6192.4	6335.1	6618.1
55°	8303.3	8229.5	8165.5	8209.8	8109.0	7363.5	7218.4	6588.5	7065.8	7255.3	7821.1
57.5°	8419.0	8482.9	8645.3	8997.1	9142.3	8175.4	8091.7	7464.4	8052.4	8217.2	9161.9
60°	8827.4	8721.6	9120.1	9882.8	10045.2	9233.3	9147.2	8423.9	9034.0	9206.2	10399.4
62.5°	9095.5	9090.6	9681.1	10586.4	10955.5	10330.6	10155.9	9671.2	10094.4	10261.7	11747.7
65°	9016.8	9088.1	10136.2	10999.7	11715.7	11577.9	11477.0	10743.9	11302.4	11287.6	12626.0
67.5°	8298.4	8500.1	9848.4	11297.4	12847.4	13098.3	13066.4	12252.0	12284.0	11971.5	13017.1
70°	7302.0	7233.1	8630.5	10987.4	13413.2	14901.7	14894.3	13373.9	13167.2	12121.6	11895.3
72°	5609.4	5533.1	6682.0	9435.0	13115.6	15622.5	15844.0	14151.3	13157.4	11499.2	9826.2
72.5°	5092.7	5026.3	6170.3	8881.5	12785.9	15809.5	15706.2	14180.8	13054.1	11206.4	9179.2
75°	2344.6	2268.3	3082.7	5437.1	9973.8	14008.6	14360.4	13270.6	11400.8	8920.8	5498.6
77.5°	698.7	676.6	991.5	2194.5	5796.3	10320.7	10456.0	10013.2	7958.9	4886.0	2039.5
80°	388.7	391.2	511.7	821.7	2548.8	5966.1	6453.2	6185.1	3904.4	1613.9	679.0
82.5°	216.5	228.8	319.8	487.1	1171.1	2738.3	2947.4	2841.6	1412.2	757.8	371.5
85°	113.2	118.1	167.3	260.8	664.3	866.0	890.6	954.6	733.2	516.7	199.3
87.5°	44.3	44.3	61.5	108.3	246.0	268.2	241.1	292.8	420.7	334.6	98.4
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°	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5
2.5°	2386.4	2366.8	2364.3	2332.3	2342.2	2315.1	2317.5	2312.6	2315.1	2310.2	2297.9
5°	2374.1	2359.4	2317.5	2344.6	2320.0	2354.5	2381.5	2371.7	2379.1	2376.6	2379.1
7.5°	2391.4	2371.7	2366.8	2352.0	2374.1	2388.9	2411.0	2472.5	2467.6	2475.0	2489.8
10°	2443.0	2420.9	2406.1	2428.3	2416.0	2462.7	2487.3	2519.3	2575.9	2578.3	2548.8
12.5°	2543.9	2529.1	2499.6	2504.5	2546.4	2561.1	2575.9	2595.6	2632.5	2625.1	2652.1
15°	2659.5	2627.5	2610.3	2605.4	2615.2	2632.5	2630.0	2649.7	2669.4	2686.6	2679.2
17.5°	2743.2	2701.3	2706.3	2730.9	2728.4	2723.5	2691.5	2681.7	2691.5	2701.3	2696.4
20°	2829.3	2834.2	2797.3	2775.2	2765.3	2716.1	2691.5	2662.0	2632.5	2647.2	2669.4
22.5°	2937.5	2915.4	2861.3	2794.8	2745.6	2716.1	2639.8	2588.2	2588.2	2602.9	2595.6
25°	3060.5	3013.8	2920.3	2799.8	2738.3	2612.8	2558.7	2551.3	2531.6	2553.7	2563.6
27.5°	3156.5	3114.7	2986.7	2782.5	2612.8	2511.9	2479.9	2470.1	2502.1	2504.5	2543.9
30°	3195.9	3183.6	2996.6	2738.3	2484.8	2322.5	2302.8	2347.1	2381.5	2433.2	2435.6
32.5°	3247.5	3252.4	3011.3	2634.9	2317.5	2155.2	2125.7	2179.8	2278.2	2320.0	2352.0
35°	3333.6	3358.2	2999.0	2507.0	2140.4	1985.4	1980.5	1995.3	2091.2	2165.0	2206.8
37.5°	3483.7	3478.8	2996.6	2354.5	2000.2	1837.8	1798.4	1803.4	1867.3	1928.8	1921.5
40°	3685.4	3665.8	2989.2	2155.2	1818.1	1712.3	1645.9	1621.3	1616.4	1599.2	1604.1
42.5°	3961.0	3921.6	2986.7	1953.4	1653.3	1540.1	1493.4	1429.4	1382.7	1294.1	1299.0
45°	4344.8	4275.9	2922.8	1764.0	1490.9	1397.4	1326.1	1279.3	1178.5	1067.7	1067.7
47.5°	4937.7	4713.8	2925.2	1554.9	1333.5	1257.2	1208.0	1126.8	1018.5	930.0	920.1
50°	5811.1	5299.4	2841.6	1390.0	1205.5	1153.9	1102.2	1008.7	905.4	843.9	851.2
52.5°	6937.9	6172.8	2839.1	1242.4	1104.6	1067.7	1011.2	927.5	851.2	811.9	797.1
55°	8281.2	7329.1	2927.7	1121.9	1001.3	981.6	957.0	888.1	814.3	779.9	777.4
57.5°	9656.5	8458.3	3070.4	1035.8	912.8	927.5	910.3	856.2	797.1	757.8	752.8
60°	10879.2	9353.8	2782.5	932.4	834.0	866.0	890.6	843.9	811.9	809.4	792.2
62.5°	11801.8	9737.6	2115.8	853.7	792.2	851.2	917.7	947.2	932.4	952.1	954.6
65°	12138.8	9506.4	1456.5	811.9	760.2	885.7	1033.3	1023.5	937.4	900.4	920.1
67.5°	11666.5	8569.0	1080.0	762.7	738.1	957.0	1099.7	976.7	846.3	841.4	826.6
70°	10032.9	7262.6	880.8	711.0	701.2	917.7	1070.2	905.4	797.1	765.1	750.4
72°	7993.3	5656.1	772.5	674.1	642.1	819.3	1001.3	848.8	755.3	715.9	698.7
72.5°	7297.1	5242.8	757.8	656.9	629.8	797.1	966.9	831.6	745.5	711.0	683.9
75°	4002.8	2684.1	666.7	602.8	531.4	688.9	895.5	779.9	703.6	654.4	649.5
77.5°	1488.4	1040.7	575.7	533.9	460.1	595.4	814.3	740.5	639.7	578.2	565.9
80°	570.8	548.6	469.9	450.2	386.3	521.6	750.4	664.3	543.7	482.2	462.5
82.5°	346.9	319.8	356.7	351.8	295.2	474.8	706.1	622.4	482.2	391.2	378.9
85°	189.4	189.4	248.5	238.6	206.7	378.9	533.9	413.3	305.1	250.9	255.9
87.5°	83.6	98.4	132.9	125.5	113.2	214.0	260.8	219.0	152.5	103.3	110.7
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)