

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: P478510

Luminaire Tested: **IFLD-S-SA3D-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

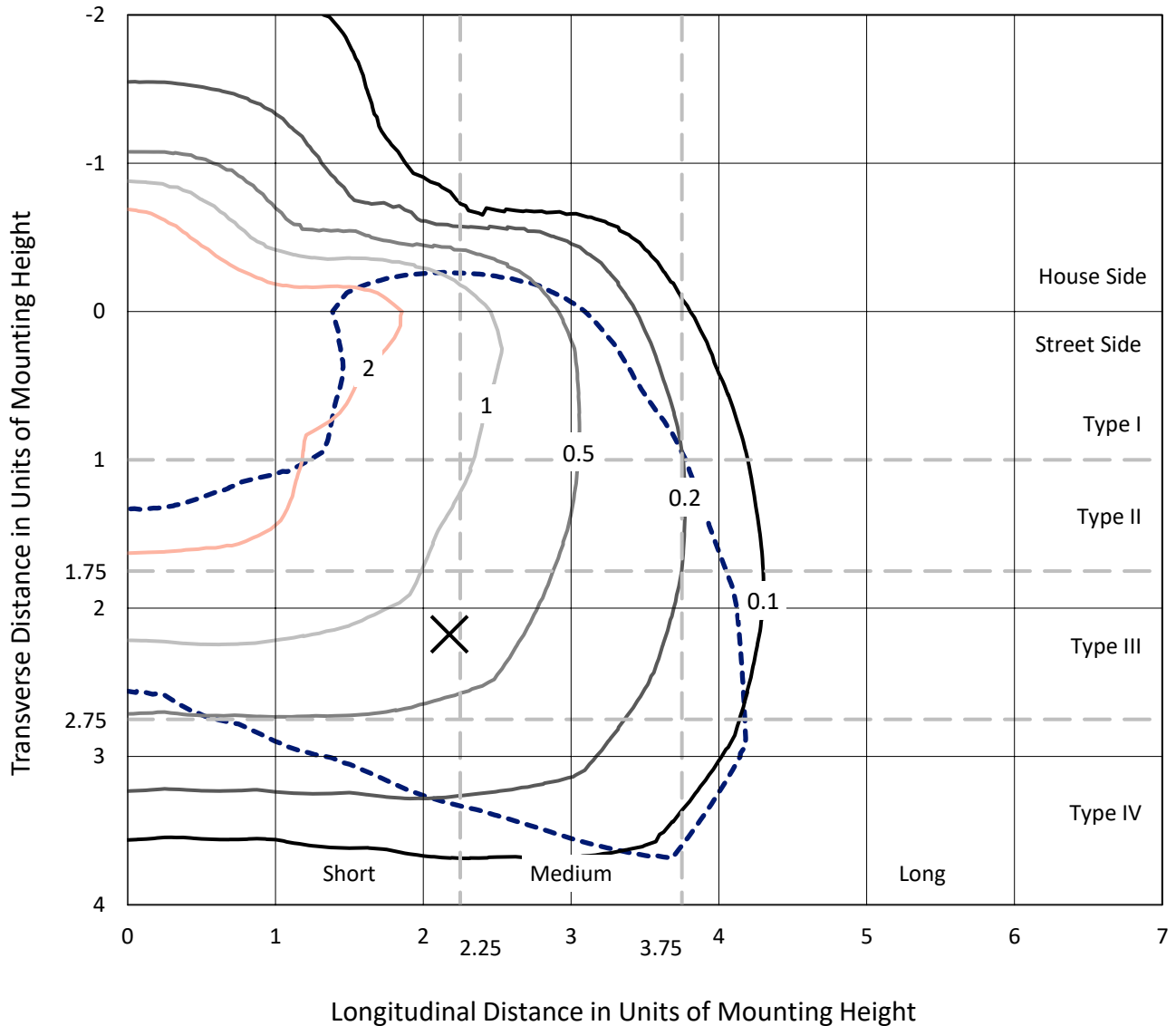
Lumens per Lamp: N/A
Luminaire Lumens: 23235.5 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

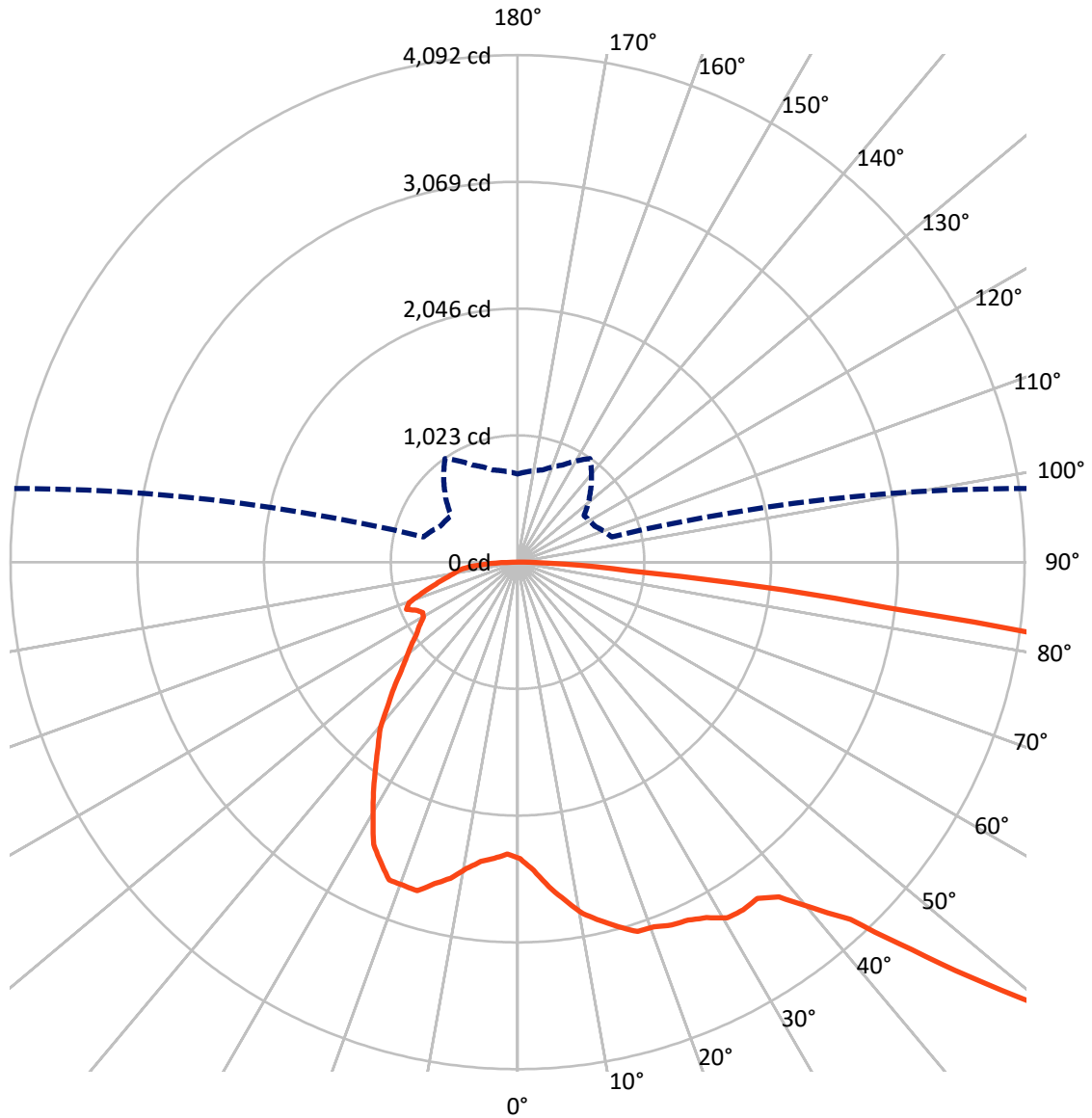
× Max cd
 - - - 1/2 Max cd



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	5172.3	0.0	5172.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18063.2	0.0	18063.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	23235.5	0.0	23235.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.1
10°-20°	814.6	3.5
20°-30°	1375.7	5.9
30°-40°	1903.7	8.2
40°-50°	2723.1	11.7
50°-60°	4392.1	18.9
60°-70°	6477.7	27.9
70°-80°	4703.9	20.2
80°-90°	599.6	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°	23235.5	100.0
0°-180°	23235.5	100.0

Coefficient of Utilization

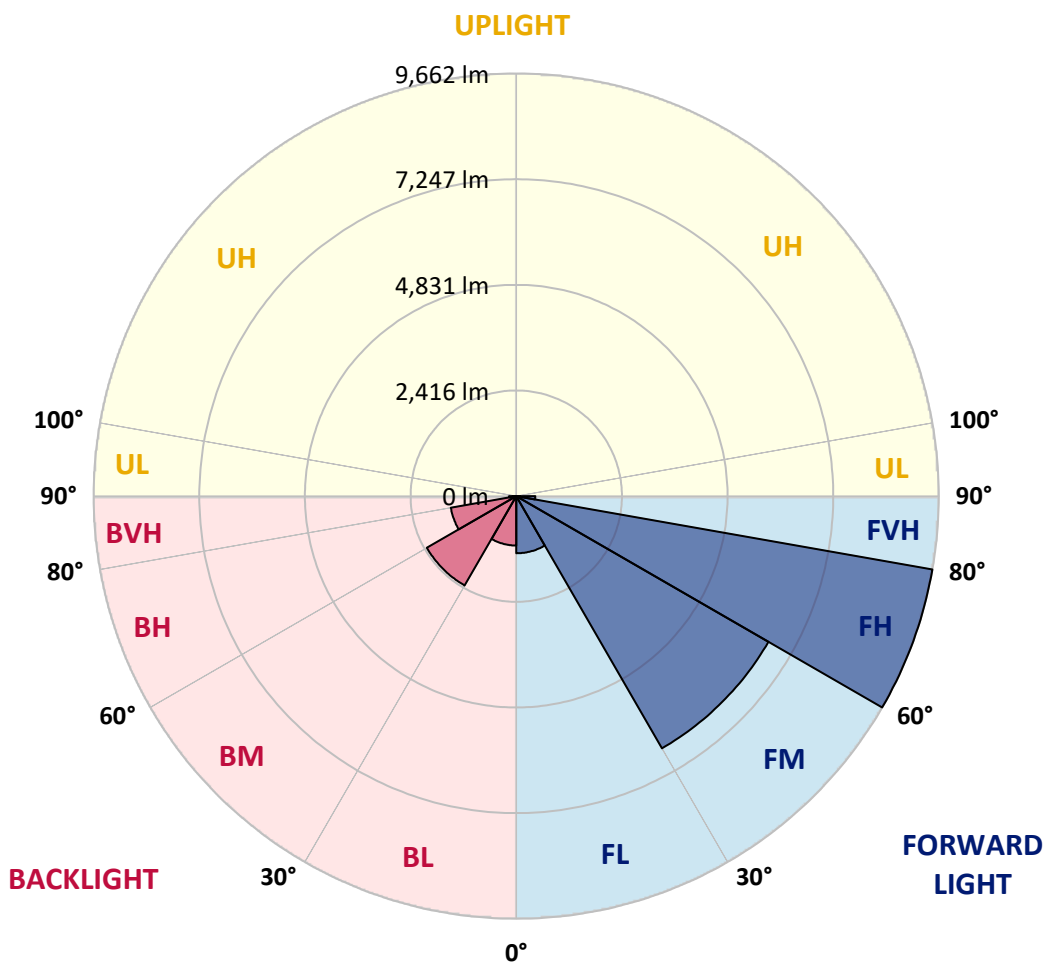


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.8	5.6			
FM (30°-60°)	6658.5	28.7			
FH (60°-80°)	9662.4	41.6			G4/12000
FVH (80°-90°)	436.5	1.9			G3/500
BL (0°-30°)	1129.4	4.9	B3/2500		
BM (30°-60°)	2360.5	10.2	B2/2500		
BH (60°-80°)	1519.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	163.2	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°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2520.6	2535.7	2520.6	2518.1	2493.1	2475.5	2490.6	2468.0	2442.9	2432.9	2410.4
5°	2751.1	2753.6	2726.1	2728.6	2676.0	2620.8	2630.9	2563.2	2490.6	2463.0	2417.9
7.5°	2986.7	2959.1	2919.0	2906.5	2823.8	2763.7	2756.1	2696.0	2583.3	2520.6	2458.0
10°	3139.5	3149.5	3084.4	3029.3	2959.1	2886.4	2883.9	2771.2	2706.0	2613.3	2533.1
12.5°	3274.8	3277.3	3222.2	3134.5	3046.8	2956.6	2969.1	2919.0	2808.8	2721.1	2640.9
15°	3380.0	3365.0	3304.9	3224.7	3132.0	3061.8	3054.3	3011.7	2919.0	2846.3	2713.6
17.5°	3410.1	3402.6	3342.5	3257.3	3167.1	3114.4	3134.5	3064.3	3026.8	2961.6	2833.8
20°	3352.5	3334.9	3324.9	3229.7	3164.6	3159.5	3142.0	3157.0	3094.4	3034.3	2941.6
22.5°	3247.2	3239.7	3234.7	3159.5	3129.5	3152.0	3182.1	3204.6	3194.6	3137.0	3031.8
25°	3139.5	3174.6	3142.0	3106.9	3149.5	3207.2	3199.6	3272.3	3272.3	3254.8	3167.1
27.5°	3214.7	3192.1	3167.1	3149.5	3164.6	3254.8	3249.7	3337.4	3370.0	3337.4	3237.2
30°	3402.6	3380.0	3307.4	3229.7	3209.7	3307.4	3332.4	3410.1	3425.1	3345.0	3259.8
32.5°	3755.9	3743.3	3628.1	3400.1	3277.3	3332.4	3345.0	3432.7	3420.1	3370.0	3334.9
35°	4279.5	4236.9	4076.6	3690.7	3420.1	3365.0	3332.4	3402.6	3450.2	3425.1	3392.6
37.5°	4853.3	4805.7	4607.8	4119.2	3678.2	3452.7	3427.6	3485.3	3540.4	3527.9	3460.2
40°	5402.0	5402.0	5224.2	4655.4	4061.6	3665.7	3670.7	3605.5	3655.7	3633.1	3645.6
42.5°	5943.3	5923.2	5850.5	5284.3	4472.5	4021.5	3941.3	3778.4	3868.6	3861.1	3878.7
45°	6492.0	6476.9	6456.9	5870.6	5061.3	4502.5	4459.9	4166.8	4249.5	4214.4	4289.6
47.5°	6930.5	6948.0	6948.0	6524.6	5690.2	5144.0	5081.3	4617.8	4775.7	4793.2	4810.7
50°	7303.8	7311.3	7303.8	7148.4	6391.8	5878.1	5750.3	5279.3	5437.1	5574.9	5735.3
52.5°	7819.9	7830.0	7794.9	7734.7	7343.9	6649.8	6507.0	5983.3	6306.6	6451.9	6740.0
55°	8456.4	8381.2	8316.0	8361.1	8258.4	7499.2	7351.4	6710.0	7196.0	7389.0	7965.3
57.5°	8574.1	8639.3	8804.6	9162.9	9310.8	8326.1	8240.9	7602.0	8200.8	8368.7	9330.8
60°	8990.0	8882.3	9288.2	10064.9	10230.3	9403.5	9315.8	8579.1	9200.5	9375.9	10591.1
62.5°	9263.2	9258.1	9859.5	10781.5	11157.4	10521.0	10343.1	9849.5	10280.4	10450.8	11964.2
65°	9183.0	9255.6	10323.0	11202.5	11931.6	11791.3	11688.6	10941.9	11510.7	11495.6	12858.7
67.5°	8451.3	8656.8	10029.9	11505.7	13084.2	13339.8	13307.2	12477.8	12510.4	12192.2	13257.1
70°	7436.6	7366.4	8789.6	11190.0	13660.5	15176.3	15168.8	13620.4	13409.9	12345.0	12114.5
72°	5712.7	5635.1	6805.2	9608.9	13357.3	15910.5	16136.0	14412.1	13399.9	11711.1	10007.3
72.5°	5186.6	5118.9	6284.0	9045.2	13021.5	16100.9	15995.7	14442.2	13294.6	11413.0	9348.3
75°	2387.8	2310.2	3139.5	5537.3	10157.7	14266.8	14625.1	13515.1	11610.9	9085.3	5600.0
77.5°	711.6	689.0	1009.8	2235.0	5903.2	10510.9	10648.7	10197.7	8105.6	4976.1	2077.1
80°	395.9	398.4	521.2	836.9	2595.8	6076.1	6572.2	6299.0	3976.4	1643.7	691.5
82.5°	220.5	233.0	325.7	496.1	1192.7	2788.7	3001.7	2894.0	1438.2	771.7	378.3
85°	115.3	120.3	170.4	265.6	676.5	882.0	907.0	972.2	746.7	526.2	203.0
87.5°	45.1	45.1	62.6	110.2	250.6	273.1	245.5	298.2	428.5	340.8	100.2
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°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2430.4	2410.4	2407.9	2375.3	2385.3	2357.8	2360.3	2355.3	2357.8	2352.7	2340.2
5°	2417.9	2402.9	2360.3	2387.8	2362.8	2397.8	2425.4	2415.4	2422.9	2420.4	2422.9
7.5°	2435.4	2415.4	2410.4	2395.3	2417.9	2432.9	2455.5	2518.1	2513.1	2520.6	2535.7
10°	2488.0	2465.5	2450.5	2473.0	2460.5	2508.1	2533.1	2565.7	2623.4	2625.9	2595.8
12.5°	2590.8	2575.7	2545.7	2550.7	2593.3	2608.3	2623.4	2643.4	2681.0	2673.5	2701.0
15°	2708.5	2676.0	2658.4	2653.4	2663.4	2681.0	2678.5	2698.5	2718.6	2736.1	2728.6
17.5°	2793.7	2751.1	2756.1	2781.2	2778.7	2773.7	2741.1	2731.1	2741.1	2751.1	2746.1
20°	2881.4	2886.4	2848.9	2826.3	2816.3	2766.2	2741.1	2711.0	2681.0	2696.0	2718.6
22.5°	2991.7	2969.1	2914.0	2846.3	2796.2	2766.2	2688.5	2635.9	2635.9	2650.9	2643.4
25°	3117.0	3069.3	2974.1	2851.4	2788.7	2660.9	2605.8	2598.3	2578.2	2600.8	2610.8
27.5°	3214.7	3172.1	3041.8	2833.8	2660.9	2558.2	2525.6	2515.6	2548.2	2550.7	2590.8
30°	3254.8	3242.2	3051.8	2788.7	2530.6	2365.3	2345.2	2390.3	2425.4	2478.0	2480.5
32.5°	3307.4	3312.4	3066.8	2683.5	2360.3	2194.9	2164.8	2220.0	2320.2	2362.8	2395.3
35°	3395.1	3420.1	3054.3	2553.2	2179.9	2022.0	2017.0	2032.0	2129.7	2204.9	2247.5
37.5°	3547.9	3542.9	3051.8	2397.8	2037.0	1871.7	1831.6	1836.6	1901.7	1964.4	1956.9
40°	3753.4	3733.3	3044.3	2194.9	1851.6	1743.9	1676.2	1651.2	1646.2	1628.6	1633.6
42.5°	4034.0	3993.9	3041.8	1989.4	1683.8	1568.5	1520.9	1455.7	1408.1	1317.9	1323.0
45°	4424.9	4354.7	2976.6	1796.5	1518.4	1423.2	1350.5	1302.9	1200.2	1087.4	1087.4
47.5°	5028.7	4800.7	2979.1	1583.5	1358.0	1280.4	1230.2	1147.6	1037.3	947.1	937.1
50°	5918.2	5397.0	2894.0	1415.7	1227.7	1175.1	1122.5	1027.3	922.1	859.4	866.9
52.5°	7065.8	6286.5	2891.4	1265.3	1125.0	1087.4	1029.8	944.6	866.9	826.8	811.8
55°	8433.8	7464.1	2981.6	1142.5	1019.8	999.7	974.7	904.5	829.3	794.3	791.8
57.5°	9834.4	8614.2	3127.0	1054.9	929.6	944.6	927.1	871.9	811.8	771.7	766.7
60°	11079.7	9526.2	2833.8	949.6	849.4	882.0	907.0	859.4	826.8	824.3	806.8
62.5°	12019.3	9917.1	2154.8	869.4	806.8	866.9	934.6	964.7	949.6	969.7	972.2
65°	12362.6	9681.6	1483.3	826.8	774.2	902.0	1052.3	1042.3	954.6	917.0	937.1
67.5°	11881.5	8727.0	1100.0	776.7	751.7	974.7	1120.0	994.7	861.9	856.9	841.9
70°	10217.8	7396.5	897.0	724.1	714.1	934.6	1089.9	922.1	811.8	779.2	764.2
72°	8140.7	5760.3	786.8	686.5	654.0	834.4	1019.8	864.4	769.2	729.1	711.6
72.5°	7431.6	5339.4	771.7	669.0	641.4	811.8	984.7	846.9	759.2	724.1	696.6
75°	4076.6	2733.6	679.0	613.9	541.2	701.6	912.0	794.3	716.6	666.5	661.5
77.5°	1515.9	1059.9	586.3	543.7	468.5	606.4	829.3	754.2	651.5	588.8	576.3
80°	581.3	558.7	478.6	458.5	393.4	531.2	764.2	676.5	553.7	491.1	471.1
82.5°	353.3	325.7	363.3	358.3	300.7	483.6	719.1	633.9	491.1	398.4	385.9
85°	192.9	192.9	253.1	243.0	210.5	385.9	543.7	420.9	310.7	255.6	260.6
87.5°	85.2	100.2	135.3	127.8	115.3	218.0	265.6	223.0	155.3	105.2	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)