

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: P478452

Luminaire Tested: **IFLD-M-SA4D-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478452
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

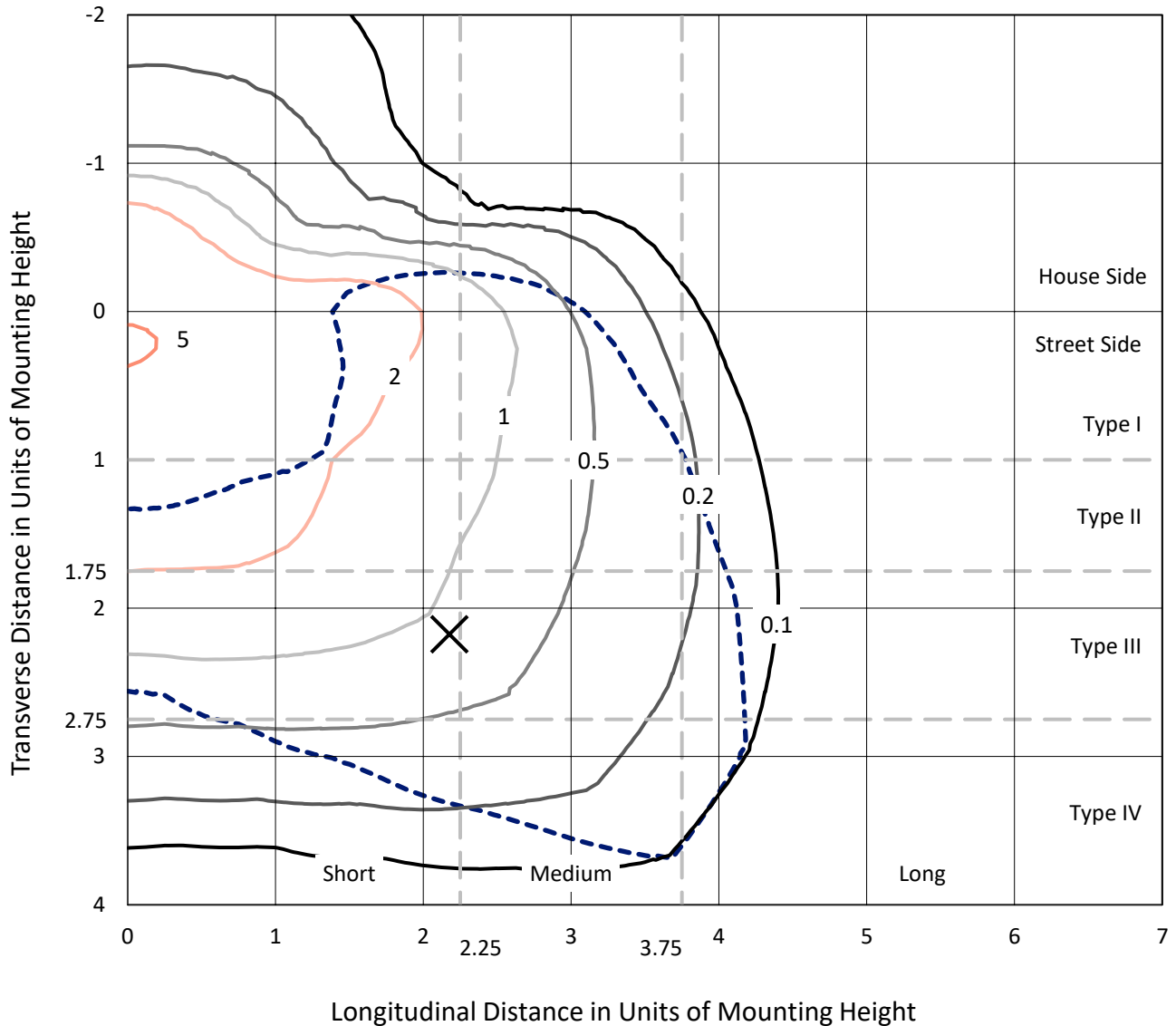
Lumens per Lamp: N/A
Luminaire Lumens: 26444.8 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

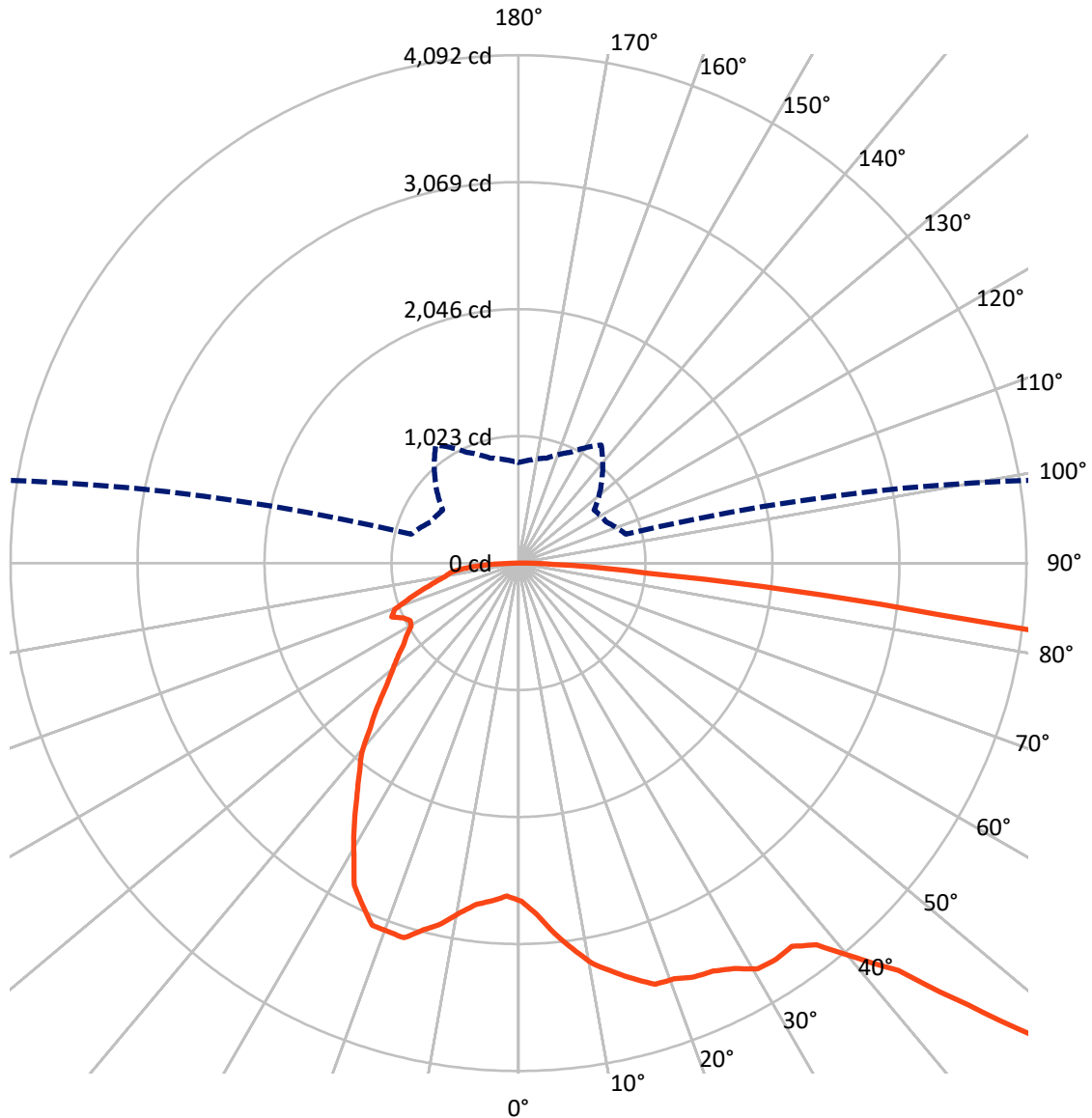
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	5886.8	0.0	5886.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20558.0	0.0	20558.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	26444.8	0.0	26444.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	1.1
10°-20°	927.2	3.5
20°-30°	1565.7	5.9
30°-40°	2166.7	8.2
40°-50°	3099.2	11.7
50°-60°	4998.7	18.9
60°-70°	7372.4	27.9
70°-80°	5353.7	20.2
80°-90°	682.5	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°	26444.8	100.0
0°-180°	26444.8	100.0

Coefficient of Utilization

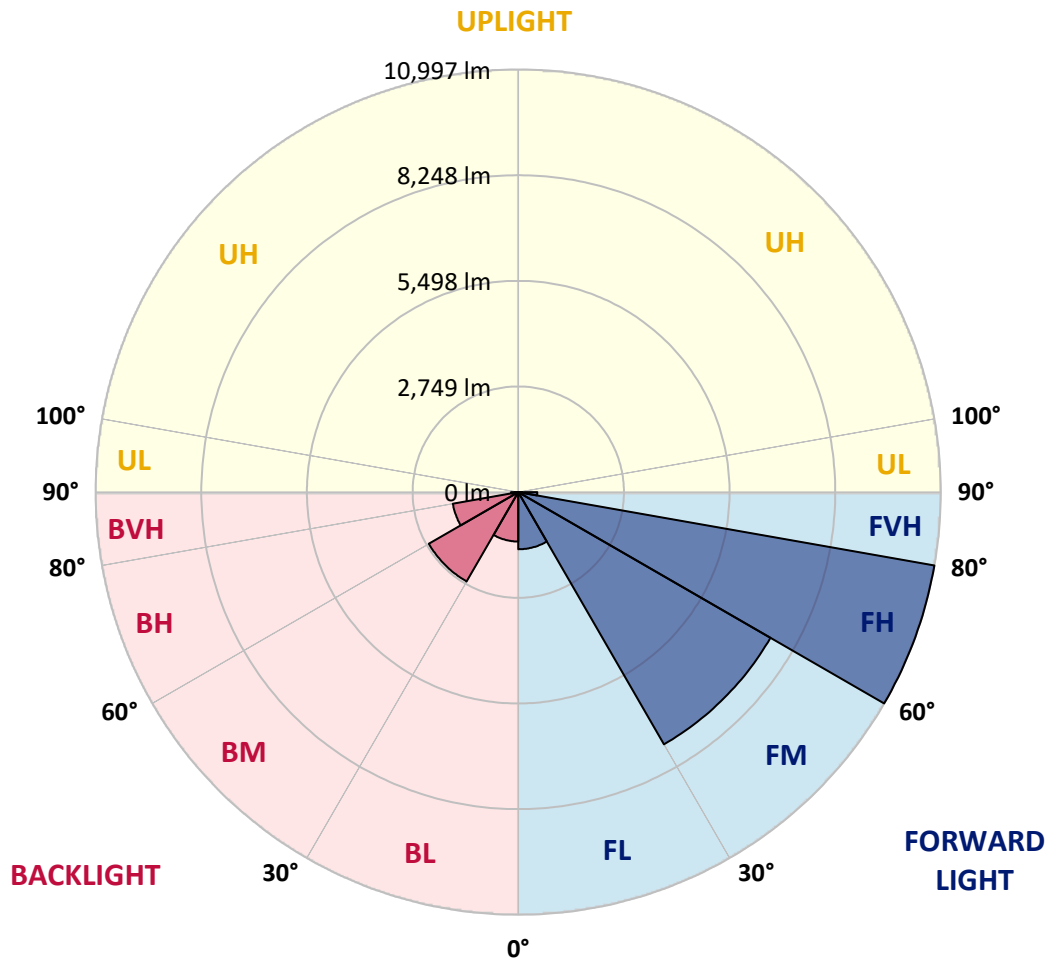


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.2	5.6			
FM (30°-60°)	7578.1	28.7			
FH (60°-80°)	10996.9	41.6			G4/12000
FVH (80°-90°)	496.7	1.9			G3/500
BL (0°-30°)	1285.3	4.9	B3/2500		
BM (30°-60°)	2686.5	10.2	B3/5000		
BH (60°-80°)	1729.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	185.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2868.8	2885.9	2868.8	2865.9	2837.4	2817.4	2834.5	2808.9	2780.4	2769.0	2743.3
5°	3131.1	3134.0	3102.6	3105.5	3045.6	2982.8	2994.2	2917.2	2834.5	2803.2	2751.8
7.5°	3399.2	3367.8	3322.2	3307.9	3213.8	3145.4	3136.8	3068.4	2940.1	2868.8	2797.5
10°	3573.1	3584.5	3510.4	3447.7	3367.8	3285.1	3282.3	3153.9	3079.8	2974.3	2883.0
12.5°	3727.1	3730.0	3667.2	3567.4	3467.6	3365.0	3379.2	3322.2	3196.7	3096.9	3005.6
15°	3846.9	3829.8	3761.3	3670.1	3564.6	3484.7	3476.2	3427.7	3322.2	3239.5	3088.3
17.5°	3881.1	3872.6	3804.1	3707.2	3604.5	3544.6	3567.4	3487.6	3444.8	3370.7	3225.2
20°	3815.5	3795.6	3784.2	3675.8	3601.6	3595.9	3576.0	3593.1	3521.8	3453.4	3347.8
22.5°	3695.7	3687.2	3681.5	3595.9	3561.7	3587.4	3621.6	3647.3	3635.9	3570.3	3450.5
25°	3573.1	3613.1	3576.0	3536.1	3584.5	3650.1	3641.6	3724.3	3724.3	3704.3	3604.5
27.5°	3658.7	3633.0	3604.5	3584.5	3601.6	3704.3	3698.6	3798.4	3835.5	3798.4	3684.3
30°	3872.6	3846.9	3764.2	3675.8	3653.0	3764.2	3792.7	3881.1	3898.2	3807.0	3710.0
32.5°	4274.6	4260.4	4129.2	3869.7	3730.0	3792.7	3807.0	3906.8	3892.5	3835.5	3795.6
35°	4870.6	4822.2	4639.6	4200.5	3892.5	3829.8	3792.7	3872.6	3926.7	3898.2	3861.1
37.5°	5523.7	5469.5	5244.2	4688.1	4186.2	3929.6	3901.1	3966.7	4029.4	4015.1	3938.1
40°	6148.2	6148.2	5945.7	5298.4	4622.5	4172.0	4177.7	4103.5	4160.6	4134.9	4149.2
42.5°	6764.1	6741.3	6658.6	6014.1	5090.2	4576.9	4485.7	4300.3	4403.0	4394.4	4414.4
45°	7388.6	7371.5	7348.7	6681.4	5760.3	5124.4	5076.0	4742.3	4836.4	4796.5	4882.0
47.5°	7887.7	7907.6	7907.6	7425.7	6476.1	5854.5	5783.2	5255.6	5435.3	5455.2	5475.2
50°	8312.6	8321.1	8312.6	8135.8	7274.6	6690.0	6544.6	6008.4	6188.1	6344.9	6527.4
52.5°	8900.0	8911.4	8871.5	8803.1	8358.2	7568.3	7405.8	6809.8	7177.6	7343.0	7671.0
55°	9624.3	9538.8	9464.7	9516.0	9399.1	8535.0	8366.8	7636.7	8190.0	8409.5	9065.4
57.5°	9758.4	9832.5	10020.7	10428.5	10596.8	9476.1	9379.1	8651.9	9333.5	9524.5	10619.6
60°	10231.7	10109.1	10571.1	11455.1	11643.3	10702.3	10602.5	9764.1	10471.3	10670.9	12054.0
62.5°	10542.6	10536.9	11221.3	12270.7	12698.4	11974.1	11771.6	11209.9	11700.4	11894.3	13616.7
65°	10451.3	10534.0	11748.8	12749.8	13579.6	13419.9	13303.0	12453.2	13100.5	13083.4	14634.7
67.5°	9618.6	9852.5	11415.2	13094.8	14891.4	15182.2	15145.2	14201.3	14238.3	13876.2	15088.1
70°	8463.7	8383.9	10003.6	12735.5	15547.2	17272.5	17263.9	15501.6	15262.1	14050.1	13787.8
72°	6501.8	6413.4	7745.1	10936.1	15202.2	18108.0	18364.7	16402.7	15250.7	13328.6	11389.5
72.5°	5902.9	5825.9	7152.0	10294.5	14820.1	18324.8	18205.0	16437.0	15130.9	12989.3	10639.5
75°	2717.6	2629.2	3573.1	6302.2	11560.6	16237.3	16645.1	15381.8	13214.6	10340.1	6373.5
77.5°	809.9	784.2	1149.2	2543.7	6718.5	11962.7	12119.5	11606.2	9225.1	5663.4	2364.0
80°	450.6	453.4	593.1	952.5	2954.3	6915.3	7479.9	7169.1	4525.6	1870.7	787.1
82.5°	250.9	265.2	370.7	564.6	1357.4	3173.9	3416.3	3293.7	1636.9	878.3	430.6
85°	131.2	136.9	193.9	302.3	769.9	1003.8	1032.3	1106.4	849.8	598.8	231.0
87.5°	51.3	51.3	71.3	125.5	285.2	310.8	279.5	339.3	487.6	387.8	114.1
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°	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2766.1	2743.3	2740.4	2703.4	2714.8	2683.4	2686.3	2680.6	2683.4	2677.7	2663.4
5°	2751.8	2734.7	2686.3	2717.6	2689.1	2729.0	2760.4	2749.0	2757.6	2754.7	2757.6
7.5°	2771.8	2749.0	2743.3	2726.2	2751.8	2769.0	2794.6	2865.9	2860.2	2868.8	2885.9
10°	2831.7	2806.0	2788.9	2814.6	2800.3	2854.5	2883.0	2920.1	2985.7	2988.5	2954.3
12.5°	2948.6	2931.5	2897.3	2903.0	2951.5	2968.6	2985.7	3008.5	3051.3	3042.7	3074.1
15°	3082.6	3045.6	3025.6	3019.9	3031.3	3051.3	3048.4	3071.2	3094.0	3114.0	3105.5
17.5°	3179.6	3131.1	3136.8	3165.3	3162.5	3156.8	3119.7	3108.3	3119.7	3131.1	3125.4
20°	3279.4	3285.1	3242.3	3216.7	3205.3	3148.2	3119.7	3085.5	3051.3	3068.4	3094.0
22.5°	3404.9	3379.2	3316.5	3239.5	3182.5	3148.2	3059.8	2999.9	2999.9	3017.1	3008.5
25°	3547.5	3493.3	3384.9	3245.2	3173.9	3028.5	2965.7	2957.2	2934.4	2960.0	2971.4
27.5°	3658.7	3610.2	3461.9	3225.2	3028.5	2911.5	2874.5	2863.1	2900.1	2903.0	2948.6
30°	3704.3	3690.0	3473.3	3173.9	2880.2	2692.0	2669.2	2720.5	2760.4	2820.3	2823.1
32.5°	3764.2	3769.9	3490.4	3054.1	2686.3	2498.1	2463.8	2526.6	2640.6	2689.1	2726.2
35°	3864.0	3892.5	3476.2	2905.8	2480.9	2301.3	2295.6	2312.7	2423.9	2509.5	2557.9
37.5°	4037.9	4032.2	3473.3	2729.0	2318.4	2130.2	2084.6	2090.3	2164.4	2235.7	2227.1
40°	4271.8	4249.0	3464.8	2498.1	2107.4	1984.8	1907.8	1879.2	1873.5	1853.6	1859.3
42.5°	4591.2	4545.5	3461.9	2264.2	1916.3	1785.1	1731.0	1656.8	1602.6	1500.0	1505.7
45°	5036.0	4956.2	3387.8	2044.6	1728.1	1619.7	1537.0	1482.9	1365.9	1237.6	1237.6
47.5°	5723.3	5463.8	3390.6	1802.2	1545.6	1457.2	1400.2	1306.1	1180.6	1077.9	1066.5
50°	6735.6	6142.5	3293.7	1611.2	1397.3	1337.4	1277.5	1169.2	1049.4	978.1	986.7
52.5°	8041.7	7154.8	3290.8	1440.1	1280.4	1237.6	1172.0	1075.1	986.7	941.0	923.9
55°	9598.7	8495.1	3393.5	1300.4	1160.6	1137.8	1109.3	1029.4	943.9	904.0	901.1
57.5°	11192.8	9804.0	3558.9	1200.5	1058.0	1075.1	1055.1	992.4	923.9	878.3	872.6
60°	12610.0	10842.0	3225.2	1080.8	966.7	1003.8	1032.3	978.1	941.0	938.2	918.2
62.5°	13679.4	11286.9	2452.4	989.5	918.2	986.7	1063.7	1097.9	1080.8	1103.6	1106.4
65°	14070.1	11018.8	1688.2	941.0	881.2	1026.6	1197.7	1186.3	1086.5	1043.7	1066.5
67.5°	13522.6	9932.3	1251.9	884.0	855.5	1109.3	1274.7	1132.1	981.0	975.3	958.2
70°	11629.1	8418.1	1020.9	824.1	812.7	1063.7	1240.5	1049.4	923.9	886.9	869.8
72°	9265.0	6556.0	895.4	781.4	744.3	949.6	1160.6	983.8	875.5	829.8	809.9
72.5°	8458.0	6076.9	878.3	761.4	730.0	923.9	1120.7	963.9	864.1	824.1	792.8
75°	4639.6	3111.2	772.8	698.7	616.0	798.5	1038.0	904.0	815.6	758.5	752.8
77.5°	1725.3	1206.3	667.3	618.8	533.3	690.1	943.9	858.3	741.4	670.1	655.9
80°	661.6	635.9	544.7	521.9	447.7	604.6	869.8	769.9	630.2	558.9	536.1
82.5°	402.1	370.7	413.5	407.8	342.2	550.4	818.4	721.5	558.9	453.4	439.2
85°	219.6	219.6	288.0	276.6	239.5	439.2	618.8	479.1	353.6	290.9	296.6
87.5°	97.0	114.1	154.0	145.4	131.2	248.1	302.3	253.8	176.8	119.8	128.3
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)