

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: P478561

Luminaire Tested: **IFLD-S-SA6A-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478561
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

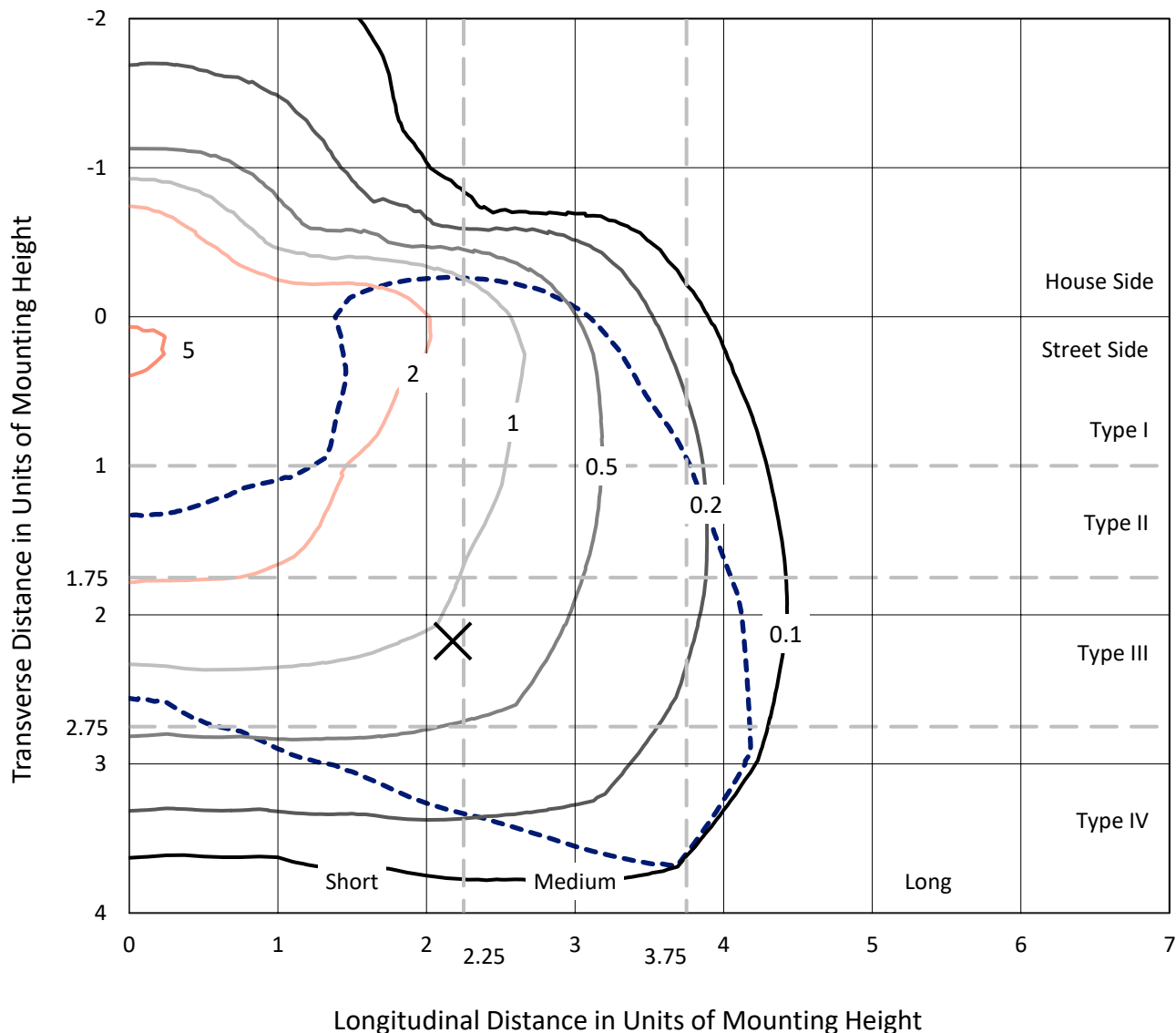
Lumens per Lamp: N/A
Luminaire Lumens: 27280.9 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

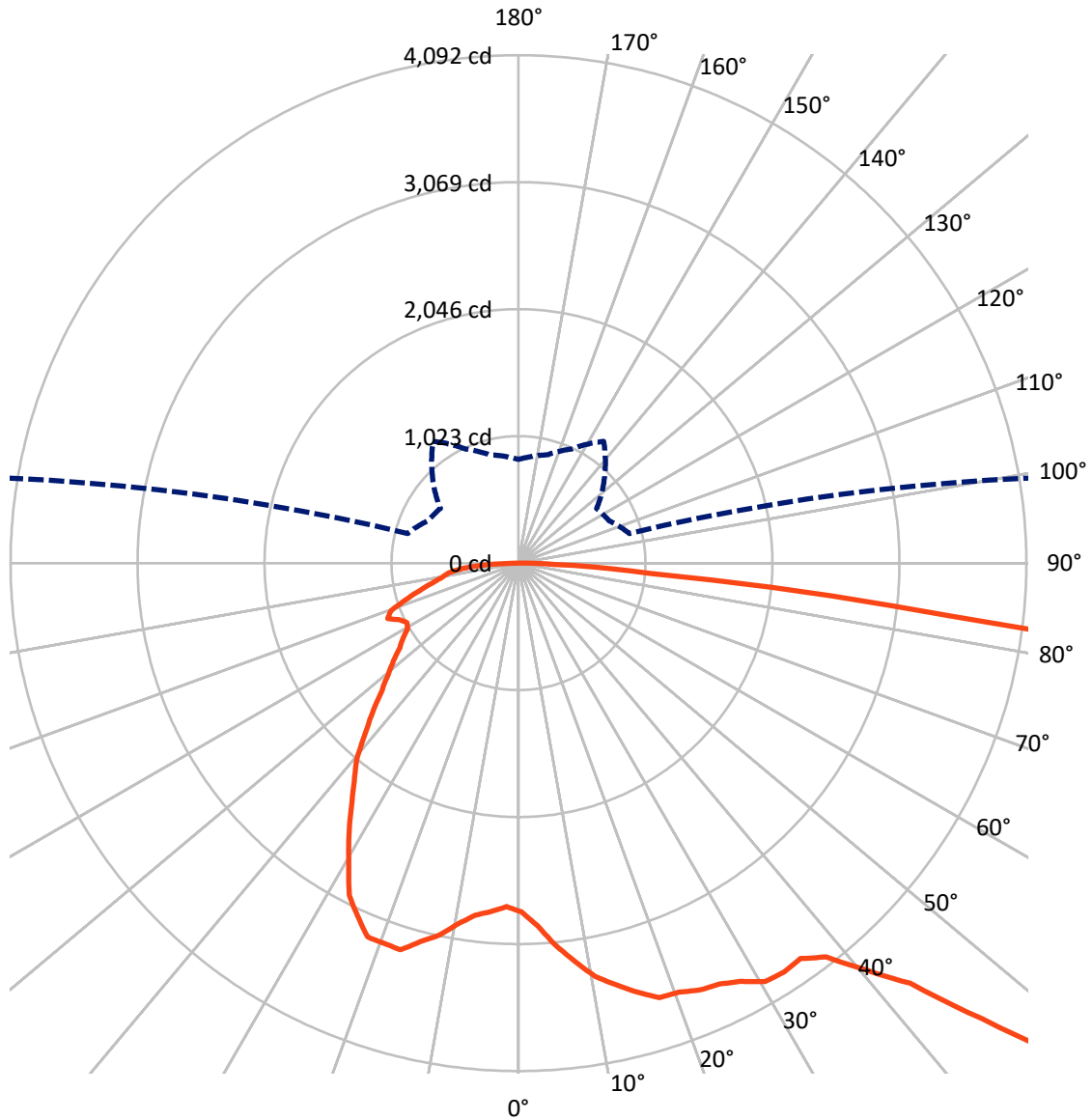
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	6072.9	0.0	6072.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	21208.0	0.0	21208.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	27280.9	0.0	27280.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	1.1
10°-20°	956.5	3.5
20°-30°	1615.2	5.9
30°-40°	2235.2	8.2
40°-50°	3197.2	11.7
50°-60°	5156.8	18.9
60°-70°	7605.5	27.9
70°-80°	5522.9	20.2
80°-90°	704.0	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°	27280.9	100.0
0°-180°	27280.9	100.0

Coefficient of Utilization



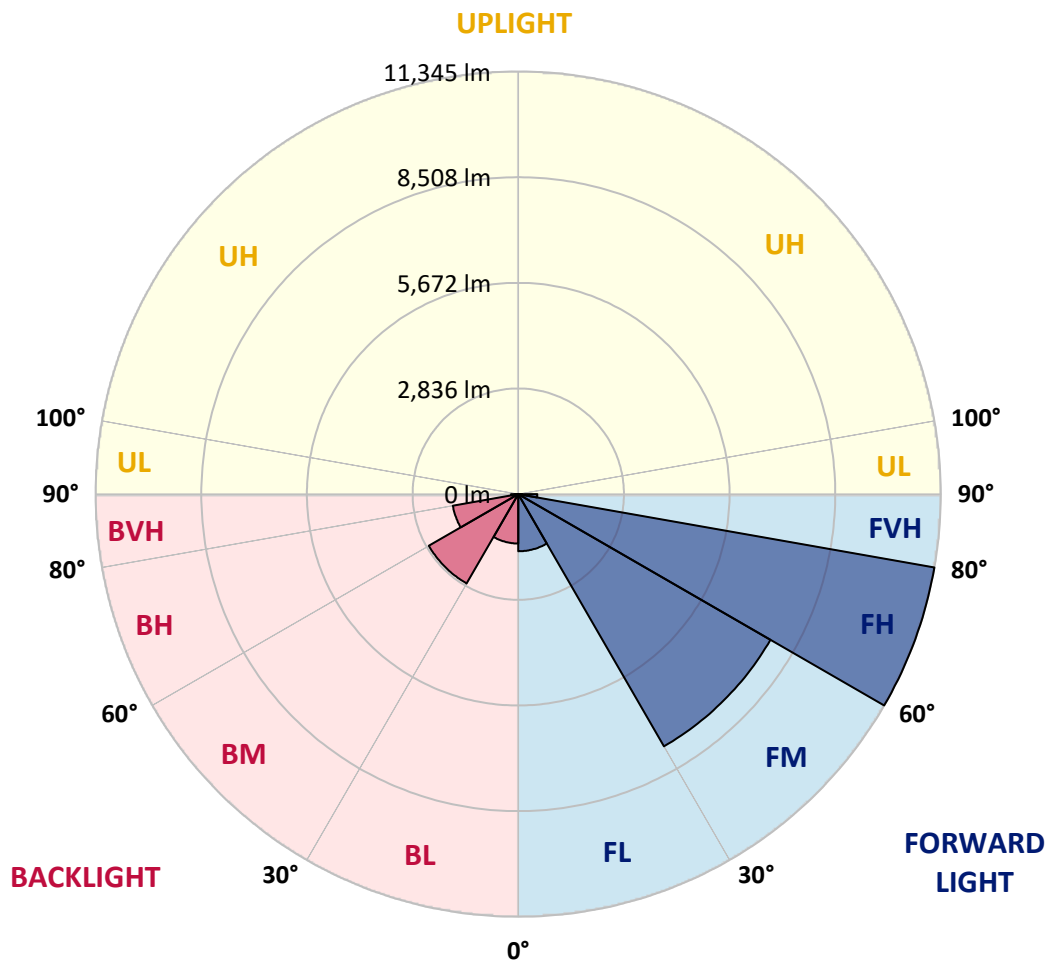
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.2	5.6			
FM (30°-60°)	7817.8	28.7			
FH (60°-80°)	11344.6	41.6			G4/12000
FVH (80°-90°)	512.4	1.9			G4/750
BL (0°-30°)	1326.0	4.9	B3/2500		
BM (30°-60°)	2771.5	10.2	B3/5000		
BH (60°-80°)	1783.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	191.6	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°	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4
2.5°	2959.5	2977.1	2959.5	2956.5	2927.1	2906.5	2924.2	2897.7	2868.3	2856.5	2830.0
5°	3230.1	3233.1	3200.7	3203.6	3141.9	3077.1	3088.9	3009.5	2924.2	2891.8	2838.9
7.5°	3506.6	3474.3	3427.2	3412.5	3315.4	3244.8	3236.0	3165.4	3033.0	2959.5	2885.9
10°	3686.1	3697.9	3621.4	3556.7	3474.3	3389.0	3386.0	3253.7	3177.2	3068.3	2974.2
12.5°	3845.0	3847.9	3783.2	3680.2	3577.3	3471.3	3486.1	3427.2	3297.8	3194.8	3100.7
15°	3968.5	3950.9	3880.3	3786.1	3677.3	3594.9	3586.1	3536.1	3427.2	3341.9	3186.0
17.5°	4003.8	3995.0	3924.4	3824.4	3718.5	3656.7	3680.2	3597.8	3553.7	3477.2	3327.2
20°	3936.2	3915.6	3903.8	3792.0	3715.5	3709.6	3689.0	3706.7	3633.1	3562.5	3453.7
22.5°	3812.6	3803.8	3797.9	3709.6	3674.3	3700.8	3736.1	3762.6	3750.8	3683.2	3559.6
25°	3686.1	3727.3	3689.0	3647.9	3697.9	3765.5	3756.7	3842.0	3842.0	3821.4	3718.5
27.5°	3774.4	3747.9	3718.5	3697.9	3715.5	3821.4	3815.5	3918.5	3956.7	3918.5	3800.8
30°	3995.0	3968.5	3883.2	3792.0	3768.5	3883.2	3912.6	4003.8	4021.5	3927.3	3827.3
32.5°	4409.8	4395.1	4259.8	3992.0	3847.9	3912.6	3927.3	4030.3	4015.6	3956.7	3915.6
35°	5024.6	4974.6	4786.3	4333.3	4015.6	3950.9	3912.6	3995.0	4050.9	4021.5	3983.2
37.5°	5698.3	5642.4	5410.0	4836.4	4318.6	4053.8	4024.4	4092.1	4156.8	4142.1	4062.7
40°	6342.6	6342.6	6133.7	5465.9	4768.7	4303.9	4309.8	4233.3	4292.1	4265.6	4280.3
42.5°	6978.0	6954.5	6869.1	6204.3	5251.1	4721.6	4627.5	4436.3	4542.2	4533.3	4553.9
45°	7622.3	7604.6	7581.1	6892.7	5942.5	5286.4	5236.4	4892.2	4989.3	4948.1	5036.4
47.5°	8137.1	8157.7	8157.7	7660.5	6680.9	6039.6	5966.0	5421.8	5607.1	5627.7	5648.3
50°	8575.4	8584.2	8575.4	8393.0	7504.6	6901.5	6751.5	6198.4	6383.7	6545.5	6733.8
52.5°	9181.4	9193.2	9152.0	9081.4	8622.5	7807.6	7639.9	7025.1	7404.6	7575.2	7913.5
55°	9928.6	9840.4	9763.9	9816.9	9696.2	8804.9	8631.3	7878.2	8448.9	8675.4	9352.0
57.5°	10066.9	10143.4	10337.6	10758.2	10931.8	9775.7	9675.6	8925.5	9628.6	9825.7	10955.3
60°	10555.2	10428.7	10905.3	11817.3	12011.4	11040.6	10937.7	10072.8	10802.4	11008.3	12435.1
62.5°	10875.9	10870.0	11576.1	12658.6	13099.9	12352.7	12143.8	11564.3	12070.3	12270.3	14047.2
65°	10781.8	10867.1	12120.3	13152.9	14008.9	13844.2	13723.6	12846.9	13514.7	13497.1	15097.4
67.5°	9922.8	10164.0	11776.1	13508.8	15362.2	15662.2	15624.0	14650.3	14688.5	14314.9	15565.2
70°	8731.3	8648.9	10319.9	13138.2	16038.8	17818.6	17809.8	15991.7	15744.6	14494.3	14223.7
72°	6707.3	6616.2	7990.0	11281.9	15682.8	18680.6	18945.3	16921.3	15732.8	13750.1	11749.6
72.5°	6089.6	6010.1	7378.1	10620.0	15288.6	18904.1	18780.6	16956.6	15609.3	13400.0	10975.9
75°	2803.6	2712.4	3686.1	6501.4	11926.1	16750.7	17171.4	15868.2	13632.4	10667.0	6575.0
77.5°	835.5	809.0	1185.6	2624.1	6930.9	12340.9	12502.7	11973.2	9516.8	5842.5	2438.8
80°	464.8	467.7	611.9	982.6	3047.7	7133.9	7716.4	7395.7	4668.7	1929.8	811.9
82.5°	258.9	273.6	382.4	582.5	1400.3	3274.2	3524.3	3397.8	1688.6	906.1	444.2
85°	135.3	141.2	200.0	311.8	794.3	1035.5	1064.9	1141.4	876.7	617.8	238.3
87.5°	53.0	53.0	73.5	129.4	294.2	320.7	288.3	350.1	503.1	400.1	117.7
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°	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4
2.5°	2853.6	2830.0	2827.1	2788.8	2800.6	2768.3	2771.2	2765.3	2768.3	2762.4	2747.7
5°	2838.9	2821.2	2771.2	2803.6	2774.1	2815.3	2847.7	2835.9	2844.7	2841.8	2844.7
7.5°	2859.4	2835.9	2830.0	2812.4	2838.9	2856.5	2883.0	2956.5	2950.6	2959.5	2977.1
10°	2921.2	2894.8	2877.1	2903.6	2888.9	2944.8	2974.2	3012.4	3080.1	3083.0	3047.7
12.5°	3041.8	3024.2	2988.9	2994.8	3044.8	3062.4	3080.1	3103.6	3147.7	3138.9	3171.3
15°	3180.1	3141.9	3121.3	3115.4	3127.2	3147.7	3144.8	3168.3	3191.9	3212.5	3203.6
17.5°	3280.1	3230.1	3236.0	3265.4	3262.5	3256.6	3218.4	3206.6	3218.4	3230.1	3224.2
20°	3383.1	3389.0	3344.8	3318.4	3306.6	3247.8	3218.4	3183.0	3147.7	3165.4	3191.9
22.5°	3512.5	3486.1	3421.3	3341.9	3283.1	3247.8	3156.6	3094.8	3094.8	3112.4	3103.6
25°	3659.6	3603.7	3491.9	3347.8	3274.2	3124.2	3059.5	3050.7	3027.1	3053.6	3065.4
27.5°	3774.4	3724.3	3571.4	3327.2	3124.2	3003.6	2965.4	2953.6	2991.8	2994.8	3041.8
30°	3821.4	3806.7	3583.1	3274.2	2971.2	2777.1	2753.5	2806.5	2847.7	2909.5	2912.4
32.5°	3883.2	3889.1	3600.8	3150.7	2771.2	2577.0	2541.7	2606.5	2724.1	2774.1	2812.4
35°	3986.2	4015.6	3586.1	2997.7	2559.4	2374.0	2368.2	2385.8	2500.5	2588.8	2638.8
37.5°	4165.6	4159.7	3583.1	2815.3	2391.7	2197.5	2150.5	2156.4	2232.8	2306.4	2297.6
40°	4406.8	4383.3	3574.3	2577.0	2174.0	2047.5	1968.1	1938.7	1932.8	1912.2	1918.1
42.5°	4736.3	4689.3	3571.4	2335.8	1976.9	1841.6	1785.7	1709.2	1653.3	1547.4	1553.3
45°	5195.3	5112.9	3494.9	2109.3	1782.7	1671.0	1585.6	1529.7	1409.1	1276.7	1276.7
47.5°	5904.2	5636.5	3497.8	1859.2	1594.5	1503.3	1444.4	1347.4	1217.9	1112.0	1100.2
50°	6948.6	6336.7	3397.8	1662.1	1441.5	1379.7	1317.9	1206.1	1082.6	1009.0	1017.9
52.5°	8295.9	7381.0	3394.9	1485.6	1320.9	1276.7	1209.1	1109.1	1017.9	970.8	953.1
55°	9902.2	8763.7	3500.8	1341.5	1197.3	1173.8	1144.4	1062.0	973.7	932.6	929.6
57.5°	11546.6	10114.0	3671.4	1238.5	1091.4	1109.1	1088.5	1023.8	953.1	906.1	900.2
60°	13008.7	11184.8	3327.2	1114.9	997.3	1035.5	1064.9	1009.0	970.8	967.9	947.3
62.5°	14111.9	11643.7	2530.0	1020.8	947.3	1017.9	1097.3	1132.6	1114.9	1138.5	1141.4
65°	14514.9	11367.2	1741.6	970.8	909.0	1059.1	1235.6	1223.8	1120.8	1076.7	1100.2
67.5°	13950.1	10246.4	1291.5	912.0	882.5	1144.4	1315.0	1167.9	1012.0	1006.1	988.5
70°	11996.7	8684.3	1053.2	850.2	838.4	1097.3	1279.7	1082.6	953.1	914.9	897.3
72°	9558.0	6763.2	923.7	806.1	767.8	979.6	1197.3	1014.9	903.1	856.1	835.5
72.5°	8725.4	6269.0	906.1	785.5	753.1	953.1	1156.1	994.3	891.4	850.2	817.8
75°	4786.3	3209.5	797.2	720.7	635.4	823.7	1070.8	932.6	841.4	782.5	776.6
77.5°	1779.8	1244.4	688.4	638.4	550.1	711.9	973.7	885.5	764.9	691.3	676.6
80°	682.5	656.0	561.9	538.4	461.9	623.7	897.3	794.3	650.1	576.6	553.1
82.5°	414.8	382.4	426.6	420.7	353.0	567.8	844.3	744.3	576.6	467.7	453.0
85°	226.5	226.5	297.1	285.4	247.1	453.0	638.4	494.2	364.8	300.1	305.9
87.5°	100.0	117.7	158.9	150.0	135.3	255.9	311.8	261.8	182.4	123.6	132.4
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)