

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: P318990

Luminaire Tested: **GAN-SA6A-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25205 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

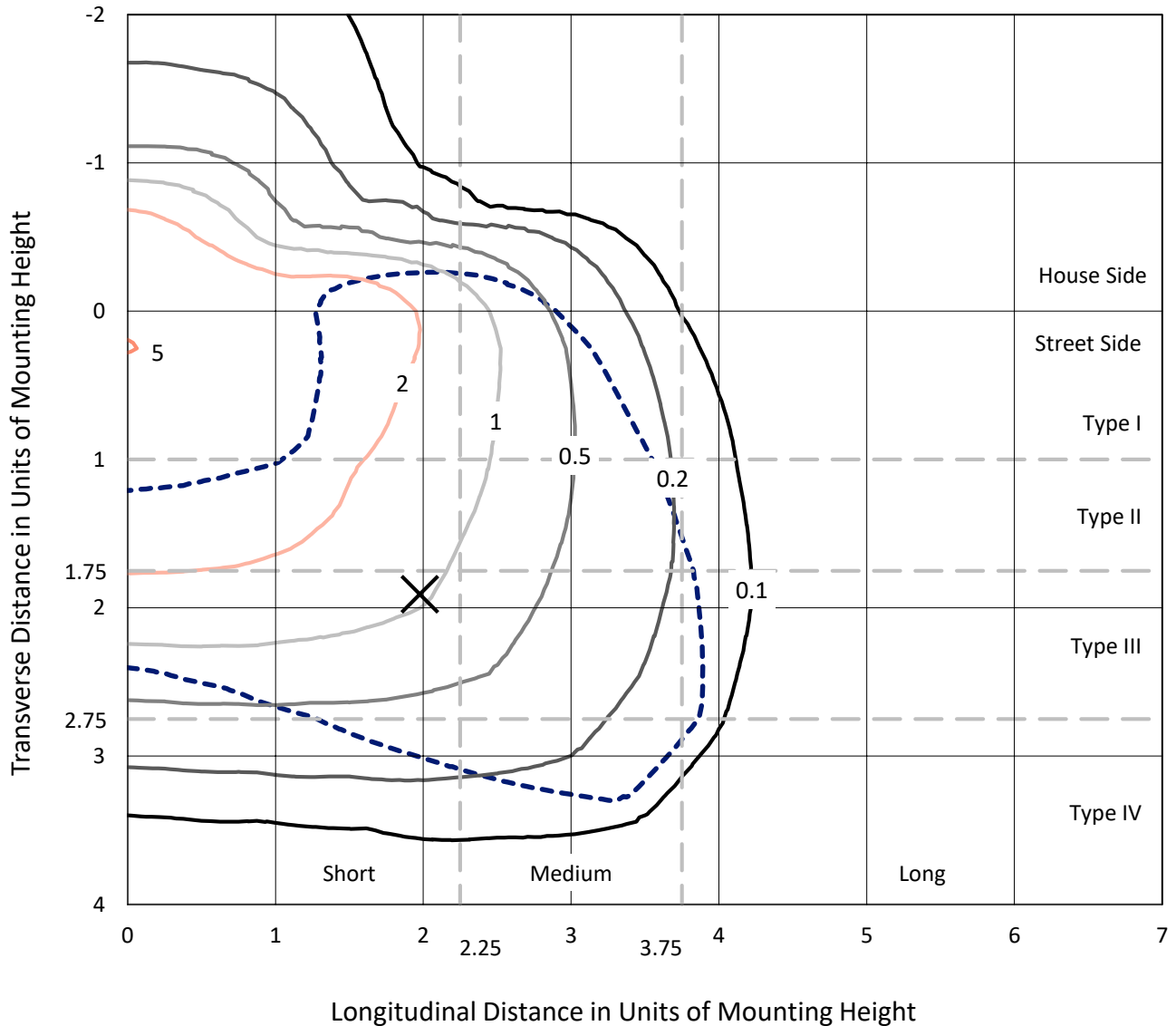
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

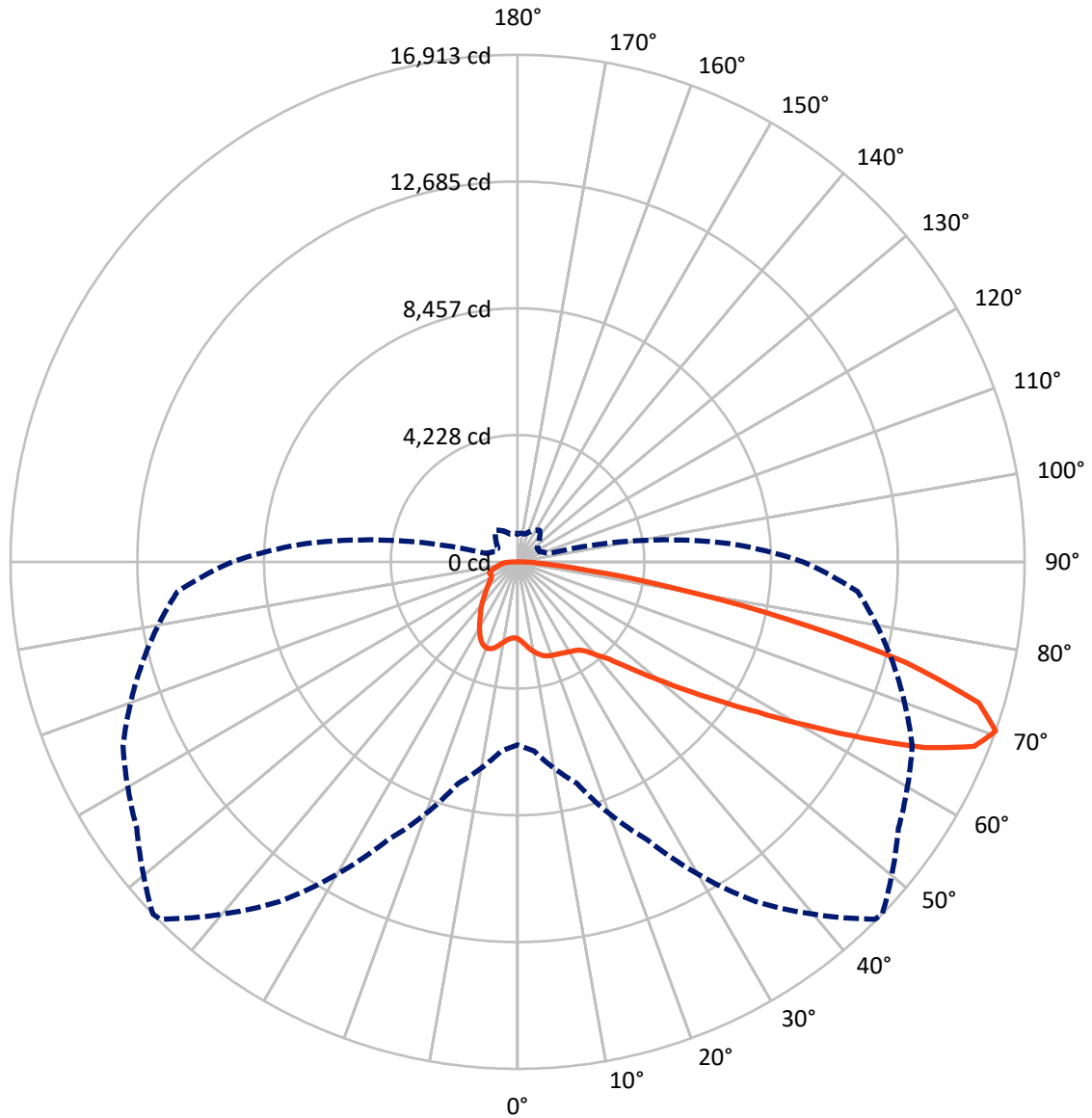
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5776.9	0.0	5776.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19428.1	0.0	19428.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	25205.0	0.0	25205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	1.0
10°-20°	872.2	3.5
20°-30°	1454.2	5.8
30°-40°	2063.6	8.2
40°-50°	3035.5	12.0
50°-60°	5140.6	20.4
60°-70°	7297.0	29.0
70°-80°	4433.0	17.6
80°-90°	646.9	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°	25205.0	100.0
0°-180°	25205.0	100.0

Coefficient of Utilization

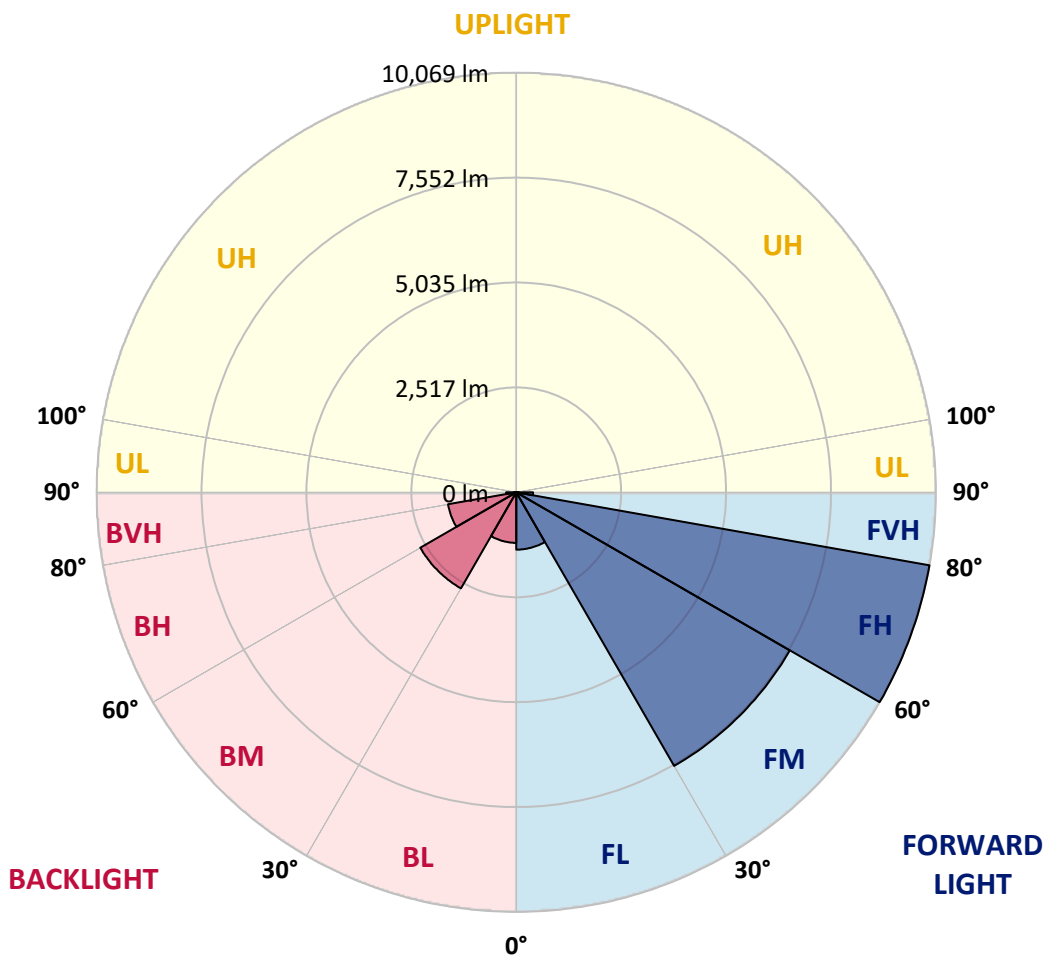


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.3	5.5			
FM (30°-60°)	7580.5	30.1			
FH (60°-80°)	10069.3	39.9			G4/12000
FVH (80°-90°)	403.0	1.6			G3/500
BL (0°-30°)	1212.9	4.8	B3/2500		
BM (30°-60°)	2659.3	10.6	B3/5000		
BH (60°-80°)	1660.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	243.9	1.0			G3/500
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°	45°	46°	55°	65°	75°	85°
0°	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9
2.5°	2696.4	2698.1	2701.6	2693.0	2668.8	2661.9	2659.3	2634.3	2617.9	2593.8	2573.1
5°	2912.1	2913.8	2908.6	2884.5	2831.0	2791.3	2787.9	2730.9	2679.2	2624.0	2582.6
7.5°	3137.2	3139.8	3123.4	3077.7	3002.6	2933.6	2929.3	2851.7	2773.2	2689.5	2627.4
10°	3336.5	3326.1	3299.4	3235.5	3146.7	3062.2	3058.7	2977.6	2887.1	2786.1	2703.3
12.5°	3469.3	3460.7	3426.2	3348.5	3251.1	3173.4	3166.5	3091.5	3003.5	2893.1	2793.9
15°	3542.6	3548.6	3502.1	3414.1	3319.2	3253.6	3247.6	3194.1	3115.6	3004.4	2890.5
17.5°	3552.1	3557.3	3512.4	3425.3	3347.7	3302.8	3300.2	3264.9	3207.9	3101.0	2981.9
20°	3496.9	3500.3	3463.3	3391.7	3340.8	3327.0	3326.1	3310.6	3268.3	3173.4	3057.8
22.5°	3416.7	3419.3	3392.5	3340.8	3323.5	3345.1	3351.1	3345.1	3314.9	3226.0	3117.4
25°	3396.8	3395.1	3367.5	3314.9	3329.6	3375.3	3383.0	3385.6	3364.9	3287.3	3193.3
27.5°	3492.6	3486.5	3433.9	3349.4	3358.9	3414.1	3424.4	3449.5	3436.5	3368.4	3279.5
30°	3769.5	3759.1	3651.3	3480.5	3433.9	3462.4	3475.3	3515.0	3517.6	3460.7	3394.2
32.5°	4237.0	4224.0	4030.8	3725.5	3560.7	3511.6	3523.6	3583.2	3615.1	3571.1	3499.5
35°	4827.9	4813.2	4559.6	4142.1	3772.9	3605.6	3614.2	3661.6	3725.5	3663.4	3568.5
37.5°	5443.7	5408.4	5164.3	4632.0	4110.2	3806.6	3806.6	3812.6	3842.8	3713.4	3649.6
40°	6056.2	6020.8	5800.0	5208.2	4546.7	4123.1	4103.3	3969.6	3945.4	3834.2	3812.6
42.5°	6625.5	6615.1	6484.9	5859.5	5059.0	4434.5	4406.9	4180.1	4185.2	4116.2	4117.1
45°	7231.0	7231.0	7124.9	6516.8	5655.9	4934.8	4907.2	4573.4	4625.1	4593.2	4670.0
47.5°	7725.3	7740.8	7726.1	7201.7	6350.3	5570.5	5520.5	5118.5	5263.5	5373.0	5596.4
50°	8229.9	8254.0	8256.6	7953.0	7189.6	6326.2	6269.2	5842.2	6165.7	6479.7	6918.7
52.5°	8962.2	9016.5	8800.0	8702.6	8217.8	7223.2	7167.2	6773.0	7312.9	7753.7	8510.2
55°	9641.0	9593.6	9439.2	9499.6	9318.4	8244.5	8202.3	7856.4	8591.3	9164.0	10146.5
57.5°	10008.5	10005.0	10160.3	10419.1	10505.3	9503.9	9468.5	9132.1	10032.7	10463.1	11682.8
60°	10439.8	10445.8	10830.5	11418.0	11773.3	11072.1	11056.5	10801.2	11432.6	11675.9	12887.8
62.5°	10500.2	10608.9	11271.3	12282.3	12960.2	12904.2	12938.7	12304.7	12685.1	12643.7	13787.5
65°	9805.8	9949.0	11148.0	12543.6	14140.2	14907.9	14939.9	13816.8	13672.7	13470.9	14109.2
67.5°	8382.5	8594.7	9897.2	11975.2	14529.3	16389.0	16433.8	14989.0	14492.2	13751.2	13334.6
70°	6100.2	6335.6	7646.8	10227.6	13835.8	16862.5	16913.4	15507.4	14523.2	12953.3	11383.4
72.5°	3684.9	3869.5	4950.3	7529.4	11677.6	16000.0	16090.5	14850.2	13259.6	10972.0	8405.8
75°	1618.2	1739.0	2393.7	4338.8	8360.1	13238.0	13351.0	12711.0	10773.6	7973.7	4968.5
77.5°	689.2	723.7	981.6	1884.7	4726.1	9045.9	9201.1	9287.4	7309.5	4338.8	2099.5
80°	429.6	443.4	555.5	853.1	2211.7	5080.6	5247.9	5464.4	3629.7	1594.9	733.2
82.5°	261.4	276.9	369.2	515.8	1151.5	2303.1	2383.3	2536.0	1408.6	689.2	379.5
85°	157.0	168.2	226.0	326.1	655.6	905.7	904.8	1000.6	663.3	443.4	200.1
87.5°	75.0	83.7	120.8	169.1	330.4	339.9	318.3	360.6	402.8	290.7	100.9
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°	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9	2567.9
2.5°	2566.2	2562.7	2551.5	2542.9	2541.2	2536.0	2531.7	2534.3	2537.7	2538.6	2538.6
5°	2565.3	2555.8	2541.2	2535.1	2542.9	2553.2	2566.2	2583.4	2593.8	2601.5	2606.7
7.5°	2606.7	2588.6	2572.2	2568.8	2584.3	2611.9	2641.2	2677.4	2702.5	2719.7	2723.2
10°	2675.7	2653.3	2636.9	2640.4	2668.0	2707.6	2749.0	2795.6	2833.6	2856.9	2858.6
12.5°	2755.1	2733.5	2718.0	2732.6	2778.4	2826.7	2869.8	2910.3	2944.8	2968.1	2968.1
15°	2846.5	2831.0	2812.9	2846.5	2908.6	2951.7	2969.9	2989.7	3008.7	3025.9	3022.5
17.5°	2934.5	2919.8	2910.3	2950.0	3014.7	3034.6	3022.5	3007.8	3007.8	3017.3	3019.0
20°	3010.4	2997.5	3003.5	3042.3	3076.0	3055.3	3010.4	2963.8	2944.8	2950.0	2955.2
22.5°	3076.8	3070.8	3088.9	3107.0	3082.9	3010.4	2927.6	2864.6	2841.3	2839.6	2841.3
25°	3154.4	3153.6	3176.0	3143.2	3036.3	2902.6	2791.3	2730.1	2717.1	2727.5	2744.7
27.5°	3251.1	3260.5	3271.8	3151.9	2941.4	2739.5	2626.6	2584.3	2597.2	2622.2	2638.6
30°	3374.4	3400.3	3376.1	3130.3	2805.1	2553.2	2445.4	2433.3	2468.7	2504.1	2521.3
32.5°	3494.3	3534.8	3476.2	3074.2	2629.1	2355.7	2272.0	2268.6	2311.7	2346.2	2370.4
35°	3590.9	3671.1	3551.2	2963.0	2425.6	2173.7	2112.5	2089.2	2104.7	2145.2	2172.8
37.5°	3716.9	3850.6	3603.0	2793.0	2204.8	2023.6	1952.0	1898.5	1884.7	1901.1	1914.9
40°	3947.2	4124.0	3627.1	2555.8	1989.1	1873.5	1801.1	1722.6	1668.2	1628.5	1629.4
42.5°	4323.2	4480.2	3611.6	2267.7	1789.9	1726.9	1644.9	1554.4	1466.4	1376.7	1369.8
45°	4933.9	5009.9	3565.0	1962.4	1614.7	1573.3	1496.6	1406.0	1288.7	1186.9	1177.4
47.5°	5911.3	5743.0	3492.6	1695.8	1460.3	1443.1	1372.4	1268.0	1143.8	1061.8	1054.9
50°	7243.9	6801.4	3457.2	1483.6	1324.1	1329.2	1271.4	1161.0	1043.7	983.3	976.4
52.5°	8838.0	8034.1	3525.4	1319.7	1214.5	1232.6	1189.5	1086.0	987.7	940.2	933.3
55°	10491.5	9310.7	3598.7	1200.7	1111.0	1146.4	1131.7	1046.3	957.5	913.5	907.4
57.5°	11907.0	10263.8	3452.0	1104.1	1018.7	1073.9	1086.8	1021.3	941.9	902.3	895.4
60°	12798.1	10647.7	3067.3	1013.5	945.4	1016.1	1061.0	1014.4	948.0	944.5	939.3
62.5°	13220.7	10614.0	2490.3	941.9	899.7	991.1	1079.9	1053.2	1017.0	1048.0	1050.6
65°	13031.0	10106.8	1854.5	894.5	866.9	1000.6	1136.9	1126.5	1036.8	1067.9	1072.2
67.5°	11782.0	8896.6	1373.2	853.1	830.7	1027.3	1240.4	1150.7	998.0	1020.4	1006.6
70°	9522.9	7053.3	1059.2	806.5	793.6	1023.9	1287.0	1136.0	955.7	960.9	923.8
72.5°	6566.8	4809.7	861.7	763.4	740.1	933.3	1254.2	1099.8	920.4	880.7	831.5
75°	3571.1	2581.7	732.3	718.5	646.1	819.4	1193.8	1073.9	888.5	835.8	808.2
77.5°	1405.1	1071.3	635.7	657.3	565.0	723.7	1126.5	1024.7	844.5	775.5	761.7
80°	573.6	546.9	527.0	568.4	485.6	633.1	1045.4	967.0	791.8	719.4	691.8
82.5°	325.2	339.9	409.7	448.5	394.2	583.1	1006.6	920.4	728.9	644.3	611.6
85°	166.5	199.3	285.5	321.7	289.8	496.0	927.3	805.6	584.8	493.4	496.0
87.5°	80.2	111.3	180.3	201.8	188.0	358.8	692.7	584.0	455.4	360.6	349.3
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)