

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: P319008

Luminaire Tested: **GAN-SA4C-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319008
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-SA4C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25803 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

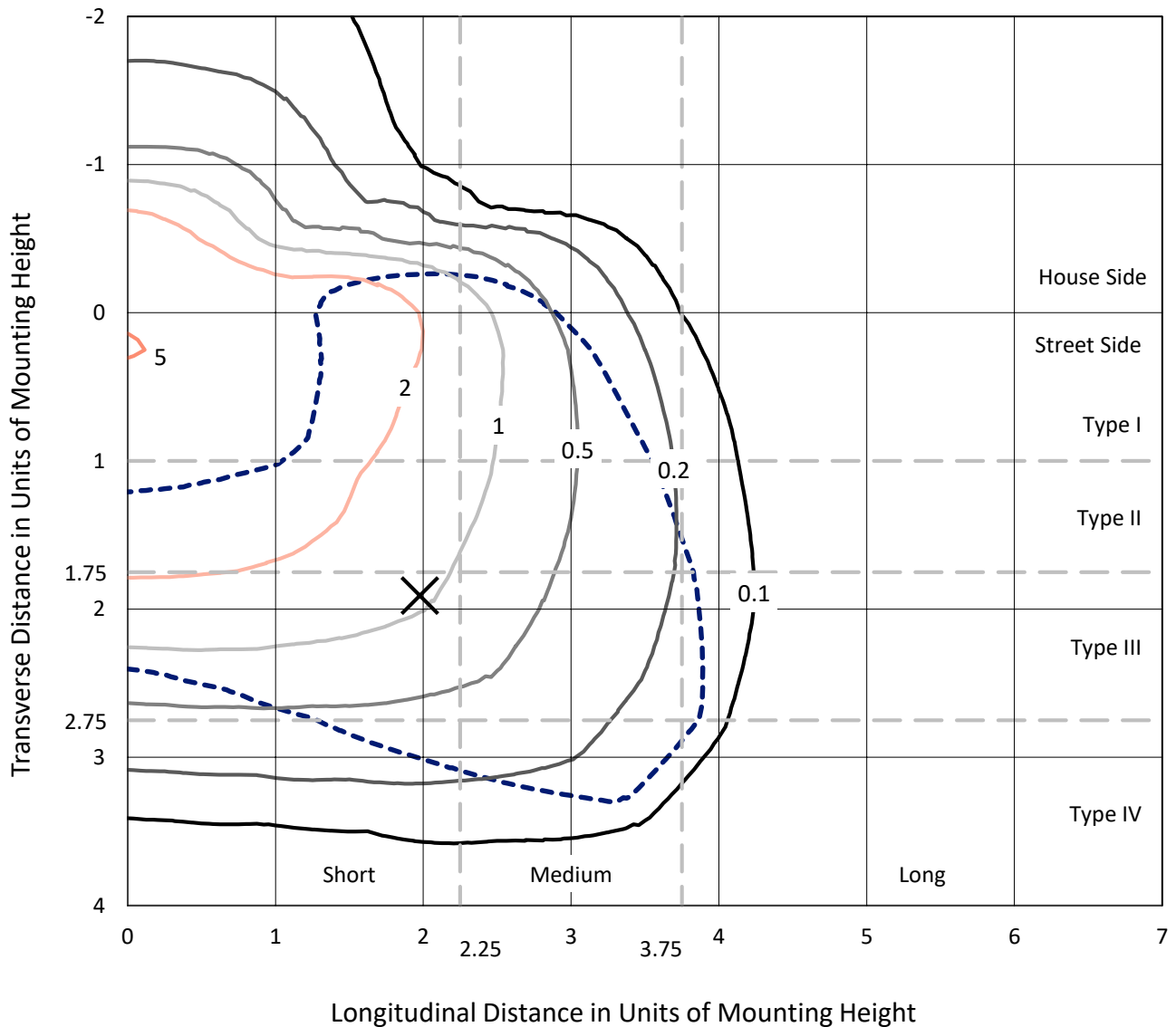
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

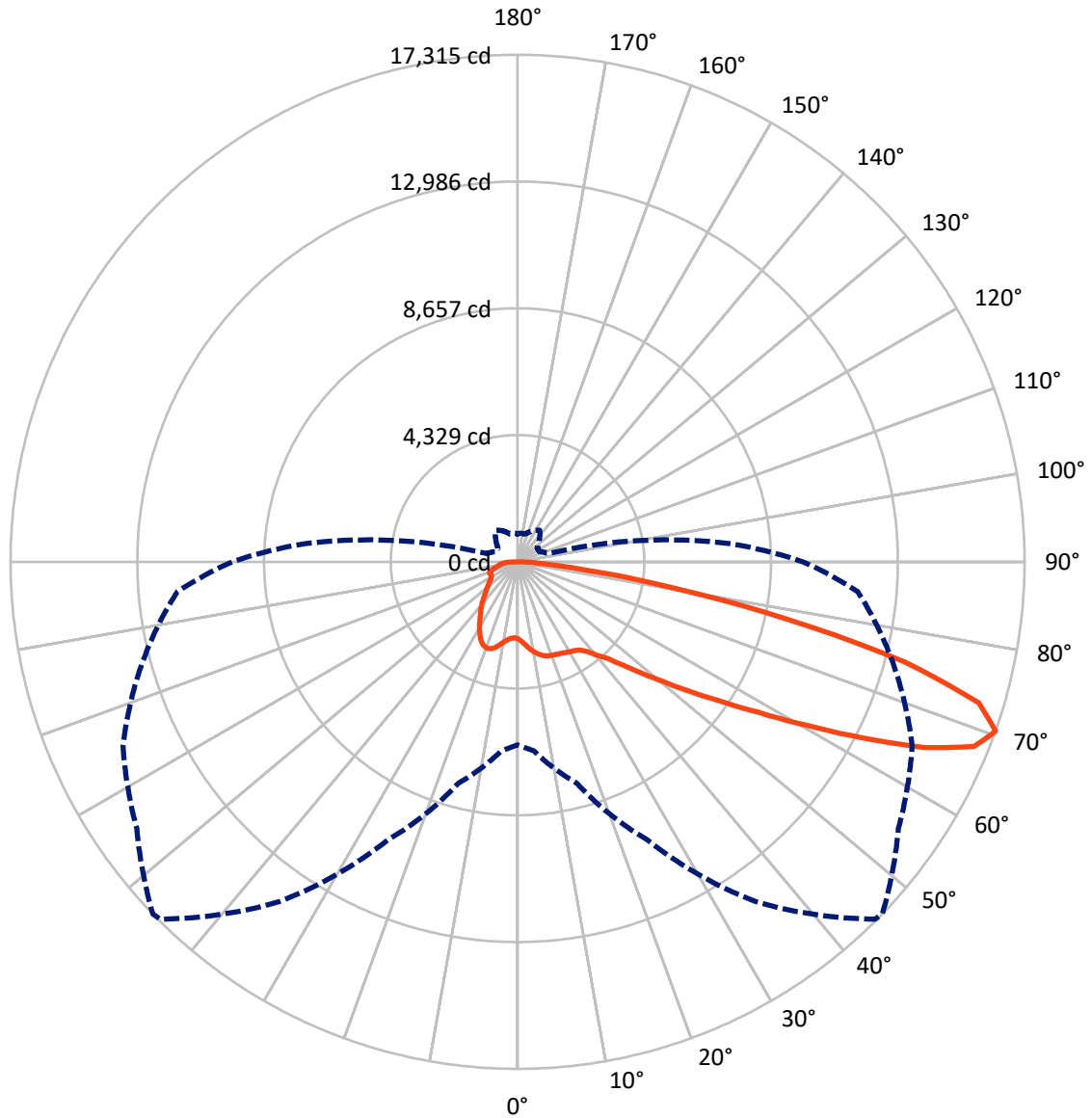
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	5914.0	0.0	5914.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19889.0	0.0	19889.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	25803.0	0.0	25803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.0
10°-20°	892.9	3.5
20°-30°	1488.7	5.8
30°-40°	2112.6	8.2
40°-50°	3107.5	12.0
50°-60°	5262.6	20.4
60°-70°	7470.2	29.0
70°-80°	4538.2	17.6
80°-90°	662.3	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°	25803.0	100.0
0°-180°	25803.0	100.0

Coefficient of Utilization

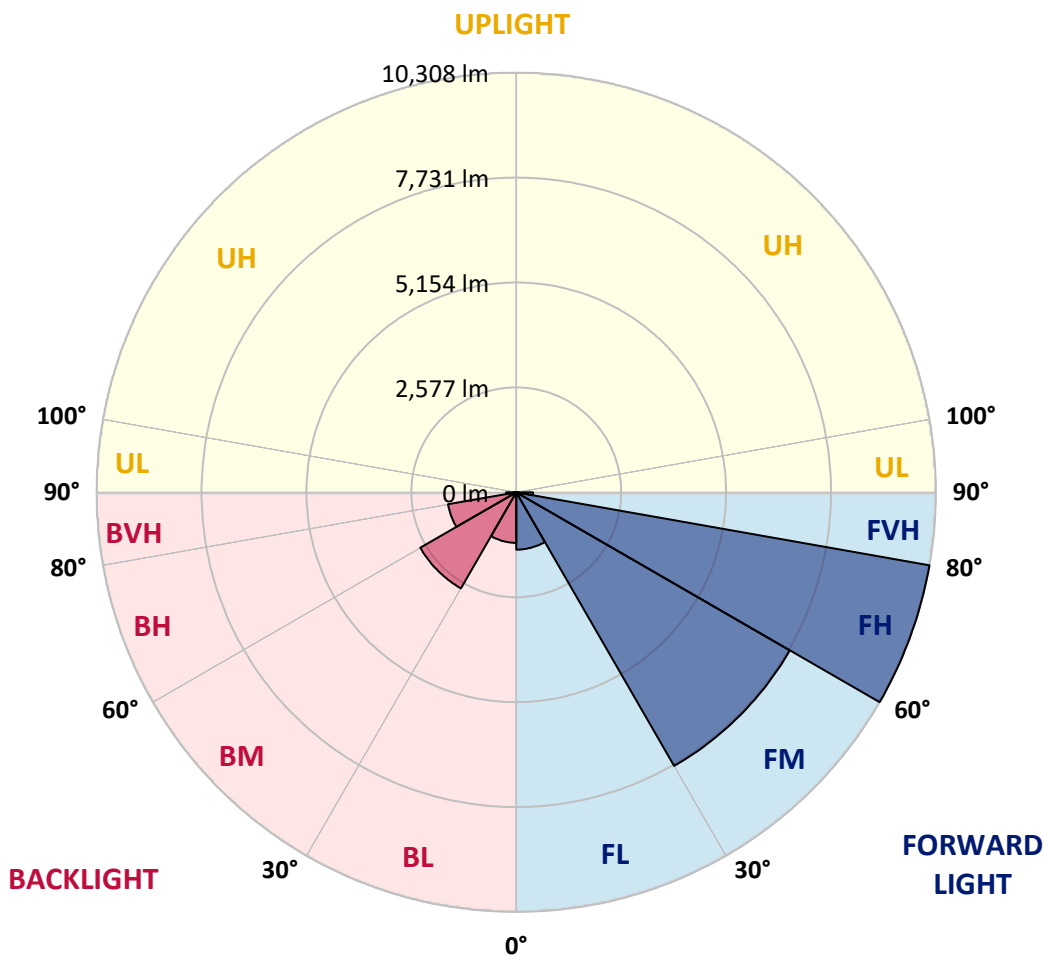


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.9	5.5			
FM (30°-60°)	7760.4	30.1			
FH (60°-80°)	10308.2	39.9			G4/12000
FVH (80°-90°)	412.6	1.6			G3/500
BL (0°-30°)	1241.7	4.8	B3/2500		
BM (30°-60°)	2722.4	10.6	B3/5000		
BH (60°-80°)	1700.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	249.7	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°	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8
2.5°	2760.4	2762.2	2765.7	2756.9	2732.1	2725.1	2722.4	2696.8	2680.0	2655.3	2634.1
5°	2981.2	2982.9	2977.6	2952.9	2898.1	2857.5	2854.0	2795.7	2742.7	2686.2	2643.8
7.5°	3211.6	3214.3	3197.5	3150.7	3073.9	3003.2	2998.8	2919.3	2839.0	2753.3	2689.8
10°	3415.6	3405.0	3377.6	3312.3	3221.3	3134.8	3131.3	3048.3	2955.5	2852.2	2767.5
12.5°	3551.6	3542.8	3507.4	3428.0	3328.2	3248.7	3241.7	3164.8	3074.8	2961.7	2860.2
15°	3626.7	3632.8	3585.2	3495.1	3398.0	3330.8	3324.7	3269.9	3189.6	3075.6	2959.1
17.5°	3636.4	3641.7	3595.8	3506.6	3427.1	3381.2	3378.5	3342.3	3284.0	3174.5	3052.7
20°	3579.9	3583.4	3545.4	3472.1	3420.0	3405.9	3405.0	3389.1	3345.9	3248.7	3130.4
22.5°	3497.7	3500.4	3473.0	3420.0	3402.4	3424.4	3430.6	3424.4	3393.5	3302.6	3191.3
25°	3477.4	3475.7	3447.4	3393.5	3408.5	3455.3	3463.3	3465.9	3444.8	3365.3	3269.0
27.5°	3575.4	3569.3	3515.4	3428.9	3438.6	3495.1	3505.7	3531.3	3518.0	3448.3	3357.3
30°	3858.9	3848.3	3737.9	3563.1	3515.4	3544.5	3557.8	3598.4	3601.1	3542.8	3474.8
32.5°	4337.5	4324.3	4126.5	3813.9	3645.2	3594.9	3607.2	3668.2	3700.8	3655.8	3582.5
35°	4942.4	4927.4	4667.8	4240.4	3862.4	3691.1	3700.0	3748.5	3813.9	3750.3	3653.2
37.5°	5572.9	5536.7	5286.8	4741.9	4207.7	3896.9	3896.9	3903.1	3934.0	3801.5	3736.2
40°	6199.8	6163.6	5937.6	5331.8	4654.5	4220.9	4200.6	4063.8	4039.0	3925.1	3903.1
42.5°	6782.7	6772.1	6638.7	5998.5	5179.1	4539.7	4511.5	4279.2	4284.5	4213.9	4214.8
45°	7402.6	7402.6	7293.9	6671.4	5790.1	5051.9	5023.6	4681.9	4734.9	4702.2	4780.8
47.5°	7908.5	7924.4	7909.4	7372.5	6501.0	5702.7	5651.5	5240.0	5388.3	5500.5	5729.2
50°	8425.1	8449.8	8452.5	8141.7	7360.2	6476.2	6418.0	5980.9	6312.0	6633.4	7082.9
52.5°	9174.8	9230.5	9008.8	8909.0	8412.8	7394.6	7337.2	6933.7	7486.4	7937.7	8712.1
55°	9869.8	9821.2	9663.1	9725.0	9539.5	8440.1	8396.9	8042.8	8795.1	9381.5	10387.2
57.5°	10246.0	10242.4	10401.4	10666.3	10754.6	9729.4	9693.2	9348.8	10270.7	10711.3	11959.9
60°	10687.5	10693.7	11087.5	11688.8	12052.7	11334.7	11318.9	11057.5	11703.9	11952.9	13193.6
62.5°	10749.3	10860.6	11538.7	12573.7	13267.7	13210.3	13245.7	12596.6	12986.0	12943.7	14114.6
65°	10038.4	10185.0	11412.5	12841.2	14475.7	15261.6	15294.3	14144.6	13997.1	13790.5	14443.9
67.5°	8581.4	8798.6	10132.0	12259.3	14874.0	16777.8	16823.7	15344.6	14836.0	14077.5	13651.0
70°	6244.9	6486.0	7828.2	10470.2	14164.0	17262.6	17314.7	15875.4	14867.8	13260.7	11653.5
72.5°	3772.4	3961.3	5067.8	7708.1	11954.6	16379.6	16472.3	15202.5	13574.1	11232.3	8605.3
75°	1656.6	1780.2	2450.4	4441.7	8558.5	13552.1	13667.7	13012.5	11029.2	8162.9	5086.3
77.5°	705.6	740.9	1004.9	1929.5	4838.2	9260.5	9419.4	9507.7	7482.9	4441.7	2149.3
80°	439.8	453.9	568.7	873.3	2264.1	5201.1	5372.4	5594.1	3715.8	1632.7	750.6
82.5°	267.6	283.5	377.9	528.1	1178.9	2357.7	2439.8	2596.1	1442.0	705.6	388.5
85°	160.7	172.2	231.4	333.8	671.1	927.2	926.3	1024.3	679.1	453.9	204.9
87.5°	76.8	85.7	123.6	173.1	338.2	347.9	325.8	369.1	412.4	297.6	103.3
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°	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8	2628.8
2.5°	2627.1	2623.5	2612.0	2603.2	2601.4	2596.1	2591.7	2594.4	2597.9	2598.8	2598.8
5°	2626.2	2616.5	2601.4	2595.3	2603.2	2613.8	2627.1	2644.7	2655.3	2663.3	2668.6
7.5°	2668.6	2650.0	2633.2	2629.7	2645.6	2673.9	2703.9	2741.0	2766.6	2784.2	2787.8
10°	2739.2	2716.2	2699.5	2703.0	2731.3	2771.9	2814.3	2861.9	2900.8	2924.6	2926.4
12.5°	2820.4	2798.4	2782.5	2797.5	2844.3	2893.7	2937.9	2979.4	3014.7	3038.6	3038.6
15°	2914.0	2898.1	2879.6	2914.0	2977.6	3021.8	3040.3	3060.6	3080.1	3097.7	3094.2
17.5°	3004.1	2989.1	2979.4	3020.0	3086.2	3106.5	3094.2	3079.2	3079.2	3088.9	3090.7
20°	3081.8	3068.6	3074.8	3114.5	3148.9	3127.7	3081.8	3034.1	3014.7	3020.0	3025.3
22.5°	3149.8	3143.6	3162.2	3180.7	3156.0	3081.8	2997.0	2932.6	2908.7	2907.0	2908.7
25°	3229.3	3228.4	3251.4	3217.8	3108.3	2971.4	2857.5	2794.8	2781.6	2792.2	2809.8
27.5°	3328.2	3337.9	3349.4	3226.6	3011.2	2804.5	2688.9	2645.6	2658.8	2684.5	2701.2
30°	3454.5	3481.0	3456.2	3204.6	2871.7	2613.8	2503.4	2491.1	2527.3	2563.5	2581.1
32.5°	3577.2	3618.7	3558.7	3147.2	2691.5	2411.6	2325.9	2322.4	2366.6	2401.9	2426.6
35°	3676.1	3758.2	3635.5	3033.3	2483.1	2225.3	2162.6	2138.7	2154.6	2196.1	2224.4
37.5°	3805.0	3941.9	3688.5	2859.3	2257.1	2071.6	1998.3	1943.6	1929.5	1946.2	1960.4
40°	4040.8	4221.8	3713.2	2616.5	2036.3	1918.0	1843.8	1763.4	1707.8	1667.2	1668.1
42.5°	4425.8	4586.5	3697.3	2321.5	1832.3	1767.9	1684.0	1591.2	1501.2	1409.3	1402.3
45°	5051.0	5128.7	3649.6	2008.9	1653.1	1610.7	1532.1	1439.4	1319.3	1215.1	1205.4
47.5°	6051.5	5879.3	3575.4	1736.1	1495.0	1477.3	1404.9	1298.1	1170.9	1087.0	1080.0
50°	7415.8	6962.8	3539.2	1518.8	1355.5	1360.8	1301.6	1188.6	1068.5	1006.7	999.6
52.5°	9047.7	8224.7	3609.0	1351.1	1243.3	1261.9	1217.7	1111.8	1011.1	962.5	955.5
55°	10740.5	9531.6	3684.1	1229.2	1137.4	1173.6	1158.6	1071.1	980.2	935.1	929.0
57.5°	12189.5	10507.3	3533.9	1130.3	1042.9	1099.4	1112.6	1045.5	964.3	923.7	916.6
60°	13101.7	10900.3	3140.1	1037.6	967.8	1040.2	1086.1	1038.5	970.5	966.9	961.6
62.5°	13534.4	10865.9	2549.3	964.3	921.0	1014.6	1105.6	1078.2	1041.1	1072.9	1075.5
65°	13340.1	10346.6	1898.5	915.7	887.5	1024.3	1163.9	1153.3	1061.4	1093.2	1097.6
67.5°	12061.5	9107.7	1405.8	873.3	850.4	1051.7	1269.8	1178.0	1021.7	1044.6	1030.5
70°	9748.8	7220.6	1084.4	825.6	812.4	1048.2	1317.5	1163.0	978.4	983.7	945.7
72.5°	6722.6	4923.9	882.2	781.5	757.7	955.5	1283.9	1125.9	942.2	901.6	851.3
75°	3655.8	2642.9	749.7	735.6	661.4	838.9	1222.1	1099.4	909.5	855.7	827.4
77.5°	1438.5	1096.7	650.8	672.9	578.4	740.9	1153.3	1049.1	864.5	793.9	779.7
80°	587.2	559.8	539.5	581.9	497.2	648.2	1070.2	989.9	810.6	736.5	708.2
82.5°	332.9	347.9	419.4	459.2	403.6	596.9	1030.5	942.2	746.2	659.6	626.1
85°	170.4	204.0	292.3	329.4	296.7	507.8	949.3	824.8	598.7	505.1	507.8
87.5°	82.1	113.9	184.6	206.6	192.5	367.3	709.1	597.8	466.2	369.1	357.6
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)