

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: P319030

Luminaire Tested: **GAN-SA6A-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319030
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-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 27678 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

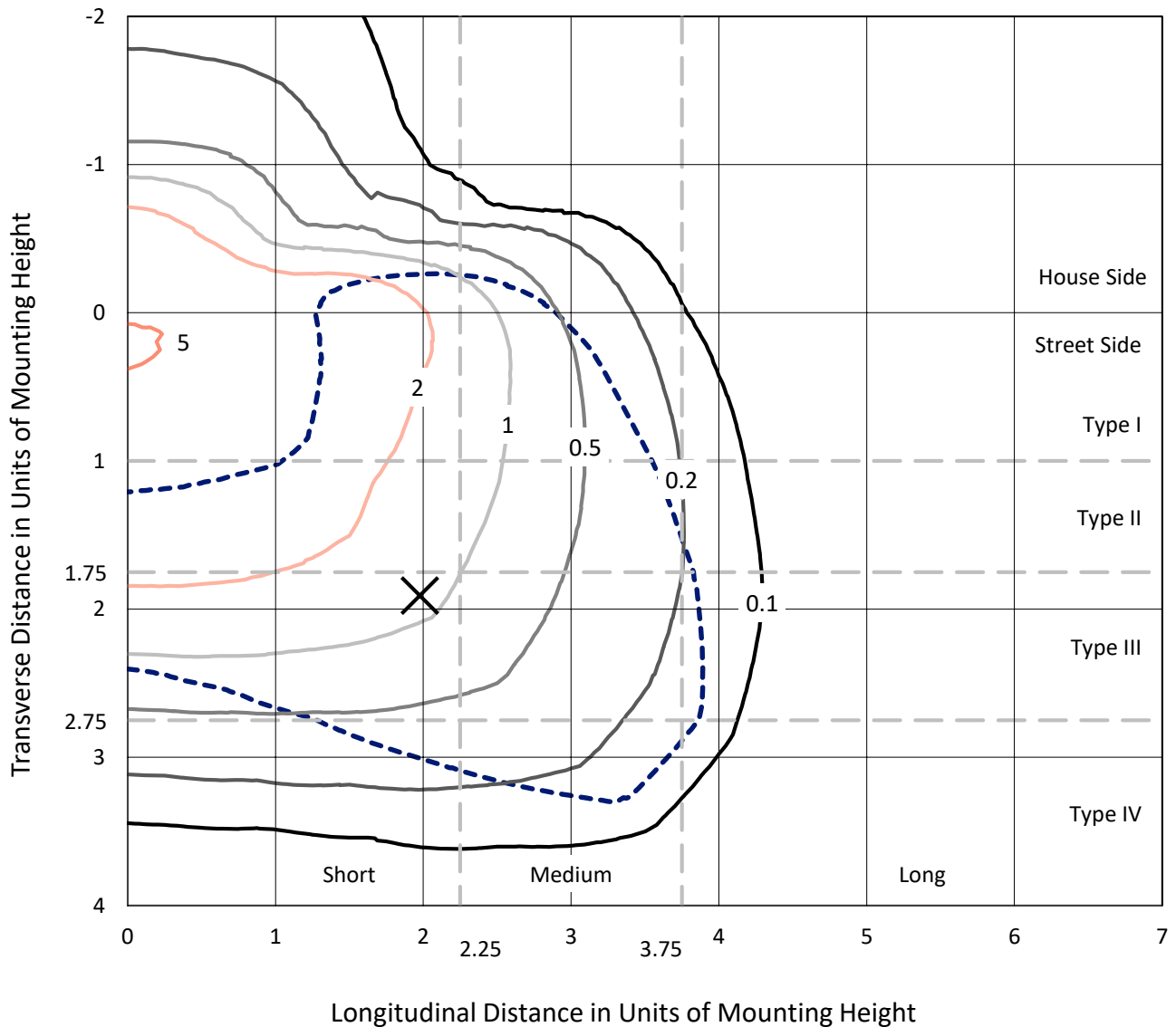
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

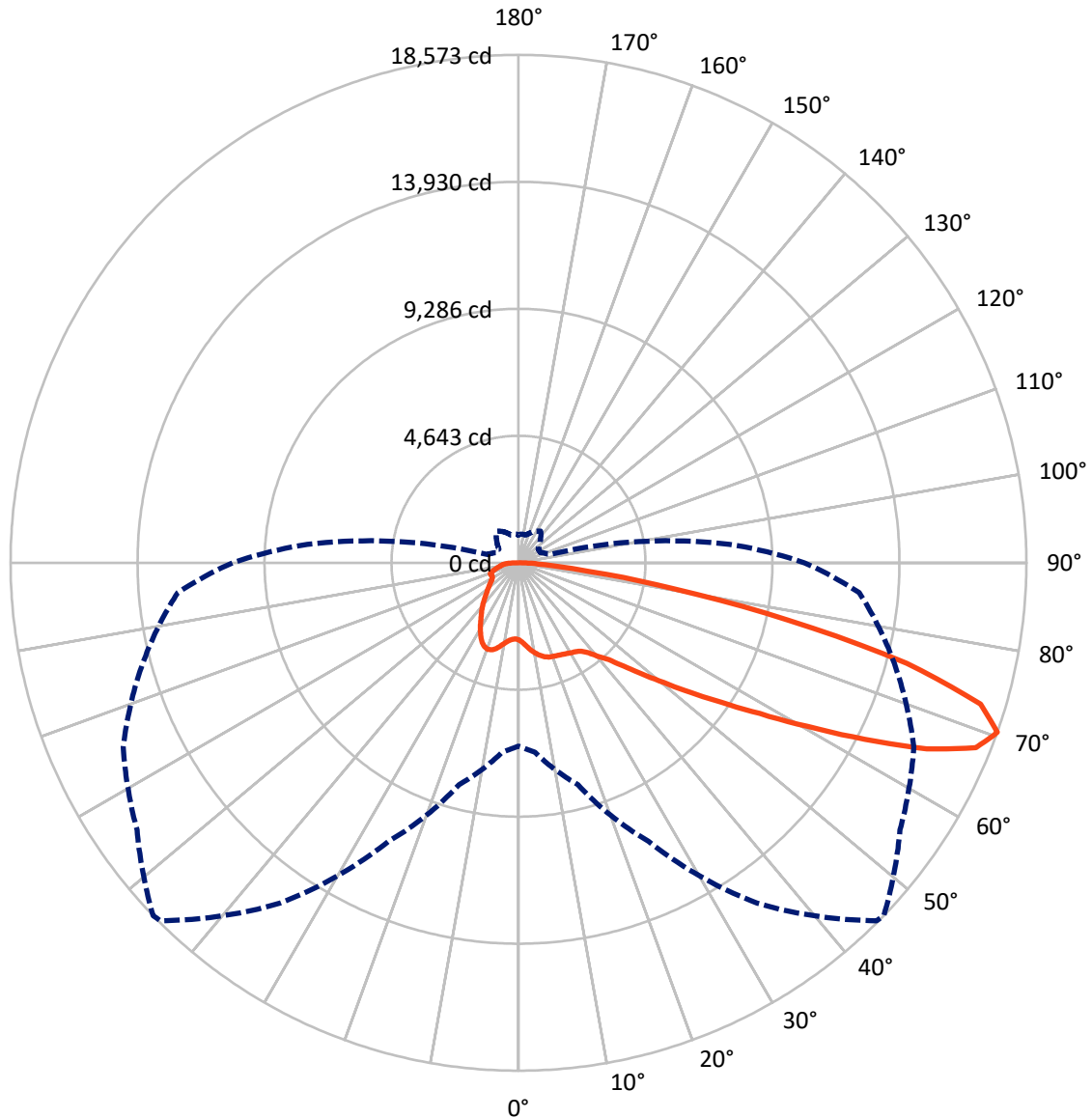
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	6343.7	0.0	6343.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21334.3	0.0	21334.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	27678.0	0.0	27678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	1.0
10°-20°	957.7	3.5
20°-30°	1596.9	5.8
30°-40°	2266.1	8.2
40°-50°	3333.4	12.0
50°-60°	5645.0	20.4
60°-70°	8013.0	29.0
70°-80°	4868.0	17.6
80°-90°	710.4	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°	27678.0	100.0
0°-180°	27678.0	100.0

Coefficient of Utilization

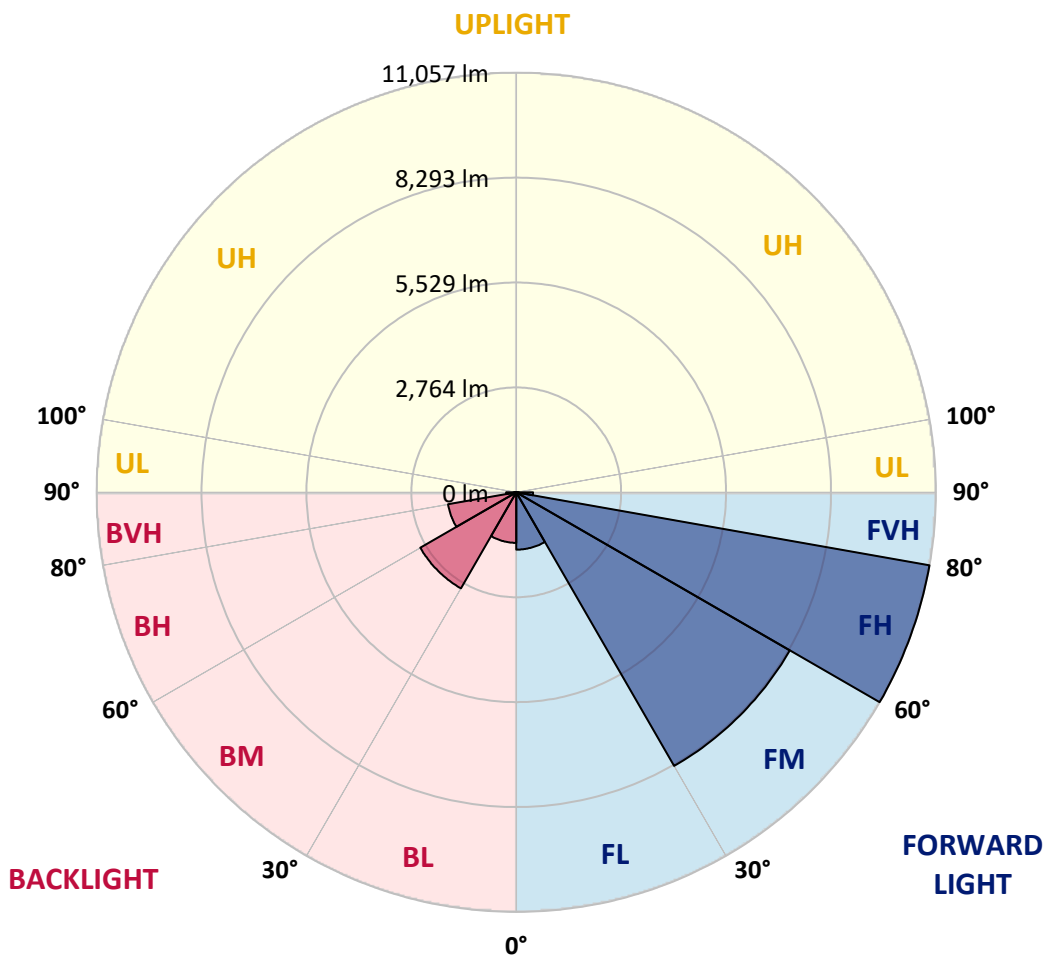


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.2	5.5			
FM (30°-60°)	8324.3	30.1			
FH (60°-80°)	11057.2	39.9			G4/12000
FVH (80°-90°)	442.5	1.6			G3/500
BL (0°-30°)	1331.9	4.8	B3/2500		
BM (30°-60°)	2920.2	10.6	B3/5000		
BH (60°-80°)	1823.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	267.9	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°	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8
2.5°	2961.0	2962.9	2966.7	2957.2	2930.7	2923.1	2920.3	2892.8	2874.8	2848.3	2825.5
5°	3197.8	3199.7	3194.0	3167.5	3108.7	3065.2	3061.4	2998.9	2942.0	2881.4	2835.9
7.5°	3445.0	3447.8	3429.9	3379.6	3297.2	3221.5	3216.7	3131.5	3045.3	2953.4	2885.2
10°	3663.8	3652.4	3623.1	3553.0	3455.4	3362.6	3358.8	3269.8	3170.3	3059.5	2968.6
12.5°	3809.7	3800.2	3762.3	3677.1	3570.0	3484.8	3477.2	3394.8	3298.2	3176.9	3068.0
15°	3890.2	3896.8	3845.7	3749.1	3644.9	3572.9	3566.2	3507.5	3421.3	3299.1	3174.1
17.5°	3900.6	3906.3	3857.0	3761.4	3676.1	3626.9	3624.0	3585.2	3522.7	3405.2	3274.5
20°	3840.0	3843.8	3803.1	3724.4	3668.5	3653.4	3652.4	3635.4	3589.0	3484.8	3357.9
22.5°	3751.9	3754.7	3725.4	3668.5	3649.6	3673.3	3679.9	3673.3	3640.1	3542.6	3423.2
25°	3730.1	3728.2	3697.9	3640.1	3656.2	3706.4	3715.0	3717.8	3695.1	3609.8	3506.6
27.5°	3835.3	3828.6	3770.8	3678.0	3688.4	3749.1	3760.4	3787.9	3773.7	3698.9	3601.3
30°	4139.3	4127.9	4009.5	3822.0	3770.8	3802.1	3816.3	3859.9	3862.7	3800.2	3727.3
32.5°	4652.7	4638.5	4426.3	4091.0	3910.1	3856.1	3869.4	3934.7	3969.8	3921.5	3842.8
35°	5301.5	5285.4	5007.0	4548.5	4143.1	3959.3	3968.8	4020.9	4091.0	4022.8	3918.6
37.5°	5977.8	5939.0	5671.0	5086.5	4513.5	4180.0	4180.0	4186.7	4219.8	4077.7	4007.6
40°	6650.4	6611.5	6369.0	5719.3	4992.7	4527.7	4505.9	4359.1	4332.5	4210.4	4186.7
42.5°	7275.5	7264.2	7121.1	6434.4	5555.4	4869.6	4839.3	4590.2	4595.9	4520.1	4521.0
45°	7940.5	7940.5	7824.0	7156.2	6210.9	5419.0	5388.7	5022.1	5078.9	5043.9	5128.2
47.5°	8483.2	8500.3	8484.2	7908.3	6973.4	6117.1	6062.1	5620.7	5779.9	5900.2	6145.5
50°	9037.3	9063.9	9066.7	8733.3	7895.0	6946.8	6884.3	6415.5	6770.7	7115.4	7597.6
52.5°	9841.5	9901.2	9663.4	9556.4	9024.1	7931.9	7870.4	7437.5	8030.5	8514.5	9345.2
55°	10587.0	10534.9	10365.3	10431.6	10232.7	9053.4	9007.0	8627.2	9434.2	10063.2	11142.0
57.5°	10990.5	10986.7	11157.2	11441.4	11536.1	10436.4	10397.5	10028.1	11017.0	11489.7	12829.0
60°	11464.1	11470.7	11893.2	12538.2	12928.5	12158.4	12141.3	11861.0	12554.3	12821.4	14152.3
62.5°	11530.4	11649.7	12377.2	13487.3	14231.8	14170.3	14208.2	13512.0	13929.7	13884.2	15140.2
65°	10767.9	10925.1	12241.8	13774.3	15527.6	16370.6	16405.7	15172.4	15014.2	14792.6	15493.5
67.5°	9205.0	9438.0	10868.3	13150.1	15954.8	17997.0	18046.3	16459.7	15914.1	15100.4	14642.9
70°	6698.7	6957.3	8397.0	11231.1	15193.3	18517.0	18572.9	17029.0	15948.2	14224.3	12500.3
72.5°	4046.5	4249.2	5436.0	8268.2	12823.3	17569.8	17669.3	16307.2	14560.5	12048.5	9230.6
75°	1777.0	1909.6	2628.5	4764.5	9180.4	14536.8	14660.9	13958.1	11830.7	8756.0	5455.9
77.5°	756.8	794.7	1077.9	2069.7	5189.8	9933.4	10103.9	10198.6	8026.7	4764.5	2305.5
80°	471.7	486.9	610.0	936.8	2428.6	5579.1	5762.8	6000.6	3985.9	1751.4	805.1
82.5°	287.0	304.1	405.4	566.4	1264.5	2529.1	2617.1	2784.8	1546.8	756.8	416.8
85°	172.4	184.7	248.2	358.0	719.9	994.6	993.6	1098.8	728.4	486.9	219.8
87.5°	82.4	91.9	132.6	185.7	362.8	373.2	349.5	395.9	442.3	319.2	110.8
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°	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8
2.5°	2818.0	2814.2	2801.8	2792.4	2790.5	2784.8	2780.1	2782.9	2786.7	2787.6	2787.6
5°	2817.0	2806.6	2790.5	2783.9	2792.4	2803.7	2818.0	2836.9	2848.3	2856.8	2862.5
7.5°	2862.5	2842.6	2824.6	2820.8	2837.8	2868.2	2900.4	2940.1	2967.6	2986.6	2990.3
10°	2938.2	2913.6	2895.6	2899.4	2929.7	2973.3	3018.8	3069.9	3111.6	3137.2	3139.1
12.5°	3025.4	3001.7	2984.7	3000.8	3051.0	3104.0	3151.4	3195.9	3233.8	3259.4	3259.4
15°	3125.8	3108.7	3088.9	3125.8	3194.0	3241.4	3261.2	3283.0	3303.9	3322.8	3319.0
17.5°	3222.4	3206.3	3195.9	3239.5	3310.5	3332.3	3319.0	3302.9	3302.9	3313.3	3315.2
20°	3305.8	3291.6	3298.2	3340.8	3377.8	3355.0	3305.8	3254.6	3233.8	3239.5	3245.1
22.5°	3378.7	3372.1	3392.0	3411.9	3385.3	3305.8	3214.8	3145.7	3120.1	3118.2	3120.1
25°	3463.9	3463.0	3487.6	3451.6	3334.2	3187.4	3065.2	2997.9	2983.7	2995.1	3014.0
27.5°	3570.0	3580.5	3592.8	3461.1	3230.0	3008.3	2884.3	2837.8	2852.1	2879.5	2897.5
30°	3705.5	3733.9	3707.4	3437.4	3080.3	2803.7	2685.3	2672.1	2710.9	2749.8	2768.7
32.5°	3837.2	3881.7	3817.3	3375.9	2887.1	2586.8	2495.0	2491.2	2538.5	2576.4	2602.9
35°	3943.2	4031.3	3899.7	3253.7	2663.6	2387.0	2319.7	2294.1	2311.2	2355.7	2386.0
37.5°	4081.5	4228.3	3956.5	3067.1	2421.1	2222.2	2143.5	2084.8	2069.7	2087.7	2102.8
40°	4334.4	4528.6	3983.0	2806.6	2184.3	2057.3	1977.8	1891.6	1831.9	1788.3	1789.3
42.5°	4747.4	4919.8	3966.0	2490.2	1965.5	1896.3	1806.3	1706.9	1610.3	1511.7	1504.2
45°	5418.0	5501.4	3914.8	2154.9	1773.2	1727.7	1643.4	1544.0	1415.1	1303.4	1292.9
47.5°	6491.2	6306.5	3835.3	1862.2	1603.6	1584.7	1507.0	1392.4	1256.0	1166.0	1158.4
50°	7954.7	7468.8	3796.4	1629.2	1454.0	1459.7	1396.2	1274.9	1146.1	1079.8	1072.2
52.5°	9705.1	8822.3	3871.3	1449.2	1333.7	1353.6	1306.2	1192.5	1084.6	1032.5	1024.9
55°	11520.9	10224.2	3951.8	1318.5	1220.0	1258.8	1242.7	1149.0	1051.4	1003.1	996.5
57.5°	13075.3	11270.9	3790.7	1212.4	1118.7	1179.3	1193.5	1121.5	1034.4	990.8	983.2
60°	14053.8	11692.4	3368.3	1113.0	1038.1	1115.8	1165.1	1113.9	1041.0	1037.2	1031.5
62.5°	14517.9	11655.4	2734.6	1034.4	987.9	1088.3	1185.9	1156.5	1116.8	1150.9	1153.7
65°	14309.5	11098.5	2036.5	982.3	951.9	1098.8	1248.4	1237.1	1138.5	1172.6	1177.4
67.5°	12938.0	9769.5	1508.0	936.8	912.2	1128.1	1362.1	1263.6	1095.9	1120.6	1105.4
70°	10457.2	7745.3	1163.2	885.6	871.4	1124.3	1413.2	1247.5	1049.5	1055.2	1014.5
72.5°	7211.1	5281.6	946.3	838.3	812.7	1024.9	1377.2	1207.7	1010.7	967.1	913.1
75°	3921.5	2835.0	804.2	789.0	709.5	899.9	1310.9	1179.3	975.6	917.8	887.5
77.5°	1543.0	1176.4	698.1	721.8	620.4	794.7	1237.1	1125.3	927.3	851.5	836.4
80°	629.9	600.5	578.7	624.2	533.3	695.3	1148.0	1061.8	869.5	790.0	759.7
82.5°	357.1	373.2	449.9	492.5	432.9	640.3	1105.4	1010.7	800.4	707.6	671.6
85°	182.8	218.8	313.5	353.3	318.3	544.6	1018.3	884.7	642.2	541.8	544.6
87.5°	88.1	122.2	198.0	221.6	206.5	394.0	760.6	641.3	500.1	395.9	383.6
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)