

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: P319152

Luminaire Tested: **GAN-SA8A-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319152
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-SA8A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 27264 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

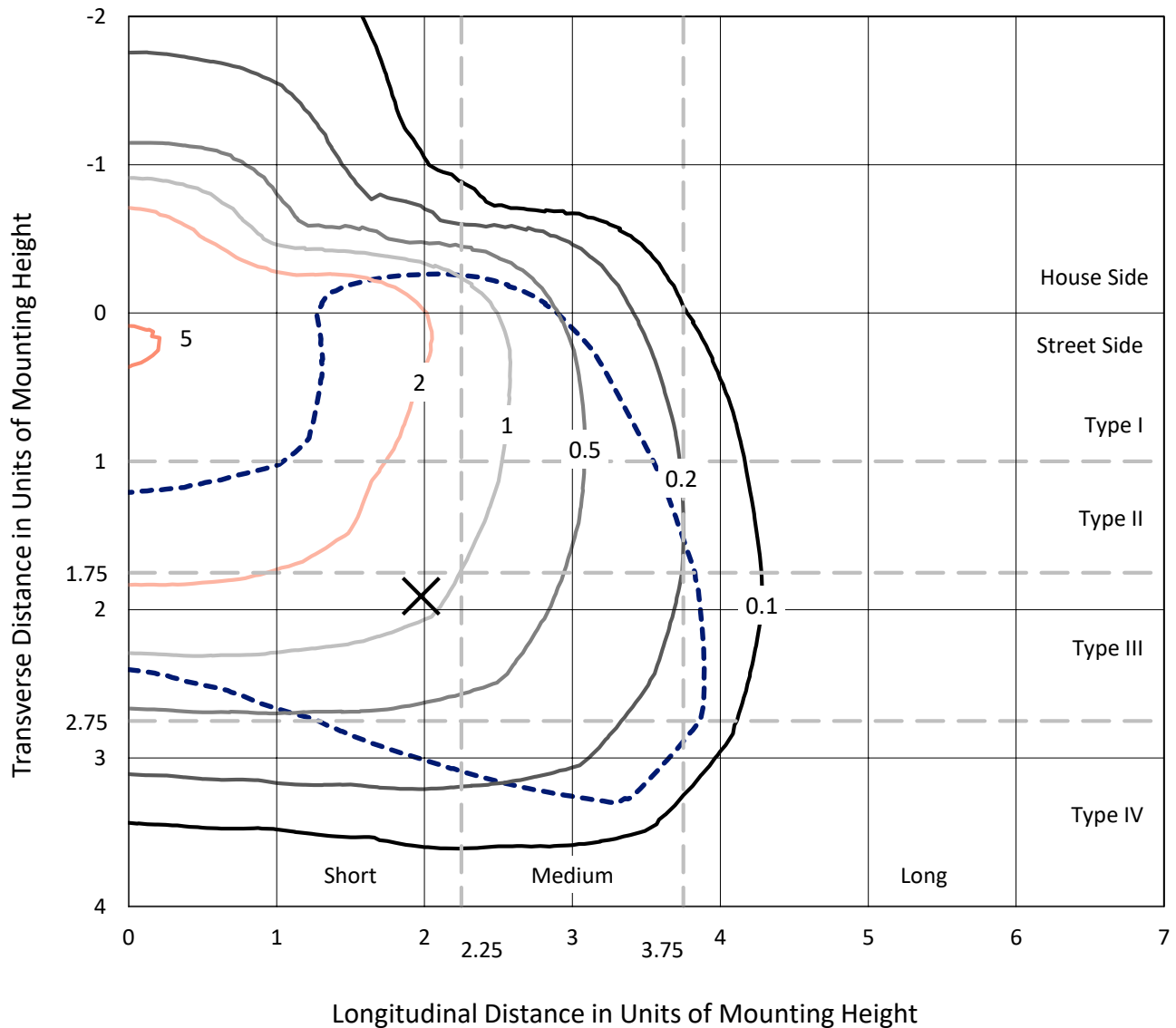
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

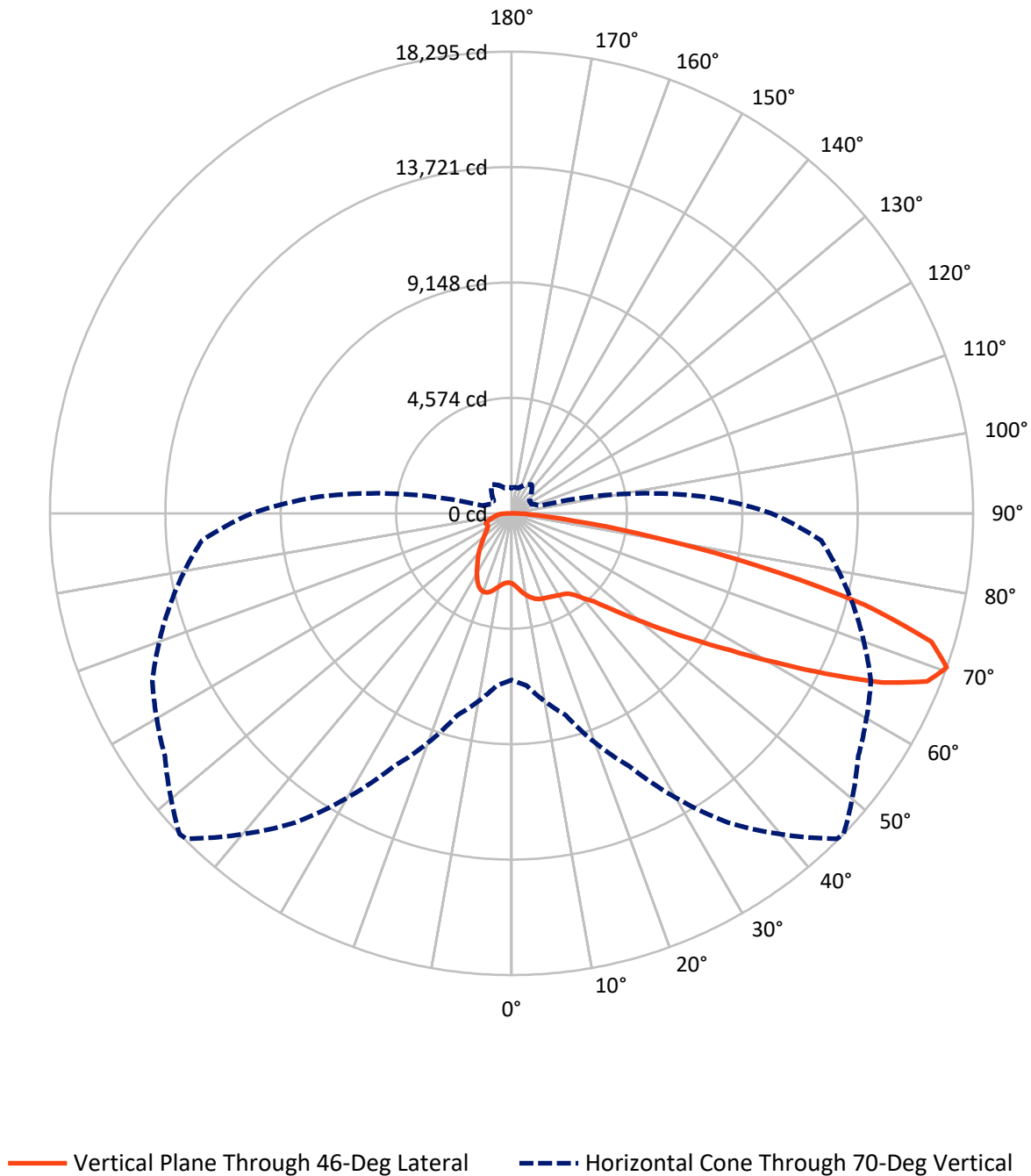
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6248.8	0.0	6248.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21015.2	0.0	21015.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	27264.0	0.0	27264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	1.0
10°-20°	943.4	3.5
20°-30°	1573.0	5.8
30°-40°	2232.2	8.2
40°-50°	3283.5	12.0
50°-60°	5560.6	20.4
60°-70°	7893.1	29.0
70°-80°	4795.1	17.6
80°-90°	699.8	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°	27264.0	100.0
0°-180°	27264.0	100.0

Coefficient of Utilization



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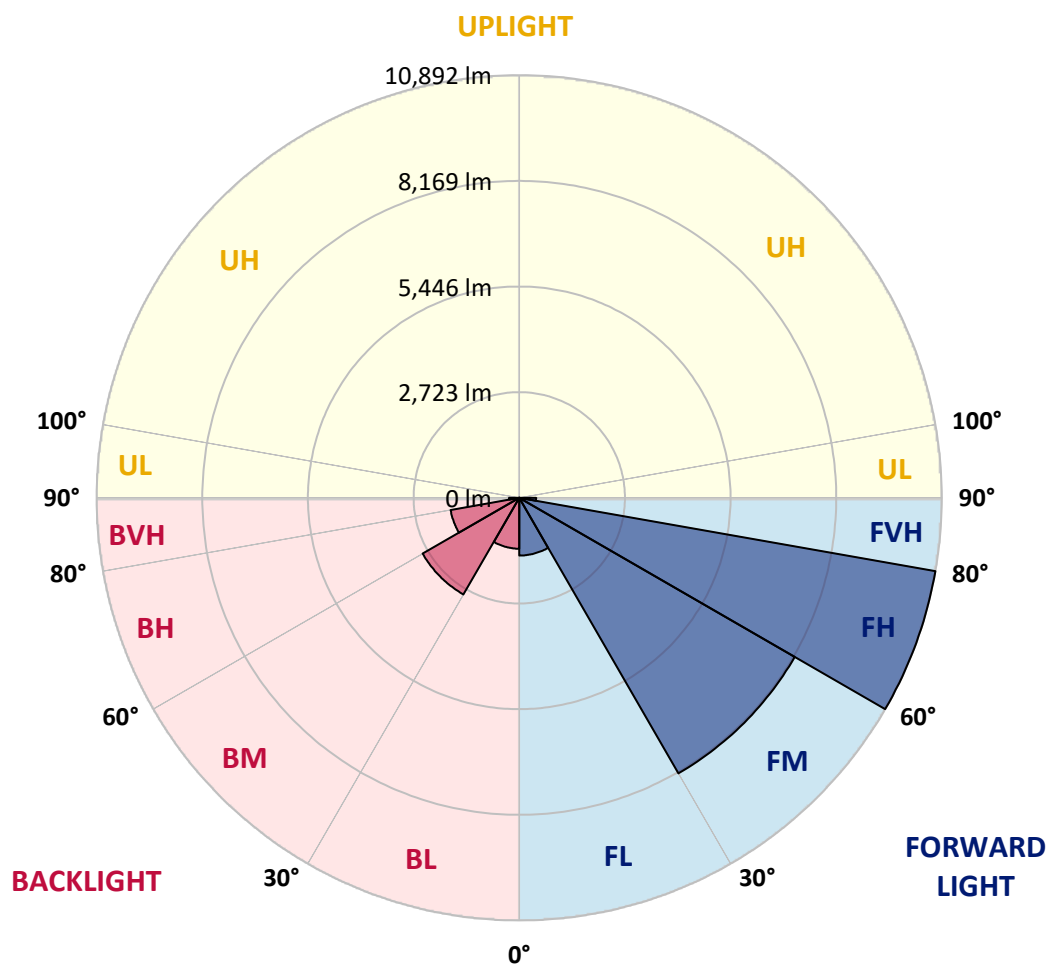
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1487.6	5.5			
FM	(30°-60°)	8199.8	30.1			
FH	(60°-80°)	10891.8	39.9			G4/12000
FVH	(80°-90°)	435.9	1.6			G3/500
BL	(0°-30°)	1312.0	4.8	B3/2500		
BM	(30°-60°)	2876.5	10.6	B3/5000		
BH	(60°-80°)	1796.5	6.6	B3/2500		G3/2500
BVH	(80°-90°)	263.9	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°	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7
2.5°	2916.7	2918.6	2922.3	2913.0	2886.8	2879.4	2876.6	2849.5	2831.8	2805.7	2783.3
5°	3150.0	3151.8	3146.2	3120.1	3062.2	3019.3	3015.6	2954.0	2898.0	2838.3	2793.5
7.5°	3393.5	3396.3	3378.5	3329.1	3247.9	3173.3	3168.6	3084.6	2999.7	2909.2	2842.0
10°	3609.0	3597.8	3568.9	3499.8	3403.7	3312.3	3308.6	3220.9	3122.9	3013.7	2924.2
12.5°	3752.7	3743.4	3706.0	3622.1	3516.6	3432.7	3425.2	3344.0	3248.9	3129.4	3022.1
15°	3832.0	3838.5	3788.2	3693.0	3590.3	3519.4	3512.9	3455.1	3370.2	3249.8	3126.6
17.5°	3842.3	3847.9	3799.3	3705.1	3621.1	3572.6	3569.8	3531.6	3470.0	3354.3	3225.5
20°	3782.6	3786.3	3746.2	3668.7	3613.7	3598.7	3597.8	3581.0	3535.3	3432.7	3307.6
22.5°	3695.8	3698.6	3669.7	3613.7	3595.0	3618.3	3624.9	3618.3	3585.7	3489.6	3372.0
25°	3674.3	3672.5	3642.6	3585.7	3601.5	3651.0	3659.4	3662.2	3639.8	3555.8	3454.1
27.5°	3777.9	3771.4	3714.4	3623.0	3633.3	3693.0	3704.2	3731.2	3717.2	3643.5	3547.4
30°	4077.4	4066.2	3949.6	3764.8	3714.4	3745.2	3759.2	3802.1	3804.9	3743.4	3671.5
32.5°	4583.1	4569.1	4360.1	4029.8	3851.6	3798.4	3811.5	3875.9	3910.4	3862.8	3785.4
35°	5222.2	5206.4	4932.1	4480.5	4081.1	3900.1	3909.4	3960.8	4029.8	3962.6	3860.0
37.5°	5888.4	5850.2	5586.1	5010.4	4445.9	4117.5	4117.5	4124.0	4156.7	4016.7	3947.7
40°	6550.9	6512.6	6273.8	5633.7	4918.1	4459.9	4438.5	4293.9	4267.7	4147.4	4124.0
42.5°	7166.7	7155.5	7014.6	6338.2	5472.3	4796.8	4766.9	4521.5	4527.1	4452.5	4453.4
45°	7821.7	7821.7	7706.9	7049.1	6118.0	5337.9	5308.1	4947.0	5003.0	4968.5	5051.5
47.5°	8356.3	8373.1	8357.3	7790.0	6869.1	6025.6	5971.5	5536.7	5693.4	5811.9	6053.6
50°	8902.2	8928.3	8931.1	8602.7	7776.9	6842.9	6781.4	6319.5	6669.4	7009.0	7483.9
52.5°	9694.3	9753.1	9518.9	9413.5	8889.1	7813.3	7752.7	7326.3	7910.3	8387.1	9205.4
55°	10428.6	10377.3	10210.3	10275.6	10079.7	8918.0	8872.3	8498.2	9293.1	9912.6	10975.4
57.5°	10826.1	10822.4	10990.3	11270.2	11363.5	10280.3	10242.0	9878.1	10852.2	11317.8	12637.1
60°	11292.6	11299.1	11715.3	12350.7	12735.1	11976.5	11959.7	11683.6	12366.5	12629.7	13940.6
62.5°	11357.9	11475.5	12192.1	13285.6	14019.0	13958.3	13995.6	13309.9	13721.3	13676.5	14913.8
65°	10606.8	10761.7	12058.6	13568.3	15295.4	16125.8	16160.3	14945.5	14789.7	14571.3	15261.8
67.5°	9067.3	9296.8	10705.7	12953.4	15716.2	17727.8	17776.3	16213.5	15676.0	14874.6	14423.9
70°	6598.5	6853.2	8271.4	11063.1	14966.0	18240.1	18295.1	16774.2	15709.6	14011.5	12313.4
72.5°	3986.0	4185.6	5354.7	8144.5	12631.5	17307.0	17405.0	16063.3	14342.7	11868.3	9092.5
75°	1750.4	1881.0	2589.2	4693.2	9043.0	14319.4	14441.6	13749.3	11653.7	8625.0	5374.3
77.5°	745.5	782.8	1061.8	2038.7	5112.1	9784.8	9952.8	10046.1	7906.6	4693.2	2271.0
80°	464.7	479.6	600.9	922.8	2392.3	5495.6	5676.6	5910.8	3926.2	1725.2	793.1
82.5°	282.7	299.5	399.3	558.0	1245.6	2491.2	2578.0	2743.1	1523.7	745.5	410.5
85°	169.8	181.9	244.5	352.7	709.1	979.7	978.8	1082.3	717.5	479.6	216.5
87.5°	81.2	90.5	130.6	182.9	357.4	367.6	344.3	390.0	435.7	314.4	109.2
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°	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7
2.5°	2775.8	2772.1	2759.9	2750.6	2748.7	2743.1	2738.5	2741.3	2745.0	2745.9	2745.9
5°	2774.9	2764.6	2748.7	2742.2	2750.6	2761.8	2775.8	2794.5	2805.7	2814.1	2819.7
7.5°	2819.7	2800.1	2782.3	2778.6	2795.4	2825.3	2857.0	2896.2	2923.2	2941.9	2945.6
10°	2894.3	2870.0	2852.3	2856.0	2885.9	2928.8	2973.6	3024.0	3065.0	3090.2	3092.1
12.5°	2980.1	2956.8	2940.0	2955.9	3005.3	3057.6	3104.2	3148.1	3185.4	3210.6	3210.6
15°	3079.0	3062.2	3042.7	3079.0	3146.2	3192.9	3212.5	3233.9	3254.5	3273.1	3269.4
17.5°	3174.2	3158.3	3148.1	3191.0	3261.0	3282.4	3269.4	3253.5	3253.5	3263.8	3265.6
20°	3256.3	3242.3	3248.9	3290.8	3327.2	3304.8	3256.3	3205.9	3185.4	3191.0	3196.6
22.5°	3328.2	3321.6	3341.2	3360.8	3334.7	3256.3	3166.7	3098.6	3073.4	3071.6	3073.4
25°	3412.1	3411.2	3435.5	3400.0	3284.3	3139.7	3019.3	2953.1	2939.1	2950.3	2968.9
27.5°	3516.6	3526.9	3539.0	3409.3	3181.7	2963.3	2841.1	2795.4	2809.4	2836.4	2854.2
30°	3650.1	3678.1	3651.9	3386.0	3034.3	2761.8	2645.2	2632.1	2670.4	2708.6	2727.3
32.5°	3779.8	3823.6	3760.2	3325.4	2843.9	2548.1	2457.6	2453.9	2500.6	2537.9	2564.0
35°	3884.3	3971.0	3841.3	3205.0	2623.7	2351.3	2285.0	2259.8	2276.6	2320.5	2350.3
37.5°	4020.5	4165.1	3897.3	3021.2	2384.9	2188.9	2111.5	2053.6	2038.7	2056.4	2071.4
40°	4269.6	4460.9	3923.4	2764.6	2151.6	2026.6	1948.2	1863.3	1804.5	1761.6	1762.5
42.5°	4676.4	4846.2	3906.6	2453.0	1936.1	1868.0	1779.3	1681.3	1586.2	1489.1	1481.7
45°	5337.0	5419.1	3856.3	2122.7	1746.7	1701.9	1618.8	1520.9	1394.0	1283.9	1273.6
47.5°	6394.1	6212.2	3777.9	1834.4	1579.6	1561.0	1484.5	1371.6	1237.2	1148.6	1141.1
50°	7835.7	7357.0	3739.6	1604.8	1432.2	1437.8	1375.3	1255.9	1129.0	1063.7	1056.2
52.5°	9560.0	8690.4	3813.3	1427.6	1313.7	1333.3	1286.7	1174.7	1068.3	1017.0	1009.6
55°	11348.6	10071.3	3892.7	1298.8	1201.8	1240.0	1224.2	1131.8	1035.7	988.1	981.6
57.5°	12879.7	11102.3	3734.0	1194.3	1101.9	1161.6	1175.6	1104.7	1018.9	976.0	968.5
60°	13843.6	11517.5	3317.9	1096.3	1022.6	1099.1	1147.6	1097.3	1025.4	1021.7	1016.1
62.5°	14300.7	11481.1	2693.7	1018.9	973.2	1072.1	1168.2	1139.2	1100.1	1133.6	1136.4
65°	14095.5	10932.5	2006.0	967.6	937.7	1082.3	1229.8	1218.6	1121.5	1155.1	1159.8
67.5°	12744.4	9623.4	1485.4	922.8	898.5	1111.3	1341.7	1244.7	1079.5	1103.8	1088.9
70°	10300.8	7629.5	1145.8	872.4	858.4	1107.5	1392.1	1228.8	1033.8	1039.4	999.3
72.5°	7103.3	5202.6	932.1	825.7	800.6	1009.6	1356.6	1189.6	995.6	952.6	899.5
75°	3862.8	2792.6	792.2	777.2	698.8	886.4	1291.3	1161.6	961.0	904.1	874.3
77.5°	1519.9	1158.8	687.7	711.0	611.1	782.8	1218.6	1108.5	913.4	838.8	823.9
80°	620.5	591.5	570.1	614.9	525.3	684.9	1130.8	1045.9	856.5	778.2	748.3
82.5°	351.8	367.6	443.2	485.2	426.4	630.7	1088.9	995.6	788.4	697.0	661.5
85°	180.1	215.5	308.8	348.0	313.5	536.5	1003.0	871.5	632.6	533.7	536.5
87.5°	86.8	120.4	195.0	218.3	203.4	388.1	749.2	631.7	492.6	390.0	377.9
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)