

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: P400185

Luminaire Tested: **ARCH-L-PA3-240-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25987 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

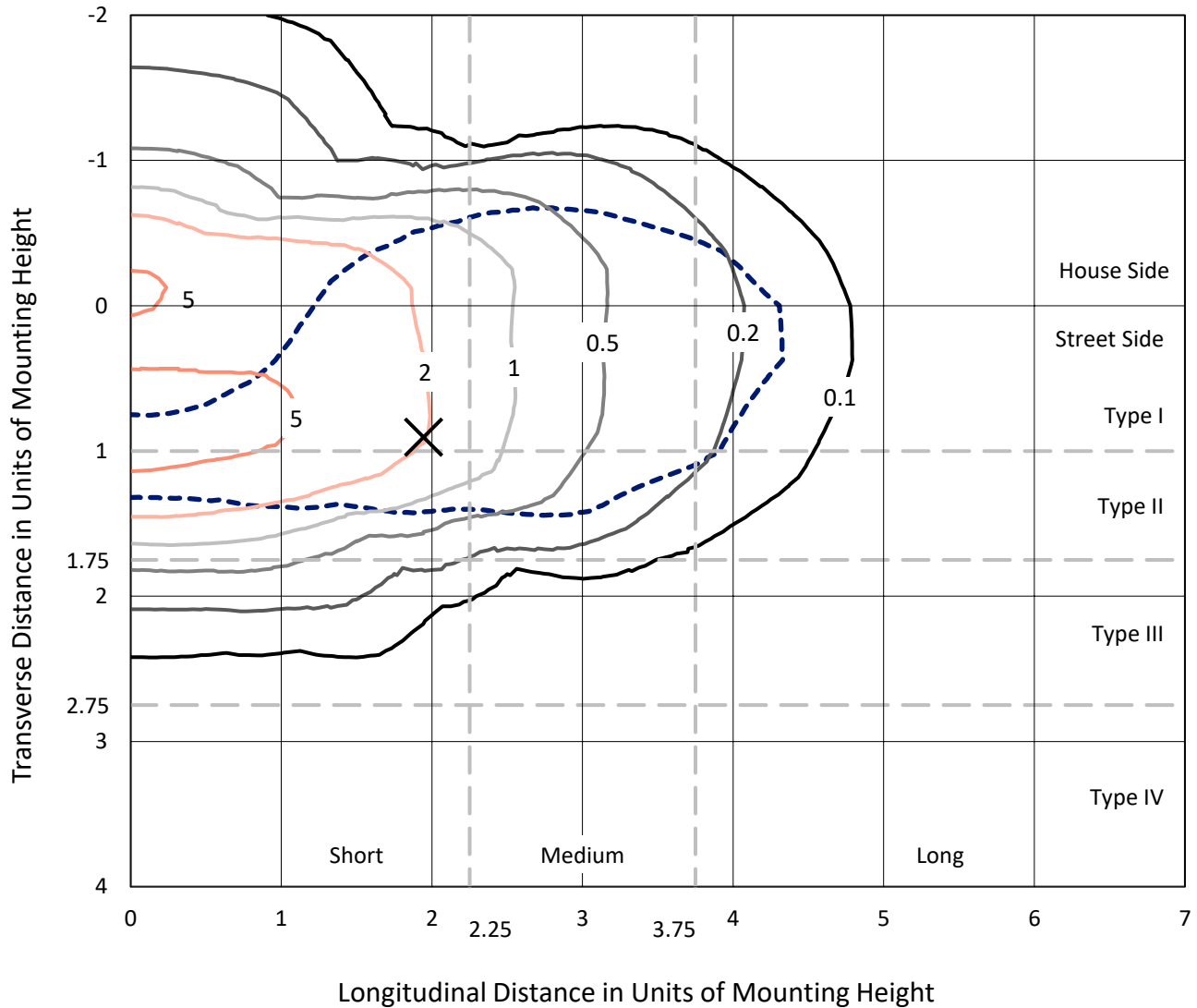
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

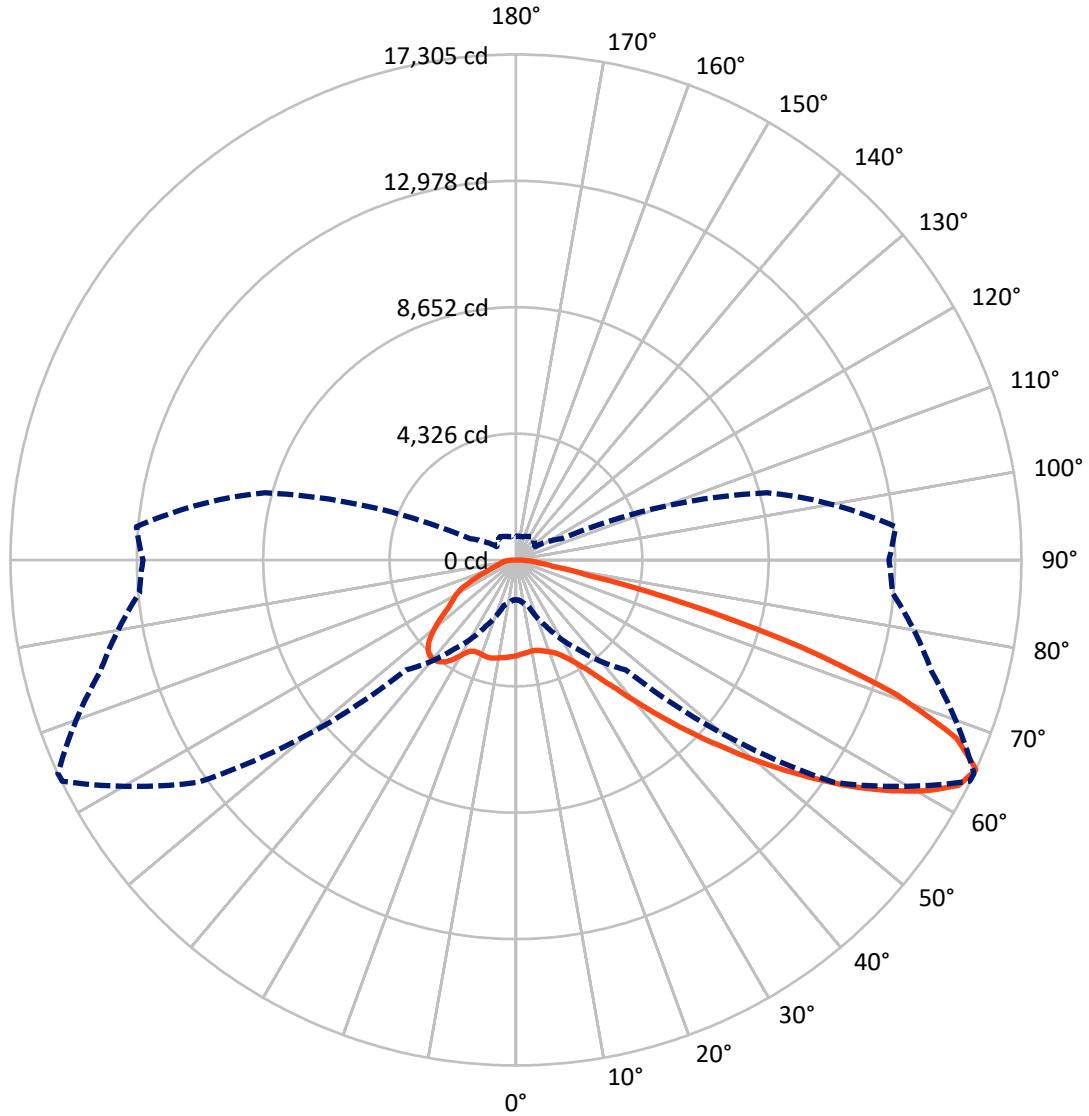
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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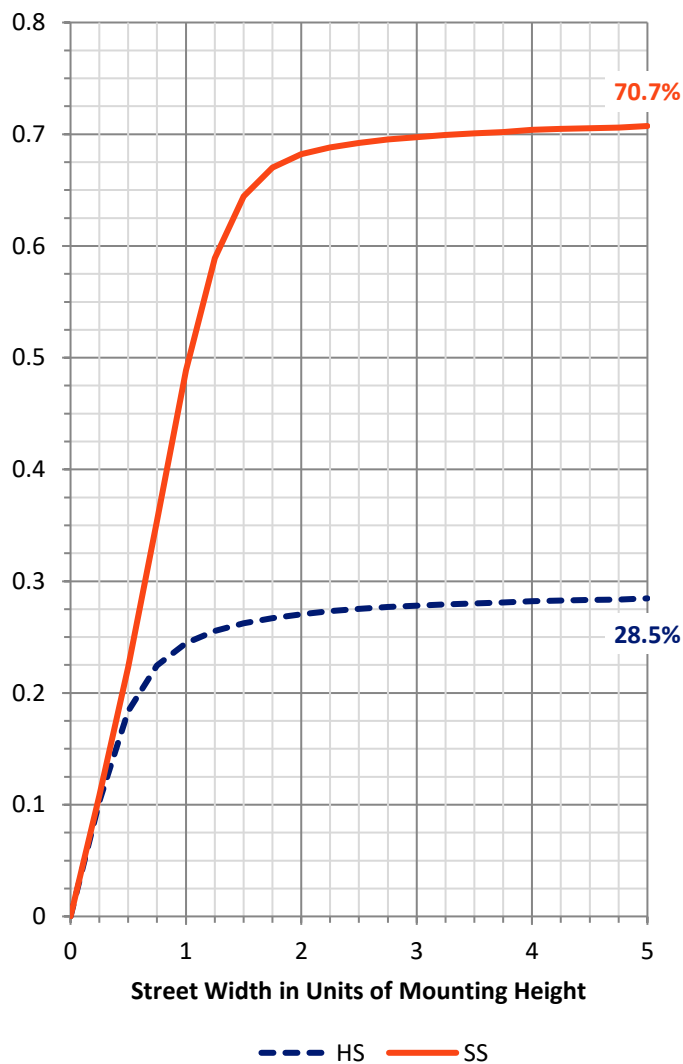
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7513.2	0.0	7513.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18473.8	0.0	18473.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	25987.0	0.0	25987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.2
10°-20°	934.0	3.6
20°-30°	1659.1	6.4
30°-40°	2806.8	10.8
40°-50°	4886.1	18.8
50°-60°	6314.3	24.3
60°-70°	5525.4	21.3
70°-80°	3005.4	11.6
80°-90°	543.0	2.1
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°	25987.0	100.0
0°-180°	25987.0	100.0

Coefficient of Utilization

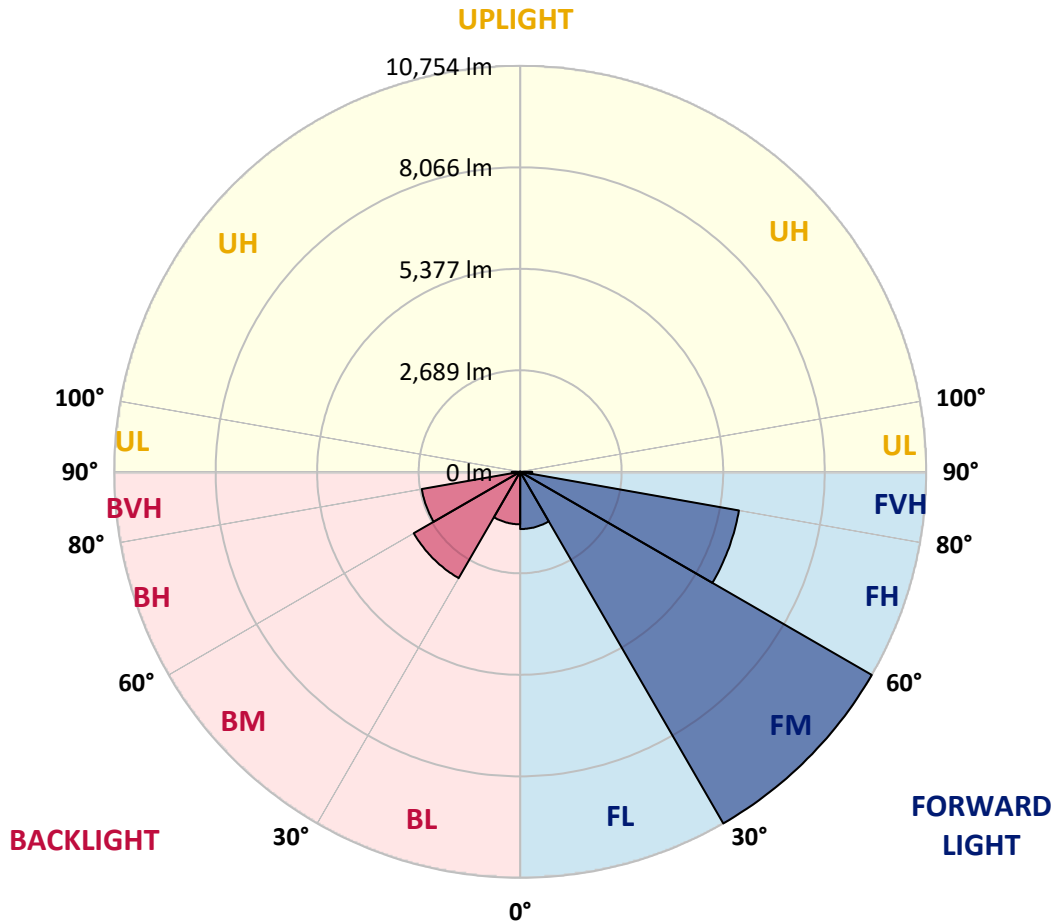


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.3	5.8			
FM (30°-60°)	10754.1	41.4			
FH (60°-80°)	5883.8	22.6			G3/7500
FVH (80°-90°)	319.5	1.2			G3/500
BL (0°-30°)	1389.7	5.3	B3/2500		
BM (30°-60°)	3253.1	12.5	B3/5000		
BH (60°-80°)	2647.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	223.5	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7
2.5°	3225.6	3222.1	3215.3	3222.1	3225.6	3232.4	3229.0	3235.8	3232.4	3242.7	3259.8
5°	3143.5	3136.6	3133.2	3150.3	3160.6	3177.7	3184.5	3208.5	3205.0	3222.1	3249.5
7.5°	3051.1	3051.1	3047.7	3068.2	3081.9	3112.7	3136.6	3177.7	3181.1	3211.9	3242.7
10°	2979.3	2982.7	2979.3	2996.4	3016.9	3054.5	3095.6	3153.7	3157.1	3201.6	3232.4
12.5°	2951.9	2951.9	2951.9	2975.9	3003.2	3054.5	3102.4	3164.0	3170.8	3218.7	3246.1
15°	2989.5	2993.0	2986.1	3010.1	3040.9	3102.4	3146.9	3211.9	3218.7	3263.2	3280.3
17.5°	3122.9	3136.6	3119.5	3133.2	3126.4	3174.3	3215.3	3280.3	3283.7	3321.3	3328.2
20°	3386.3	3400.0	3372.6	3355.5	3294.0	3290.5	3307.7	3359.0	3359.0	3382.9	3365.8
22.5°	3793.4	3807.0	3759.2	3694.2	3547.1	3475.3	3437.6	3461.6	3458.2	3468.4	3423.9
25°	4333.8	4330.4	4272.2	4152.5	3916.5	3742.1	3649.7	3612.1	3612.1	3591.6	3536.8
27.5°	5004.2	4952.9	4850.3	4706.6	4378.3	4135.4	3937.0	3841.3	3824.2	3762.6	3660.0
30°	5719.1	5681.5	5534.4	5325.8	4946.1	4634.8	4306.4	4114.9	4104.6	3971.2	3817.3
32.5°	6560.6	6499.0	6334.8	6085.1	5630.2	5192.4	4781.9	4491.2	4474.1	4262.0	4049.9
35°	7641.5	7590.2	7272.0	7022.3	6437.4	5862.8	5377.1	4990.6	4976.9	4716.9	4446.7
37.5°	8937.8	8804.4	8496.6	8028.0	7412.3	6731.6	6115.9	5630.2	5613.1	5325.8	4983.7
40°	10094.0	9974.3	9700.6	9269.6	8609.5	7853.5	7018.9	6430.6	6413.5	6064.6	5633.6
42.5°	10949.1	10867.0	10689.2	10439.5	9967.4	9509.1	8171.6	7398.6	7367.8	6916.3	6379.3
45°	11445.1	11380.1	11277.5	11339.1	11332.2	11246.7	9546.7	8551.3	8452.1	7867.2	7210.5
47.5°	11325.4	11267.2	11308.3	11787.1	12447.3	12943.3	11147.5	9731.4	9598.0	8835.2	8096.4
50°	10460.0	10483.9	10699.4	11616.1	13097.2	14198.6	12922.8	11075.7	10897.8	9810.1	8937.8
52.5°	8883.1	8941.3	9464.6	10747.3	13025.4	15012.7	14527.0	12464.4	12228.4	10761.0	9704.0
55°	7056.6	7203.6	7880.9	9228.6	12088.1	15070.9	15737.9	13860.0	13600.0	11653.7	10371.0
57.5°	5219.7	5438.6	6221.9	7460.2	10292.4	14150.7	16343.3	15194.0	14879.3	12539.7	11075.7
60°	3311.1	3444.5	4347.5	5808.1	7877.5	11900.0	16264.6	16329.6	16056.0	13422.2	11811.1
62.5°	2113.9	2178.9	2633.8	4142.3	5507.1	8811.3	15406.1	17188.2	17003.4	14226.0	12508.9
65°	1357.9	1385.3	1617.9	2548.3	3748.9	5318.9	13268.2	17280.5	17304.5	14728.8	12939.9
67.5°	1104.8	1118.5	1204.0	1573.4	2650.9	2938.2	9242.3	15967.0	16257.8	14598.8	12792.8
70°	1005.6	1022.7	1111.7	1255.3	2052.3	2028.4	4474.1	13360.6	13836.0	13849.7	12139.5
72.5°	848.3	872.2	992.0	1186.9	1587.1	1600.8	1895.0	9515.9	10217.1	12378.9	11157.8
75°	708.0	721.7	824.3	1046.7	1344.3	1279.3	1330.6	5045.3	6057.8	9926.4	10114.5
77.5°	574.6	588.3	663.6	834.6	1193.8	995.4	1046.7	2089.9	2582.5	6738.4	8267.4
80°	410.5	424.1	509.7	649.9	903.0	896.2	776.5	1152.7	1251.9	3642.9	5370.2
82.5°	294.2	304.4	386.5	465.2	626.0	899.6	584.9	783.3	820.9	1614.5	2165.2
85°	198.4	198.4	266.8	307.8	403.6	567.8	472.0	530.2	554.1	766.2	584.9
87.5°	85.5	85.5	143.7	157.3	212.1	263.4	352.3	266.8	273.6	413.9	239.4
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°	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7
2.5°	3270.0	3273.4	3280.3	3300.8	3314.5	3335.0	3345.3	3359.0	3359.0	3352.1	3355.5
5°	3263.2	3273.4	3297.4	3335.0	3359.0	3396.6	3423.9	3444.5	3451.3	3444.5	3447.9
7.5°	3259.8	3276.9	3317.9	3372.6	3406.8	3454.7	3492.4	3516.3	3533.4	3526.6	3530.0
10°	3249.5	3276.9	3328.2	3396.6	3447.9	3495.8	3530.0	3540.2	3550.5	3543.7	3540.2
12.5°	3263.2	3294.0	3348.7	3430.8	3488.9	3526.6	3536.8	3519.7	3495.8	3482.1	3478.7
15°	3290.5	3321.3	3376.1	3461.6	3512.9	3526.6	3502.6	3447.9	3393.2	3362.4	3359.0
17.5°	3328.2	3348.7	3393.2	3468.4	3509.5	3492.4	3444.5	3379.5	3338.4	3314.5	3317.9
20°	3352.1	3352.1	3386.3	3444.5	3478.7	3465.0	3406.8	3335.0	3270.0	3239.2	3229.0
22.5°	3386.3	3369.2	3372.6	3423.9	3471.8	3451.3	3328.2	3201.6	3109.3	3075.1	3071.6
25°	3478.7	3430.8	3400.0	3430.8	3543.7	3376.1	3129.8	2982.7	2897.2	2866.4	2869.8
27.5°	3591.6	3526.6	3461.6	3512.9	3601.8	3205.0	2876.7	2709.1	2657.8	2633.8	2644.1
30°	3704.4	3618.9	3533.4	3718.1	3560.8	2938.2	2551.7	2387.5	2343.1	2326.0	2339.6
32.5°	3913.1	3772.8	3670.2	3991.8	3434.2	2633.8	2199.4	2048.9	2007.9	1987.3	1980.5
35°	4262.0	4084.1	3981.5	4231.2	3256.3	2295.2	1877.9	1771.8	1727.4	1682.9	1676.1
37.5°	4764.8	4549.3	4456.9	4368.0	3006.6	1960.0	1631.6	1559.8	1494.8	1426.4	1422.9
40°	5366.8	5086.3	5017.9	4429.6	2661.2	1645.3	1460.6	1392.2	1310.1	1245.1	1248.5
42.5°	6061.2	5702.0	5554.9	4412.5	2233.6	1477.7	1337.4	1262.2	1190.3	1132.2	1128.8
45°	6803.4	6396.4	6057.8	4292.8	1809.5	1361.4	1262.2	1173.2	1101.4	1036.4	1029.6
47.5°	7624.4	7169.4	6522.9	4060.2	1494.8	1279.3	1217.7	1091.1	1026.2	985.1	985.1
50°	8452.1	7908.3	6950.5	3707.9	1310.1	1217.7	1152.7	1046.7	995.4	961.2	961.2
52.5°	9160.2	8677.9	7302.8	3287.1	1193.8	1166.4	1108.3	1026.2	971.4	940.6	937.2
55°	9847.7	9392.8	7617.5	2869.8	1098.0	1098.0	1098.0	1009.1	947.5	920.1	916.7
57.5°	10531.8	10145.3	7945.9	2596.2	1012.5	1039.8	1077.5	988.5	927.0	903.0	899.6
60°	11304.8	11048.3	8325.6	2404.6	937.2	978.3	1050.1	964.6	892.8	872.2	868.8
62.5°	12125.8	12125.8	8671.0	2134.4	868.8	927.0	1009.1	933.8	862.0	844.9	841.5
65°	12768.8	13045.9	8893.4	1730.8	800.4	875.7	961.2	892.8	820.9	817.5	810.7
67.5°	12844.1	13278.5	8753.1	1306.6	738.8	820.9	913.3	848.3	779.9	779.9	769.6
70°	12303.6	12744.9	8315.3	978.3	694.4	766.2	851.7	793.6	728.6	735.4	718.3
72.5°	11400.6	11510.1	7227.6	773.0	643.1	708.0	776.5	732.0	673.8	673.8	649.9
75°	10210.3	9601.4	5250.5	646.5	581.5	639.6	701.2	663.6	612.3	595.2	581.5
77.5°	8127.2	6957.4	3051.1	557.5	530.2	574.6	615.7	588.3	543.9	506.2	506.2
80°	4952.9	4077.3	1347.7	482.3	468.6	502.8	530.2	499.4	461.8	424.1	413.9
82.5°	1884.7	1573.4	653.3	413.9	410.5	431.0	451.5	420.7	393.4	376.3	325.0
85°	516.5	475.5	448.1	345.5	338.6	335.2	359.2	345.5	307.8	253.1	225.8
87.5°	195.0	222.3	242.9	212.1	225.8	208.7	239.4	218.9	195.0	126.6	112.9
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)