

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: P400214

Luminaire Tested: **ARCH-L-PA3-250-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30560 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

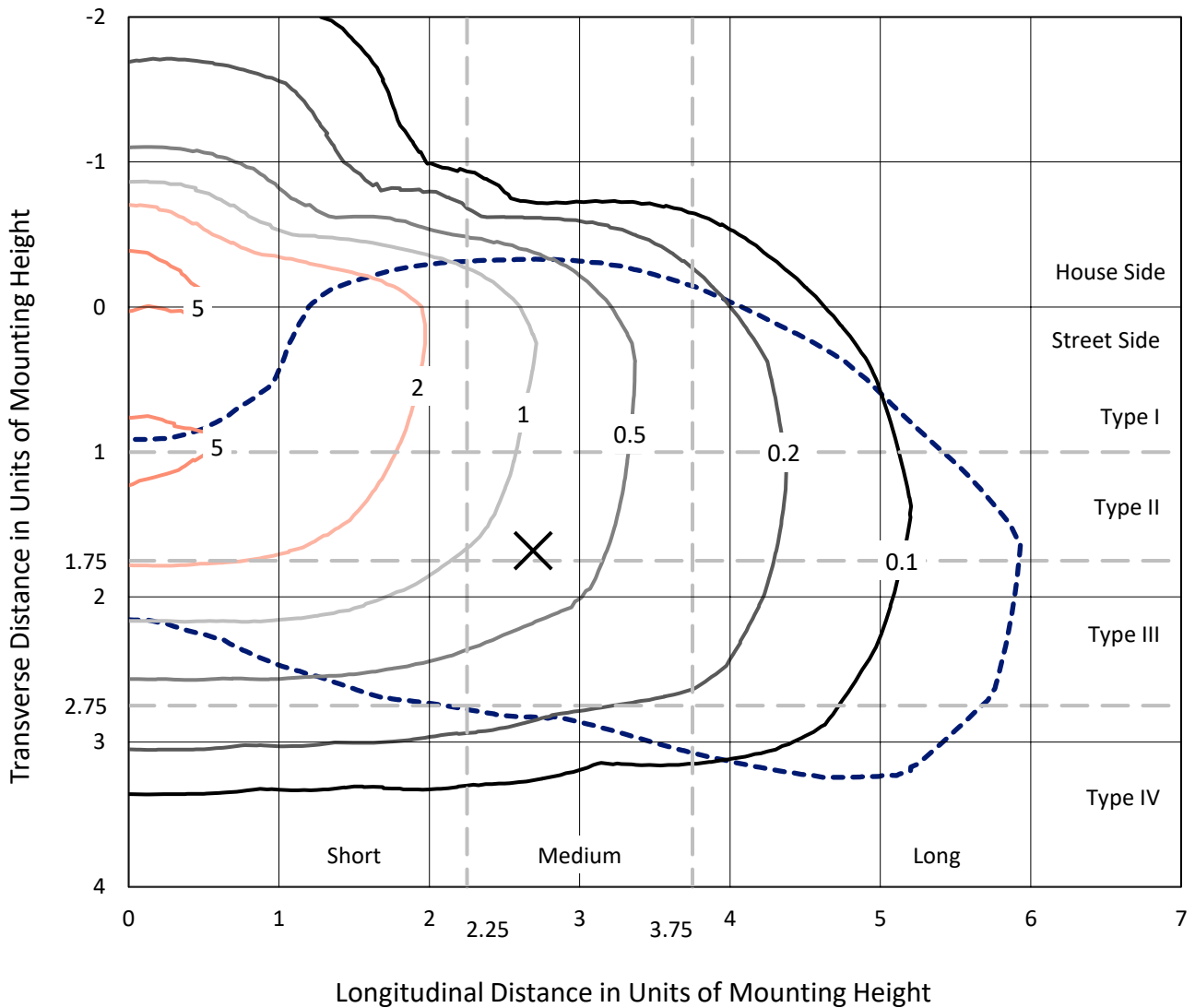
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

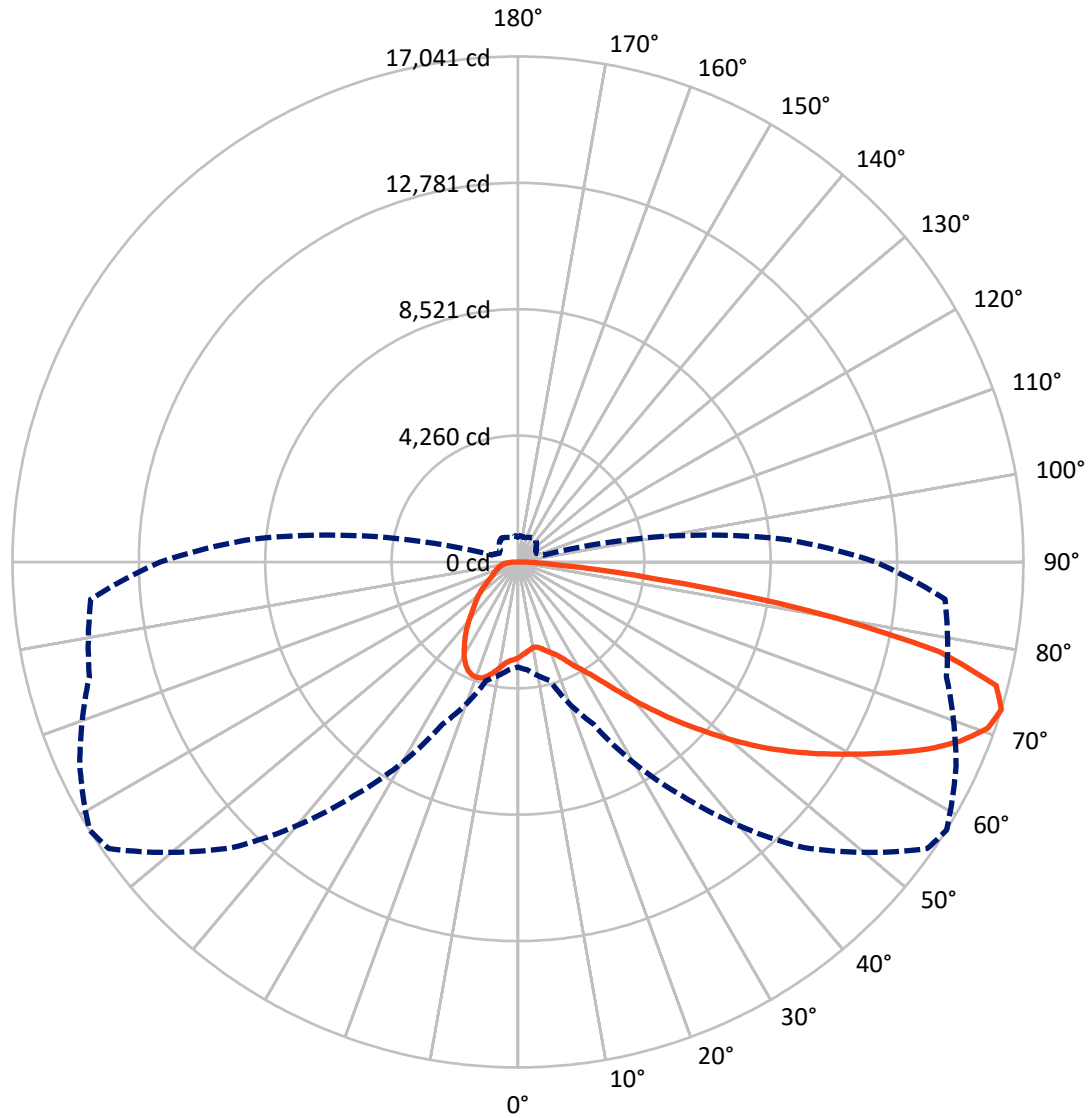
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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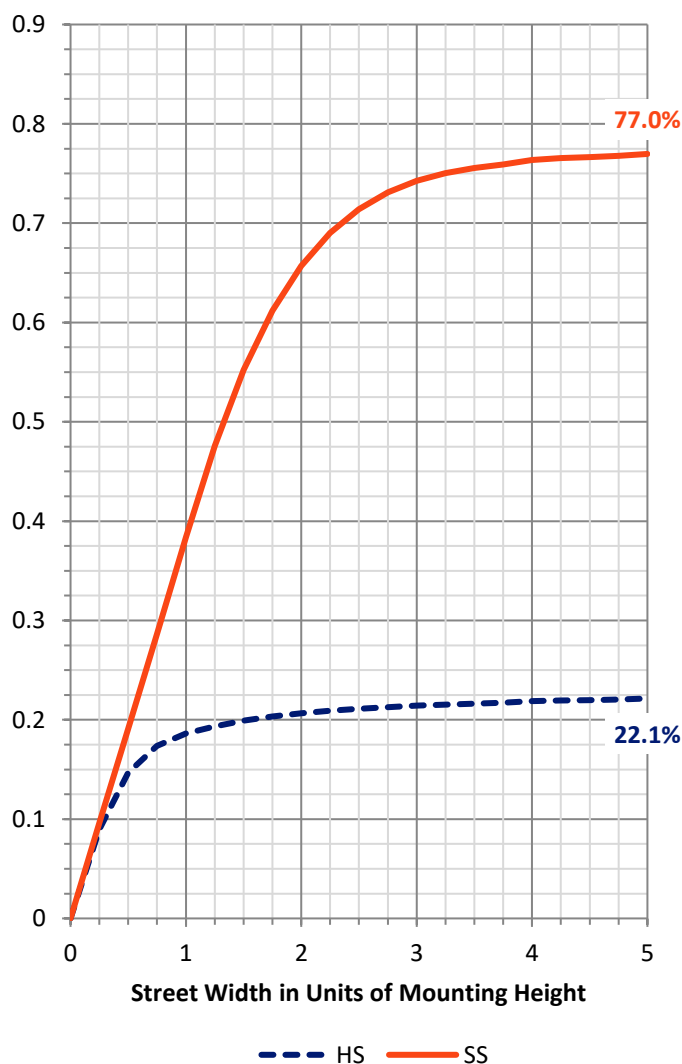
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6930.7	0.0	6930.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	23629.3	0.0	23629.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	30560.0	0.0	30560.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.5	1.0
10°-20°	986.1	3.2
20°-30°	1766.5	5.8
30°-40°	2657.3	8.7
40°-50°	4303.1	14.1
50°-60°	6477.5	21.2
60°-70°	7623.3	24.9
70°-80°	5405.6	17.7
80°-90°	1030.0	3.4
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°	30560.0	100.0
0°-180°	30560.0	100.0



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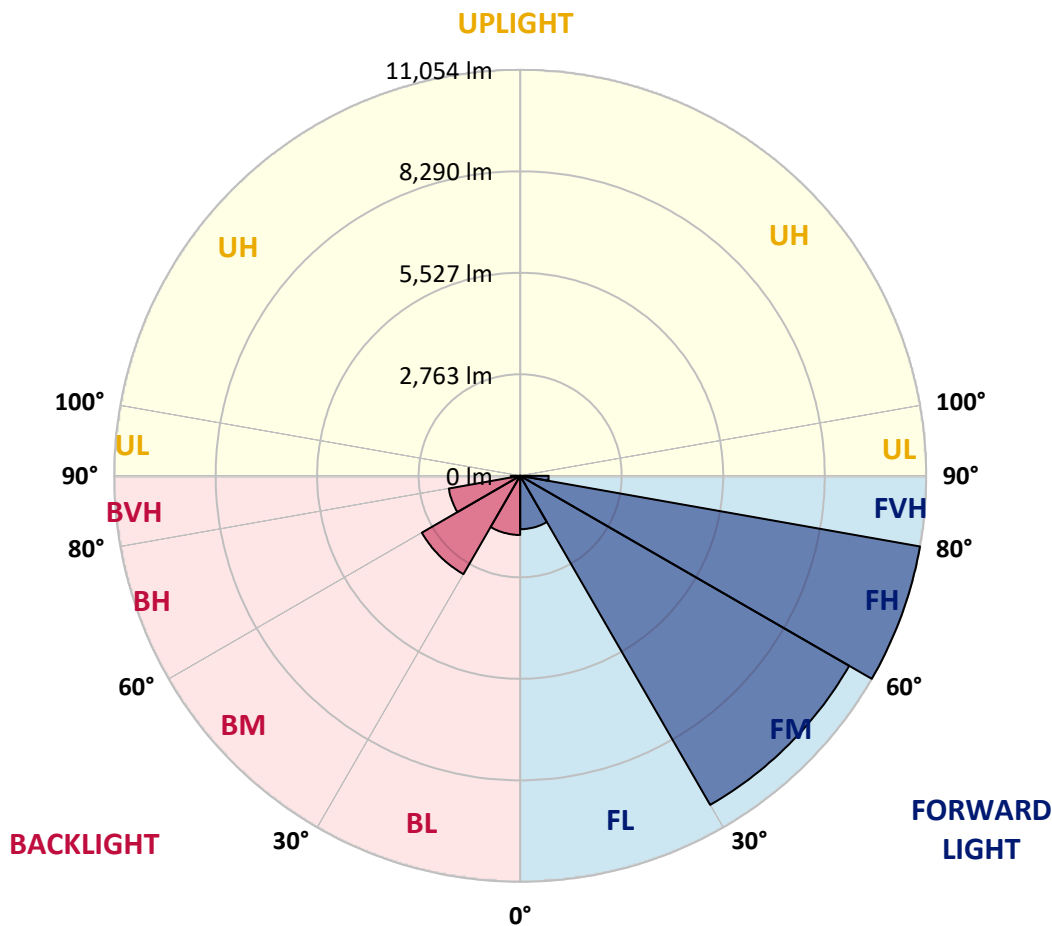
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.3	4.8			
FM (30°-60°)	10345.4	33.9			
FH (60°-80°)	11053.7	36.2			G4/12000
FVH (80°-90°)	777.0	2.5			G5
BL (0°-30°)	1609.9	5.3	B3/2500		
BM (30°-60°)	3092.4	10.1	B3/5000		
BH (60°-80°)	1975.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	253.1	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4
2.5°	3102.4	3086.3	3090.3	3090.3	3106.4	3114.5	3118.5	3130.6	3138.7	3158.9	3187.1
5°	2957.2	2945.1	2949.1	2953.1	2981.4	3009.6	3033.8	3050.0	3074.2	3106.4	3146.8
7.5°	2852.3	2844.2	2848.2	2856.3	2880.5	2912.8	2953.1	2977.3	3013.6	3074.2	3142.7
10°	2775.6	2775.6	2779.7	2795.8	2820.0	2860.3	2892.6	2920.9	2993.5	3102.4	3207.3
12.5°	2715.1	2715.1	2727.2	2759.5	2799.8	2840.2	2916.8	2949.1	3045.9	3195.2	3320.3
15°	2711.1	2715.1	2719.1	2747.4	2791.8	2880.5	2993.5	3041.9	3158.9	3336.4	3481.6
17.5°	2775.6	2779.7	2763.5	2771.6	2824.0	2949.1	3098.4	3154.8	3304.1	3497.8	3647.0
20°	2973.3	2973.3	2924.9	2880.5	2916.8	3054.0	3223.4	3279.9	3445.3	3659.1	3808.4
22.5°	3376.7	3396.9	3283.9	3187.1	3130.6	3207.3	3360.6	3421.1	3606.7	3836.6	3985.9
25°	3864.9	3885.1	3731.8	3594.6	3489.7	3477.6	3578.5	3643.0	3796.3	4034.3	4159.4
27.5°	4336.9	4300.6	4159.4	4030.3	3897.2	3788.2	3864.9	3921.4	4098.9	4280.4	4357.1
30°	4708.1	4679.8	4542.7	4449.9	4324.8	4183.6	4139.2	4199.7	4345.0	4514.4	4554.8
32.5°	5119.6	5099.4	4962.2	4841.2	4736.3	4603.2	4506.3	4534.6	4615.3	4736.3	4760.5
35°	5644.0	5688.4	5543.2	5297.1	5180.1	5051.0	4982.4	4990.5	5051.0	5127.6	5087.3
37.5°	6196.7	6249.2	6257.2	5870.0	5712.6	5595.6	5523.0	5551.2	5623.9	5676.3	5551.2
40°	7221.5	7169.0	6959.2	6672.8	6430.7	6317.8	6216.9	6212.9	6265.3	6358.1	6132.2
42.5°	8581.0	8532.6	8109.0	7737.8	7354.6	7225.5	7027.8	6943.1	6967.3	7084.3	6769.6
45°	9884.1	9863.9	9525.1	9093.4	8633.5	8383.3	7931.5	7725.7	7705.6	7798.4	7423.2
47.5°	11042.0	10953.2	10707.1	10372.3	10323.9	9670.3	8839.2	8560.9	8464.0	8516.5	8096.9
50°	12280.5	11977.9	11639.0	11433.3	11784.3	11175.1	9755.0	9464.5	9226.5	9262.8	8827.1
52.5°	12938.1	12429.8	12207.9	12268.4	12740.4	12506.4	10751.5	10396.5	10013.2	10065.7	9553.3
55°	12373.3	12369.3	12466.1	12841.3	13498.9	13228.6	11699.6	11300.2	10880.6	10892.7	10388.4
57.5°	11598.7	11756.0	12256.3	13083.3	14438.9	13987.0	12631.5	12207.9	11824.6	11764.1	11336.5
60°	10892.7	11066.2	11792.3	13043.0	14765.7	14680.9	13519.0	13147.9	12837.2	12659.7	12332.9
62.5°	9819.6	9948.7	10977.4	12784.8	14491.3	15181.2	14418.7	14164.5	13930.5	13563.4	13406.1
65°	8556.8	8601.2	9686.4	11933.6	14148.4	15374.8	15314.3	15201.4	14975.4	14434.8	14467.1
67.5°	7189.2	7277.9	8230.0	10574.0	13398.0	15286.1	16008.2	16101.0	15834.7	15023.8	15144.9
70°	5732.8	5841.7	6563.9	8694.0	12123.2	14902.8	16649.7	16799.0	16286.6	15217.5	15269.9
72.5°	3546.2	3651.1	4135.2	6039.4	9609.8	13615.9	16847.4	17041.0	16298.7	14959.3	14455.0
75°	1226.4	1238.5	1617.8	2896.6	5704.5	10279.5	16201.9	16657.8	15786.3	14019.3	12579.0
77.5°	560.8	580.9	718.1	1194.2	2529.5	5547.2	13377.8	14519.6	14229.1	12550.8	9682.4
80°	387.3	395.4	496.2	714.1	1460.4	1952.6	8443.9	9932.5	10440.8	9718.7	6204.8
82.5°	290.5	298.5	383.3	484.1	1053.0	948.1	3215.4	4615.3	5736.8	5631.9	2594.1
85°	278.4	274.3	298.5	322.7	702.0	564.8	1040.9	1428.2	2239.1	1916.3	653.6
87.5°	121.0	133.1	306.6	181.5	367.1	262.2	451.8	528.5	681.8	593.0	234.0
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°	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4	3223.4
2.5°	3199.2	3207.3	3231.5	3267.8	3288.0	3328.3	3356.6	3372.7	3384.8	3388.8	3388.8
5°	3171.0	3187.1	3239.6	3300.1	3356.6	3441.3	3517.9	3562.3	3594.6	3606.7	3610.7
7.5°	3179.1	3219.4	3296.0	3384.8	3457.4	3566.3	3659.1	3747.9	3820.5	3848.8	3848.8
10°	3255.7	3312.2	3417.1	3534.1	3626.9	3739.8	3836.6	3913.3	3998.0	4046.4	4054.5
12.5°	3372.7	3441.3	3578.5	3707.6	3812.4	3901.2	3990.0	4046.4	4086.8	4123.1	4131.2
15°	3538.1	3622.8	3760.0	3893.1	3985.9	4042.4	4066.6	4066.6	4062.6	4066.6	4074.7
17.5°	3703.5	3784.2	3921.4	4054.5	4098.9	4066.6	4038.4	4030.3	4026.3	4018.2	4022.2
20°	3864.9	3941.5	4058.5	4159.4	4123.1	4010.1	3973.8	3969.8	3957.7	3949.6	3941.5
22.5°	4026.3	4082.7	4179.6	4215.9	4070.6	3909.3	3864.9	3840.7	3824.5	3804.4	3784.2
25°	4211.8	4228.0	4300.6	4244.1	3941.5	3723.7	3659.1	3622.8	3606.7	3586.5	3570.4
27.5°	4385.3	4385.3	4397.4	4199.7	3751.9	3477.6	3380.8	3316.2	3312.2	3308.2	3304.1
30°	4542.7	4522.5	4482.1	4066.6	3505.8	3175.0	3029.8	2965.2	2989.4	3009.6	3013.6
32.5°	4728.2	4687.9	4574.9	3885.1	3211.3	2836.1	2658.6	2630.4	2658.6	2682.8	2666.7
35°	5018.7	4946.1	4671.8	3675.3	2928.9	2525.5	2356.0	2315.7	2307.6	2303.6	2271.3
37.5°	5434.2	5309.2	4748.4	3449.4	2650.6	2251.2	2126.1	2041.4	1964.7	1884.0	1871.9
40°	5942.6	5728.7	4800.9	3191.2	2356.0	2021.2	1888.1	1779.1	1650.0	1508.8	1492.7
42.5°	6499.3	6180.6	4825.1	2904.7	2097.9	1831.6	1666.2	1529.0	1383.8	1274.8	1254.7
45°	7100.4	6668.7	4804.9	2630.4	1888.1	1670.2	1484.6	1335.4	1218.4	1141.7	1125.6
47.5°	7685.4	7229.5	4748.4	2412.5	1726.7	1533.0	1343.4	1206.3	1117.5	1032.8	1012.6
50°	8435.8	7766.1	4679.8	2243.1	1549.2	1395.9	1254.7	1109.4	1008.6	968.2	960.2
52.5°	9266.9	8302.7	4599.1	2029.3	1375.7	1287.0	1198.2	1069.1	1036.8	960.2	948.1
55°	10166.5	8940.1	4583.0	1759.0	1222.4	1210.3	1141.7	1105.4	1113.5	960.2	940.0
57.5°	11114.6	9621.9	4619.3	1488.7	1097.3	1141.7	1165.9	1137.7	1125.6	980.3	940.0
60°	12103.0	10279.5	4510.4	1238.5	1000.5	1085.2	1194.2	1121.5	1032.8	972.3	944.0
62.5°	13063.2	10832.2	4038.4	1061.0	927.9	1069.1	1178.0	1061.0	960.2	960.2	948.1
65°	13761.1	11078.3	3158.9	931.9	879.5	1048.9	1149.8	1020.7	940.0	968.2	952.1
67.5°	13841.8	10824.1	2122.1	831.1	839.1	1012.6	1085.2	984.4	919.8	992.4	968.2
70°	13345.6	10162.5	1299.1	754.4	786.7	948.1	1028.8	948.1	891.6	972.3	936.0
72.5°	12058.6	8928.0	915.8	689.9	730.2	887.6	976.3	915.8	851.2	879.5	843.2
75°	9892.2	6918.9	726.2	629.4	673.7	831.1	931.9	867.4	802.8	790.7	766.5
77.5°	7007.6	4433.7	585.0	580.9	613.2	762.5	871.4	810.9	746.4	722.1	706.0
80°	4030.3	2174.5	504.3	524.5	556.7	693.9	798.8	746.4	685.8	649.5	625.3
82.5°	1541.1	758.5	443.8	455.9	492.2	621.3	726.2	681.8	621.3	653.6	548.7
85°	500.3	415.5	363.1	375.2	411.5	516.4	641.5	605.1	536.6	476.1	439.7
87.5°	221.9	225.9	193.6	213.8	258.2	342.9	468.0	443.8	391.3	326.8	314.7
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)