

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: P400016

Luminaire Tested: **ARCH-L-PA3-220-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400016
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-PA3-220-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30953 lumens
Efficiency: N/A
Efficacy: 139.4 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

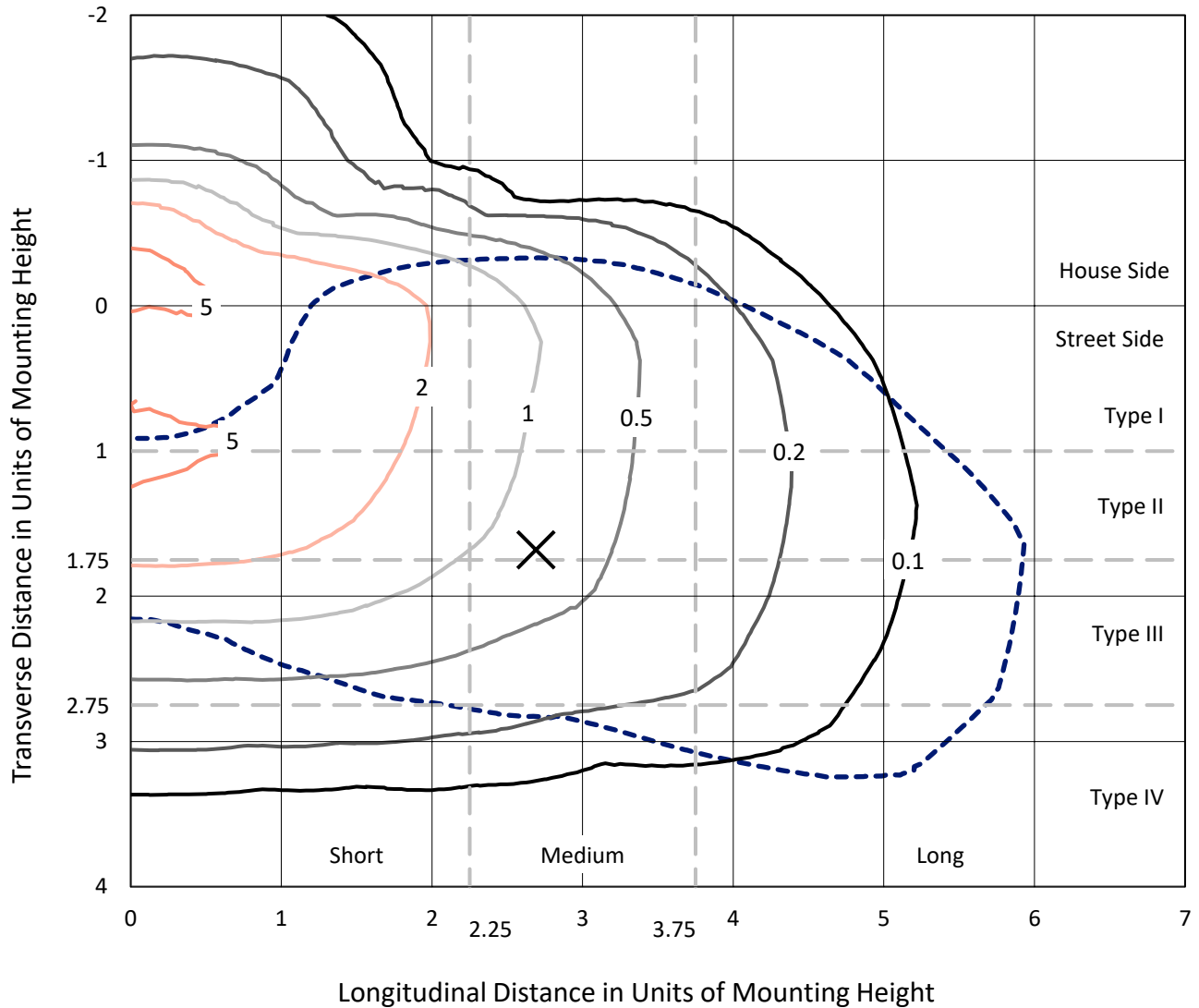
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

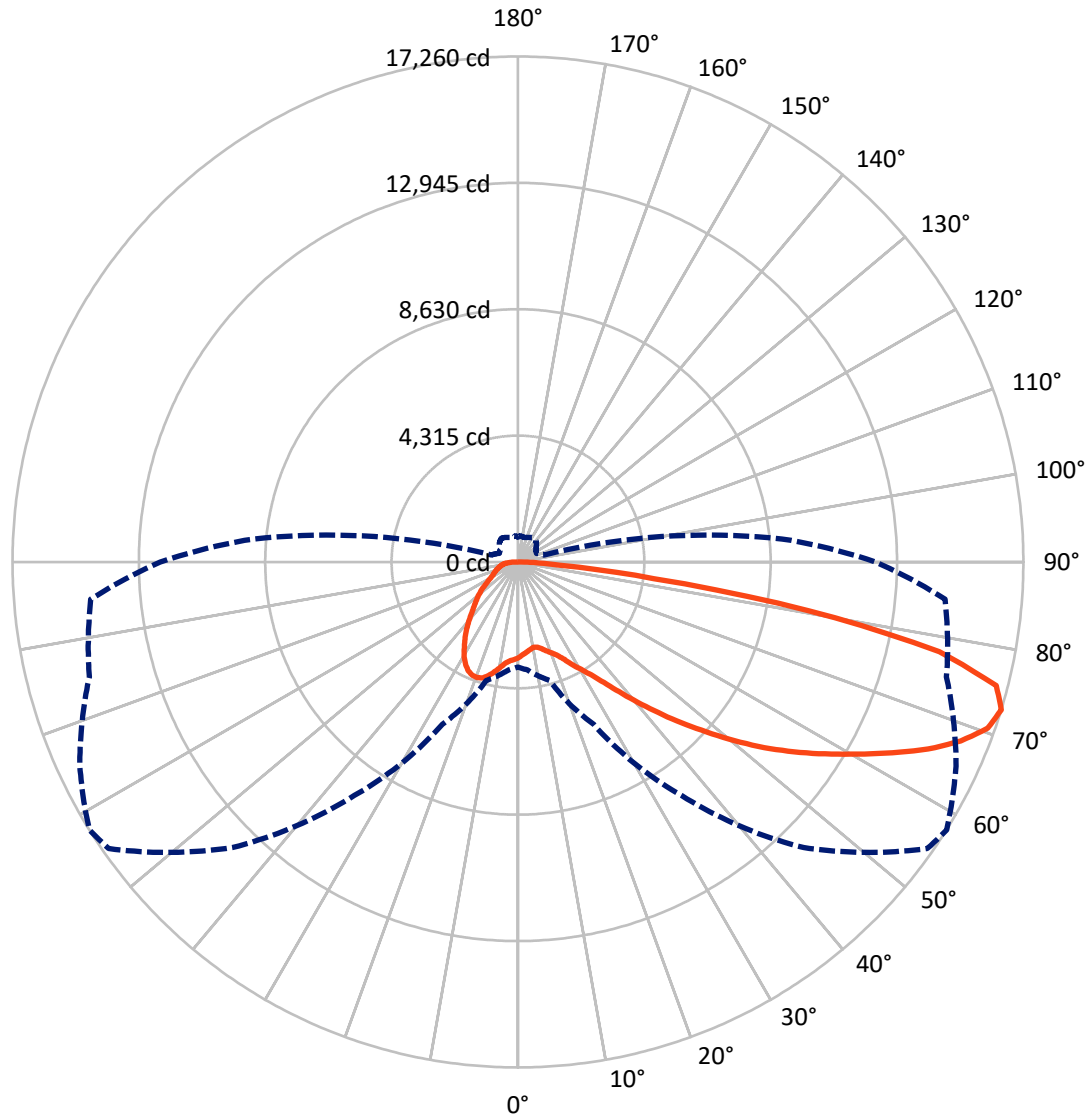
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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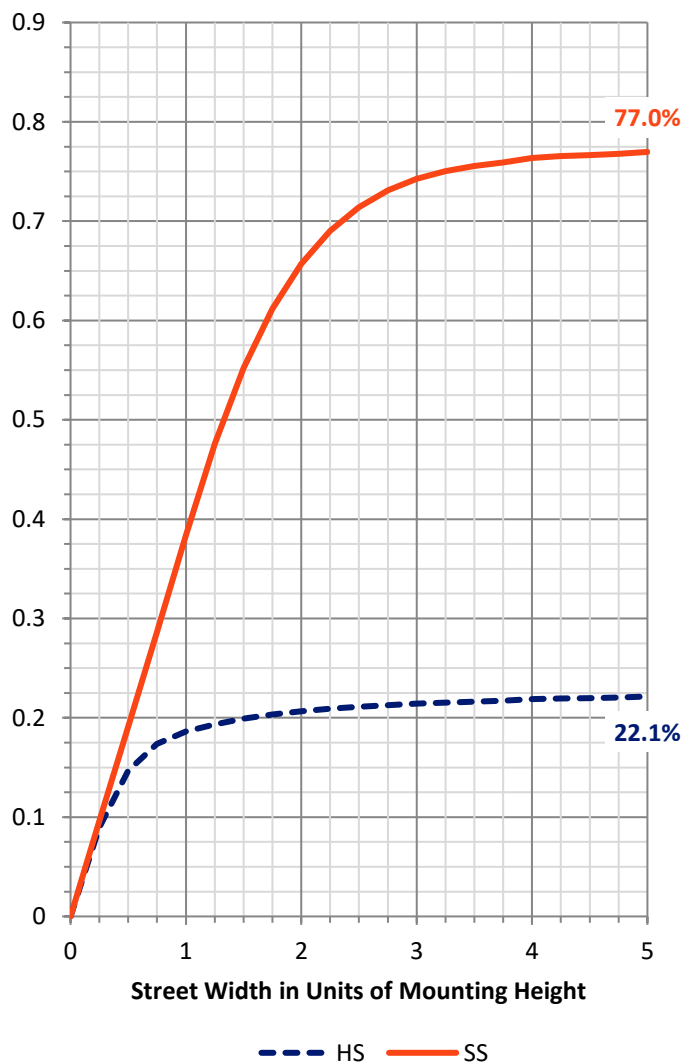
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7019.8	0.0	7019.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	23933.2	0.0	23933.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	30953.0	0.0	30953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	1.0
10°-20°	998.8	3.2
20°-30°	1789.2	5.8
30°-40°	2691.4	8.7
40°-50°	4358.4	14.1
50°-60°	6560.8	21.2
60°-70°	7721.4	24.9
70°-80°	5475.2	17.7
80°-90°	1043.3	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°	30953.0	100.0
0°-180°	30953.0	100.0

Coefficient of Utilization



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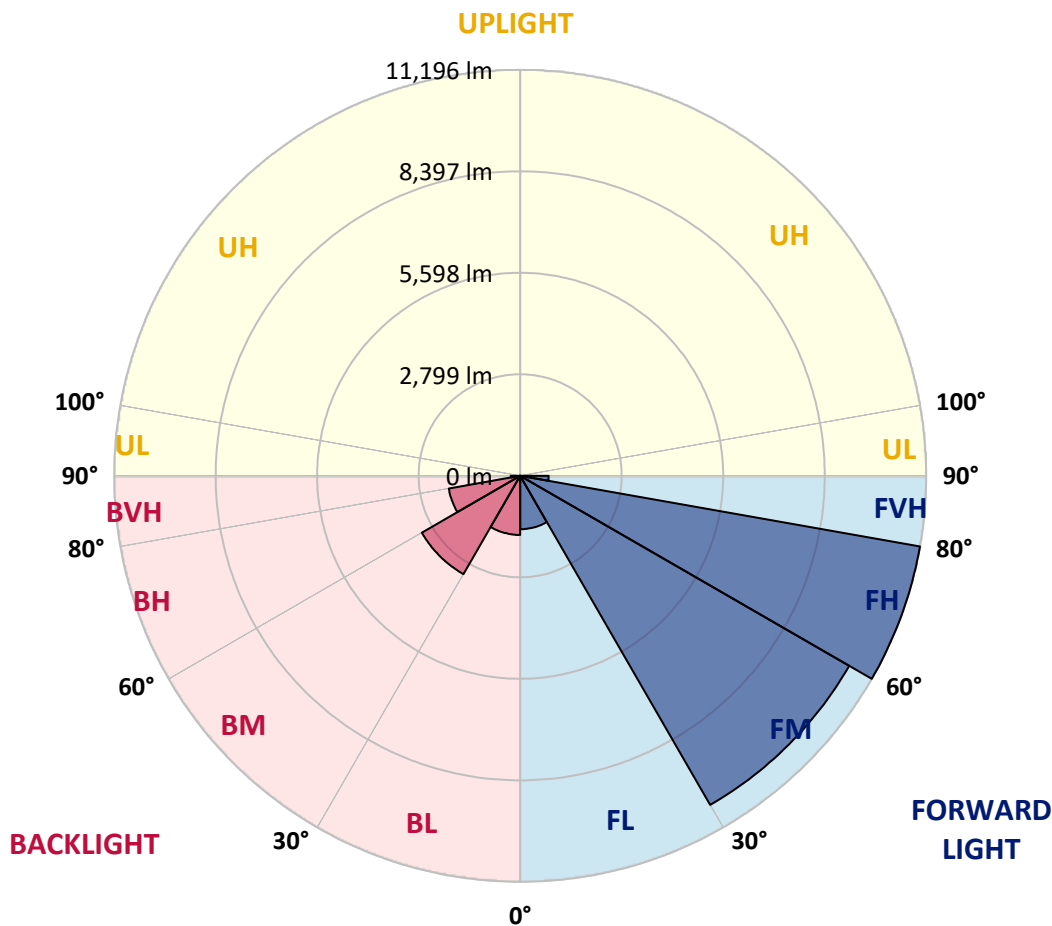
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.0	4.8			
FM (30°-60°)	10478.5	33.9			
FH (60°-80°)	11195.8	36.2			G4/12000
FVH (80°-90°)	786.9	2.5			G5
BL (0°-30°)	1630.6	5.3	B3/2500		
BM (30°-60°)	3132.2	10.1	B3/5000		
BH (60°-80°)	2000.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	256.3	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°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3142.3	3126.0	3130.0	3130.0	3146.4	3154.6	3158.6	3170.9	3179.1	3199.5	3228.1
5°	2995.2	2982.9	2987.0	2991.1	3019.7	3048.3	3072.8	3089.2	3113.7	3146.4	3187.2
7.5°	2889.0	2880.8	2884.9	2893.0	2917.6	2950.2	2991.1	3015.6	3052.4	3113.7	3183.2
10°	2811.3	2811.3	2815.4	2831.7	2856.3	2897.1	2929.8	2958.4	3032.0	3142.3	3248.5
12.5°	2750.0	2750.0	2762.3	2795.0	2835.8	2876.7	2954.3	2987.0	3085.1	3236.3	3363.0
15°	2745.9	2750.0	2754.1	2782.7	2827.7	2917.6	3032.0	3081.0	3199.5	3379.3	3526.4
17.5°	2811.3	2815.4	2799.1	2807.2	2860.3	2987.0	3138.2	3195.4	3346.6	3542.7	3693.9
20°	3011.5	3011.5	2962.5	2917.6	2954.3	3093.3	3264.9	3322.1	3489.6	3706.2	3857.4
22.5°	3420.2	3440.6	3326.2	3228.1	3170.9	3248.5	3403.8	3465.1	3653.1	3886.0	4037.2
25°	3914.6	3935.0	3779.7	3640.8	3534.6	3522.3	3624.5	3689.8	3845.1	4086.2	4212.9
27.5°	4392.7	4355.9	4212.9	4082.1	3947.3	3837.0	3914.6	3971.8	4151.6	4335.5	4413.1
30°	4768.6	4740.0	4601.1	4507.1	4380.4	4237.4	4192.5	4253.7	4400.9	4572.5	4613.3
32.5°	5185.4	5165.0	5026.0	4903.5	4797.2	4662.4	4564.3	4592.9	4674.6	4797.2	4821.7
35°	5716.6	5761.6	5614.5	5365.2	5246.7	5115.9	5046.5	5054.6	5115.9	5193.6	5152.7
37.5°	6276.4	6329.5	6337.7	5945.4	5786.1	5667.6	5594.0	5622.6	5696.2	5749.3	5622.6
40°	7314.3	7261.2	7048.7	6758.6	6513.4	6399.0	6296.9	6292.8	6345.9	6439.9	6211.0
42.5°	8691.4	8642.3	8213.3	7837.4	7449.2	7318.4	7118.2	7032.4	7056.9	7175.4	6856.7
45°	10011.2	9990.8	9647.5	9210.3	8744.5	8491.1	8033.5	7825.1	7804.7	7898.6	7518.6
47.5°	11184.0	11094.1	10844.8	10505.7	10456.6	9794.7	8952.9	8670.9	8572.9	8626.0	8201.0
50°	12438.4	12132.0	11788.7	11580.3	11935.8	11318.8	9880.5	9586.3	9345.2	9381.9	8940.6
52.5°	13104.5	12589.6	12364.9	12426.2	12904.3	12667.3	10889.8	10530.2	10142.0	10195.1	9676.2
55°	12532.4	12528.3	12626.4	13006.4	13672.5	13398.7	11850.0	11445.5	11020.5	11032.8	10522.0
57.5°	11747.9	11907.2	12413.9	13251.6	14624.6	14166.9	12793.9	12364.9	11976.7	11915.4	11482.3
60°	11032.8	11208.5	11944.0	13210.7	14955.5	14869.7	13692.9	13317.0	13002.3	12822.5	12491.6
62.5°	9945.8	10076.6	11118.6	12949.2	14677.7	15376.4	14604.1	14346.7	14109.7	13737.8	13578.5
65°	8666.9	8711.8	9811.0	12087.0	14330.3	15572.6	15511.3	15396.8	15168.0	14620.5	14653.2
67.5°	7281.6	7371.5	8335.9	10710.0	13570.3	15482.7	16214.1	16308.1	16038.4	15217.1	15339.6
70°	5806.5	5916.8	6648.3	8805.8	12279.1	15094.5	16863.8	17015.0	16496.0	15413.2	15466.3
72.5°	3591.8	3698.0	4188.4	6117.1	9733.4	13791.0	17064.0	17260.2	16508.3	15151.7	14640.9
75°	1242.2	1254.5	1638.6	2933.9	5777.9	10411.7	16410.2	16872.0	15989.3	14199.6	12740.8
77.5°	568.0	588.4	727.3	1209.5	2562.1	5618.5	13549.9	14706.3	14412.1	12712.2	9806.9
80°	392.3	400.4	502.6	723.3	1479.2	1977.7	8552.4	10060.3	10575.1	9843.7	6284.6
82.5°	294.2	302.4	388.2	490.3	1066.5	960.3	3256.7	4674.6	5810.6	5704.4	2627.4
85°	281.9	277.9	302.4	326.9	711.0	572.1	1054.2	1446.5	2267.8	1941.0	662.0
87.5°	122.6	134.8	310.6	183.9	371.8	265.6	457.7	535.3	690.6	600.7	237.0
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°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3240.4	3248.5	3273.1	3309.8	3330.3	3371.1	3399.7	3416.1	3428.3	3432.4	3432.4
5°	3211.8	3228.1	3281.2	3342.5	3399.7	3485.5	3563.2	3608.1	3640.8	3653.1	3657.2
7.5°	3219.9	3260.8	3338.4	3428.3	3501.9	3612.2	3706.2	3796.1	3869.6	3898.2	3898.2
10°	3297.6	3354.8	3461.0	3579.5	3673.5	3787.9	3886.0	3963.6	4049.4	4098.5	4106.6
12.5°	3416.1	3485.5	3624.5	3755.2	3861.5	3951.4	4041.3	4098.5	4139.3	4176.1	4184.3
15°	3583.6	3669.4	3808.3	3943.2	4037.2	4094.4	4118.9	4118.9	4114.8	4118.9	4127.1
17.5°	3751.1	3832.9	3971.8	4106.6	4151.6	4118.9	4090.3	4082.1	4078.0	4069.9	4074.0
20°	3914.6	3992.2	4110.7	4212.9	4176.1	4061.7	4024.9	4020.8	4008.6	4000.4	3992.2
22.5°	4078.0	4135.2	4233.3	4270.1	4123.0	3959.5	3914.6	3890.1	3873.7	3853.3	3832.9
25°	4266.0	4282.4	4355.9	4298.7	3992.2	3771.6	3706.2	3669.4	3653.1	3632.6	3616.3
27.5°	4441.7	4441.7	4454.0	4253.7	3800.2	3522.3	3424.2	3358.9	3354.8	3350.7	3346.6
30°	4601.1	4580.6	4539.8	4118.9	3550.9	3215.8	3068.7	3003.4	3027.9	3048.3	3052.4
32.5°	4789.0	4748.2	4633.8	3935.0	3252.6	2872.6	2692.8	2664.2	2692.8	2717.3	2701.0
35°	5083.2	5009.7	4731.8	3722.5	2966.6	2558.0	2386.3	2345.5	2337.3	2333.2	2300.5
37.5°	5504.1	5377.5	4809.5	3493.7	2684.6	2280.1	2153.4	2067.6	1990.0	1908.3	1896.0
40°	6019.0	5802.4	4862.6	3232.2	2386.3	2047.2	1912.3	1802.0	1671.3	1528.2	1511.9
42.5°	6582.9	6260.1	4887.1	2942.1	2124.8	1855.1	1687.6	1548.7	1401.6	1291.2	1270.8
45°	7191.7	6754.5	4866.7	2664.2	1912.3	1691.7	1503.7	1352.5	1234.0	1156.4	1140.1
47.5°	7784.2	7322.5	4809.5	2443.6	1748.9	1552.8	1360.7	1221.8	1131.9	1046.1	1025.6
50°	8544.3	7866.0	4740.0	2271.9	1569.1	1413.8	1270.8	1123.7	1021.6	980.7	972.5
52.5°	9386.0	8409.4	4658.3	2055.4	1393.4	1303.5	1213.6	1082.8	1050.2	972.5	960.3
55°	10297.3	9055.0	4641.9	1781.6	1238.1	1225.9	1156.4	1119.6	1127.8	972.5	952.1
57.5°	11257.5	9745.6	4678.7	1507.8	1111.4	1156.4	1180.9	1152.3	1140.1	992.9	952.1
60°	12258.6	10411.7	4568.4	1254.5	1013.4	1099.2	1209.5	1136.0	1046.1	984.8	956.2
62.5°	13231.2	10971.5	4090.3	1074.7	939.8	1082.8	1193.2	1074.7	972.5	972.5	960.3
65°	13938.1	11220.7	3199.5	943.9	890.8	1062.4	1164.6	1033.8	952.1	980.7	964.3
67.5°	14019.8	10963.3	2149.3	841.8	849.9	1025.6	1099.2	997.0	931.7	1005.2	980.7
70°	13517.2	10293.2	1315.8	764.1	796.8	960.3	1042.0	960.3	903.1	984.8	948.0
72.5°	12213.7	9042.8	927.6	698.7	739.6	899.0	988.9	927.6	862.2	890.8	854.0
75°	10019.4	7007.9	735.5	637.4	682.4	841.8	943.9	878.5	813.2	800.9	776.4
77.5°	7097.8	4490.7	592.5	588.4	621.1	772.3	882.6	821.3	755.9	731.4	715.1
80°	4082.1	2202.5	510.8	531.2	563.9	702.8	809.1	755.9	694.7	657.9	633.4
82.5°	1560.9	768.2	449.5	461.7	498.5	629.3	735.5	690.6	629.3	662.0	555.7
85°	506.7	420.9	367.8	380.0	416.8	523.0	649.7	612.9	543.5	482.2	445.4
87.5°	224.7	228.8	196.1	216.6	261.5	347.3	474.0	449.5	396.4	331.0	318.7
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)