

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: P380995

Luminaire Tested: **USSL-XL-PA4B-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA4B-730-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35570 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

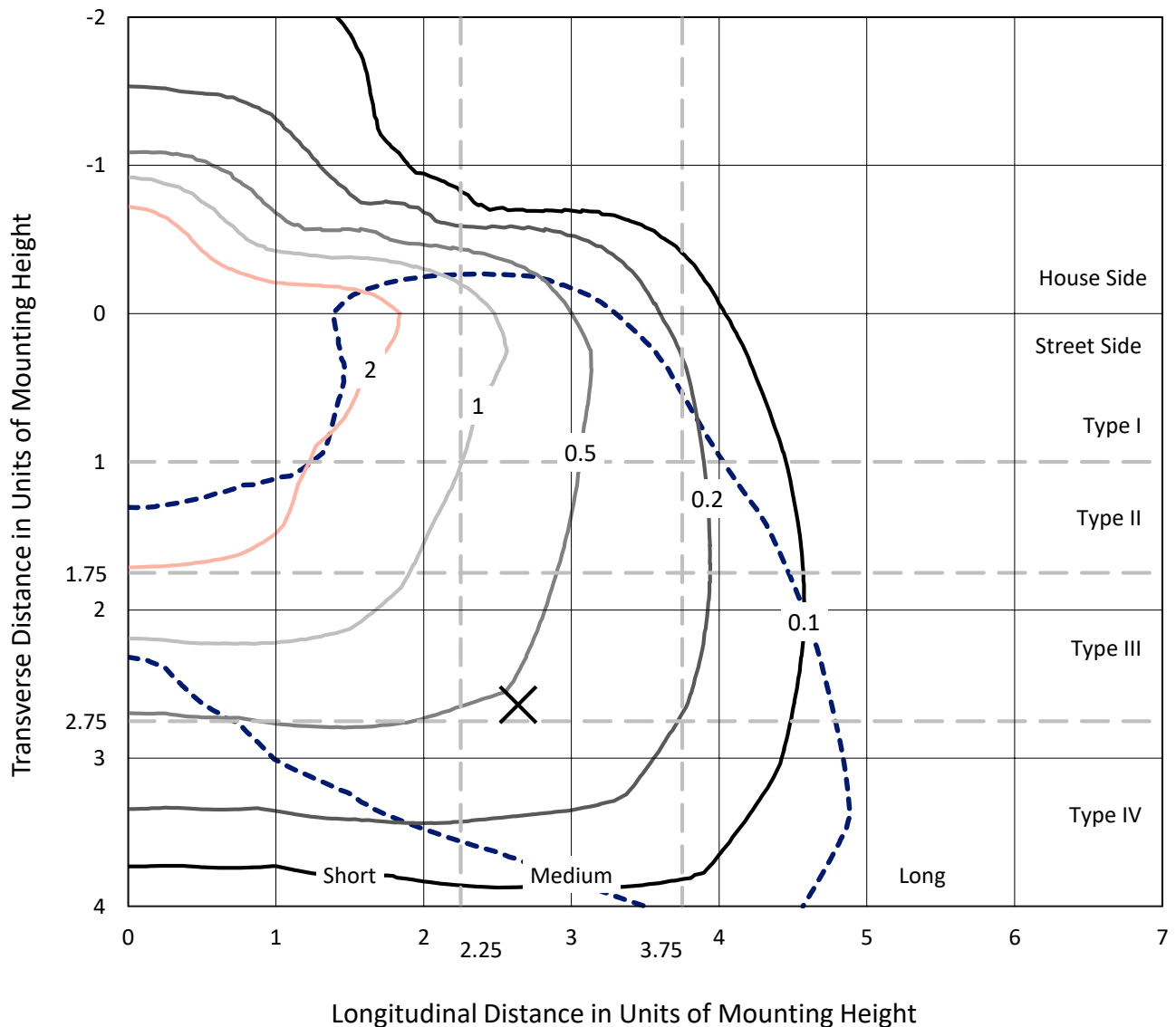
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

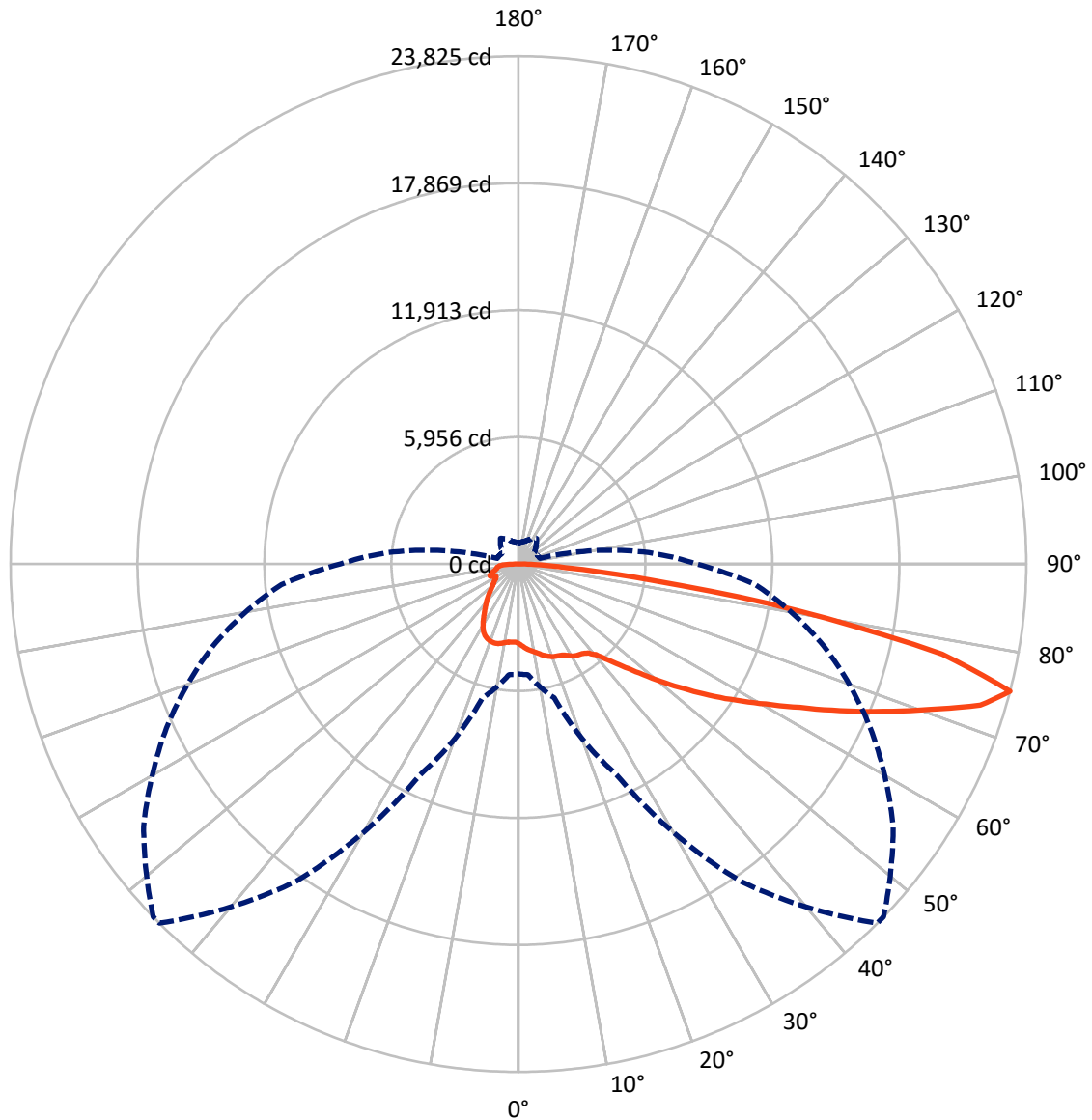
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7860.8	0.0	7860.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	27709.2	0.0	27709.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	35570.0	0.0	35570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	1.0
10°-20°	1175.7	3.3
20°-30°	2004.4	5.6
30°-40°	2808.4	7.9
40°-50°	4126.0	11.6
50°-60°	6566.5	18.5
60°-70°	9340.9	26.3
70°-80°	7821.1	22.0
80°-90°	1357.4	3.8
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°	35570.0	100.0
0°-180°	35570.0	100.0

Coefficient of Utilization



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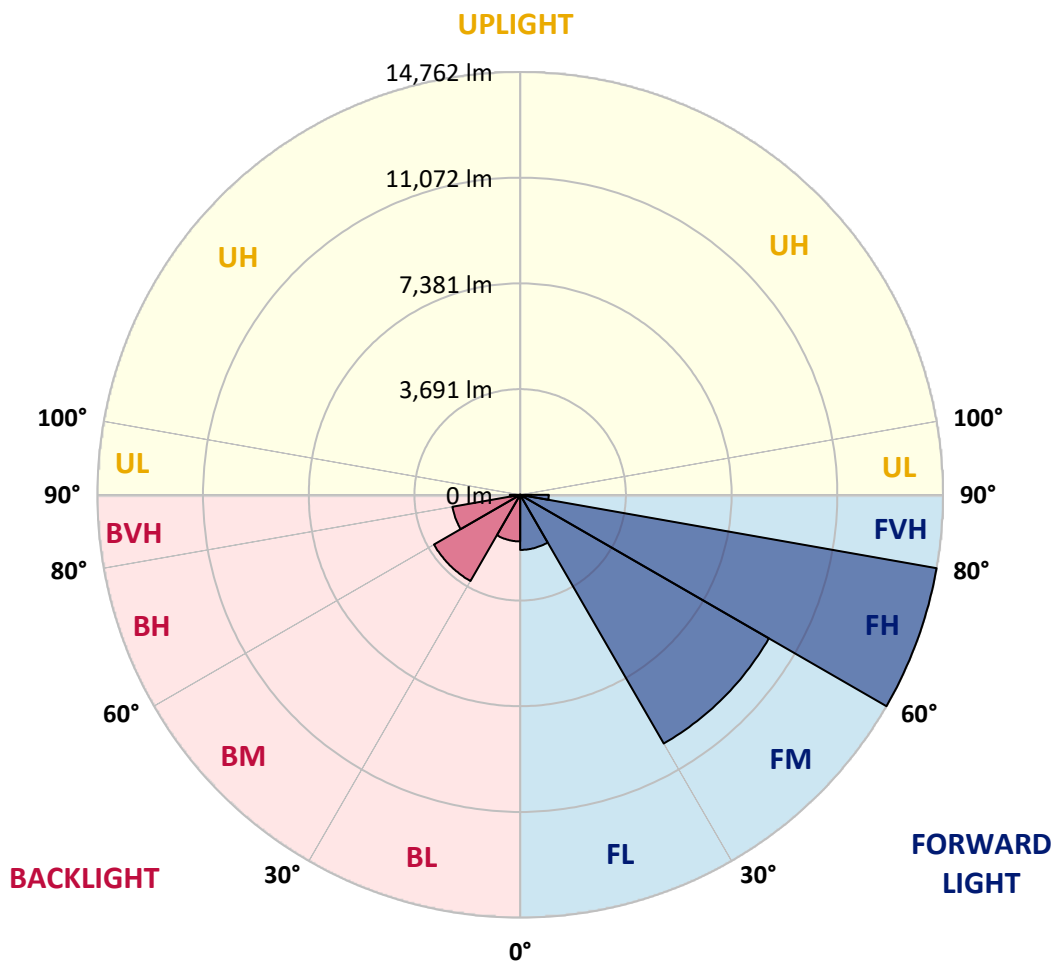
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.8	5.4			
FM (30°-60°)	10026.1	28.2			
FH (60°-80°)	14762.4	41.5			G5
FVH (80°-90°)	997.9	2.8			G5
BL (0°-30°)	1626.9	4.6	B3/2500		
BM (30°-60°)	3474.8	9.8	B3/5000		
BH (60°-80°)	2399.6	6.7	B3/2500		G3/2500
BVH (80°-90°)	359.5	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-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6
2.5°	3949.5	3930.5	3921.0	3921.0	3883.0	3859.2	3854.4	3821.2	3792.7	3764.1	3740.4
5°	4177.6	4163.4	4134.9	4111.1	4058.8	3992.3	3982.8	3911.5	3840.2	3773.7	3716.6
7.5°	4386.7	4358.2	4325.0	4277.4	4191.9	4101.6	4087.3	3987.5	3887.7	3787.9	3711.9
10°	4562.6	4534.1	4486.6	4420.0	4310.7	4201.4	4187.1	4082.6	3978.0	3859.2	3749.9
12.5°	4728.9	4705.2	4633.9	4543.6	4415.3	4315.5	4301.2	4210.9	4101.6	3968.5	3825.9
15°	4871.5	4847.8	4771.7	4667.2	4519.8	4443.8	4424.8	4339.2	4229.9	4087.3	3940.0
17.5°	4942.8	4942.8	4862.0	4748.0	4610.1	4553.1	4538.8	4434.3	4334.5	4196.6	4049.3
20°	4966.6	4976.1	4919.1	4781.2	4662.4	4638.6	4624.4	4538.8	4424.8	4291.7	4153.9
22.5°	4980.8	4999.8	4952.3	4795.5	4695.7	4681.4	4671.9	4614.9	4524.6	4396.3	4258.4
25°	5028.4	5028.4	4995.1	4819.2	4738.4	4733.7	4733.7	4700.4	4638.6	4529.3	4391.5
27.5°	5099.7	5094.9	5052.1	4871.5	4833.5	4847.8	4843.0	4838.3	4795.5	4686.2	4538.8
30°	5218.5	5218.5	5170.9	4976.1	4952.3	5014.1	5018.9	5028.4	4961.8	4790.7	4671.9
32.5°	5399.1	5380.1	5332.5	5080.6	5042.6	5099.7	5109.2	5104.4	5047.4	4885.8	4828.8
35°	5955.1	5912.4	5741.3	5313.5	5123.4	5156.7	5161.4	5185.2	5194.7	5066.4	5037.9
37.5°	6929.4	6872.4	6611.0	5864.8	5380.1	5299.3	5294.5	5356.3	5408.6	5294.5	5294.5
40°	7989.3	7941.8	7789.7	6815.4	5855.3	5589.2	5570.2	5627.2	5693.7	5612.9	5636.7
42.5°	8901.8	8939.8	8954.1	7823.0	6568.2	6131.0	6078.7	5997.9	6102.5	6031.2	6126.2
45°	9586.2	9567.2	9828.6	8854.3	7490.3	6810.6	6739.3	6520.7	6653.8	6649.0	6858.2
47.5°	10313.4	10280.1	10389.4	9823.8	8540.6	7642.4	7533.0	7209.9	7409.5	7547.3	7894.2
50°	11002.5	11012.0	11050.0	10589.0	9681.3	8654.7	8516.9	8084.4	8369.5	8659.4	9149.0
52.5°	11900.8	11834.2	11786.7	11482.5	10959.7	9709.8	9619.5	9125.2	9524.4	9866.6	10517.7
55°	12685.0	12642.2	12613.7	12599.4	12029.1	10874.2	10779.1	10265.8	10840.9	11083.3	12043.4
57.5°	13521.5	13497.7	13649.8	13892.2	13664.0	12057.6	11957.8	11463.5	12105.1	12276.2	13697.3
60°	14134.6	14148.8	14567.0	15184.9	15028.1	13340.9	13222.0	12784.8	13336.1	13488.2	15351.2
62.5°	14139.3	14281.9	15251.4	16358.8	16539.4	14818.9	14681.1	14205.8	14600.3	14600.3	16834.1
65°	12789.5	12951.1	15127.9	16648.7	18069.8	16577.4	16444.4	15698.2	15845.5	15645.9	18226.6
67.5°	11444.5	11634.6	13683.0	16672.5	19143.9	18459.5	18302.7	17190.5	16938.7	16434.9	19200.9
70°	10551.0	10684.1	12395.1	16363.6	19790.3	20427.1	20308.3	18606.9	17798.9	17095.5	18996.6
72.5°	8882.8	8835.3	10470.2	14895.0	20151.5	22660.9	22561.1	20146.7	18545.1	16781.8	16202.0
75°	5156.7	5213.7	6497.0	10912.2	18164.8	23825.3	23815.8	21463.2	18217.1	14823.7	11164.1
77.5°	1487.6	1530.4	2134.0	4795.5	11487.3	20322.6	20973.7	19628.7	15398.8	10565.3	5788.8
80°	651.1	684.4	926.8	1596.9	4947.6	13274.3	13844.6	13274.3	9286.8	4847.8	2271.8
82.5°	385.0	408.7	603.6	988.6	2371.6	6316.3	7086.3	6188.0	4006.5	2057.9	941.0
85°	218.6	228.1	346.9	627.4	1492.4	2210.0	2480.9	2324.1	1953.4	1169.2	494.3
87.5°	99.8	104.6	171.1	294.7	836.5	746.2	774.7	1026.6	1131.1	712.9	247.1
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°	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6	3735.6
2.5°	3730.9	3716.6	3688.1	3678.6	3664.3	3669.1	3673.8	3673.8	3678.6	3664.3	3664.3
5°	3692.9	3669.1	3640.6	3640.6	3640.6	3678.6	3711.9	3730.9	3740.4	3740.4	3730.9
7.5°	3678.6	3650.1	3616.8	3626.3	3635.8	3683.3	3745.1	3806.9	3825.9	3825.9	3816.4
10°	3707.1	3678.6	3654.8	3669.1	3692.9	3730.9	3778.4	3835.4	3883.0	3887.7	3883.0
12.5°	3773.7	3740.4	3716.6	3745.1	3773.7	3797.4	3821.2	3844.9	3906.7	3916.2	3916.2
15°	3883.0	3849.7	3821.2	3844.9	3854.4	3854.4	3854.4	3854.4	3916.2	3925.7	3925.7
17.5°	3992.3	3963.8	3935.2	3940.0	3911.5	3873.5	3859.2	3854.4	3887.7	3916.2	3921.0
20°	4096.8	4073.1	4044.6	3997.0	3925.7	3854.4	3830.7	3830.7	3849.7	3892.5	3892.5
22.5°	4210.9	4182.4	4134.9	4025.5	3906.7	3806.9	3783.2	3797.4	3821.2	3878.2	3873.5
25°	4339.2	4301.2	4220.4	4016.0	3844.9	3726.1	3730.9	3773.7	3816.4	3878.2	3878.2
27.5°	4481.8	4429.5	4267.9	3940.0	3707.1	3593.0	3635.8	3735.6	3797.4	3864.0	3873.5
30°	4638.6	4591.1	4306.0	3806.9	3483.7	3379.2	3483.7	3645.3	3740.4	3802.2	3816.4
32.5°	4828.8	4790.7	4339.2	3635.8	3193.8	3103.5	3255.6	3455.2	3607.3	3678.6	3692.9
35°	5066.4	5028.4	4382.0	3441.0	2922.9	2827.9	2965.7	3170.1	3369.7	3460.0	3488.5
37.5°	5375.3	5318.3	4420.0	3231.8	2694.8	2585.5	2652.0	2837.4	3018.0	3141.5	3174.8
40°	5769.8	5679.5	4453.3	2994.2	2495.2	2371.6	2395.4	2485.7	2590.2	2699.5	2742.3
42.5°	6325.9	6145.3	4458.0	2742.3	2290.8	2176.7	2167.2	2195.8	2195.8	2195.8	2210.0
45°	7100.5	6758.4	4467.5	2504.7	2081.7	1962.9	1934.4	1924.8	1853.6	1715.7	1706.2
47.5°	8079.6	7561.6	4510.3	2305.1	1863.1	1758.5	1720.5	1682.5	1549.4	1406.8	1378.3
50°	9334.3	8493.1	4595.9	2115.0	1677.7	1606.4	1558.9	1468.6	1321.3	1211.9	1183.4
52.5°	10779.1	9600.5	4676.7	1915.3	1539.9	1492.4	1435.3	1326.0	1169.2	1102.6	1093.1
55°	12437.8	10836.2	4838.3	1739.5	1421.1	1387.8	1335.5	1231.0	1112.1	1064.6	1059.9
57.5°	14134.6	12219.2	5066.4	1582.7	1307.0	1288.0	1288.0	1197.7	1121.6	1102.6	1102.6
60°	15769.5	13407.4	4890.5	1435.3	1202.4	1211.9	1302.2	1278.5	1221.4	1245.2	1259.5
62.5°	17038.5	14106.0	3968.5	1316.5	1126.4	1211.9	1444.8	1444.8	1378.3	1368.8	1368.8
65°	17580.3	14096.5	2789.8	1226.2	1097.9	1330.8	1611.2	1535.1	1359.3	1292.7	1278.5
67.5°	17442.4	13478.7	1924.8	1164.4	1088.4	1454.3	1687.2	1473.3	1273.7	1216.7	1173.9
70°	16230.5	12171.7	1482.8	1107.4	1074.1	1402.0	1663.4	1402.0	1207.2	1154.9	1116.9
72.5°	13093.7	9762.1	1231.0	1050.3	1017.1	1297.5	1582.7	1335.5	1154.9	1097.9	1059.9
75°	8350.5	6140.5	1040.8	974.3	907.8	1164.4	1473.3	1269.0	1097.9	1021.8	993.3
77.5°	4016.0	2647.3	907.8	884.0	817.5	1078.9	1364.0	1183.4	1021.8	960.0	941.0
80°	1625.4	1211.9	788.9	793.7	750.9	1026.6	1288.0	1102.6	945.8	879.3	846.0
82.5°	846.0	703.4	665.4	684.4	684.4	979.1	1231.0	1036.1	879.3	850.7	741.4
85°	456.3	437.2	513.3	551.3	594.1	884.0	1145.4	964.8	803.2	689.1	665.4
87.5°	223.4	285.2	289.9	332.7	413.5	708.2	964.8	808.0	670.1	556.1	546.6
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)