

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: P400212

Luminaire Tested: **ARCH-L-PA3-250-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400212
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-PA3-250-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30467 lumens
Efficiency: N/A
Efficacy: 121.4 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

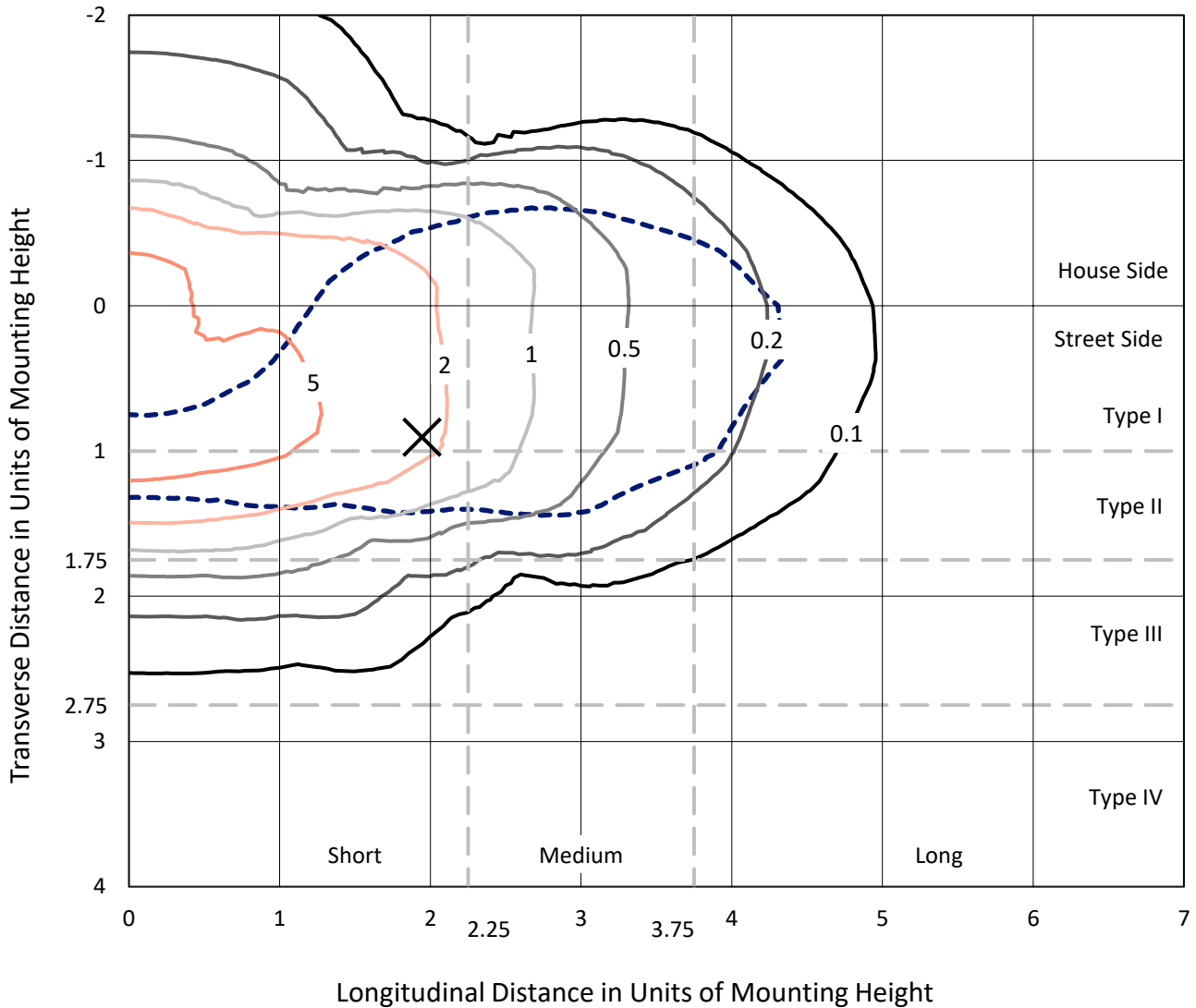
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

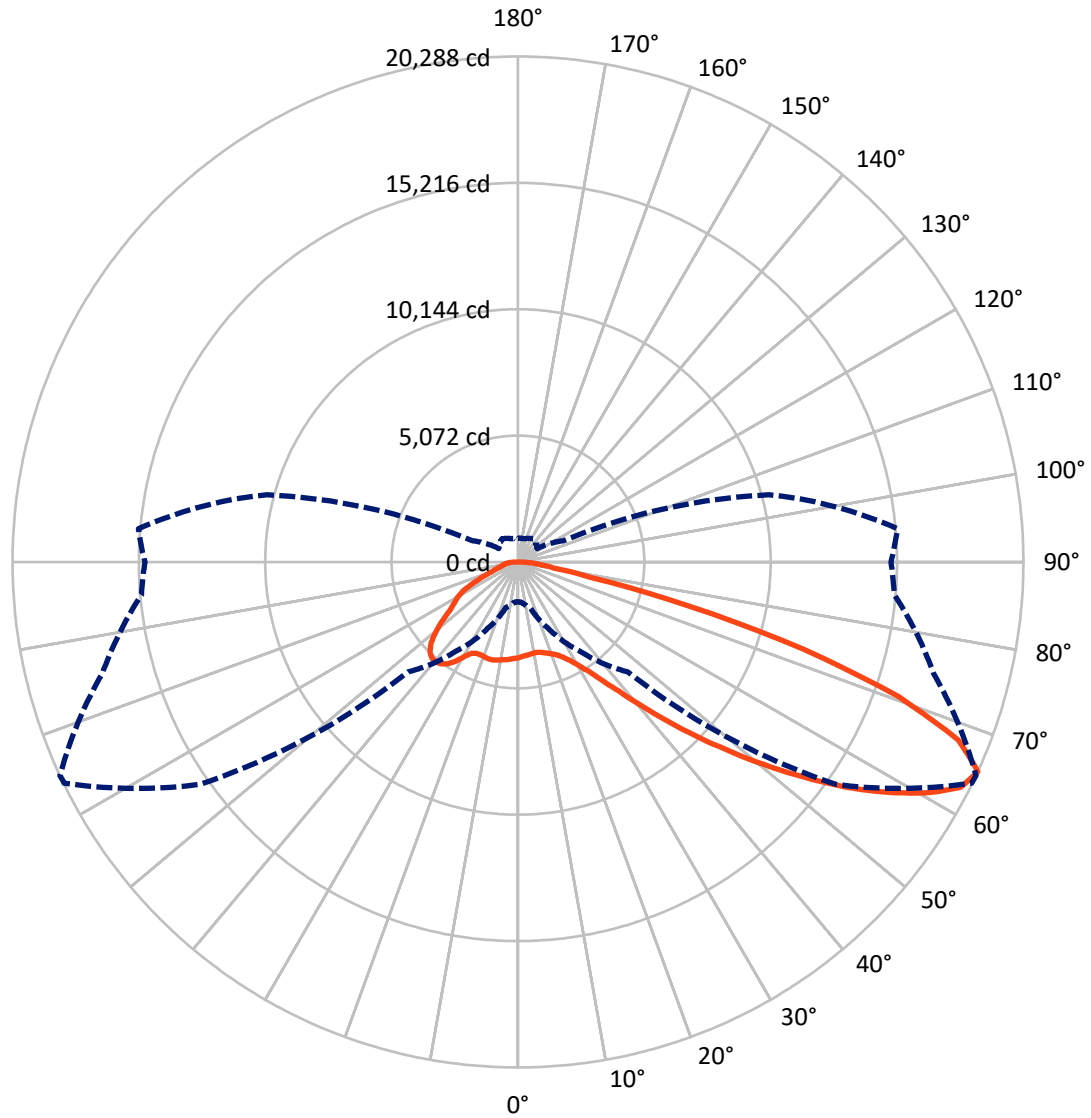
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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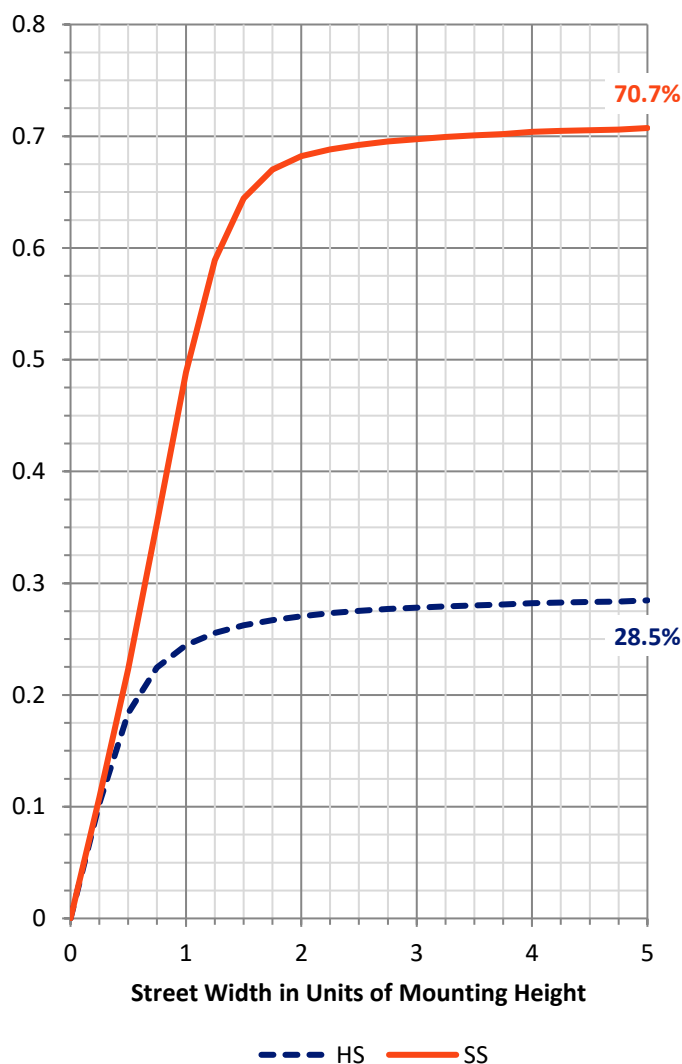
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8808.5	0.0	8808.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	21658.6	0.0	21658.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	30467.0	0.0	30467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.2
10°-20°	1095.0	3.6
20°-30°	1945.1	6.4
30°-40°	3290.7	10.8
40°-50°	5728.4	18.8
50°-60°	7402.9	24.3
60°-70°	6477.9	21.3
70°-80°	3523.5	11.6
80°-90°	636.6	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°	30467.0	100.0
0°-180°	30467.0	100.0

Coefficient of Utilization



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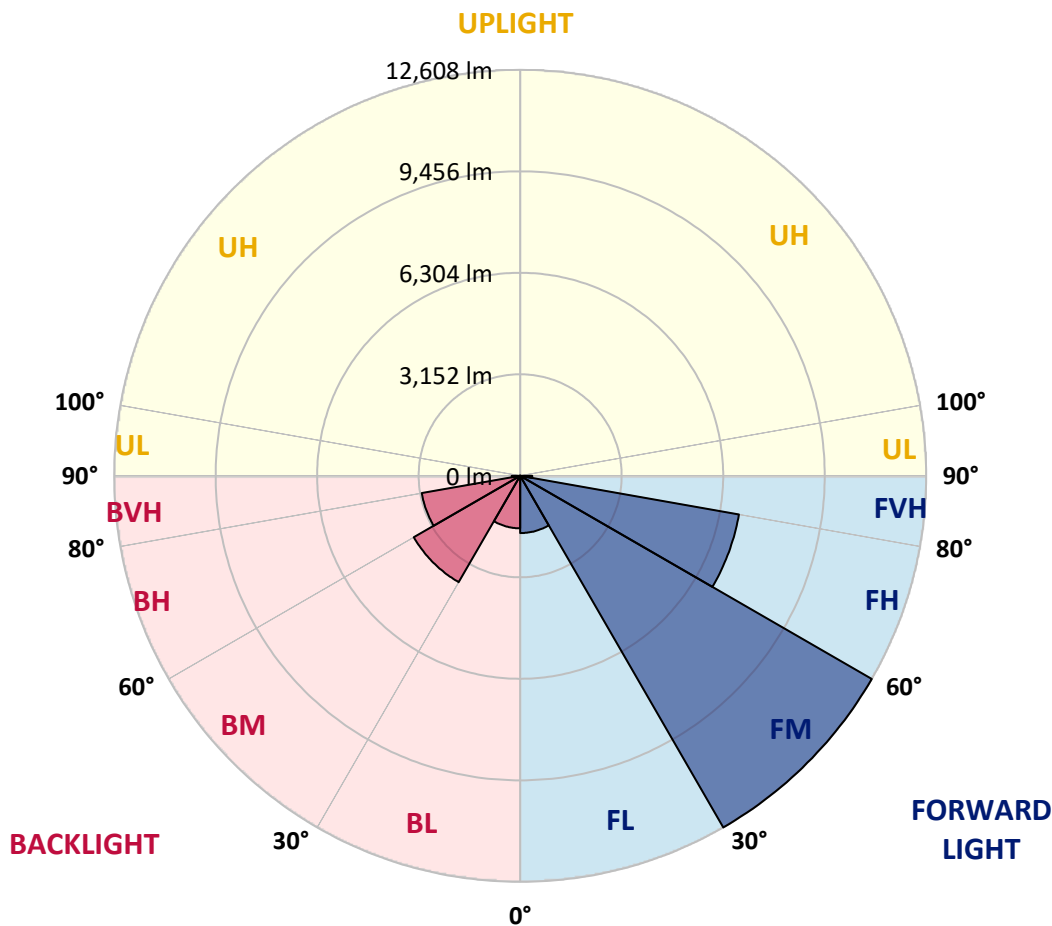
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1777.7	5.8			
FM (30°-60°)	12608.1	41.4			
FH (60°-80°)	6898.2	22.6			G3/7500
FVH (80°-90°)	374.6	1.2			G3/500
BL (0°-30°)	1629.3	5.3	B3/2500		
BM (30°-60°)	3813.9	12.5	B3/5000		
BH (60°-80°)	3103.3	10.2	B4/5000		G4/5000
BVH (80°-90°)	262.0	0.9			G3/500
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°	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8
2.5°	3781.6	3777.6	3769.6	3777.6	3781.6	3789.6	3785.6	3793.7	3789.6	3801.7	3821.7
5°	3685.4	3677.4	3673.3	3693.4	3705.4	3725.5	3733.5	3761.6	3757.6	3777.6	3809.7
7.5°	3577.1	3577.1	3573.1	3597.2	3613.2	3649.3	3677.4	3725.5	3729.5	3765.6	3801.7
10°	3492.9	3496.9	3492.9	3512.9	3537.0	3581.1	3629.2	3697.4	3701.4	3753.6	3789.6
12.5°	3460.8	3460.8	3460.8	3488.9	3521.0	3581.1	3637.3	3709.4	3717.5	3773.6	3805.7
15°	3504.9	3508.9	3500.9	3529.0	3565.1	3637.3	3689.4	3765.6	3773.6	3825.7	3845.8
17.5°	3661.3	3677.4	3657.3	3673.3	3665.3	3721.5	3769.6	3845.8	3849.8	3893.9	3901.9
20°	3970.1	3986.1	3954.1	3934.0	3861.8	3857.8	3877.9	3938.0	3938.0	3966.1	3946.0
22.5°	4447.3	4463.4	4407.2	4331.0	4158.6	4074.4	4030.3	4058.3	4054.3	4066.4	4014.2
25°	5080.9	5076.9	5008.7	4868.4	4591.7	4387.2	4278.9	4234.8	4234.8	4210.7	4146.6
27.5°	5866.9	5806.8	5686.5	5518.0	5133.1	4848.3	4615.7	4503.5	4483.4	4411.2	4290.9
30°	6705.1	6661.0	6488.5	6243.9	5798.8	5433.8	5048.9	4824.3	4812.2	4655.9	4475.4
32.5°	7691.6	7619.4	7426.9	7134.2	6600.8	6087.5	5606.3	5265.4	5245.4	4996.7	4748.1
35°	8958.8	8898.6	8525.7	8233.0	7547.2	6873.5	6304.0	5850.9	5834.9	5530.1	5213.3
37.5°	10478.7	10322.3	9961.4	9412.0	8690.1	7892.1	7170.3	6600.8	6580.8	6243.9	5842.9
40°	11834.1	11693.8	11372.9	10867.7	10093.7	9207.4	8228.9	7539.2	7519.1	7110.1	6604.8
42.5°	12836.7	12740.4	12531.9	12239.2	11685.7	11148.4	9580.4	8674.1	8638.0	8108.6	7479.0
45°	13418.2	13342.0	13221.7	13293.8	13285.8	13185.6	11192.5	10025.5	9909.2	9223.5	8453.5
47.5°	13277.8	13209.6	13257.7	13819.2	14593.1	15174.6	13069.3	11409.0	11252.6	10358.4	9492.2
50°	12263.2	12291.3	12543.9	13618.7	15355.1	16646.4	15150.6	12985.1	12776.5	11501.3	10478.7
52.5°	10414.5	10482.7	11096.2	12600.1	15270.9	17600.8	17031.4	14613.2	14336.5	12616.1	11377.0
55°	8273.1	8445.5	9239.5	10819.5	14172.1	17669.0	18451.0	16249.4	15944.6	13662.8	12158.9
57.5°	6119.6	6376.2	7294.6	8746.3	12066.7	16590.2	19160.8	17813.3	17444.4	14701.4	12985.1
60°	3881.9	4038.3	5097.0	6809.3	9235.5	13951.5	19068.5	19144.7	18823.9	15736.1	13847.2
62.5°	2478.3	2554.5	3087.9	4856.4	6456.4	10330.3	18062.0	20151.3	19934.7	16678.5	14665.3
65°	1592.1	1624.1	1896.8	2987.6	4395.2	6235.9	15555.6	20259.6	20287.6	17268.0	15170.6
67.5°	1295.3	1311.3	1411.6	1844.7	3107.9	3444.8	10835.6	18719.6	19060.5	17115.6	14998.2
70°	1179.0	1199.1	1303.3	1471.7	2406.1	2378.1	5245.4	15663.9	16221.3	16237.3	14232.2
72.5°	994.5	1022.6	1163.0	1391.5	1860.7	1876.8	2221.7	11156.4	11978.5	14512.9	13081.3
75°	830.1	846.2	966.5	1227.1	1576.0	1499.8	1560.0	5915.1	7102.1	11637.6	11858.2
77.5°	673.7	689.8	778.0	978.5	1399.6	1167.0	1227.1	2450.2	3027.7	7900.1	9692.7
80°	481.2	497.3	597.5	761.9	1058.7	1050.7	910.3	1351.4	1467.7	4270.9	6296.0
82.5°	344.9	356.9	453.2	545.4	733.9	1054.7	685.7	918.3	962.4	1892.8	2538.5
85°	232.6	232.6	312.8	360.9	473.2	665.7	553.4	621.6	649.7	898.3	685.7
87.5°	100.3	100.3	168.4	184.5	248.6	308.8	413.1	312.8	320.8	485.2	280.7
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°	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8	3849.8
2.5°	3833.8	3837.8	3845.8	3869.8	3885.9	3910.0	3922.0	3938.0	3938.0	3930.0	3934.0
5°	3825.7	3837.8	3865.8	3910.0	3938.0	3982.1	4014.2	4038.3	4046.3	4038.3	4042.3
7.5°	3821.7	3841.8	3889.9	3954.1	3994.2	4050.3	4094.4	4122.5	4142.5	4134.5	4138.5
10°	3809.7	3841.8	3901.9	3982.1	4042.3	4098.4	4138.5	4150.6	4162.6	4154.6	4150.6
12.5°	3825.7	3861.8	3926.0	4022.2	4090.4	4134.5	4146.6	4126.5	4098.4	4082.4	4078.4
15°	3857.8	3893.9	3958.1	4058.3	4118.5	4134.5	4106.5	4042.3	3978.1	3942.0	3938.0
17.5°	3901.9	3926.0	3978.1	4066.4	4114.5	4094.4	4038.3	3962.1	3914.0	3885.9	3889.9
20°	3930.0	3930.0	3970.1	4038.3	4078.4	4062.3	3994.2	3910.0	3833.8	3797.7	3785.6
22.5°	3970.1	3950.1	3954.1	4014.2	4070.4	4046.3	3901.9	3753.6	3645.3	3605.2	3601.2
25°	4078.4	4022.2	3986.1	4022.2	4154.6	3958.1	3669.3	3496.9	3396.6	3360.6	3364.6
27.5°	4210.7	4134.5	4058.3	4118.5	4222.7	3757.6	3372.6	3176.1	3115.9	3087.9	3099.9
30°	4343.1	4242.8	4142.5	4359.1	4174.6	3444.8	2991.6	2799.1	2747.0	2726.9	2743.0
32.5°	4587.7	4423.3	4303.0	4679.9	4026.2	3087.9	2578.6	2402.1	2354.0	2329.9	2321.9
35°	4996.7	4788.2	4667.9	4960.6	3817.7	2690.8	2201.6	2077.3	2025.2	1973.0	1965.0
37.5°	5586.2	5333.6	5225.3	5121.0	3525.0	2297.8	1912.9	1828.7	1752.5	1672.3	1668.2
40°	6292.0	5963.2	5883.0	5193.2	3119.9	1928.9	1712.4	1632.2	1535.9	1459.7	1463.7
42.5°	7106.1	6685.0	6512.6	5173.2	2618.7	1732.4	1568.0	1479.8	1395.6	1327.4	1323.4
45°	7976.3	7499.1	7102.1	5032.8	2121.4	1596.1	1479.8	1375.5	1291.3	1215.1	1207.1
47.5°	8938.8	8405.4	7647.5	4760.1	1752.5	1499.8	1427.6	1279.3	1203.1	1154.9	1154.9
50°	9909.2	9271.6	8148.7	4347.1	1535.9	1427.6	1351.4	1227.1	1167.0	1126.9	1126.9
52.5°	10739.3	10173.9	8561.8	3853.8	1399.6	1367.5	1299.3	1203.1	1138.9	1102.8	1098.8
55°	11545.4	11012.0	8930.7	3364.6	1287.3	1287.3	1287.3	1183.0	1110.8	1078.7	1074.7
57.5°	12347.4	11894.3	9315.7	3043.7	1187.0	1219.1	1263.2	1158.9	1086.8	1058.7	1054.7
60°	13253.7	12953.0	9760.8	2819.2	1098.8	1146.9	1231.1	1130.9	1046.7	1022.6	1018.6
62.5°	14216.2	14216.2	10165.9	2502.4	1018.6	1086.8	1183.0	1094.8	1010.6	990.5	986.5
65°	14970.1	15294.9	10426.5	2029.2	938.4	1026.6	1126.9	1046.7	962.4	958.4	950.4
67.5°	15058.3	15567.6	10262.1	1531.9	866.2	962.4	1070.7	994.5	914.3	914.3	902.3
70°	14424.7	14942.0	9748.8	1146.9	814.1	898.3	998.5	930.4	854.2	862.2	842.1
72.5°	13366.0	13494.3	8473.6	906.3	753.9	830.1	910.3	858.2	790.0	790.0	761.9
75°	11970.5	11256.7	6155.7	757.9	681.7	749.9	822.1	778.0	717.8	697.8	681.7
77.5°	9528.3	8156.8	3577.1	653.7	621.6	673.7	721.8	689.8	637.6	593.5	593.5
80°	5806.8	4780.2	1580.0	565.4	549.4	589.5	621.6	585.5	541.4	497.3	485.2
82.5°	2209.6	1844.7	765.9	485.2	481.2	505.3	529.3	493.3	461.2	441.1	381.0
85°	605.5	557.4	525.3	405.0	397.0	393.0	421.1	405.0	360.9	296.8	264.7
87.5°	228.6	260.7	284.7	248.6	264.7	244.6	280.7	256.7	228.6	148.4	132.3
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)