

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: P400068

Luminaire Tested: **ARCH-L-PA3-230-730-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400068  
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-PA3-230-730-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28808 lumens  
Efficiency: N/A  
Efficacy: 125.8 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

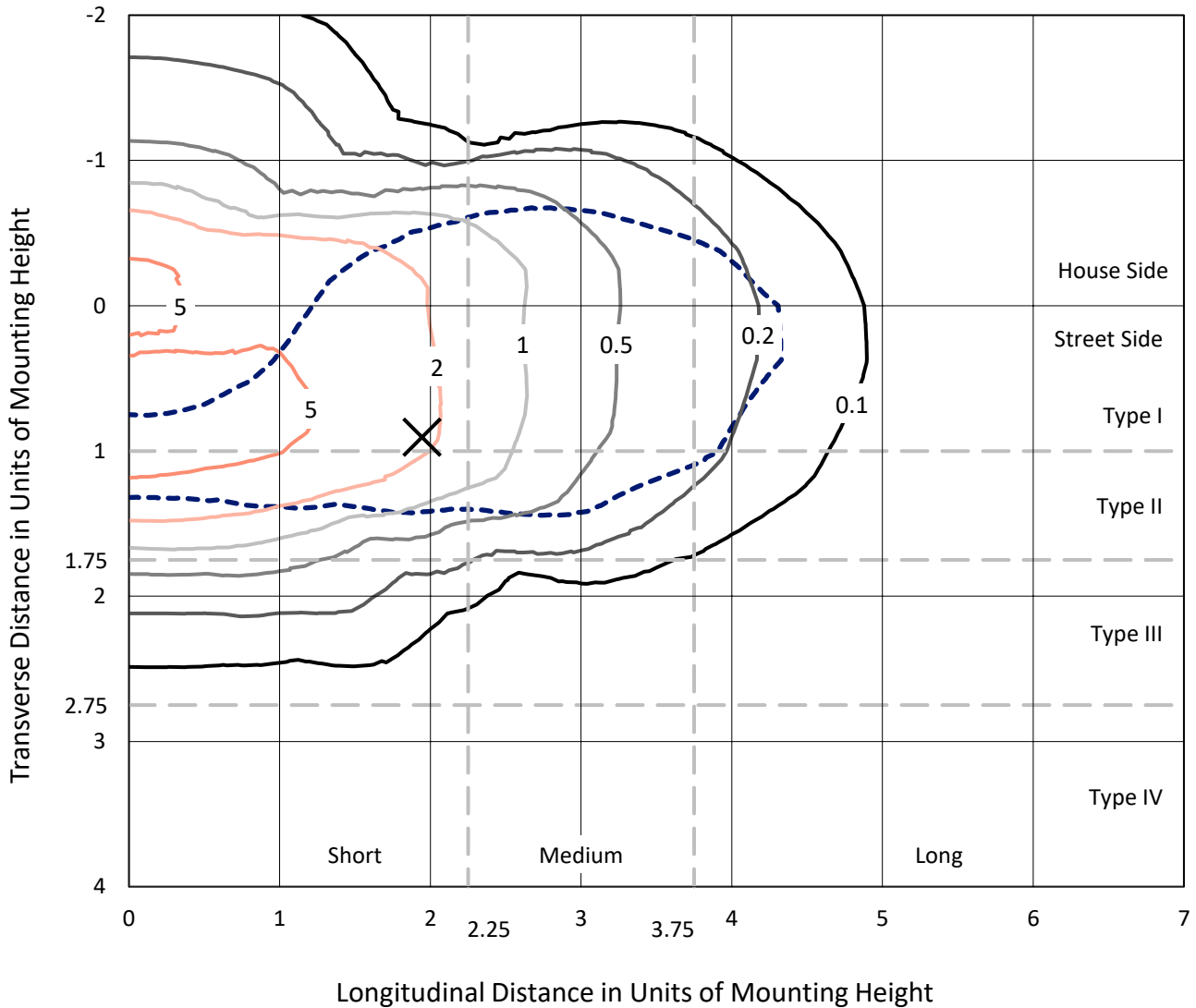
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

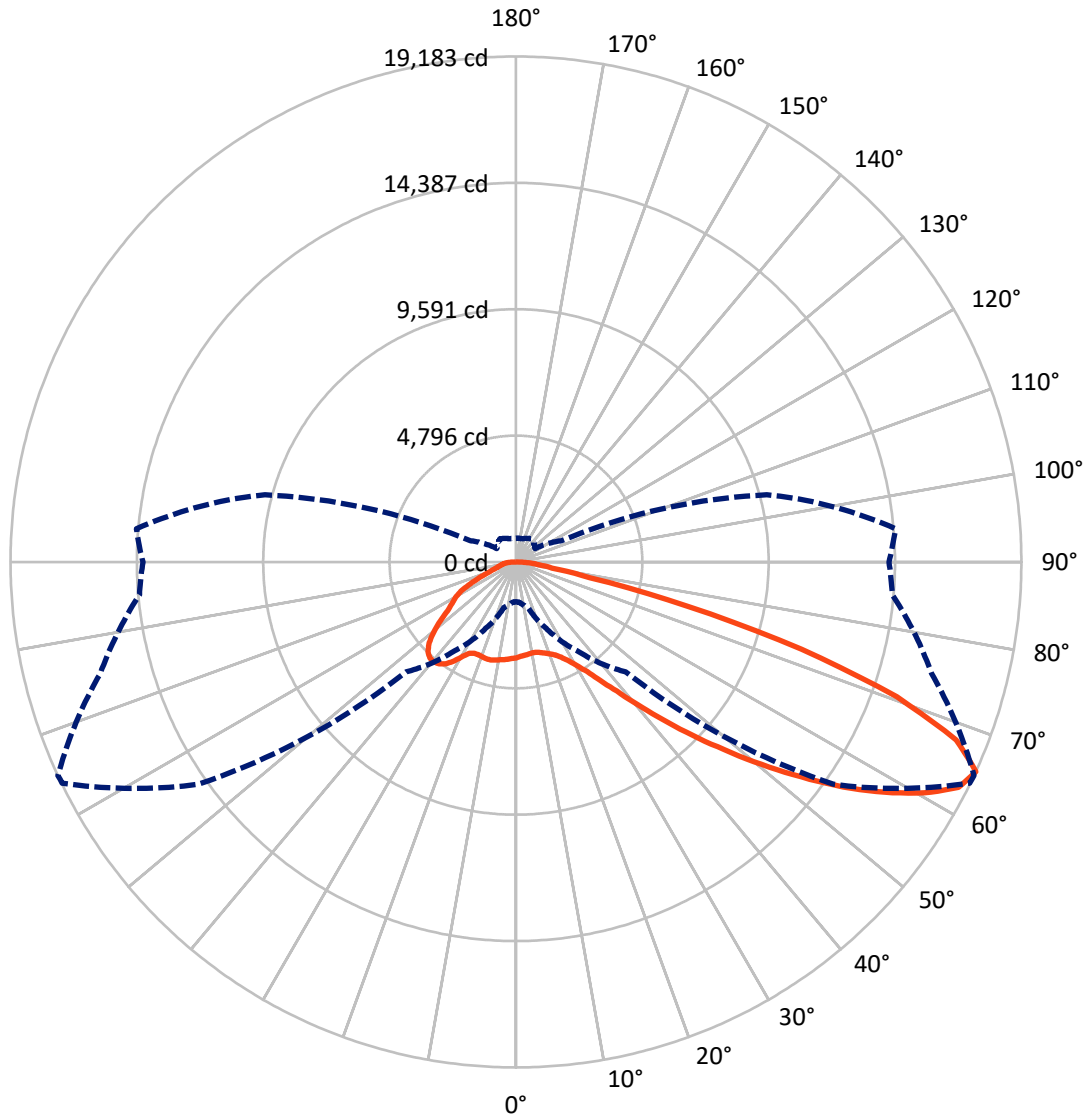
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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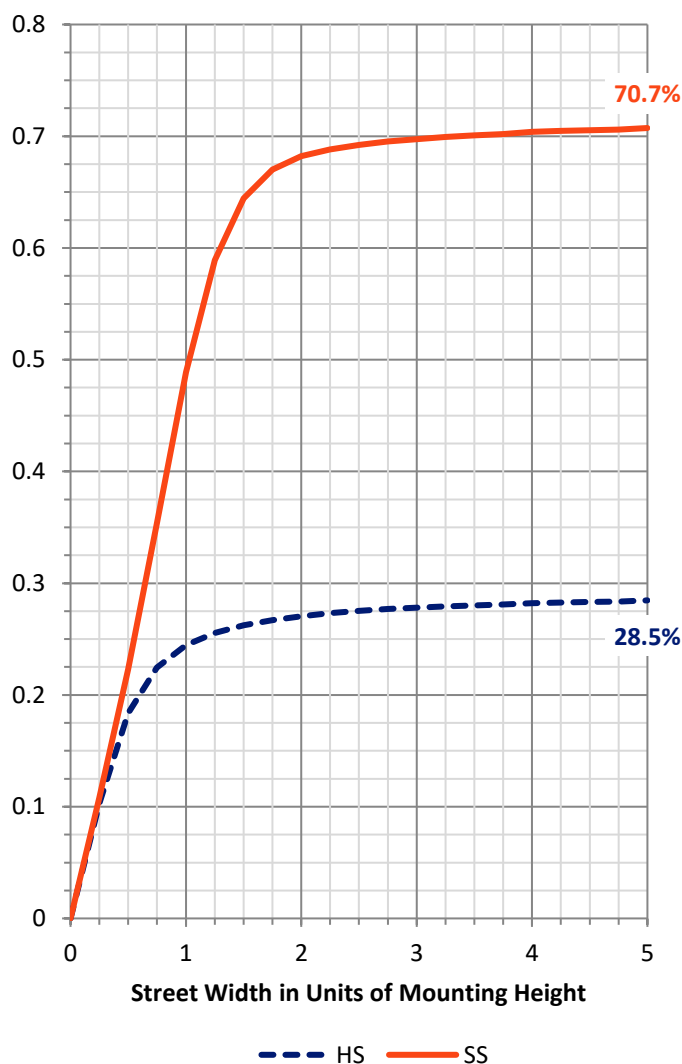
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8328.8	0.0	8328.8
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	20479.2	0.0	20479.2
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	28808.0	0.0	28808.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.8	1.2
10°-20°	1035.4	3.6
20°-30°	1839.2	6.4
30°-40°	3111.5	10.8
40°-50°	5416.5	18.8
50°-60°	6999.8	24.3
60°-70°	6125.2	21.3
70°-80°	3331.7	11.6
80°-90°	602.0	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°	28808.0	100.0
0°-180°	28808.0	100.0

**Coefficient of Utilization**



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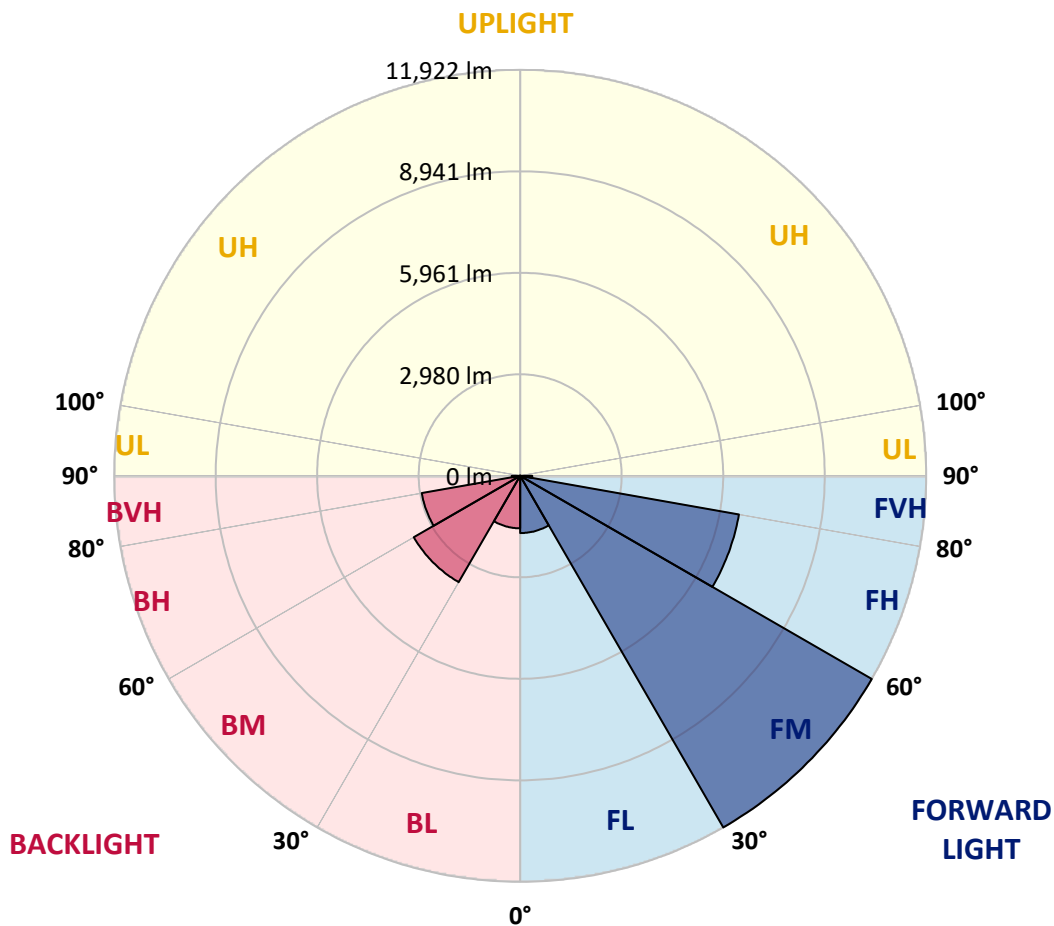
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.9	5.8			
FM (30°-60°)	11921.5	41.4			
FH (60°-80°)	6522.5	22.6			G3/7500
FVH (80°-90°)	354.2	1.2			G3/500
BL (0°-30°)	1540.5	5.3	B3/2500		
BM (30°-60°)	3606.2	12.5	B3/5000		
BH (60°-80°)	2934.3	10.2	B4/5000		G4/5000
BVH (80°-90°)	247.7	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°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
2.5°	3575.7	3571.9	3564.3	3571.9	3575.7	3583.3	3579.5	3587.1	3583.3	3594.7	3613.6
5°	3484.7	3477.1	3473.3	3492.3	3503.7	3522.6	3530.2	3556.7	3553.0	3571.9	3602.2
7.5°	3382.3	3382.3	3378.5	3401.3	3416.4	3450.6	3477.1	3522.6	3526.4	3560.5	3594.7
10°	3302.7	3306.5	3302.7	3321.7	3344.4	3386.1	3431.6	3496.1	3499.9	3549.2	3583.3
12.5°	3272.4	3272.4	3272.4	3298.9	3329.2	3386.1	3439.2	3507.5	3515.0	3568.1	3598.5
15°	3314.1	3317.9	3310.3	3336.8	3370.9	3439.2	3488.5	3560.5	3568.1	3617.4	3636.4
17.5°	3462.0	3477.1	3458.2	3473.3	3465.7	3518.8	3564.3	3636.4	3640.2	3681.9	3689.5
20°	3753.9	3769.1	3738.8	3719.8	3651.5	3647.8	3666.7	3723.6	3723.6	3750.1	3731.2
22.5°	4205.2	4220.3	4167.2	4095.2	3932.1	3852.5	3810.8	3837.3	3833.6	3844.9	3795.6
25°	4804.3	4800.5	4736.0	4603.3	4341.7	4148.3	4045.9	4004.2	4004.2	3981.4	3920.8
27.5°	5547.5	5490.6	5376.8	5217.6	4853.6	4584.3	4364.4	4258.2	4239.3	4171.0	4057.3
30°	6340.0	6298.2	6135.2	5903.9	5483.0	5137.9	4773.9	4561.6	4550.2	4402.3	4231.7
32.5°	7272.8	7204.5	7022.5	6745.7	6241.4	5756.0	5301.0	4978.7	4959.7	4724.6	4489.5
35°	8471.0	8414.1	8061.5	7784.7	7136.2	6499.2	5960.8	5532.3	5517.1	5229.0	4929.4
37.5°	9908.1	9760.2	9418.9	8899.5	8216.9	7462.3	6779.8	6241.4	6222.4	5903.9	5524.7
40°	11189.7	11057.0	10753.7	10275.9	9544.1	8706.1	7780.9	7128.7	7109.7	6722.9	6245.2
42.5°	12137.7	12046.7	11849.5	11572.7	11049.4	10541.3	9058.7	8201.8	8167.6	7667.1	7071.8
45°	12687.5	12615.5	12501.7	12570.0	12562.4	12467.6	10583.0	9479.6	9369.6	8721.2	7993.2
47.5°	12554.8	12490.3	12535.8	13066.7	13798.5	14348.3	12357.6	10787.8	10639.9	9794.3	8975.3
50°	11595.5	11622.0	11860.9	12877.1	14519.0	15739.9	14325.6	12278.0	12080.8	10875.0	9908.1
52.5°	9847.4	9911.9	10492.0	11914.0	14439.3	16642.4	16104.0	13817.5	13555.8	11929.1	10757.5
55°	7822.6	7985.6	8736.4	10230.4	13400.4	16706.9	17446.3	15364.5	15076.4	12918.8	11496.9
57.5°	5786.4	6029.0	6897.4	8270.0	11409.7	15686.9	18117.4	16843.4	16494.5	13900.9	12278.0
60°	3670.5	3818.4	4819.4	6438.5	8732.6	13191.8	18030.2	18102.3	17798.9	14879.2	13093.2
62.5°	2343.4	2415.4	2919.7	4591.9	6104.9	9767.8	17078.5	19054.0	18849.2	15770.3	13866.8
65°	1505.4	1535.7	1793.5	2824.9	4155.9	5896.3	14708.6	19156.4	19182.9	16327.7	14344.5
67.5°	1224.8	1239.9	1334.7	1744.2	2938.7	3257.2	10245.6	17700.3	18022.6	16183.6	14181.5
70°	1114.8	1133.8	1232.3	1391.6	2275.1	2248.6	4959.7	14810.9	15338.0	15353.2	13457.2
72.5°	940.4	966.9	1099.6	1315.8	1759.4	1774.6	2100.7	10548.9	11326.2	13722.7	12369.0
75°	784.9	800.1	913.8	1160.3	1490.2	1418.1	1475.0	5593.0	6715.4	11003.9	11212.5
77.5°	637.0	652.2	735.6	925.2	1323.4	1103.4	1160.3	2316.8	2862.8	7469.9	9164.9
80°	455.0	470.2	565.0	720.4	1001.0	993.5	860.7	1277.9	1387.8	4038.3	5953.2
82.5°	326.1	337.5	428.5	515.7	693.9	997.3	648.4	868.3	910.0	1789.7	2400.2
85°	219.9	219.9	295.8	341.3	447.4	629.4	523.3	587.7	614.3	849.4	648.4
87.5°	94.8	94.8	159.3	174.4	235.1	292.0	390.6	295.8	303.3	458.8	265.4
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°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
2.5°	3625.0	3628.8	3636.4	3659.1	3674.3	3697.0	3708.4	3723.6	3723.6	3716.0	3719.8
5°	3617.4	3628.8	3655.3	3697.0	3723.6	3765.3	3795.6	3818.4	3826.0	3818.4	3822.2
7.5°	3613.6	3632.6	3678.1	3738.8	3776.7	3829.8	3871.5	3898.0	3917.0	3909.4	3913.2
10°	3602.2	3632.6	3689.5	3765.3	3822.2	3875.3	3913.2	3924.6	3935.9	3928.3	3924.6
12.5°	3617.4	3651.5	3712.2	3803.2	3867.7	3909.4	3920.8	3901.8	3875.3	3860.1	3856.3
15°	3647.8	3681.9	3742.5	3837.3	3894.2	3909.4	3882.8	3822.2	3761.5	3727.4	3723.6
17.5°	3689.5	3712.2	3761.5	3844.9	3890.4	3871.5	3818.4	3746.3	3700.8	3674.3	3678.1
20°	3716.0	3716.0	3753.9	3818.4	3856.3	3841.1	3776.7	3697.0	3625.0	3590.9	3579.5
22.5°	3753.9	3735.0	3738.8	3795.6	3848.7	3826.0	3689.5	3549.2	3446.8	3408.9	3405.1
25°	3856.3	3803.2	3769.1	3803.2	3928.3	3742.5	3469.5	3306.5	3211.7	3177.6	3181.4
27.5°	3981.4	3909.4	3837.3	3894.2	3992.8	3553.0	3188.9	3003.1	2946.3	2919.7	2931.1
30°	4106.6	4011.8	3917.0	4121.7	3947.3	3257.2	2828.7	2646.7	2597.4	2578.5	2593.6
32.5°	4337.9	4182.4	4068.6	4425.1	3807.0	2919.7	2438.2	2271.3	2225.8	2203.1	2195.5
35°	4724.6	4527.5	4413.7	4690.5	3609.8	2544.3	2081.7	1964.2	1914.9	1865.6	1858.0
37.5°	5282.0	5043.1	4940.8	4842.2	3333.0	2172.7	1808.7	1729.1	1657.0	1581.2	1577.4
40°	5949.4	5638.5	5562.6	4910.4	2950.1	1823.9	1619.1	1543.3	1452.3	1380.2	1384.0
42.5°	6719.1	6321.0	6158.0	4891.5	2476.1	1638.1	1482.6	1399.2	1319.6	1255.1	1251.3
45°	7542.0	7090.7	6715.4	4758.8	2005.9	1509.2	1399.2	1300.6	1221.0	1148.9	1141.3
47.5°	8452.0	7947.7	7231.0	4500.9	1657.0	1418.1	1349.9	1209.6	1137.6	1092.1	1092.1
50°	9369.6	8766.7	7705.0	4110.4	1452.3	1349.9	1277.9	1160.3	1103.4	1065.5	1065.5
52.5°	10154.6	9619.9	8095.6	3644.0	1323.4	1293.0	1228.6	1137.6	1076.9	1042.8	1039.0
55°	10916.7	10412.4	8444.4	3181.4	1217.2	1217.2	1217.2	1118.6	1050.3	1020.0	1016.2
57.5°	11675.1	11246.6	8808.4	2878.0	1122.4	1152.7	1194.4	1095.8	1027.6	1001.0	997.3
60°	12532.0	12247.6	9229.3	2665.7	1039.0	1084.5	1164.1	1069.3	989.7	966.9	963.1
62.5°	13442.1	13442.1	9612.3	2366.1	963.1	1027.6	1118.6	1035.2	955.5	936.6	932.8
65°	14154.9	14462.1	9858.8	1918.7	887.3	970.7	1065.5	989.7	910.0	906.3	898.7
67.5°	14238.4	14719.9	9703.3	1448.5	819.0	910.0	1012.4	940.4	864.5	864.5	853.2
70°	13639.3	14128.4	9218.0	1084.5	769.7	849.4	944.2	879.7	807.7	815.2	796.3
72.5°	12638.2	12759.5	8012.2	857.0	712.9	784.9	860.7	811.5	747.0	747.0	720.4
75°	11318.6	10643.7	5820.5	716.7	644.6	709.1	777.3	735.6	678.7	659.8	644.6
77.5°	9009.4	7712.6	3382.3	618.1	587.7	637.0	682.5	652.2	602.9	561.2	561.2
80°	5490.6	4519.9	1494.0	534.6	519.5	557.4	587.7	553.6	511.9	470.2	458.8
82.5°	2089.3	1744.2	724.2	458.8	455.0	477.8	500.5	466.4	436.1	417.1	360.2
85°	572.6	527.1	496.7	383.0	375.4	371.6	398.1	383.0	341.3	280.6	250.3
87.5°	216.1	246.5	269.2	235.1	250.3	231.3	265.4	242.7	216.1	140.3	125.1
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)