

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: P399643

Luminaire Tested: **ARCH-L-PA3-170-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-170-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26301 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

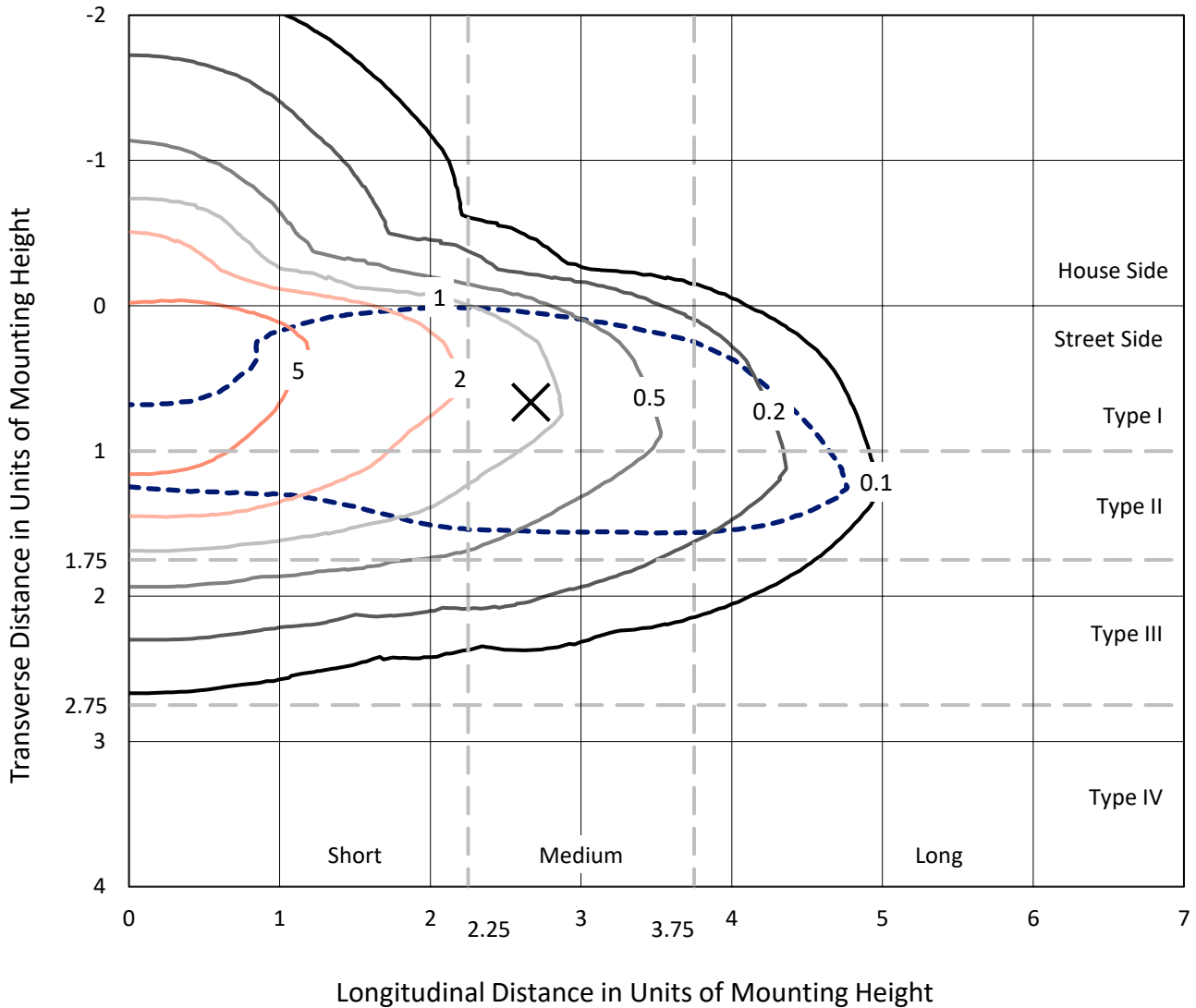
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

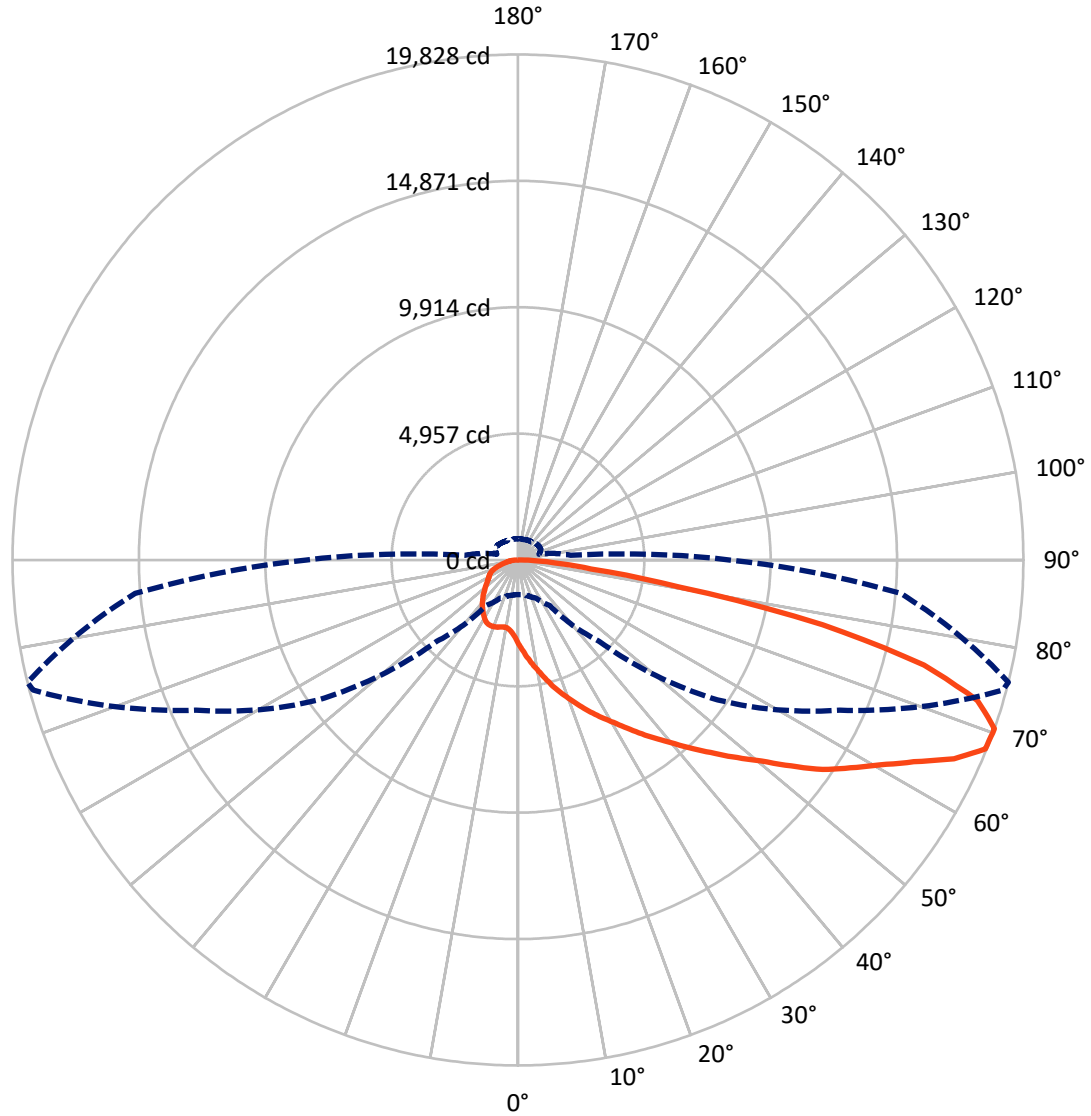
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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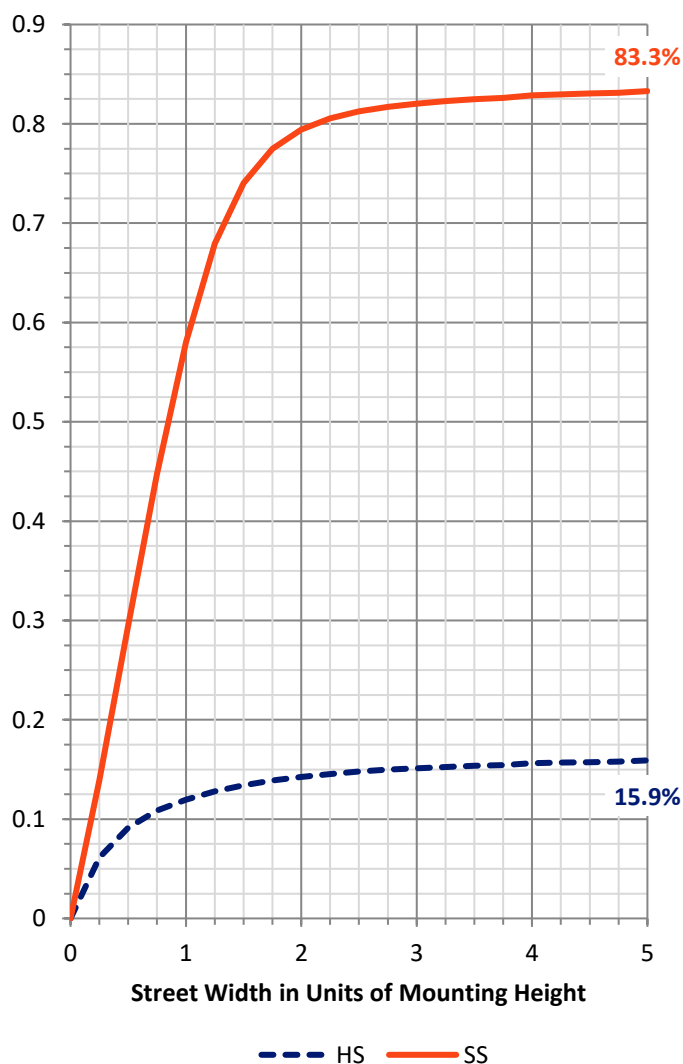
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4293.9	0.0	4293.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22007.1	0.0	22007.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	26301.0	0.0	26301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	1.3
10°-20°	1161.5	4.4
20°-30°	2078.1	7.9
30°-40°	3361.6	12.8
40°-50°	4863.0	18.5
50°-60°	5566.0	21.2
60°-70°	5120.1	19.5
70°-80°	3166.2	12.0
80°-90°	642.9	2.4
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°	26301.0	100.0
0°-180°	26301.0	100.0

Coefficient of Utilization



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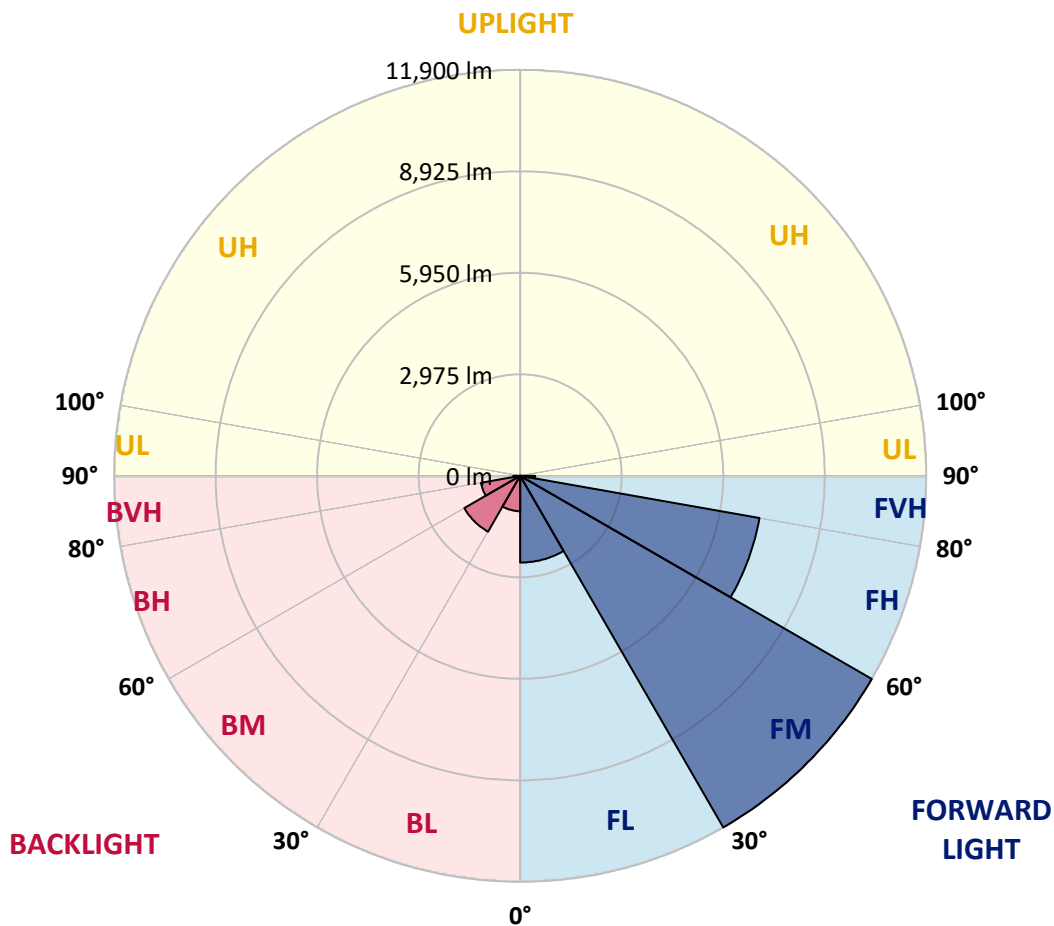
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.2	9.7			
FM (30°-60°)	11900.0	45.2			
FH (60°-80°)	7121.6	27.1			G3/7500
FVH (80°-90°)	441.4	1.7			G3/500
BL (0°-30°)	1037.1	3.9	B3/2500		
BM (30°-60°)	1890.6	7.2	B2/2500		
BH (60°-80°)	1164.7	4.4	B3/2500		G3/2500
BVH (80°-90°)	201.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1
2.5°	4191.7	4160.6	4157.1	4108.7	4063.8	3942.7	3856.2	3704.1	3551.9	3548.4	3396.3
5°	4845.4	4814.3	4797.0	4738.2	4662.1	4503.0	4347.4	4112.2	3852.8	3835.5	3548.4
7.5°	5288.1	5260.4	5225.8	5201.6	5129.0	4987.2	4797.0	4516.8	4160.6	4126.0	3724.8
10°	5585.5	5568.2	5561.3	5544.0	5499.0	5384.9	5201.6	4904.2	4468.4	4430.4	3911.6
12.5°	5713.5	5706.6	5737.7	5786.1	5803.4	5758.4	5582.1	5301.9	4807.3	4765.8	4136.4
15°	5564.8	5571.7	5651.2	5817.2	5993.6	6090.5	5986.7	5713.5	5191.2	5132.4	4399.2
17.5°	5495.6	5506.0	5561.3	5720.4	5969.4	6270.3	6318.7	6104.3	5561.3	5478.3	4675.9
20°	5616.6	5630.5	5672.0	5796.5	5969.4	6291.0	6543.5	6477.8	5924.4	5838.0	4942.2
22.5°	5924.4	5941.7	5938.3	6017.8	6135.4	6356.8	6668.0	6830.6	6304.9	6208.0	5218.9
25°	6581.6	6567.7	6450.1	6412.1	6443.2	6585.0	6834.0	7169.5	6702.6	6605.8	5509.4
27.5°	7473.9	7456.6	7242.1	7048.5	6875.5	6937.8	7069.2	7442.7	7107.3	6996.6	5786.1
30°	8428.4	8407.7	8158.6	7843.9	7460.0	7370.1	7352.8	7681.4	7515.4	7397.8	6080.1
32.5°	9358.8	9341.5	9075.2	8708.6	8179.4	7909.6	7743.6	7947.7	7978.8	7864.7	6401.7
35°	10206.1	10206.1	9977.8	9542.1	8943.7	8535.6	8262.4	8276.2	8511.4	8380.0	6768.3
37.5°	10960.1	10956.6	10707.6	10278.7	9704.6	9237.7	8898.8	8674.0	9019.8	8905.7	7152.2
40°	11558.4	11534.2	11350.9	10977.3	10399.8	9936.3	9593.9	9140.9	9587.0	9483.3	7560.3
42.5°	11994.1	11980.3	11855.8	11530.7	10980.8	10545.0	10309.8	9728.8	10230.3	10126.5	8037.6
45°	12163.6	12191.3	12191.3	11883.5	11447.7	11050.0	10946.2	10375.6	10925.5	10821.7	8549.5
47.5°	11890.4	11963.0	12111.7	12132.5	11748.6	11478.8	11513.4	11025.8	11641.4	11586.0	9109.7
50°	11036.1	11171.0	11496.1	12084.1	11869.6	11807.4	11997.6	11689.8	12409.2	12391.9	9791.1
52.5°	8833.1	9161.6	10175.0	11229.8	11786.6	11959.6	12478.3	12436.8	13398.3	13426.0	10679.9
55°	6775.2	6899.7	8072.2	9867.2	11278.2	11911.1	12800.0	13166.6	14470.4	14505.0	11496.1
57.5°	5478.3	5561.3	6201.1	8072.2	10119.6	11648.3	13052.5	13592.0	15293.6	15383.5	12222.4
60°	4340.4	4461.5	4890.3	6176.9	8497.6	11015.4	13228.8	14065.8	16179.0	16313.8	13090.5
62.5°	3226.8	3285.6	3690.2	4575.6	6726.8	9877.5	13135.5	14581.1	17264.9	17427.5	14135.0
65°	2296.5	2348.3	2635.4	3254.5	4973.4	8338.5	12592.5	14965.0	18627.6	18793.6	15186.4
67.5°	1718.9	1739.6	1902.2	2275.7	3351.3	6477.8	11492.7	14899.3	19623.6	19772.4	15608.3
70°	1359.2	1366.1	1445.7	1646.3	2178.9	4509.9	9566.3	13934.4	19696.3	19827.7	15075.7
72.5°	1127.5	1124.0	1169.0	1265.8	1518.3	2853.3	7086.5	12142.9	18762.5	18852.4	13588.5
75°	930.3	937.3	968.4	1023.7	1158.6	1881.4	4592.9	9687.3	16552.5	16455.6	11402.7
77.5°	781.6	778.2	792.0	840.4	937.3	1352.3	2690.7	7000.0	12267.4	12219.0	7484.2
80°	629.5	636.4	657.1	698.6	788.5	1030.6	1590.9	4368.1	6581.6	6405.2	3576.1
82.5°	421.9	487.7	529.2	577.6	681.3	760.9	1009.9	2220.4	2943.2	2898.2	1622.0
85°	200.6	266.3	394.3	449.6	553.4	477.3	684.8	1058.3	1473.3	1456.0	584.5
87.5°	41.5	41.5	211.0	252.5	342.4	204.1	380.4	460.0	712.5	667.5	238.6
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°	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1
2.5°	3306.3	3213.0	3026.2	2877.5	2725.3	2638.9	2531.6	2479.8	2469.4	2441.7	2462.5
5°	3365.1	3181.8	2829.1	2597.3	2441.7	2365.6	2327.6	2313.7	2310.3	2303.4	2303.4
7.5°	3444.7	3164.5	2704.6	2469.4	2369.1	2344.9	2355.3	2376.0	2379.5	2386.4	2382.9
10°	3541.5	3168.0	2635.4	2438.3	2389.8	2393.3	2427.9	2455.5	2469.4	2479.8	2476.3
12.5°	3676.4	3209.5	2625.0	2459.0	2438.3	2452.1	2486.7	2514.3	2528.2	2531.6	2531.6
15°	3852.8	3296.0	2649.2	2504.0	2486.7	2497.1	2517.8	2528.2	2531.6	2528.2	2528.2
17.5°	4046.5	3399.7	2683.8	2531.6	2504.0	2493.6	2486.7	2476.3	2455.5	2441.7	2441.7
20°	4233.2	3493.1	2701.1	2528.2	2479.8	2438.3	2396.8	2344.9	2310.3	2282.6	2282.6
22.5°	4420.0	3579.6	2701.1	2490.1	2414.0	2334.5	2248.0	2165.0	2113.2	2078.6	2078.6
25°	4617.1	3662.6	2680.4	2424.4	2310.3	2196.2	2078.6	1974.8	1922.9	1888.4	1881.4
27.5°	4783.1	3711.0	2625.0	2331.0	2182.3	2037.1	1902.2	1795.0	1756.9	1725.8	1725.8
30°	4959.5	3742.1	2521.3	2210.0	2037.1	1871.1	1732.7	1646.3	1604.8	1559.8	1556.3
32.5°	5156.7	3762.9	2403.7	2082.0	1888.4	1712.0	1594.4	1525.2	1435.3	1386.9	1379.9
35°	5384.9	3790.5	2279.2	1936.8	1739.6	1580.5	1511.4	1397.2	1310.8	1269.3	1265.8
37.5°	5627.0	3811.3	2144.3	1808.8	1604.8	1494.1	1424.9	1290.0	1213.9	1151.7	1144.8
40°	5882.9	3811.3	2005.9	1684.3	1497.5	1456.0	1324.6	1203.6	1075.6	1044.5	1037.6
42.5°	6166.5	3804.4	1867.6	1563.3	1397.2	1369.6	1265.8	1137.9	1072.1	1044.5	1037.6
45°	6467.4	3780.2	1736.2	1424.9	1293.5	1238.2	1158.6	1124.0	1096.4	1096.4	1096.4
47.5°	6809.8	3759.4	1587.5	1300.4	1217.4	1155.1	1096.4	1075.6	1072.1	1082.5	1092.9
50°	7249.1	3752.5	1463.0	1210.5	1158.6	1086.0	1079.1	1061.8	1065.2	1065.2	1065.2
52.5°	7781.7	3690.2	1345.4	1144.8	1099.8	1013.3	1034.1	1051.4	1058.3	1054.8	1051.4
55°	8172.5	3579.6	1245.1	1099.8	1058.3	985.7	1013.3	1041.0	1047.9	1037.6	1037.6
57.5°	8525.3	3423.9	1165.5	1065.2	1030.6	968.4	999.5	1027.2	1020.3	1016.8	1013.3
60°	8929.9	3275.2	1103.3	1047.9	1003.0	961.5	989.1	1006.4	996.1	989.1	985.7
62.5°	9369.1	3130.0	1058.3	1047.9	982.2	958.0	978.8	985.7	964.9	958.0	958.0
65°	9573.2	2901.7	1009.9	1047.9	971.8	951.1	958.0	951.1	930.3	930.3	926.9
67.5°	9237.7	2524.7	947.6	1034.1	985.7	940.7	926.9	916.5	892.3	892.3	885.4
70°	8310.8	2075.1	857.7	989.1	989.1	937.3	885.4	861.2	833.5	843.9	830.0
72.5°	7100.3	1646.3	747.0	913.0	968.4	933.8	840.4	802.4	778.2	788.5	767.8
75°	5751.5	1276.2	615.6	792.0	916.5	916.5	795.5	743.6	715.9	715.9	691.7
77.5°	3666.0	944.2	501.5	657.1	823.1	892.3	757.4	677.9	636.4	626.0	608.7
80°	1815.7	664.0	411.6	522.2	702.1	837.0	729.7	601.8	543.0	522.2	491.1
82.5°	964.9	460.0	328.6	408.1	560.3	754.0	695.2	518.8	446.1	415.0	380.4
85°	432.3	283.6	262.8	311.3	425.4	619.1	626.0	425.4	342.4	408.1	300.9
87.5°	159.1	128.0	128.0	159.1	245.6	259.4	442.7	273.2	217.9	148.7	117.6
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)