

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: P236824

Luminaire Tested: **ARCH-L-AF72-110-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14987.1 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

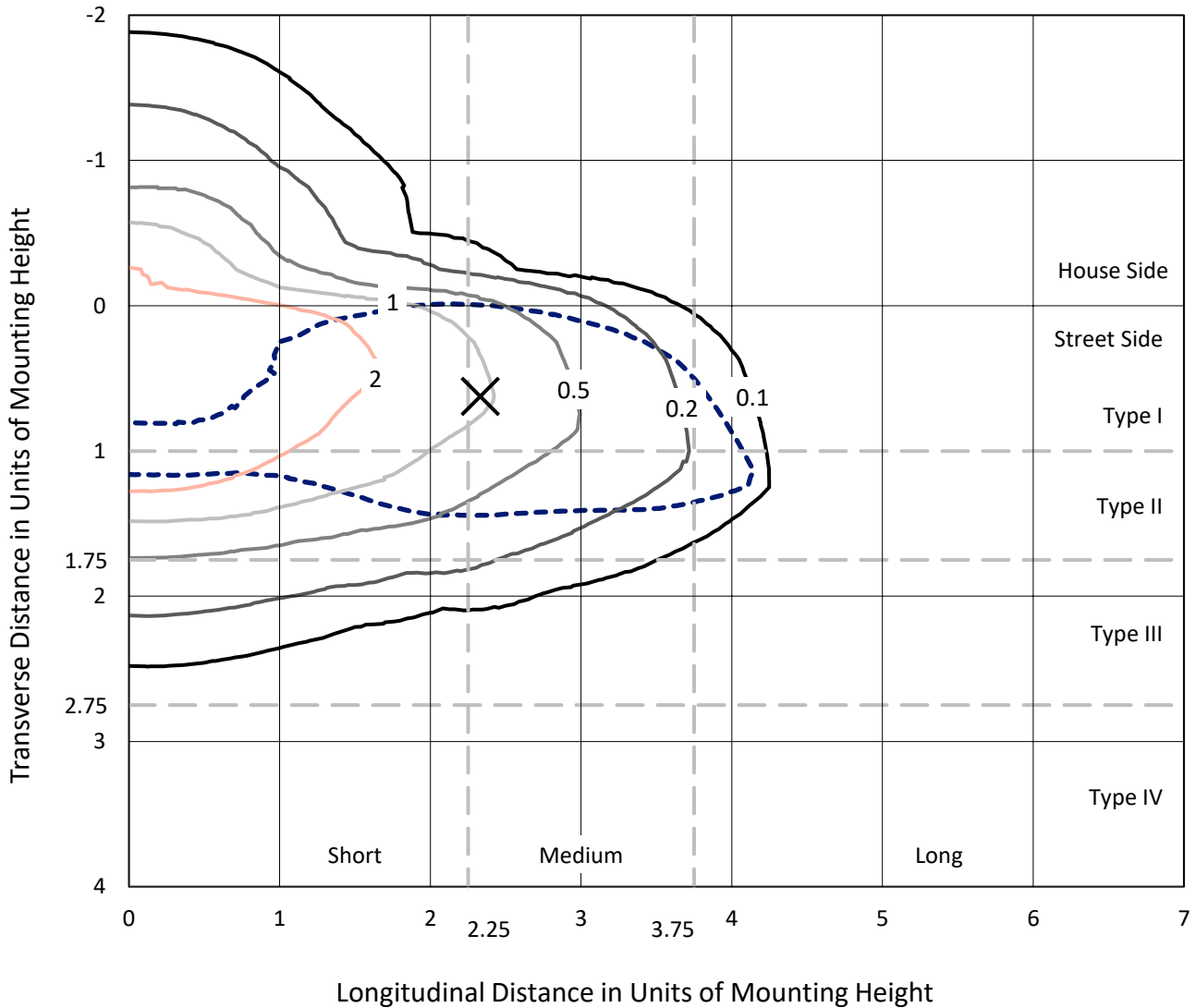
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P236824
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2R-7030

Iso-Footcandle Lines of Horizontal Illumination

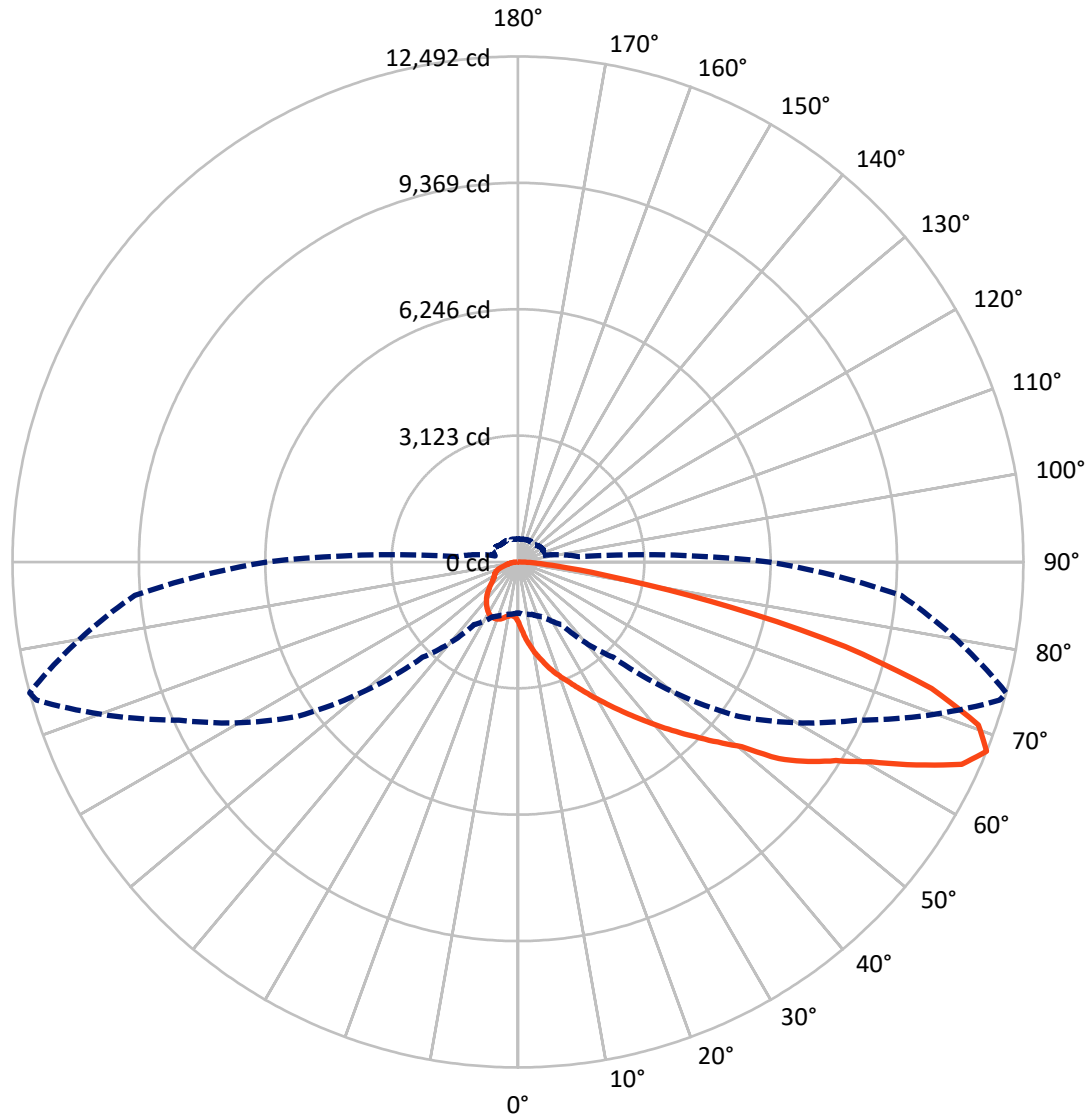
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

REPORT NUMBER: P236824
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2R-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P236824
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2R-7030

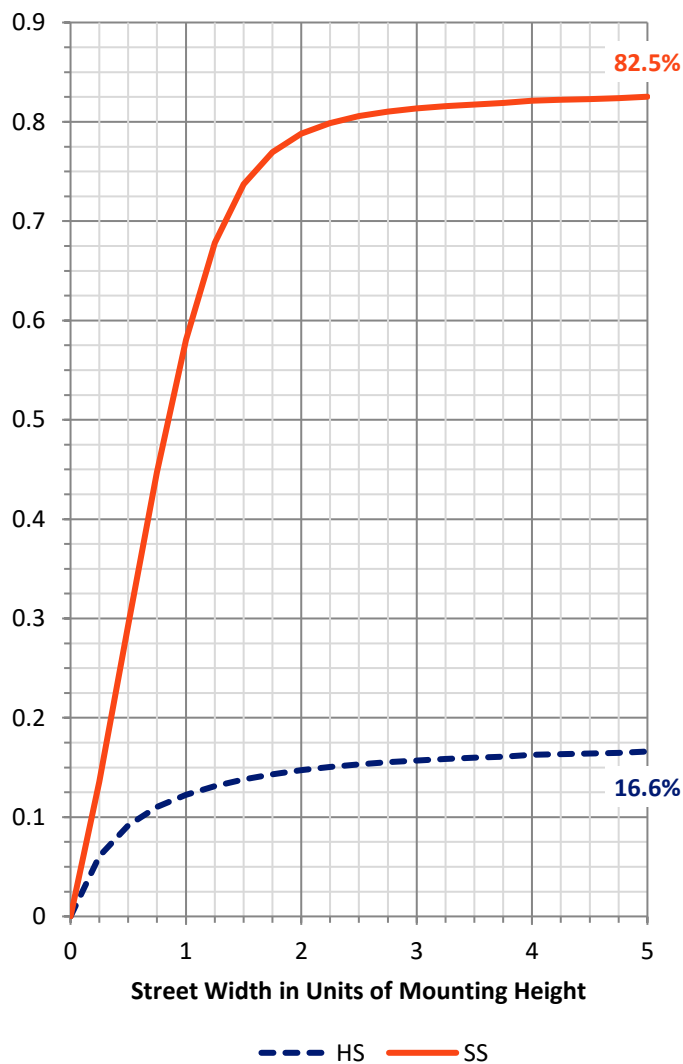
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2559.3	0.0	2559.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12427.8	0.0	12427.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	14987.1	0.0	14987.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.2
10°-20°	630.5	4.2
20°-30°	1150.0	7.7
30°-40°	1887.6	12.6
40°-50°	2729.7	18.2
50°-60°	3217.0	21.5
60°-70°	3126.1	20.9
70°-80°	1737.7	11.6
80°-90°	334.1	2.2
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°	14987.1	100.0
0°-180°	14987.1	100.0

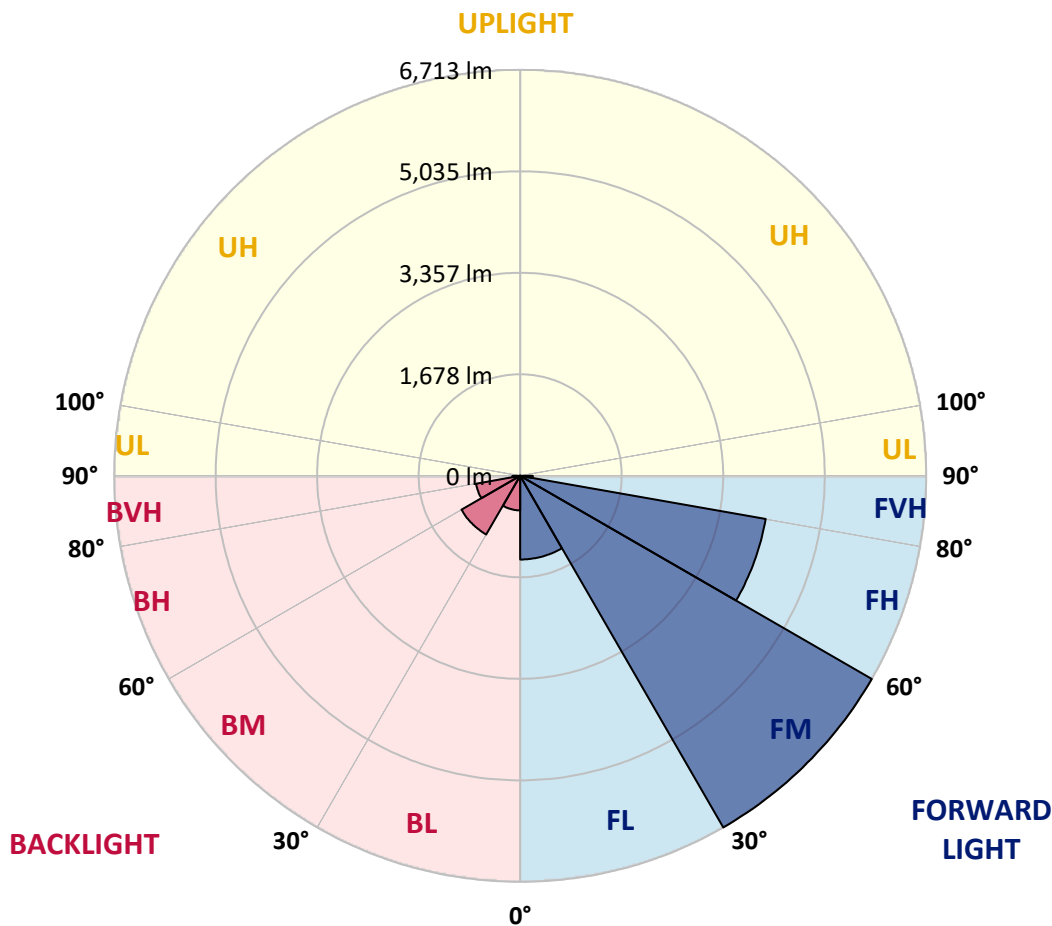


REPORT NUMBER: P236824
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2R-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.7	9.2			
FM (30°-60°)	6713.4	44.8			
FH (60°-80°)	4122.8	27.5			G2/5000
FVH (80°-90°)	207.9	1.4			G2/225
BL (0°-30°)	571.2	3.8	B2/1000		
BM (30°-60°)	1120.8	7.5	B2/2500		
BH (60°-80°)	741.0	4.9	B2/1000		G2/1000
BVH (80°-90°)	126.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





REPORT NUMBER: P236824

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2R-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1
2.5°	2105.4	2111.7	2099.2	2071.0	2030.2	1955.0	1889.2	1773.3	1669.9	1657.4	1547.7
5°	2475.2	2481.4	2465.8	2431.2	2387.5	2305.9	2215.1	2064.7	1898.6	1867.4	1635.5
7.5°	2728.9	2732.0	2713.2	2678.8	2644.3	2562.9	2472.0	2302.8	2099.2	2074.1	1748.2
10°	2945.1	2951.3	2926.3	2904.3	2866.8	2785.3	2691.3	2512.8	2302.8	2268.3	1864.2
12.5°	3145.6	3151.9	3136.2	3117.3	3104.8	3029.6	2926.3	2713.2	2487.7	2450.0	2002.0
15°	3280.3	3286.6	3289.7	3314.8	3330.4	3277.2	3173.8	2942.0	2688.3	2653.7	2165.0
17.5°	3242.7	3258.4	3305.4	3396.3	3493.3	3496.6	3411.9	3167.5	2885.5	2848.0	2331.0
20°	3133.1	3145.6	3202.0	3339.8	3530.9	3640.6	3634.4	3396.3	3070.4	3029.6	2484.5
22.5°	3223.9	3239.6	3239.6	3324.2	3512.1	3715.8	3797.3	3621.8	3255.3	3217.6	2638.1
25°	3612.4	3621.8	3556.1	3521.5	3590.5	3778.5	3932.0	3866.2	3480.9	3437.0	2804.1
27.5°	4154.5	4138.7	4057.4	3919.4	3844.3	3894.4	4051.0	4098.1	3740.9	3687.6	2976.4
30°	4693.3	4684.0	4590.0	4405.2	4235.9	4129.4	4182.7	4304.9	4022.8	3960.2	3142.6
32.5°	5197.8	5182.0	5078.7	4862.5	4671.4	4474.0	4370.6	4492.8	4323.6	4251.6	3327.3
35°	5661.5	5620.8	5517.4	5291.8	5094.3	4906.4	4652.6	4671.4	4649.4	4574.2	3530.9
37.5°	6037.4	6006.1	5893.3	5683.3	5473.5	5294.9	5028.5	4875.0	5000.4	4928.3	3765.9
40°	6369.5	6335.1	6219.1	6009.3	5815.0	5645.8	5435.8	5122.5	5395.1	5313.8	4029.2
42.5°	6620.1	6595.1	6501.2	6294.3	6106.4	5952.9	5849.4	5435.8	5805.6	5727.3	4317.4
45°	6754.9	6729.9	6679.7	6513.6	6341.3	6222.4	6231.7	5808.7	6234.8	6169.0	4659.0
47.5°	6588.9	6607.7	6651.4	6620.1	6513.6	6457.2	6573.1	6194.1	6714.2	6651.4	5028.5
50°	6143.9	6162.8	6338.2	6554.4	6591.9	6660.9	6880.2	6638.9	7221.7	7171.6	5486.0
52.5°	5050.5	5153.9	5639.5	6156.4	6510.5	6795.6	7221.7	7300.0	8077.1	8077.1	6294.3
55°	3816.1	3906.9	4461.5	5363.9	6194.1	6808.2	7472.4	7748.1	8694.3	8706.8	6717.3
57.5°	3092.4	3148.8	3421.4	4345.6	5529.8	6651.4	7770.0	8133.5	9208.1	9264.5	7262.5
60°	2509.5	2541.0	2719.5	3361.8	4611.9	6228.6	7983.0	8684.9	9941.2	10019.5	7958.0
62.5°	2017.7	2049.0	2168.0	2553.5	3618.6	5435.8	7945.5	9258.2	10918.8	11047.2	8869.6
65°	1610.4	1644.9	1723.2	1961.3	2681.9	4452.1	7560.0	9552.7	11930.7	12056.0	9474.4
67.5°	1256.4	1287.7	1340.9	1497.6	1889.2	3330.4	6648.3	9242.6	12385.0	12491.5	9505.8
70°	949.4	965.0	1008.9	1109.1	1350.3	2212.0	5204.0	8202.4	11977.8	12074.9	8879.1
72.5°	736.3	733.1	758.1	808.3	943.0	1522.6	3449.6	6670.3	10589.7	10690.0	7575.7
75°	601.6	598.4	614.0	629.8	683.0	1021.3	2036.5	5022.3	8547.1	8355.9	5683.3
77.5°	507.5	504.4	520.1	523.3	545.2	704.9	1159.2	3305.4	5702.1	5373.3	3202.0
80°	429.3	426.1	444.9	451.1	466.9	516.9	667.3	1789.0	2863.5	2713.2	1529.0
82.5°	322.8	335.2	369.8	385.3	404.2	382.2	413.5	789.5	1328.4	1268.9	664.2
85°	156.7	184.8	278.8	310.2	332.1	241.3	282.0	372.8	598.4	570.3	269.5
87.5°	53.2	47.0	166.1	197.4	216.3	109.7	156.7	206.8	247.5	225.6	84.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P236824

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2R-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1
2.5°	1500.7	1453.7	1384.9	1331.6	1297.1	1268.9	1256.4	1253.2	1246.9	1243.8	1243.8
5°	1532.1	1447.4	1340.9	1284.6	1268.9	1256.4	1262.6	1265.8	1265.8	1265.8	1265.8
7.5°	1579.1	1460.0	1331.6	1293.9	1290.8	1290.8	1309.6	1319.0	1325.4	1325.4	1325.4
10°	1641.7	1482.0	1347.1	1315.9	1325.4	1331.6	1353.5	1366.1	1372.3	1375.5	1378.6
12.5°	1726.3	1529.0	1378.6	1353.5	1366.1	1369.1	1384.9	1391.1	1397.3	1400.4	1400.4
15°	1839.2	1597.9	1428.7	1397.3	1400.4	1397.3	1397.3	1391.1	1387.9	1387.9	1394.2
17.5°	1955.0	1663.7	1472.6	1428.7	1416.1	1391.1	1372.3	1356.7	1347.1	1340.9	1344.1
20°	2071.0	1723.2	1497.6	1434.9	1400.4	1359.7	1325.4	1303.4	1290.8	1278.4	1284.6
22.5°	2187.0	1779.7	1507.0	1416.1	1366.1	1306.5	1268.9	1234.4	1206.2	1187.4	1190.6
25°	2315.3	1842.2	1507.0	1394.2	1319.0	1256.4	1209.4	1153.0	1112.3	1096.5	1102.9
27.5°	2443.8	1895.5	1491.4	1353.5	1265.8	1203.1	1134.2	1068.3	1043.3	1033.9	1037.1
30°	2572.3	1936.2	1456.9	1303.4	1209.4	1140.4	1049.6	1005.7	974.4	949.4	952.4
32.5°	2700.7	1964.5	1409.9	1240.7	1149.9	1062.1	986.9	936.8	880.4	849.1	852.2
35°	2848.0	1986.4	1353.5	1178.1	1084.1	993.1	936.8	855.3	795.9	770.8	764.5
37.5°	3001.5	2002.0	1293.9	1109.1	1018.3	943.0	886.6	786.4	730.0	695.6	692.3
40°	3167.5	2008.3	1221.8	1037.1	955.6	911.8	820.9	745.7	648.6	626.6	626.6
42.5°	3364.9	2005.1	1149.9	965.0	886.6	839.6	773.9	739.3	654.8	632.8	620.4
45°	3590.5	2005.1	1071.5	880.4	817.7	748.8	720.6	698.7	642.2	651.7	658.0
47.5°	3847.4	1998.9	977.6	811.5	761.3	701.8	686.1	639.1	617.2	623.5	629.8
50°	4201.4	2008.3	892.9	755.1	720.6	670.6	651.7	626.6	617.2	620.4	617.2
52.5°	4693.3	1976.9	811.5	720.6	689.3	623.5	623.5	620.4	623.5	620.4	620.4
55°	4962.8	1908.0	751.9	701.8	667.3	601.6	614.0	620.4	626.6	623.5	623.5
57.5°	5345.0	1861.0	704.9	689.3	654.8	595.3	607.8	620.4	623.5	620.4	620.4
60°	5796.2	1829.8	673.6	692.3	645.4	595.3	611.0	620.4	617.2	614.0	614.0
62.5°	6319.4	1817.2	651.7	701.8	636.0	598.4	611.0	620.4	607.8	604.6	604.6
65°	6516.8	1704.3	623.5	708.1	642.2	598.4	607.8	611.0	595.3	592.1	589.0
67.5°	6212.9	1510.2	582.8	695.6	661.1	598.4	598.4	595.3	576.5	573.4	567.0
70°	5533.0	1253.2	520.1	654.8	673.6	601.6	585.8	570.3	551.4	551.4	538.8
72.5°	4530.4	986.9	438.6	582.8	664.2	611.0	560.8	538.8	516.9	516.9	504.4
75°	3264.6	736.3	350.9	485.6	623.5	607.8	529.5	501.3	476.3	473.1	457.5
77.5°	1861.0	516.9	285.0	379.1	554.6	592.1	501.3	457.5	429.3	419.9	410.4
80°	955.6	347.8	231.8	297.6	460.5	548.3	479.3	407.3	376.0	360.3	344.6
82.5°	454.3	231.8	178.6	219.3	347.8	479.3	451.1	350.9	316.5	297.6	278.8
85°	203.7	137.8	119.1	141.0	247.5	372.8	397.9	288.2	247.5	310.2	228.7
87.5°	65.8	62.8	62.8	65.8	119.1	162.9	291.4	213.0	197.4	162.9	137.8
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)