

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: P236876

Luminaire Tested: **ARCH-L-AF72-230-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-230-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26888 lumens
Efficiency: N/A
Efficacy: 117.4 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

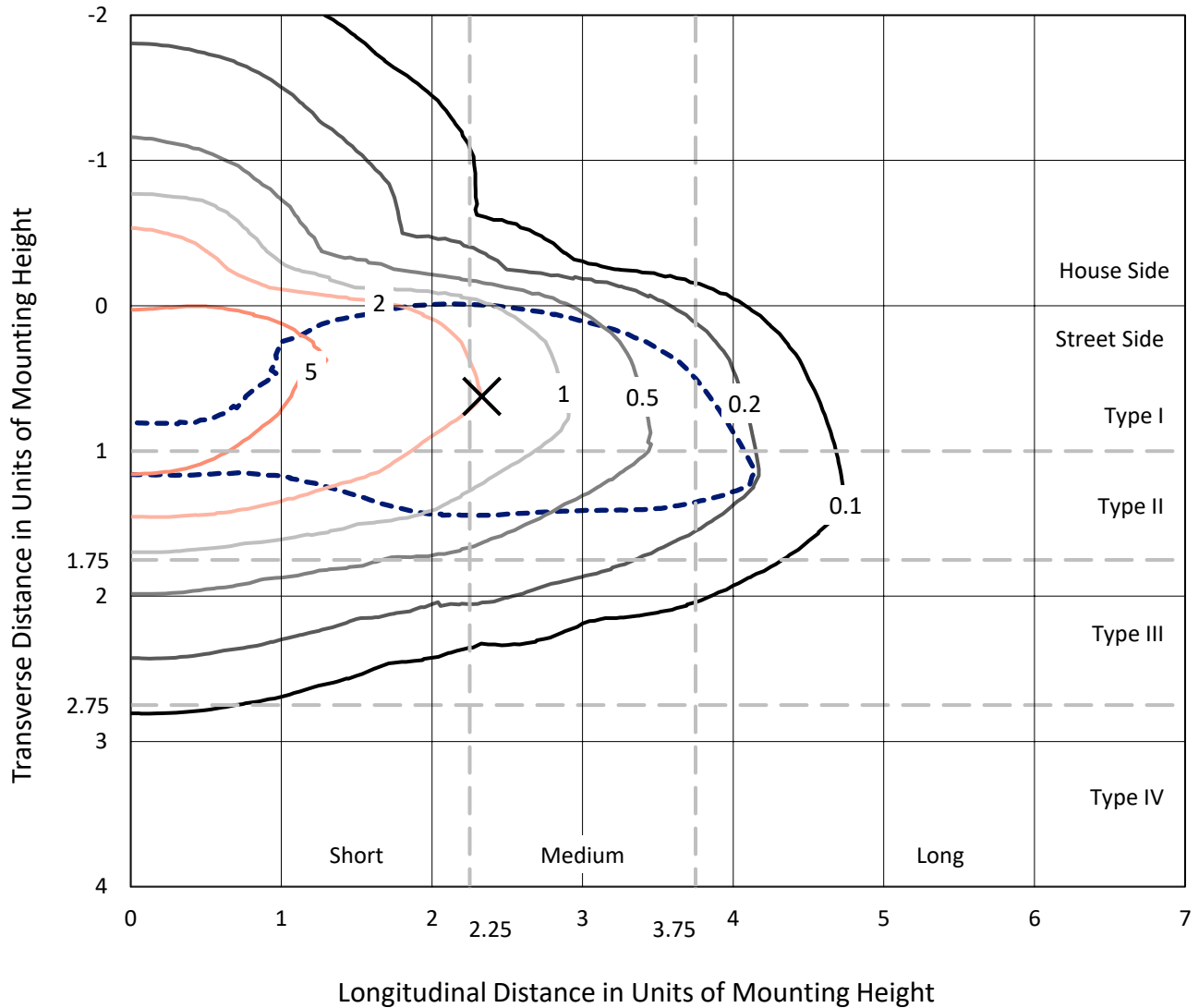
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P236876
 CATALOG NUMBER: ARCH-L-AF72-230-D-U-T2R-7050

Iso-Footcandle Lines of Horizontal Illumination

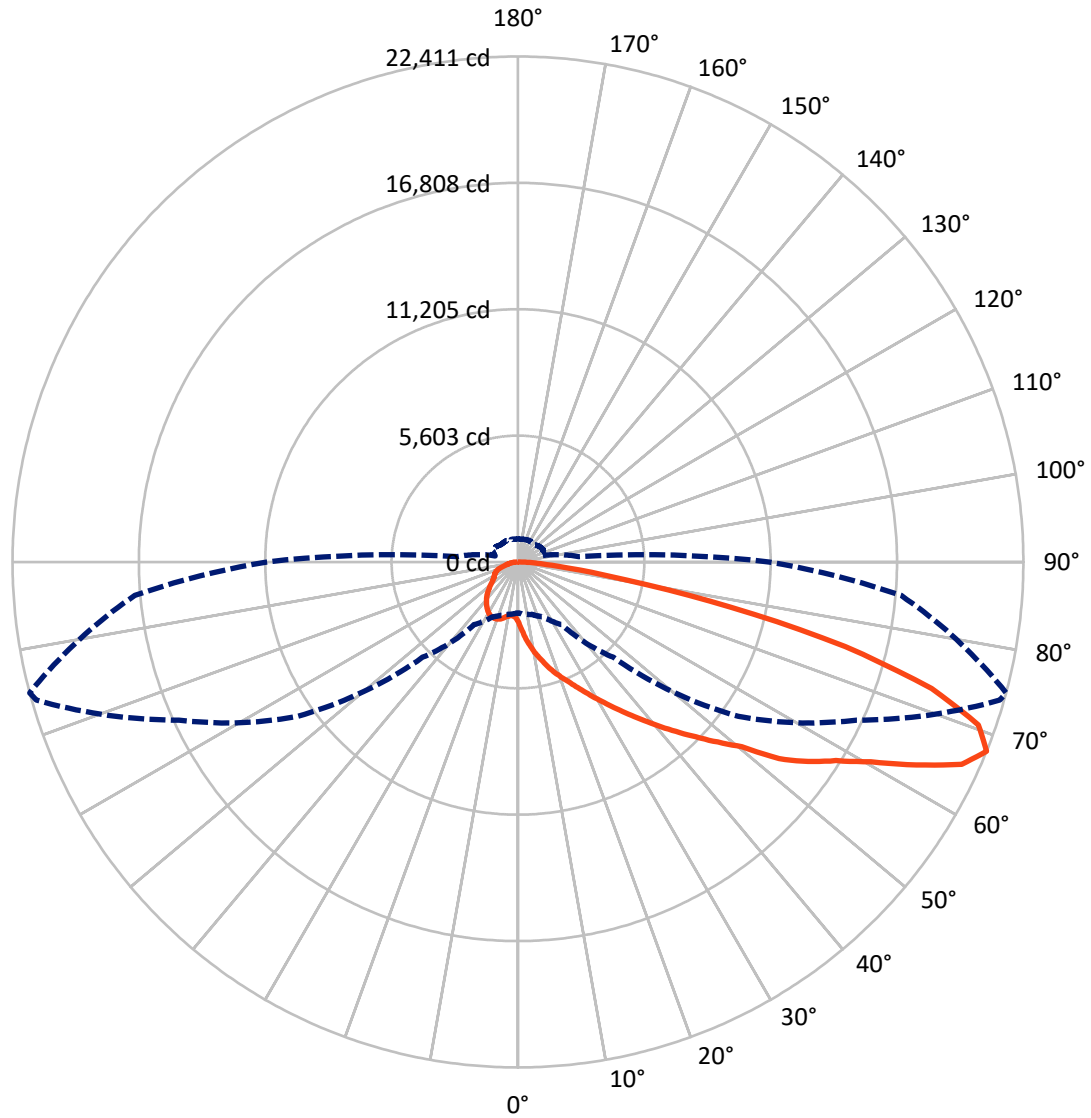
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P236876
CATALOG NUMBER: ARCH-L-AF72-230-D-U-T2R-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P236876
 CATALOG NUMBER: ARCH-L-AF72-230-D-U-T2R-7050

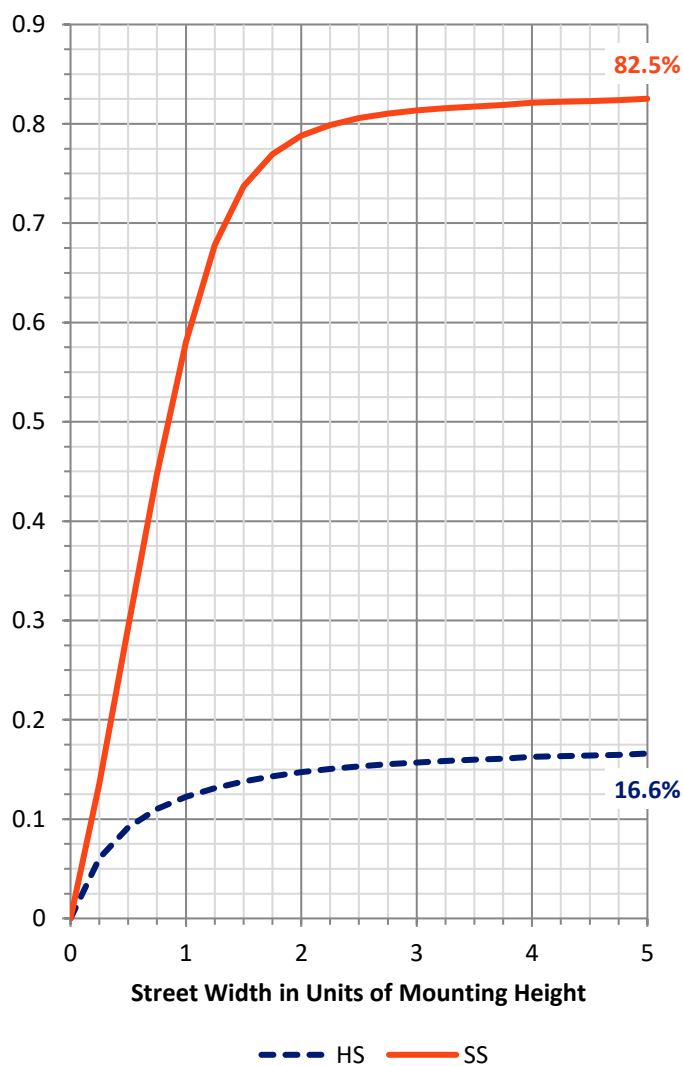
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4591.5	0.0	4591.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22296.5	0.0	22296.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	26888.0	0.0	26888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	1.2
10°-20°	1131.2	4.2
20°-30°	2063.1	7.7
30°-40°	3386.5	12.6
40°-50°	4897.3	18.2
50°-60°	5771.5	21.5
60°-70°	5608.5	20.9
70°-80°	3117.5	11.6
80°-90°	599.4	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°	26888.0	100.0
0°-180°	26888.0	100.0

Coefficient of Utilization

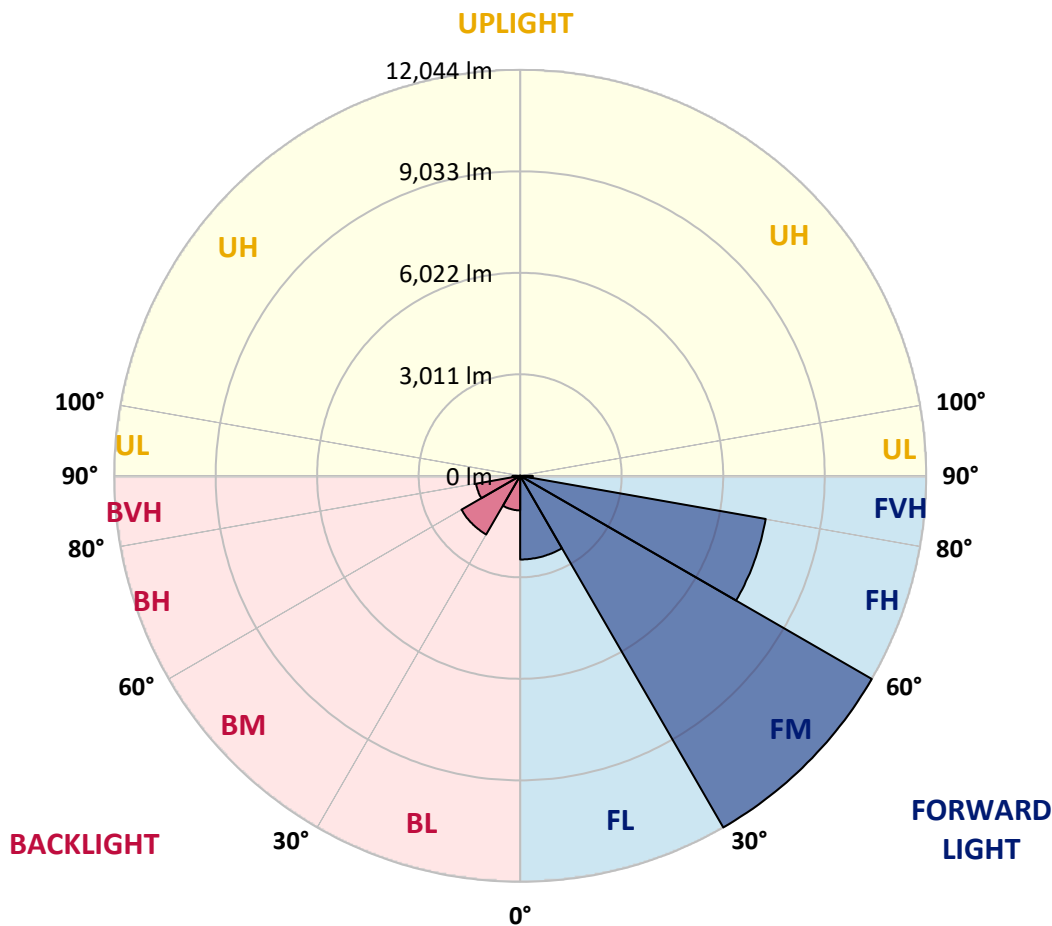


REPORT NUMBER: P236876
 CATALOG NUMBER: ARCH-L-AF72-230-D-U-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.5	9.2			
FM (30°-60°)	12044.4	44.8			
FH (60°-80°)	7396.6	27.5			G3/7500
FVH (80°-90°)	373.1	1.4			G3/500
BL (0°-30°)	1024.8	3.8	B3/2500		
BM (30°-60°)	2010.8	7.5	B2/2500		
BH (60°-80°)	1329.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	226.4	0.8			G3/500
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





REPORT NUMBER: P236876

CATALOG NUMBER: ARCH-L-AF72-230-D-U-T2R-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3
2.5°	3777.3	3788.5	3766.0	3715.5	3642.4	3507.5	3389.4	3181.5	2996.0	2973.5	2776.8
5°	4440.6	4451.8	4423.7	4361.9	4283.2	4137.0	3974.0	3704.2	3406.3	3350.1	2934.1
7.5°	4895.9	4901.5	4867.8	4805.9	4744.1	4597.9	4434.9	4131.4	3766.0	3721.1	3136.5
10°	5283.7	5294.9	5250.0	5210.6	5143.2	4997.0	4828.4	4508.0	4131.4	4069.6	3344.5
12.5°	5643.4	5654.7	5626.6	5592.9	5570.4	5435.5	5250.0	4867.8	4463.0	4395.6	3591.8
15°	5885.2	5896.4	5902.0	5947.0	5975.1	5879.5	5694.0	5278.1	4822.8	4761.0	3884.1
17.5°	5817.7	5845.8	5930.1	6093.1	6267.4	6273.0	6121.2	5682.8	5176.9	5109.5	4182.0
20°	5621.0	5643.4	5744.6	5991.9	6334.8	6531.6	6520.3	6093.1	5508.5	5435.5	4457.4
22.5°	5784.0	5812.1	5812.1	5963.8	6301.1	6666.5	6812.6	6497.8	5840.2	5772.7	4732.9
25°	6481.0	6497.8	6379.8	6318.0	6441.6	6778.9	7054.3	6936.3	6244.9	6166.2	5030.8
27.5°	7453.4	7425.3	7279.1	7031.8	6896.9	6986.9	7267.9	7352.2	6711.4	6615.9	5339.9
30°	8420.2	8403.3	8234.7	7903.1	7599.5	7408.4	7504.0	7723.2	7217.3	7104.9	5637.8
32.5°	9325.2	9297.1	9111.6	8723.7	8380.9	8026.7	7841.2	8060.5	7756.9	7627.6	5969.5
35°	10157.1	10084.0	9898.5	9493.8	9139.7	8802.4	8347.1	8380.9	8341.5	8206.6	6334.8
37.5°	10831.6	10775.4	10573.0	10196.4	9819.8	9499.4	9021.6	8746.2	8971.1	8841.8	6756.4
40°	11427.4	11365.6	11157.6	10781.0	10432.5	10129.0	9752.4	9190.3	9679.3	9533.2	7228.6
42.5°	11877.1	11832.1	11663.5	11292.5	10955.3	10679.8	10494.3	9752.4	10415.6	10275.1	7745.7
45°	12118.8	12073.8	11983.9	11686.0	11376.8	11163.2	11180.1	10421.3	11185.7	11067.7	8358.4
47.5°	11820.9	11854.6	11933.3	11877.1	11686.0	11584.8	11792.8	11112.6	12045.7	11933.3	9021.6
50°	11022.7	11056.4	11371.2	11759.1	11826.5	11950.2	12343.6	11910.8	12956.3	12866.4	9842.3
52.5°	9061.0	9246.5	10117.7	11045.2	11680.4	12191.9	12956.3	13096.8	14490.8	14490.8	11292.5
55°	6846.3	7009.3	8004.3	9623.1	11112.6	12214.4	13406.0	13900.6	15598.2	15620.7	12051.3
57.5°	5547.9	5649.1	6138.1	7796.3	9921.0	11933.3	13940.0	14592.0	16520.0	16621.2	13029.4
60°	4502.4	4558.6	4879.0	6031.3	8274.1	11174.5	14322.2	15581.3	17835.3	17975.8	14277.3
62.5°	3619.9	3676.1	3889.7	4581.1	6492.2	9752.4	14254.8	16610.0	19589.1	19819.5	15913.0
65°	2889.2	2951.0	3091.5	3518.7	4811.5	7987.4	13563.4	17138.3	21404.6	21629.5	16997.8
67.5°	2254.0	2310.2	2405.8	2686.8	3389.4	5975.1	11927.7	16581.8	22219.7	22410.8	17054.0
70°	1703.2	1731.3	1810.0	1989.8	2422.6	3968.4	9336.4	14715.7	21488.9	21663.2	15929.8
72.5°	1320.9	1315.3	1360.3	1450.2	1691.9	2731.8	6188.7	11967.0	18998.9	19178.7	13591.5
75°	1079.2	1073.6	1101.7	1129.8	1225.4	1832.4	3653.6	9010.4	15334.0	14991.1	10196.4
77.5°	910.6	905.0	933.1	938.7	978.0	1264.7	2079.8	5930.1	10230.2	9640.0	5744.6
80°	770.1	764.5	798.2	809.4	837.5	927.5	1197.3	3209.6	5137.6	4867.8	2743.0
82.5°	579.0	601.4	663.3	691.4	725.1	685.8	742.0	1416.5	2383.3	2276.5	1191.6
85°	281.0	331.6	500.3	556.5	595.8	432.8	505.9	668.9	1073.6	1023.0	483.4
87.5°	95.6	84.3	297.9	354.1	387.8	196.7	281.0	371.0	444.1	404.7	151.8
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: P236876

CATALOG NUMBER: ARCH-L-AF72-230-D-U-T2R-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3
2.5°	2692.4	2608.1	2484.5	2388.9	2327.1	2276.5	2254.0	2248.4	2237.1	2231.5	2231.5
5°	2748.7	2596.9	2405.8	2304.6	2276.5	2254.0	2265.2	2270.9	2270.9	2270.9	2270.9
7.5°	2833.0	2619.4	2388.9	2321.5	2315.8	2315.8	2349.6	2366.4	2377.7	2377.7	2377.7
10°	2945.4	2658.7	2417.0	2360.8	2377.7	2388.9	2428.3	2450.7	2462.0	2467.6	2473.2
12.5°	3097.2	2743.0	2473.2	2428.3	2450.7	2456.4	2484.5	2495.7	2507.0	2512.6	2512.6
15°	3299.5	2866.7	2563.2	2507.0	2512.6	2507.0	2507.0	2495.7	2490.1	2490.1	2501.3
17.5°	3507.5	2984.7	2641.9	2563.2	2540.7	2495.7	2462.0	2433.9	2417.0	2405.8	2411.4
20°	3715.5	3091.5	2686.8	2574.4	2512.6	2439.5	2377.7	2338.3	2315.8	2293.4	2304.6
22.5°	3923.4	3192.7	2703.7	2540.7	2450.7	2343.9	2276.5	2214.7	2164.1	2130.3	2136.0
25°	4153.9	3305.1	2703.7	2501.3	2366.4	2254.0	2169.7	2068.5	1995.4	1967.3	1978.6
27.5°	4384.4	3400.7	2675.6	2428.3	2270.9	2158.5	2034.8	1916.7	1871.8	1854.9	1860.5
30°	4614.8	3473.8	2613.7	2338.3	2169.7	2046.0	1883.0	1804.3	1748.1	1703.2	1708.8
32.5°	4845.3	3524.3	2529.4	2225.9	2062.9	1905.5	1770.6	1680.7	1579.5	1523.3	1528.9
35°	5109.5	3563.7	2428.3	2113.5	1944.9	1781.8	1680.7	1534.5	1427.7	1382.8	1371.5
37.5°	5384.9	3591.8	2321.5	1989.8	1826.8	1691.9	1590.7	1410.9	1309.7	1247.9	1242.2
40°	5682.8	3603.0	2192.2	1860.5	1714.4	1635.7	1472.7	1337.8	1163.5	1124.2	1124.2
42.5°	6036.9	3597.4	2062.9	1731.3	1590.7	1506.4	1388.4	1326.5	1174.8	1135.4	1113.0
45°	6441.6	3597.4	1922.4	1579.5	1467.1	1343.4	1292.8	1253.5	1152.3	1169.2	1180.4
47.5°	6902.5	3586.2	1753.7	1455.8	1365.9	1259.1	1231.0	1146.7	1107.3	1118.6	1129.8
50°	7537.7	3603.0	1602.0	1354.7	1292.8	1202.9	1169.2	1124.2	1107.3	1113.0	1107.3
52.5°	8420.2	3546.8	1455.8	1292.8	1236.6	1118.6	1118.6	1113.0	1118.6	1113.0	1113.0
55°	8903.6	3423.2	1349.0	1259.1	1197.3	1079.2	1101.7	1113.0	1124.2	1118.6	1118.6
57.5°	9589.4	3338.9	1264.7	1236.6	1174.8	1068.0	1090.5	1113.0	1118.6	1113.0	1113.0
60°	10398.8	3282.6	1208.5	1242.2	1157.9	1068.0	1096.1	1113.0	1107.3	1101.7	1101.7
62.5°	11337.5	3260.2	1169.2	1259.1	1141.1	1073.6	1096.1	1113.0	1090.5	1084.8	1084.8
65°	11691.6	3057.8	1118.6	1270.3	1152.3	1073.6	1090.5	1096.1	1068.0	1062.4	1056.7
67.5°	11146.4	2709.3	1045.5	1247.9	1186.0	1073.6	1073.6	1068.0	1034.3	1028.6	1017.4
70°	9926.6	2248.4	933.1	1174.8	1208.5	1079.2	1051.1	1023.0	989.3	989.3	966.8
72.5°	8127.9	1770.6	786.9	1045.5	1191.6	1096.1	1006.2	966.8	927.5	927.5	905.0
75°	5857.0	1320.9	629.5	871.2	1118.6	1090.5	949.9	899.4	854.4	848.8	820.7
77.5°	3338.9	927.5	511.5	680.1	994.9	1062.4	899.4	820.7	770.1	753.2	736.3
80°	1714.4	623.9	416.0	534.0	826.3	983.7	860.0	730.7	674.5	646.4	618.3
82.5°	815.0	416.0	320.4	393.5	623.9	860.0	809.4	629.5	567.7	534.0	500.3
85°	365.4	247.3	213.6	252.9	444.1	668.9	713.9	517.1	444.1	556.5	410.3
87.5°	118.0	112.4	112.4	118.0	213.6	292.3	522.7	382.2	354.1	292.3	247.3
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)