

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: P236837

Luminaire Tested: **ARCH-L-AF72-240-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236837
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-AF72-240-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26884.3 lumens
Efficiency: N/A
Efficacy: 111.1 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

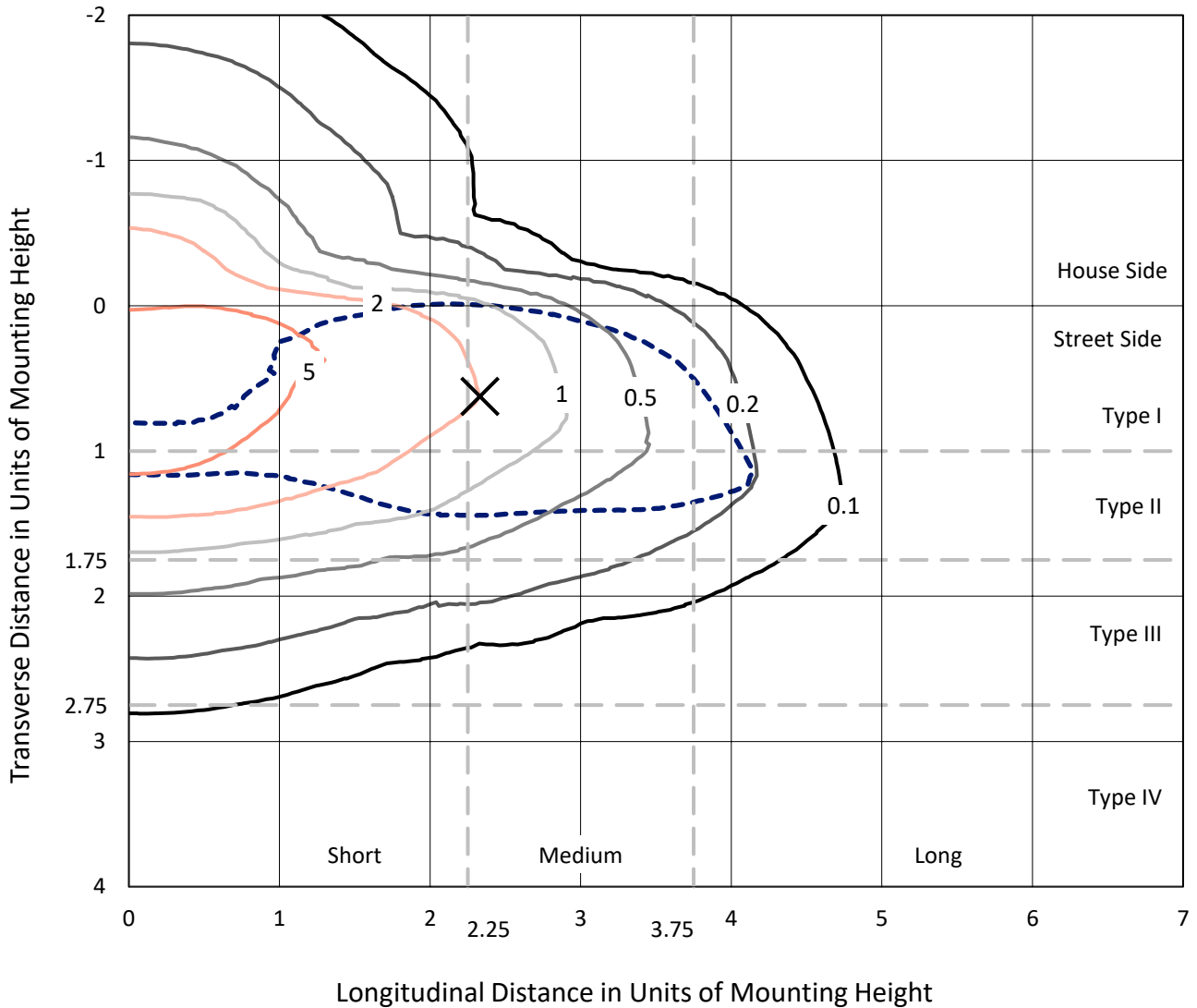
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

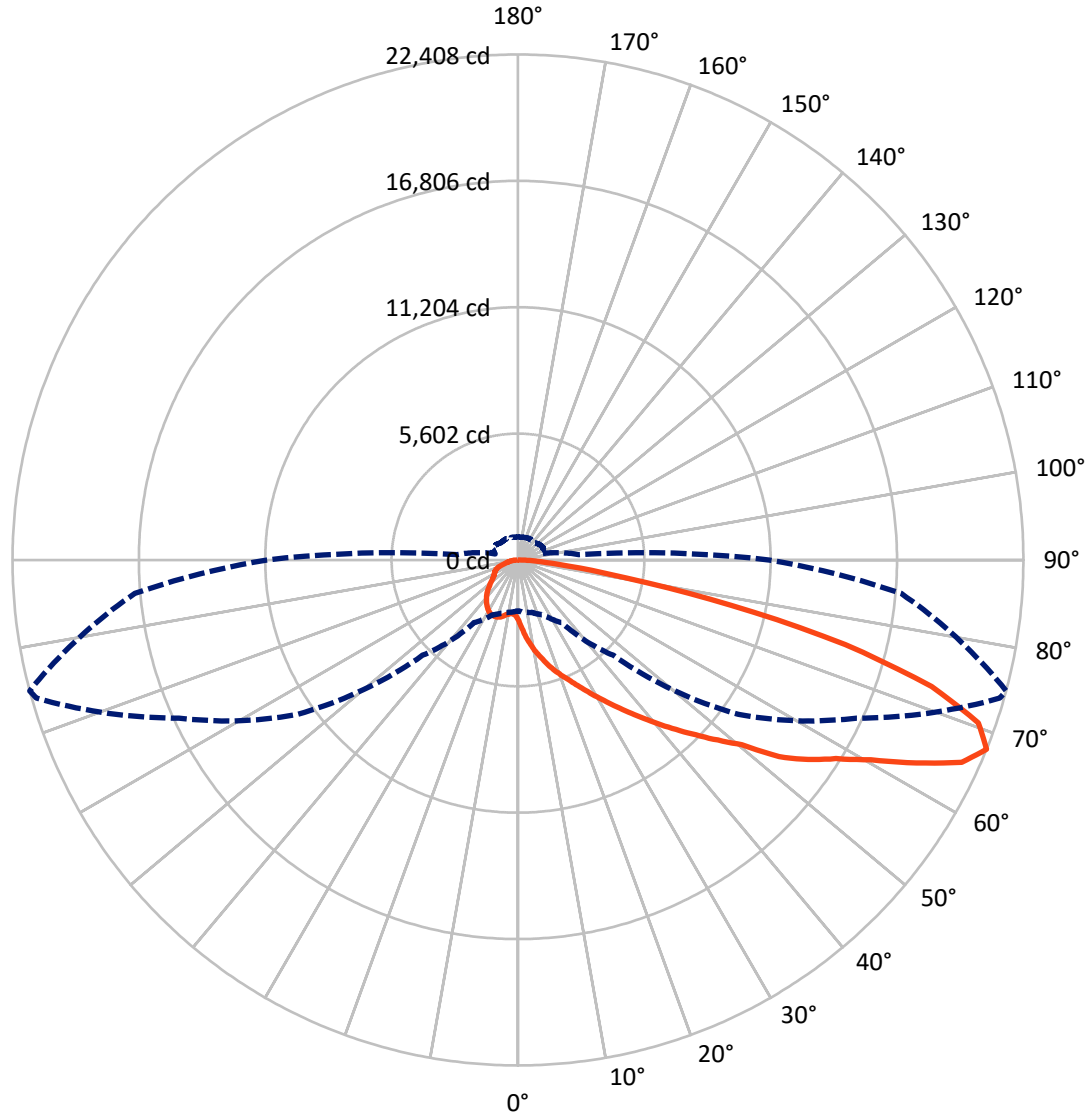
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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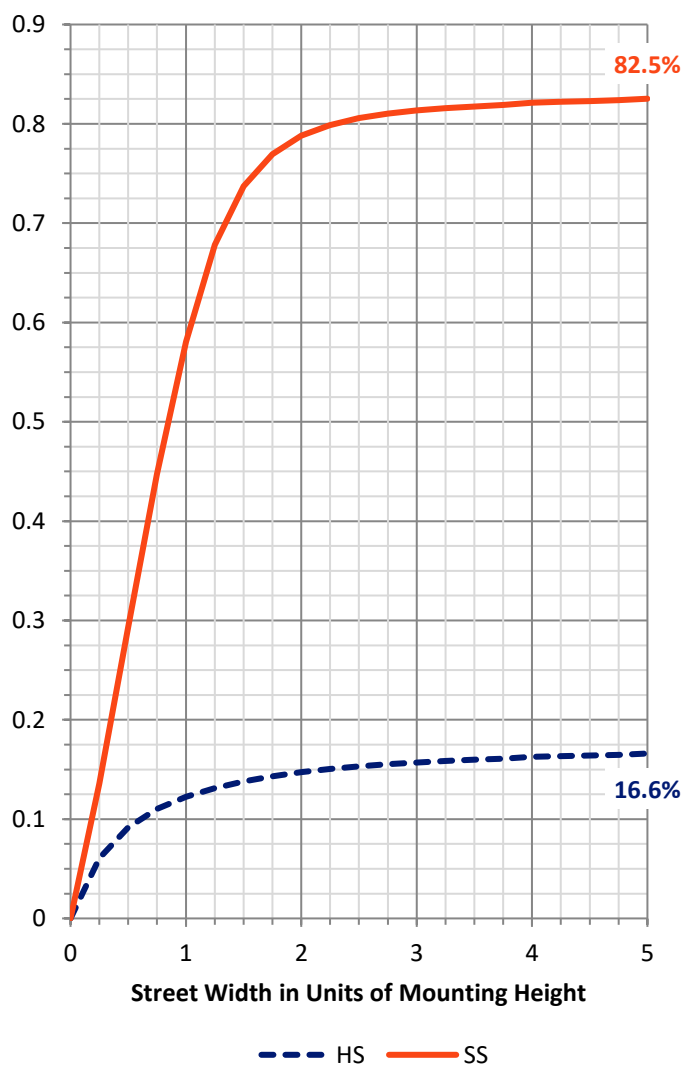
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4590.9	0.0	4590.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22293.5	0.0	22293.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	26884.3	0.0	26884.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	1.2
10°-20°	1131.0	4.2
20°-30°	2062.9	7.7
30°-40°	3386.0	12.6
40°-50°	4896.6	18.2
50°-60°	5770.7	21.5
60°-70°	5607.7	20.9
70°-80°	3117.1	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°	26884.3	100.0
0°-180°	26884.3	100.0



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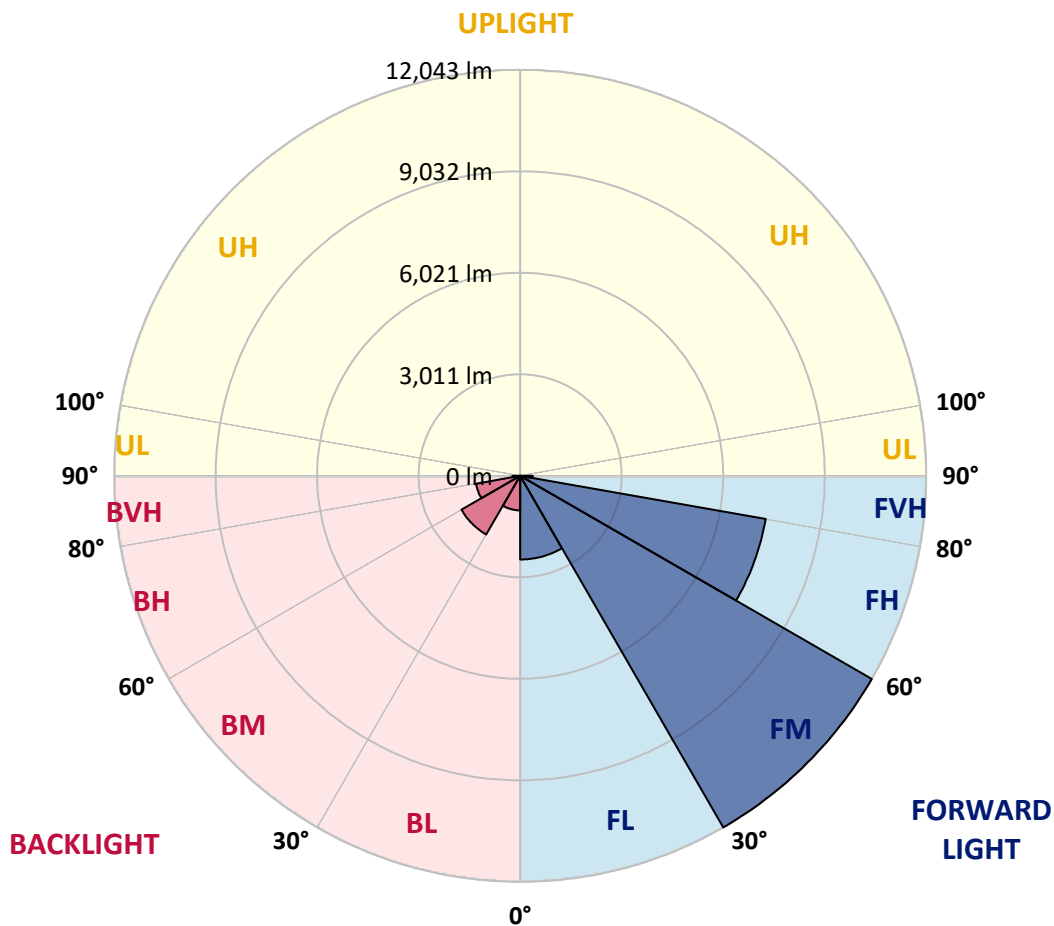
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.1	9.2			
FM (30°-60°)	12042.8	44.8			
FH (60°-80°)	7395.6	27.5			G3/7500
FVH (80°-90°)	373.0	1.4			G3/500
BL (0°-30°)	1024.7	3.8	B3/2500		
BM (30°-60°)	2010.6	7.5	B2/2500		
BH (60°-80°)	1329.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0
2.5°	3776.8	3788.0	3765.5	3715.0	3641.9	3507.0	3389.0	3181.1	2995.6	2973.1	2776.4
5°	4440.0	4451.2	4423.2	4361.3	4282.6	4136.4	3973.4	3703.7	3405.8	3349.7	2933.7
7.5°	4895.2	4900.9	4867.1	4805.2	4743.5	4597.3	4434.3	4130.9	3765.5	3720.6	3136.1
10°	5283.0	5294.2	5249.3	5209.9	5142.5	4996.3	4827.7	4507.4	4130.9	4069.1	3344.0
12.5°	5642.7	5653.9	5625.9	5592.1	5569.6	5434.8	5249.3	4867.1	4462.4	4395.0	3591.4
15°	5884.3	5895.6	5901.2	5946.2	5974.3	5878.7	5693.3	5277.3	4822.1	4760.3	3883.5
17.5°	5816.9	5845.1	5929.3	6092.3	6266.6	6272.1	6120.3	5682.0	5176.1	5108.8	4181.5
20°	5620.2	5642.7	5743.9	5991.1	6334.0	6530.7	6519.4	6092.3	5507.8	5434.8	4456.8
22.5°	5783.2	5811.3	5811.3	5963.1	6300.2	6665.6	6811.7	6497.0	5839.4	5771.9	4732.2
25°	6480.0	6497.0	6378.9	6317.2	6440.8	6778.0	7053.3	6935.3	6244.0	6165.4	5030.1
27.5°	7452.3	7424.2	7278.2	7030.9	6896.0	6985.9	7267.0	7351.2	6710.4	6615.0	5339.2
30°	8419.1	8402.1	8233.6	7901.9	7598.6	7407.4	7503.0	7722.1	7216.3	7103.9	5637.0
32.5°	9323.8	9295.8	9110.4	8722.5	8379.7	8025.6	7840.2	8059.4	7755.9	7626.7	5968.7
35°	10155.6	10082.7	9897.1	9492.6	9138.5	8801.3	8346.0	8379.7	8340.5	8205.5	6334.0
37.5°	10830.1	10773.9	10571.6	10195.1	9818.5	9498.1	9020.5	8745.0	8969.8	8840.6	6755.5
40°	11425.9	11364.0	11156.1	10779.5	10431.1	10127.6	9751.1	9189.0	9677.9	9531.9	7227.6
42.5°	11875.5	11830.5	11661.9	11291.0	10953.8	10678.4	10492.9	9751.1	10414.3	10273.7	7744.7
45°	12117.2	12072.2	11982.3	11684.4	11375.3	11161.7	11178.6	10419.8	11184.3	11066.3	8357.2
47.5°	11819.2	11853.0	11931.6	11875.5	11684.4	11583.2	11791.1	11111.1	12044.0	11931.6	9020.5
50°	11021.2	11055.0	11369.6	11757.5	11824.9	11948.6	12341.9	11909.1	12954.6	12864.6	9841.0
52.5°	9059.8	9245.2	10116.4	11043.7	11678.7	12190.2	12954.6	13095.0	14488.9	14488.9	11291.0
55°	6845.4	7008.4	8003.1	9621.8	11111.1	12212.7	13404.2	13898.8	15596.1	15618.5	12049.6
57.5°	5547.1	5648.2	6137.2	7795.2	9919.6	11931.6	13938.1	14590.1	16517.9	16618.9	13027.6
60°	4501.8	4558.0	4878.3	6030.4	8272.9	11173.0	14320.3	15579.2	17832.9	17973.3	14275.3
62.5°	3619.4	3675.6	3889.2	4580.4	6491.3	9751.1	14252.9	16607.7	19586.4	19816.8	15910.8
65°	2888.9	2950.6	3091.2	3518.2	4810.9	7986.3	13561.6	17136.0	21401.7	21626.6	16995.5
67.5°	2253.7	2309.8	2405.5	2686.4	3389.0	5974.3	11926.0	16579.5	22216.7	22407.8	17051.6
70°	1703.0	1731.0	1809.7	1989.5	2422.3	3967.9	9335.1	14713.7	21486.1	21660.2	15927.6
72.5°	1320.7	1315.2	1360.1	1450.0	1691.7	2731.4	6187.8	11965.4	18996.3	19176.1	13589.6
75°	1079.1	1073.5	1101.6	1129.6	1225.3	1832.2	3653.1	9009.2	15332.0	14989.1	10195.1
77.5°	910.4	904.8	933.0	938.5	977.9	1264.5	2079.4	5929.3	10228.8	9638.7	5743.9
80°	769.9	764.4	798.0	809.3	837.4	927.3	1197.2	3209.2	5136.9	4867.1	2742.6
82.5°	578.8	601.4	663.2	691.3	725.1	685.7	741.9	1416.3	2383.0	2276.2	1191.5
85°	281.1	331.6	500.2	556.3	595.8	432.7	505.9	668.7	1073.5	1022.8	483.4
87.5°	95.5	84.3	297.8	354.1	387.8	196.6	281.1	370.9	444.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0
2.5°	2692.0	2607.8	2484.1	2388.6	2326.7	2276.2	2253.7	2248.1	2236.9	2231.2	2231.2
5°	2748.3	2596.5	2405.5	2304.3	2276.2	2253.7	2265.0	2270.5	2270.5	2270.5	2270.5
7.5°	2832.5	2619.1	2388.6	2321.1	2315.5	2315.5	2349.3	2366.1	2377.4	2377.4	2377.4
10°	2945.0	2658.4	2416.7	2360.4	2377.4	2388.6	2428.0	2450.3	2461.6	2467.3	2472.9
12.5°	3096.7	2742.6	2472.9	2428.0	2450.3	2456.0	2484.1	2495.4	2506.6	2512.2	2512.2
15°	3299.1	2866.3	2562.7	2506.6	2512.2	2506.6	2506.6	2495.4	2489.8	2489.8	2501.0
17.5°	3507.0	2984.3	2641.5	2562.7	2540.3	2495.4	2461.6	2433.5	2416.7	2405.5	2411.1
20°	3715.0	3091.2	2686.4	2574.0	2512.2	2439.2	2377.4	2338.0	2315.5	2293.1	2304.3
22.5°	3922.9	3192.2	2703.3	2540.3	2450.3	2343.6	2276.2	2214.3	2163.8	2130.0	2135.7
25°	4153.3	3304.6	2703.3	2501.0	2366.1	2253.7	2169.4	2068.3	1995.2	1967.1	1978.3
27.5°	4383.7	3400.2	2675.2	2428.0	2270.5	2158.2	2034.5	1916.5	1871.5	1854.6	1860.2
30°	4614.2	3473.3	2613.4	2338.0	2169.4	2045.8	1882.7	1804.1	1747.9	1703.0	1708.5
32.5°	4844.7	3523.8	2529.2	2225.6	2062.6	1905.3	1770.3	1680.4	1579.3	1523.1	1528.6
35°	5108.8	3563.2	2428.0	2113.2	1944.6	1781.6	1680.4	1534.3	1427.6	1382.5	1371.3
37.5°	5384.2	3591.4	2321.1	1989.5	1826.6	1691.7	1590.5	1410.6	1309.5	1247.6	1242.1
40°	5682.0	3602.5	2191.8	1860.2	1714.2	1635.5	1472.5	1337.7	1163.4	1124.1	1124.1
42.5°	6036.1	3597.0	2062.6	1731.0	1590.5	1506.2	1388.1	1326.4	1174.6	1135.3	1112.8
45°	6440.8	3597.0	1922.1	1579.3	1467.0	1343.3	1292.6	1253.3	1152.1	1169.0	1180.2
47.5°	6901.6	3585.7	1753.5	1455.7	1365.7	1258.8	1230.8	1146.5	1107.3	1118.4	1129.6
50°	7536.7	3602.5	1601.7	1354.5	1292.6	1202.7	1169.0	1124.1	1107.3	1112.8	1107.3
52.5°	8419.1	3546.3	1455.7	1292.6	1236.5	1118.4	1118.4	1112.8	1118.4	1112.8	1112.8
55°	8902.5	3422.6	1348.8	1258.8	1197.2	1079.1	1101.6	1112.8	1124.1	1118.4	1118.4
57.5°	9588.0	3338.4	1264.5	1236.5	1174.6	1067.8	1090.3	1112.8	1118.4	1112.8	1112.8
60°	10397.3	3282.1	1208.3	1242.1	1157.7	1067.8	1096.0	1112.8	1107.3	1101.6	1101.6
62.5°	11335.9	3259.7	1169.0	1258.8	1140.8	1073.5	1096.0	1112.8	1090.3	1084.7	1084.7
65°	11689.9	3057.4	1118.4	1270.1	1152.1	1073.5	1090.3	1096.0	1067.8	1062.2	1056.6
67.5°	11144.9	2709.0	1045.4	1247.6	1185.9	1073.5	1073.5	1067.8	1034.1	1028.4	1017.2
70°	9925.2	2248.1	933.0	1174.6	1208.3	1079.1	1051.0	1022.8	989.2	989.2	966.7
72.5°	8126.8	1770.3	786.7	1045.4	1191.5	1096.0	1006.1	966.7	927.3	927.3	904.8
75°	5856.3	1320.7	629.5	871.2	1118.4	1090.3	949.8	899.2	854.3	848.6	820.5
77.5°	3338.4	927.3	511.5	680.0	994.8	1062.2	899.2	820.5	769.9	753.2	736.3
80°	1714.2	623.9	415.8	533.9	826.2	983.6	859.9	730.6	674.4	646.3	618.2
82.5°	815.0	415.8	320.3	393.5	623.9	859.9	809.3	629.5	567.6	533.9	500.2
85°	365.4	247.3	213.6	252.9	444.0	668.7	713.8	517.1	444.0	556.3	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)