

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: P236835

Luminaire Tested: **ARCH-L-AF72-220-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236835
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-AF72-220-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25367.8 lumens
Efficiency: N/A
Efficacy: 114.3 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

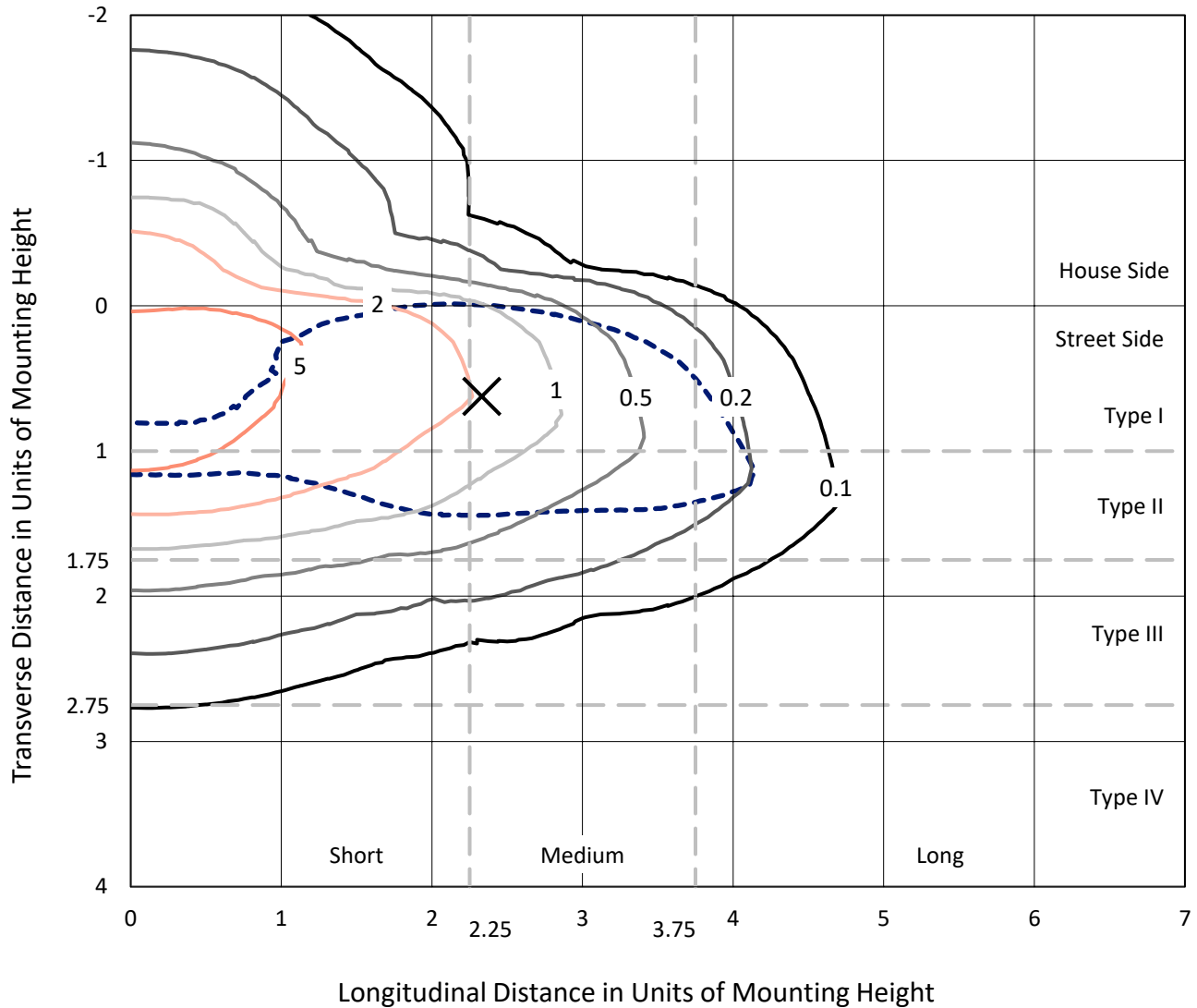
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

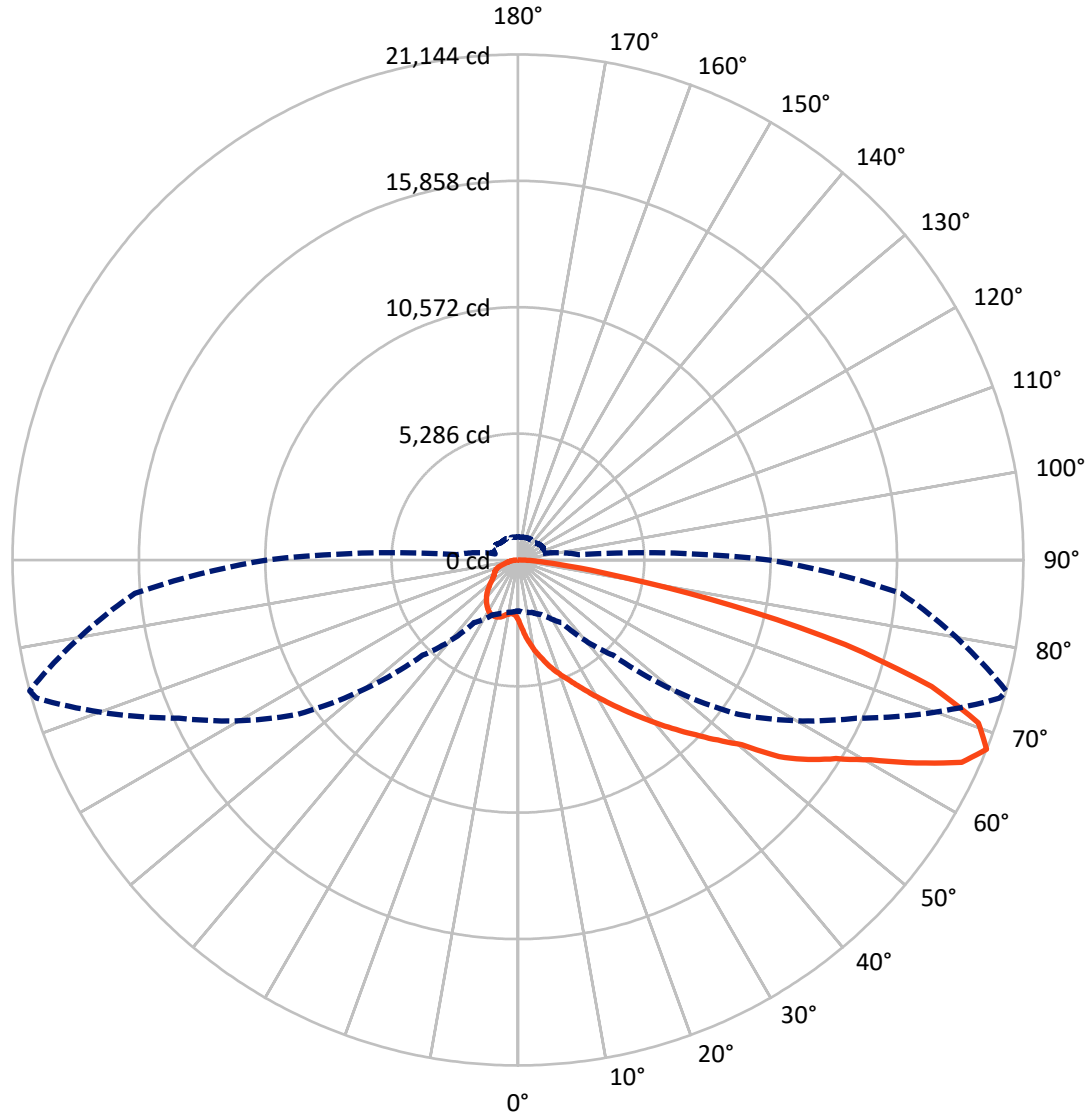
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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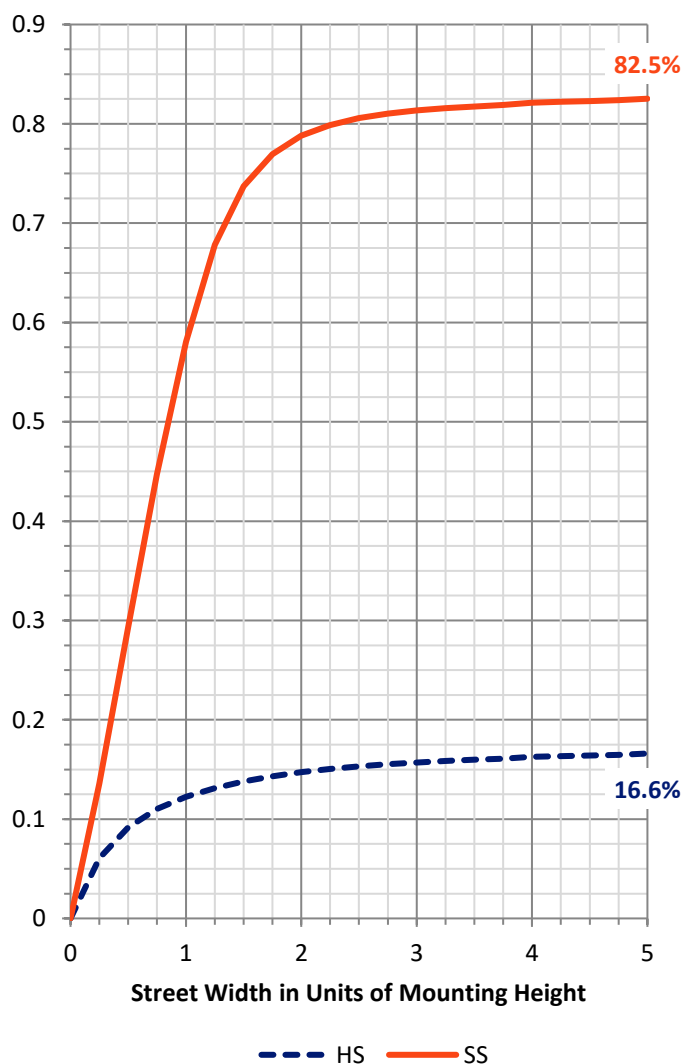
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4331.9	0.0	4331.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	21035.9	0.0	21035.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	25367.8	0.0	25367.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.2
10°-20°	1067.2	4.2
20°-30°	1946.5	7.7
30°-40°	3195.0	12.6
40°-50°	4620.4	18.2
50°-60°	5445.2	21.5
60°-70°	5291.4	20.9
70°-80°	2941.3	11.6
80°-90°	565.6	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°	25367.8	100.0
0°-180°	25367.8	100.0

Coefficient of Utilization

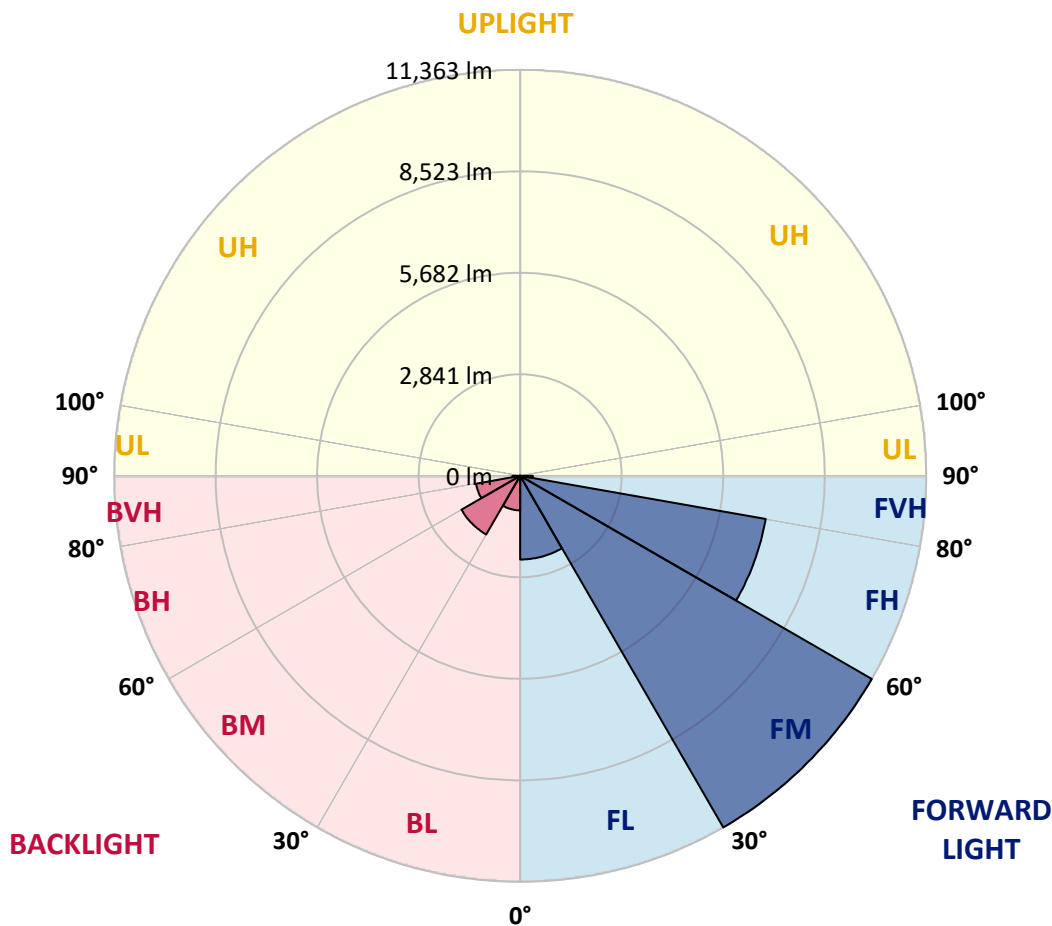


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.1	9.2			
FM (30°-60°)	11363.4	44.8			
FH (60°-80°)	6978.4	27.5			G3/7500
FVH (80°-90°)	352.0	1.4			G3/500
BL (0°-30°)	966.9	3.8	B2/1000		
BM (30°-60°)	1897.1	7.5	B2/2500		
BH (60°-80°)	1254.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	213.6	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°	74°	75°	85°
0°	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
2.5°	3563.7	3574.3	3553.1	3505.4	3436.4	3309.1	3197.8	3001.6	2826.5	2805.3	2619.8
5°	4189.5	4200.2	4173.6	4115.2	4041.1	3903.2	3749.3	3494.7	3213.8	3160.7	2768.3
7.5°	4619.1	4624.4	4592.5	4534.3	4476.0	4338.0	4184.2	3897.9	3553.1	3510.7	2959.2
10°	4985.0	4995.6	4953.2	4916.0	4852.4	4714.5	4555.4	4253.1	3897.9	3839.5	3155.4
12.5°	5324.4	5335.0	5308.5	5276.6	5255.5	5128.2	4953.2	4592.5	4210.8	4147.1	3388.6
15°	5552.4	5563.1	5568.3	5610.8	5637.2	5547.1	5372.1	4979.7	4550.1	4491.7	3664.4
17.5°	5488.7	5515.3	5594.8	5748.6	5913.0	5918.3	5775.1	5361.5	4884.2	4820.6	3945.6
20°	5303.1	5324.4	5419.8	5653.2	5976.7	6162.3	6151.7	5748.6	5197.1	5128.2	4205.4
22.5°	5457.0	5483.5	5483.5	5626.7	5944.9	6289.5	6427.4	6130.4	5510.0	5446.3	4465.3
25°	6114.5	6130.4	6019.1	5960.7	6077.4	6395.6	6655.5	6544.1	5891.8	5817.6	4746.3
27.5°	7032.0	7005.4	6867.6	6634.2	6506.9	6591.8	6857.0	6936.6	6332.0	6241.9	5038.1
30°	7944.1	7928.3	7769.1	7456.3	7169.9	6989.6	7079.8	7286.5	6809.2	6703.2	5319.1
32.5°	8798.0	8771.5	8596.4	8230.5	7907.0	7573.0	7398.0	7604.8	7318.4	7196.4	5632.0
35°	9582.8	9513.9	9338.8	8957.1	8623.0	8304.8	7875.2	7907.0	7870.0	7742.6	5976.7
37.5°	10219.2	10166.1	9975.3	9619.9	9264.6	8962.3	8511.7	8251.7	8463.9	8341.8	6374.4
40°	10781.3	10723.0	10526.8	10171.5	9842.7	9556.4	9201.0	8670.7	9132.1	8994.2	6819.9
42.5°	11205.6	11163.1	11004.0	10654.1	10335.9	10076.0	9901.0	9201.0	9826.8	9694.2	7307.8
45°	11433.7	11391.2	11306.3	11025.3	10733.6	10532.0	10548.0	9832.0	10553.4	10441.9	7885.8
47.5°	11152.5	11184.5	11258.6	11205.6	11025.3	10929.9	11126.1	10484.4	11364.7	11258.6	8511.7
50°	10399.6	10431.3	10728.2	11094.1	11157.9	11274.6	11645.7	11237.5	12223.8	12138.9	9285.8
52.5°	8548.7	8723.7	9545.7	10420.7	11020.0	11502.6	12223.8	12356.3	13671.6	13671.6	10654.1
55°	6459.3	6613.0	7551.7	9079.0	10484.4	11523.8	12648.1	13114.7	14716.2	14737.6	11369.9
57.5°	5234.2	5329.6	5791.1	7355.5	9360.1	11258.6	13151.9	13767.0	15586.1	15681.4	12292.8
60°	4247.9	4300.9	4603.2	5690.3	7806.2	10542.7	13512.4	14700.4	16826.9	16959.5	13470.0
62.5°	3415.2	3468.3	3669.8	4322.1	6125.2	9201.0	13448.8	15670.8	18481.5	18698.9	15013.4
65°	2725.8	2784.2	2916.7	3319.8	4539.5	7535.8	12796.6	16169.4	20194.5	20406.6	16036.7
67.5°	2126.6	2179.6	2269.8	2535.0	3197.8	5637.2	11253.3	15644.4	20963.5	21143.8	16089.8
70°	1606.8	1633.4	1707.6	1877.3	2285.7	3744.0	8808.6	13883.7	20274.0	20438.4	15029.1
72.5°	1246.2	1240.9	1283.4	1368.3	1596.3	2577.3	5838.9	11290.5	17924.7	18094.4	12823.1
75°	1018.2	1013.0	1039.4	1066.0	1156.1	1728.8	3447.0	8501.0	14467.0	14143.5	9619.9
77.5°	859.1	853.9	880.3	885.6	922.8	1193.2	1962.2	5594.8	9651.8	9095.0	5419.8
80°	726.6	721.2	753.1	763.6	790.2	875.0	1129.5	3028.1	4847.1	4592.5	2588.0
82.5°	546.2	567.5	625.7	652.3	684.1	647.1	700.1	1336.4	2248.5	2147.8	1124.3
85°	265.2	312.9	472.0	525.0	562.1	408.3	477.3	631.1	1013.0	965.2	456.0
87.5°	90.1	79.5	281.1	334.2	365.9	185.6	265.2	349.9	418.9	381.9	143.2
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°	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
2.5°	2540.2	2460.6	2344.0	2253.8	2195.6	2147.8	2126.6	2121.3	2110.7	2105.3	2105.3
5°	2593.3	2450.0	2269.8	2174.3	2147.8	2126.6	2137.2	2142.5	2142.5	2142.5	2142.5
7.5°	2672.8	2471.2	2253.8	2190.2	2184.8	2184.8	2216.8	2232.6	2243.2	2243.2	2243.2
10°	2778.9	2508.4	2280.3	2227.4	2243.2	2253.8	2290.9	2312.2	2322.8	2328.1	2333.3
12.5°	2922.0	2588.0	2333.3	2290.9	2312.2	2317.5	2344.0	2354.6	2365.3	2370.5	2370.5
15°	3112.9	2704.6	2418.2	2365.3	2370.5	2365.3	2365.3	2354.6	2349.3	2349.3	2359.9
17.5°	3309.1	2815.9	2492.5	2418.2	2397.0	2354.6	2322.8	2296.3	2280.3	2269.8	2275.1
20°	3505.4	2916.7	2535.0	2428.9	2370.5	2301.5	2243.2	2206.2	2184.8	2163.7	2174.3
22.5°	3701.6	3012.2	2550.8	2397.0	2312.2	2211.4	2147.8	2089.5	2041.7	2010.0	2015.2
25°	3919.0	3118.3	2550.8	2359.9	2232.6	2126.6	2047.0	1951.6	1882.6	1856.1	1866.7
27.5°	4136.4	3208.4	2524.3	2290.9	2142.5	2036.4	1919.8	1808.4	1765.9	1750.0	1755.4
30°	4353.9	3277.3	2466.0	2206.2	2047.0	1930.4	1776.5	1702.4	1649.3	1606.8	1612.1
32.5°	4571.3	3325.1	2386.4	2100.1	1946.2	1797.8	1670.5	1585.7	1490.2	1437.2	1442.4
35°	4820.6	3362.2	2290.9	1994.0	1834.9	1681.1	1585.7	1447.8	1347.0	1304.5	1293.9
37.5°	5080.4	3388.6	2190.2	1877.3	1723.6	1596.3	1500.7	1331.1	1235.6	1177.3	1172.1
40°	5361.5	3399.4	2068.3	1755.4	1617.5	1543.2	1389.4	1262.2	1097.7	1060.6	1060.6
42.5°	5695.5	3394.0	1946.2	1633.4	1500.7	1421.3	1309.9	1251.6	1108.3	1071.3	1050.0
45°	6077.4	3394.0	1813.7	1490.2	1384.1	1267.4	1219.8	1182.6	1087.1	1103.1	1113.7
47.5°	6512.3	3383.4	1654.6	1373.5	1288.7	1187.8	1161.4	1081.8	1044.7	1055.3	1066.0
50°	7111.5	3399.4	1511.4	1278.2	1219.8	1134.8	1103.1	1060.6	1044.7	1050.0	1044.7
52.5°	7944.1	3346.3	1373.5	1219.8	1166.7	1055.3	1055.3	1050.0	1055.3	1050.0	1050.0
55°	8400.2	3229.6	1272.8	1187.8	1129.5	1018.2	1039.4	1050.0	1060.6	1055.3	1055.3
57.5°	9047.2	3150.1	1193.2	1166.7	1108.3	1007.6	1028.7	1050.0	1055.3	1050.0	1050.0
60°	9810.8	3097.1	1140.2	1172.1	1092.5	1007.6	1034.1	1050.0	1044.7	1039.4	1039.4
62.5°	10696.5	3075.8	1103.1	1187.8	1076.5	1013.0	1034.1	1050.0	1028.7	1023.5	1023.5
65°	11030.6	2884.9	1055.3	1198.5	1087.1	1013.0	1028.7	1034.1	1007.6	1002.4	997.0
67.5°	10516.2	2556.1	986.4	1177.3	1119.0	1013.0	1013.0	1007.6	975.8	970.4	959.9
70°	9365.3	2121.3	880.3	1108.3	1140.2	1018.2	991.7	965.2	933.4	933.4	912.1
72.5°	7668.4	1670.5	742.4	986.4	1124.3	1034.1	949.3	912.1	875.0	875.0	853.9
75°	5525.9	1246.2	594.0	821.9	1055.3	1028.7	896.3	848.5	806.2	800.8	774.2
77.5°	3150.1	875.0	482.6	641.7	938.6	1002.4	848.5	774.2	726.6	710.6	694.7
80°	1617.5	588.7	392.5	503.8	779.6	928.0	811.4	689.4	636.3	609.8	583.3
82.5°	768.9	392.5	302.3	371.3	588.7	811.4	763.6	594.0	535.6	503.8	472.0
85°	344.7	233.4	201.5	238.6	418.9	631.1	673.5	487.9	418.9	525.0	387.1
87.5°	111.3	106.1	106.1	111.3	201.5	275.8	493.2	360.7	334.2	275.8	233.4
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)