

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: P236833

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236833
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-AF72-200-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23781.4 lumens
Efficiency: N/A
Efficacy: 118.3 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

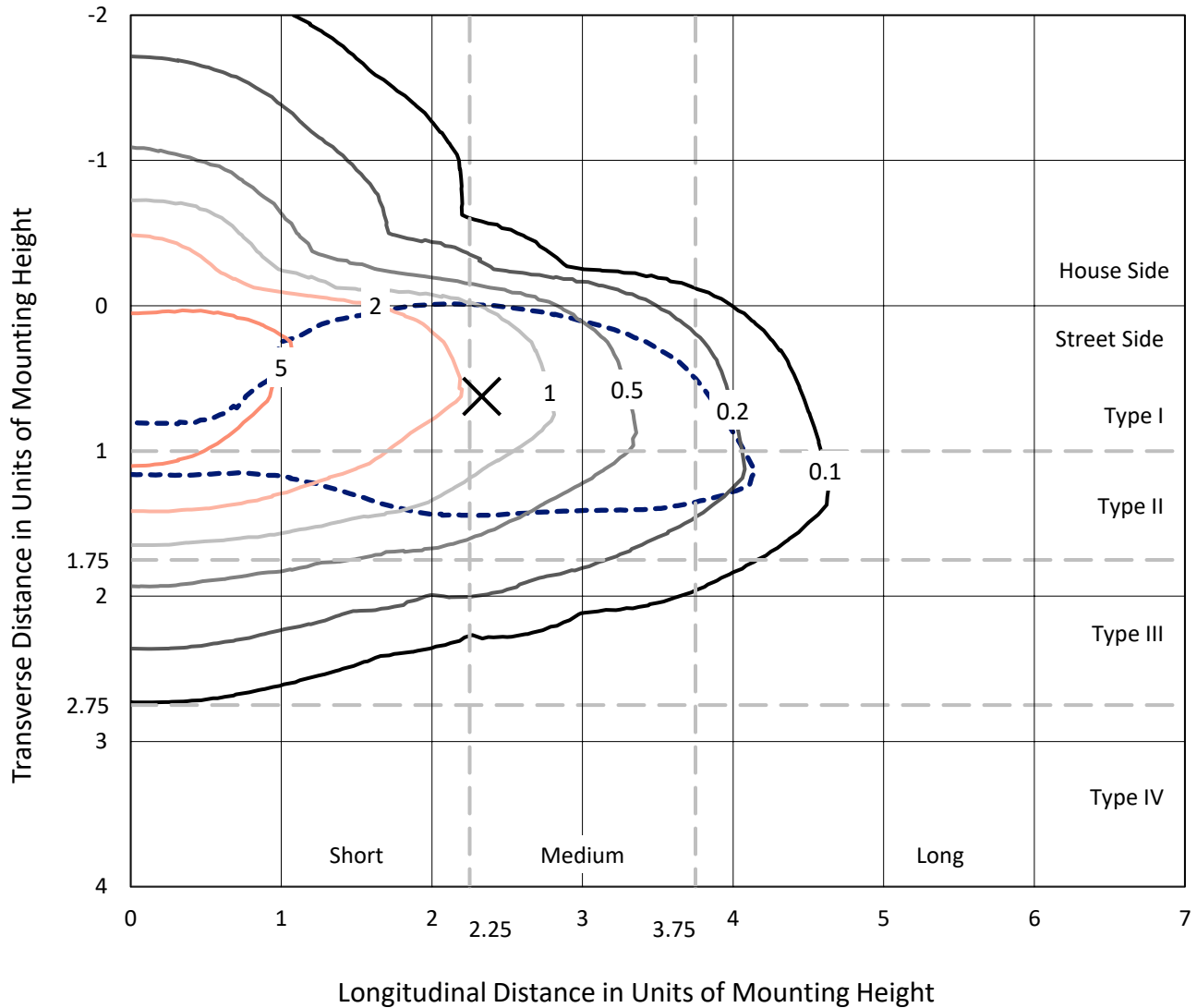
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

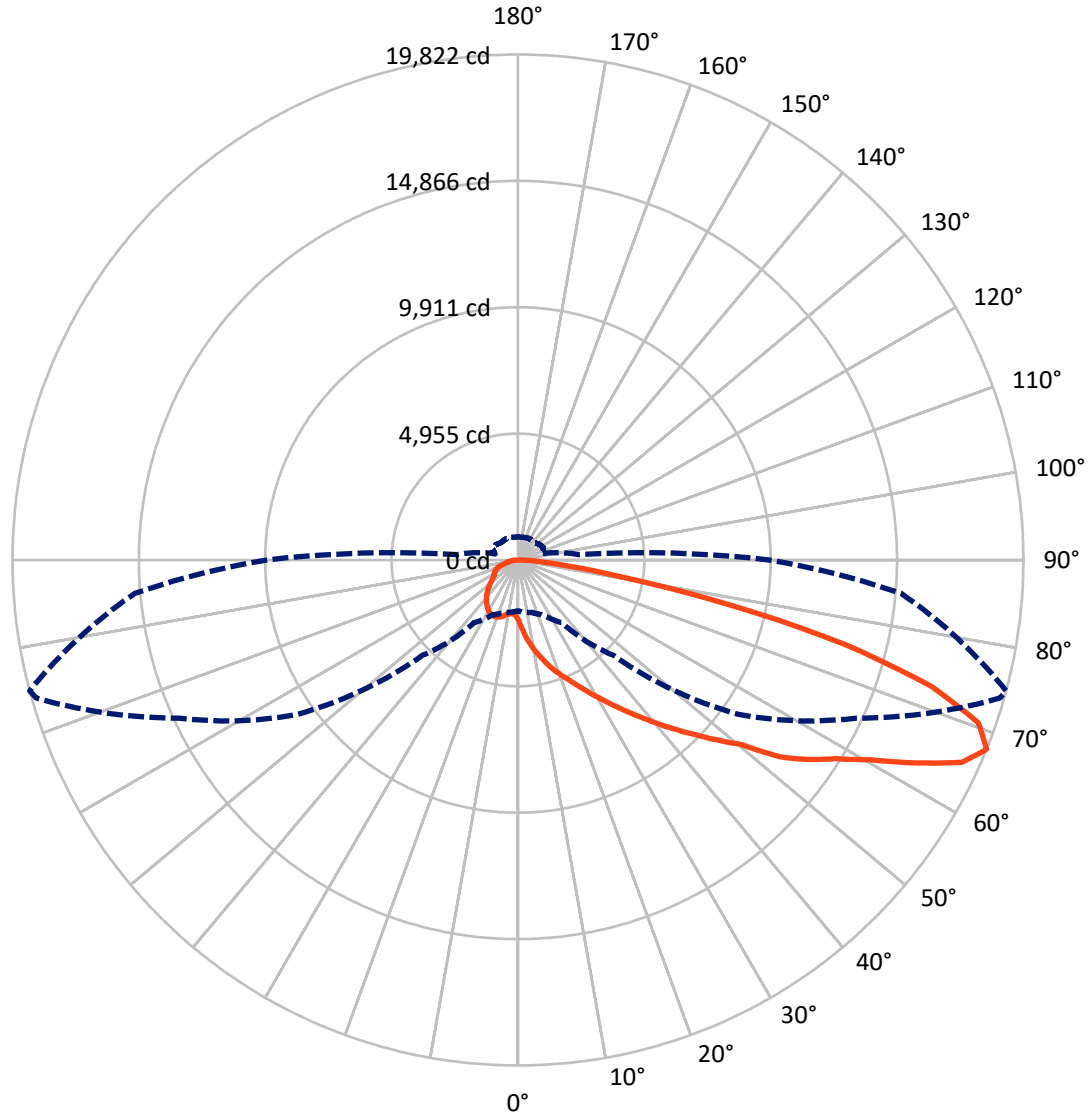
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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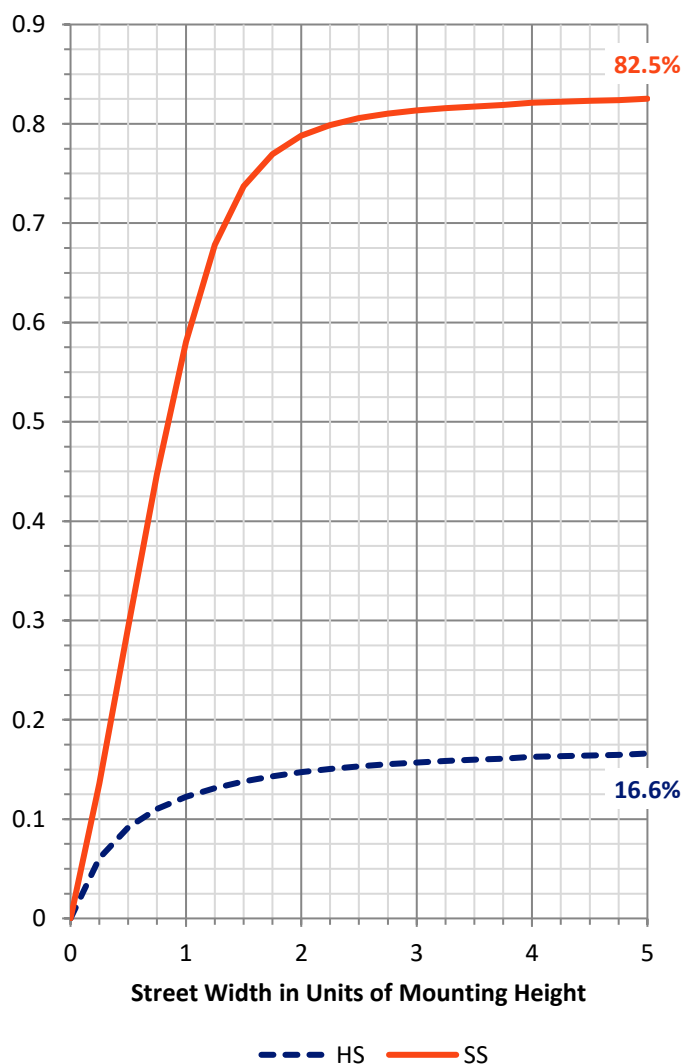
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4060.9	0.0	4060.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19720.4	0.0	19720.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	23781.4	0.0	23781.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.2
10°-20°	1000.5	4.2
20°-30°	1824.8	7.7
30°-40°	2995.2	12.6
40°-50°	4331.5	18.2
50°-60°	5104.6	21.5
60°-70°	4960.5	20.9
70°-80°	2757.3	11.6
80°-90°	530.2	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°	23781.4	100.0
0°-180°	23781.4	100.0

Coefficient of Utilization

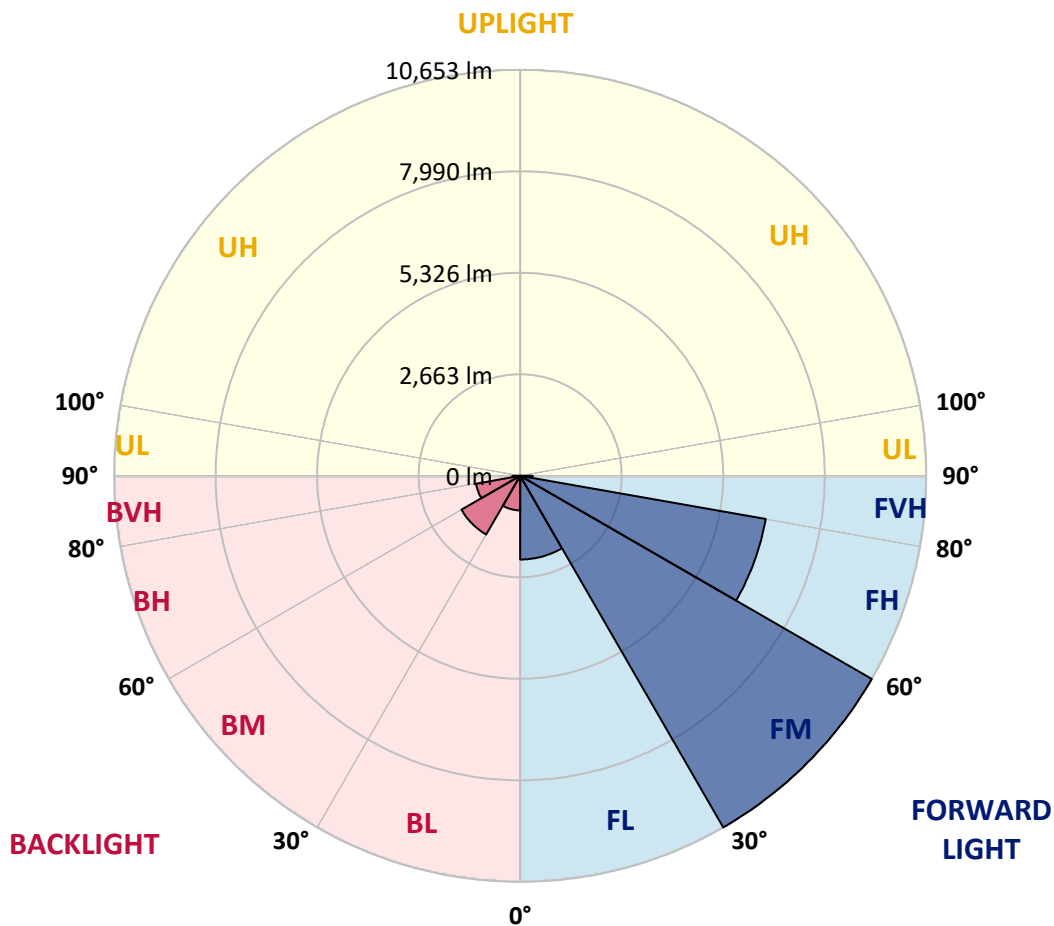


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2195.6	9.2			
FM (30°-60°)	10652.8	44.8			
FH (60°-80°)	6542.0	27.5			G3/7500
FVH (80°-90°)	330.0	1.4			G3/500
BL (0°-30°)	906.4	3.8	B2/1000		
BM (30°-60°)	1778.5	7.5	B2/2500		
BH (60°-80°)	1175.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	200.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5
2.5°	3340.8	3350.8	3330.9	3286.2	3221.5	3102.2	2997.8	2813.9	2649.9	2630.0	2455.9
5°	3927.6	3937.4	3912.6	3858.0	3788.3	3659.1	3514.9	3276.2	3012.8	2963.0	2595.1
7.5°	4330.2	4335.2	4305.4	4250.6	4196.0	4066.7	3922.5	3654.0	3330.9	3291.1	2774.1
10°	4673.2	4683.2	4643.4	4608.5	4548.9	4419.6	4270.5	3987.2	3654.0	3599.3	2958.0
12.5°	4991.4	5001.4	4976.5	4946.7	4926.8	4807.4	4643.4	4305.4	3947.4	3887.8	3176.8
15°	5205.2	5215.2	5220.1	5259.8	5284.8	5200.2	5036.2	4668.2	4265.6	4210.9	3435.3
17.5°	5145.6	5170.3	5245.0	5389.1	5543.3	5548.1	5414.1	5026.3	4578.7	4519.1	3698.9
20°	4971.6	4991.4	5080.9	5299.6	5603.0	5776.9	5766.9	5389.1	4872.1	4807.4	3942.4
22.5°	5115.7	5140.5	5140.5	5274.8	5573.1	5896.1	6025.4	5747.0	5165.4	5105.8	4186.0
25°	5732.2	5747.0	5642.7	5587.9	5697.4	5995.6	6239.2	6134.9	5523.4	5453.7	4449.5
27.5°	6592.2	6567.3	6438.1	6219.4	6100.1	6179.6	6428.2	6502.8	5935.9	5851.5	4722.9
30°	7447.3	7432.5	7283.3	6990.0	6721.5	6552.5	6637.0	6830.9	6383.5	6284.0	4986.5
32.5°	8247.8	8222.9	8058.9	7715.8	7412.5	7099.3	6935.2	7129.1	6860.7	6746.3	5279.7
35°	8983.6	8919.0	8754.8	8396.9	8083.6	7785.4	7382.7	7412.5	7377.7	7258.4	5603.0
37.5°	9580.1	9530.3	9351.4	9018.4	8685.2	8401.8	7979.3	7735.7	7934.5	7820.2	5975.7
40°	10107.1	10052.4	9868.6	9535.4	9227.2	8958.7	8625.6	8128.5	8561.0	8431.6	6393.5
42.5°	10504.8	10465.1	10315.9	9987.8	9689.4	9445.9	9281.8	8625.6	9212.2	9087.9	6850.8
45°	10718.6	10678.8	10599.2	10335.8	10062.3	9873.4	9888.4	9217.2	9893.3	9789.0	7392.7
47.5°	10455.1	10484.9	10554.6	10504.8	10335.8	10246.4	10430.2	9828.8	10654.0	10554.6	7979.3
50°	9749.2	9779.0	10057.5	10400.4	10460.1	10569.4	10917.5	10534.7	11459.3	11379.8	8705.1
52.5°	8014.0	8178.2	8948.8	9769.1	10330.8	10783.3	11459.3	11583.6	12816.5	12816.5	9987.8
55°	6055.2	6199.5	7079.5	8511.3	9828.8	10803.1	11857.1	12294.6	13795.9	13815.9	10658.9
57.5°	4907.0	4996.4	5428.9	6895.5	8774.7	10554.6	12329.4	12906.0	14611.4	14700.9	11524.0
60°	3982.2	4031.8	4315.3	5334.5	7318.0	9883.4	12667.4	13781.1	15774.7	15899.0	12627.6
62.5°	3201.7	3251.3	3440.2	4051.8	5742.1	8625.6	12607.8	14690.9	17325.8	17529.5	14074.3
65°	2555.3	2610.1	2734.3	3112.1	4255.6	7064.4	11996.2	15158.2	18931.6	19130.4	15033.8
67.5°	1993.6	2043.2	2127.9	2376.4	2997.8	5284.8	10549.5	14666.0	19652.5	19821.5	15083.6
70°	1506.3	1531.3	1600.8	1759.9	2142.7	3509.9	8257.7	13015.4	19006.0	19160.2	14089.3
72.5°	1168.3	1163.3	1203.1	1282.7	1496.5	2416.2	5473.7	10584.4	16803.7	16962.8	12021.1
75°	954.5	949.6	974.4	999.2	1083.8	1620.8	3231.5	7969.4	13562.4	13259.0	9018.4
77.5°	805.4	800.5	825.2	830.3	865.0	1118.6	1839.5	5245.0	9048.2	8526.1	5080.9
80°	681.1	676.1	706.0	715.8	740.8	820.3	1058.9	2838.8	4544.0	4305.4	2426.1
82.5°	512.1	532.0	586.6	611.6	641.4	606.5	656.2	1252.8	2107.9	2013.4	1054.0
85°	248.6	293.4	442.5	492.2	526.9	382.9	447.4	591.6	949.6	904.7	427.5
87.5°	84.5	74.7	263.6	313.2	343.1	174.0	248.6	328.1	392.8	358.0	134.3
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°	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5
2.5°	2381.3	2306.8	2197.4	2112.8	2058.2	2013.4	1993.6	1988.6	1978.6	1973.7	1973.7
5°	2431.1	2296.8	2127.9	2038.3	2013.4	1993.6	2003.5	2008.5	2008.5	2008.5	2008.5
7.5°	2505.7	2316.8	2112.8	2053.2	2048.3	2048.3	2078.1	2093.0	2102.9	2102.9	2102.9
10°	2605.1	2351.5	2137.7	2088.1	2102.9	2112.8	2147.7	2167.6	2177.5	2182.5	2187.5
12.5°	2739.3	2426.1	2187.5	2147.7	2167.6	2172.5	2197.4	2207.4	2217.3	2222.3	2222.3
15°	2918.4	2535.5	2267.0	2217.3	2222.3	2217.3	2217.3	2207.4	2202.3	2202.3	2212.3
17.5°	3102.2	2639.9	2336.6	2267.0	2247.1	2207.4	2177.5	2152.6	2137.7	2127.9	2132.7
20°	3286.2	2734.3	2376.4	2277.0	2222.3	2157.7	2102.9	2068.2	2048.3	2028.4	2038.3
22.5°	3470.1	2823.8	2391.2	2247.1	2167.6	2073.0	2013.4	1958.8	1914.0	1884.1	1889.2
25°	3674.0	2923.2	2391.2	2212.3	2093.0	1993.6	1919.0	1829.5	1764.9	1740.1	1750.0
27.5°	3877.8	3007.8	2366.4	2147.7	2008.5	1909.1	1799.7	1695.2	1655.5	1640.6	1645.6
30°	4081.6	3072.4	2311.7	2068.2	1919.0	1809.7	1665.4	1595.8	1546.1	1506.3	1511.4
32.5°	4285.4	3117.1	2237.2	1968.8	1824.5	1685.4	1566.0	1486.5	1397.0	1347.2	1352.3
35°	4519.1	3151.9	2147.7	1869.3	1720.2	1575.9	1486.5	1357.2	1262.8	1223.0	1213.1
37.5°	4762.7	3176.8	2053.2	1759.9	1615.7	1496.5	1406.9	1247.8	1158.3	1103.6	1098.7
40°	5026.3	3186.8	1939.0	1645.6	1516.3	1446.7	1302.6	1183.2	1029.1	994.3	994.3
42.5°	5339.4	3181.7	1824.5	1531.3	1406.9	1332.4	1228.0	1173.2	1039.0	1004.2	984.3
45°	5697.4	3181.7	1700.3	1397.0	1297.6	1188.2	1143.4	1108.7	1019.2	1034.0	1044.0
47.5°	6105.1	3171.8	1551.2	1287.6	1208.1	1113.6	1088.8	1014.2	979.4	989.4	999.2
50°	6666.8	3186.8	1416.9	1198.1	1143.4	1063.8	1034.0	994.3	979.4	984.3	979.4
52.5°	7447.3	3137.1	1287.6	1143.4	1093.6	989.4	989.4	984.3	989.4	984.3	984.3
55°	7874.9	3027.7	1193.1	1113.6	1058.9	954.5	974.4	984.3	994.3	989.4	989.4
57.5°	8481.5	2953.1	1118.6	1093.6	1039.0	944.5	964.4	984.3	989.4	984.3	984.3
60°	9197.3	2903.3	1068.9	1098.7	1024.1	944.5	969.4	984.3	979.4	974.4	974.4
62.5°	10027.6	2883.5	1034.0	1113.6	1009.2	949.6	969.4	984.3	964.4	959.6	959.6
65°	10340.8	2704.5	989.4	1123.5	1019.2	949.6	964.4	969.4	944.5	939.6	934.6
67.5°	9858.6	2396.3	924.7	1103.6	1049.0	949.6	949.6	944.5	914.7	909.8	899.9
70°	8779.7	1988.6	825.2	1039.0	1068.9	954.5	929.7	904.7	874.9	874.9	855.1
72.5°	7188.8	1566.0	696.0	924.7	1054.0	969.4	889.9	855.1	820.3	820.3	800.5
75°	5180.3	1168.3	556.7	770.6	989.4	964.4	840.2	795.4	755.6	750.7	725.8
77.5°	2953.1	820.3	452.5	601.6	880.0	939.6	795.4	725.8	681.1	666.2	651.3
80°	1516.3	551.9	367.8	472.3	730.8	870.0	760.7	646.3	596.5	571.8	546.9
82.5°	720.9	367.8	283.4	348.0	551.9	760.7	715.8	556.7	502.1	472.3	442.5
85°	323.2	218.7	188.9	223.8	392.8	591.6	631.4	457.4	392.8	492.2	363.0
87.5°	104.5	99.4	99.4	104.5	188.9	258.5	462.3	338.0	313.2	258.5	218.7
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)