

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: P236875

Luminaire Tested: **ARCH-L-AF72-220-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236875
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-AF72-220-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 26230 lumens
Efficiency: N/A
Efficacy: 118.2 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

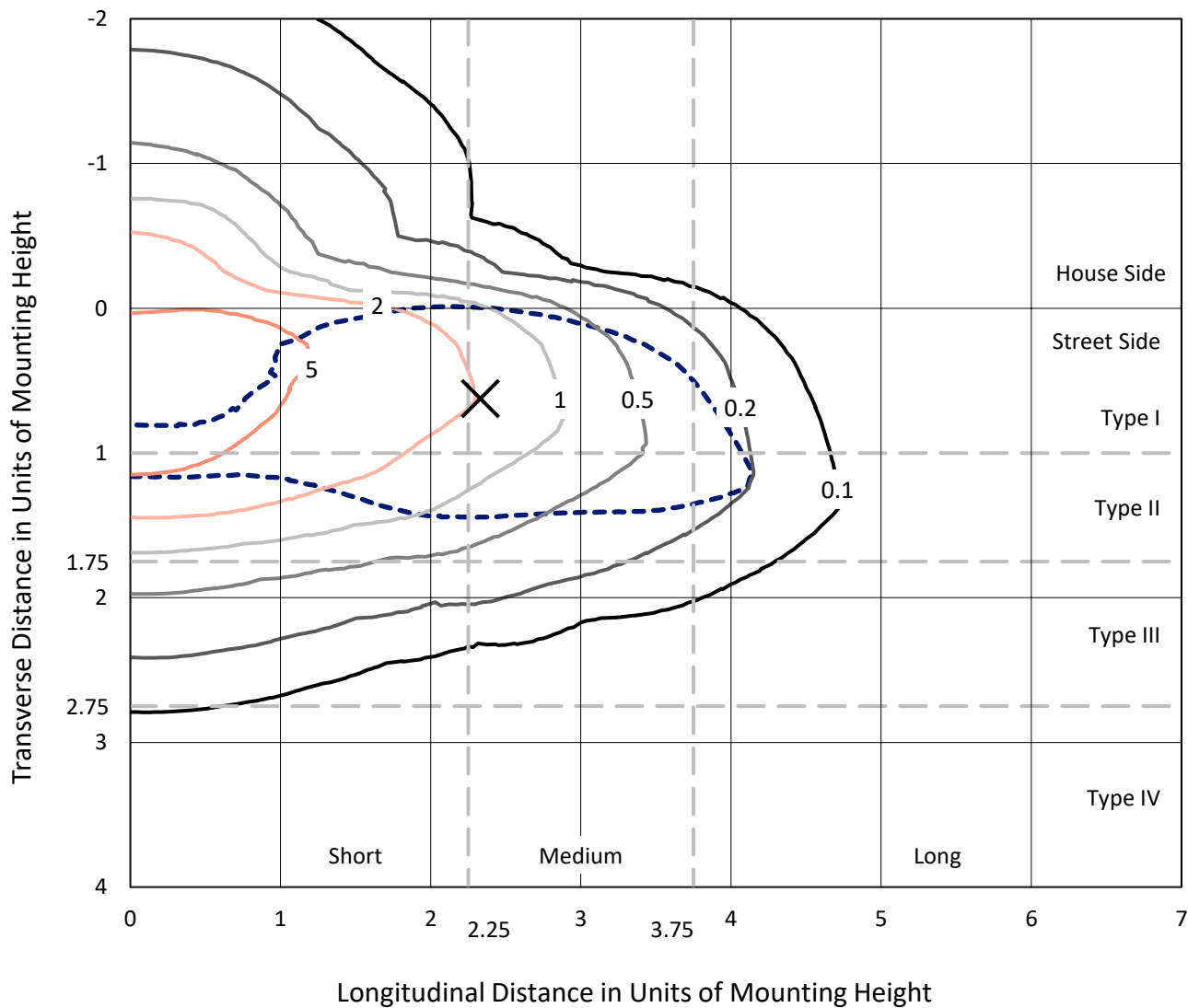
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

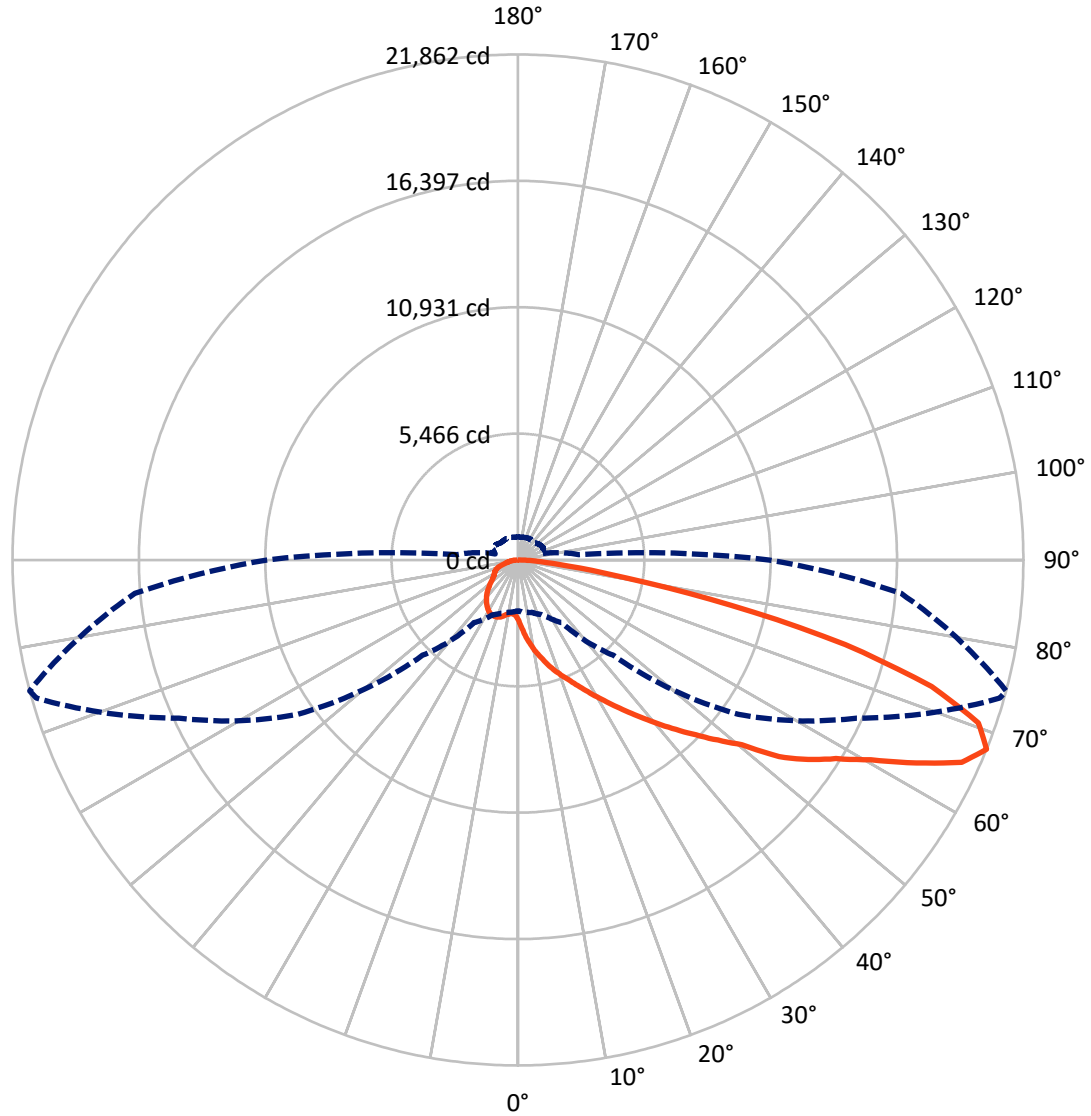
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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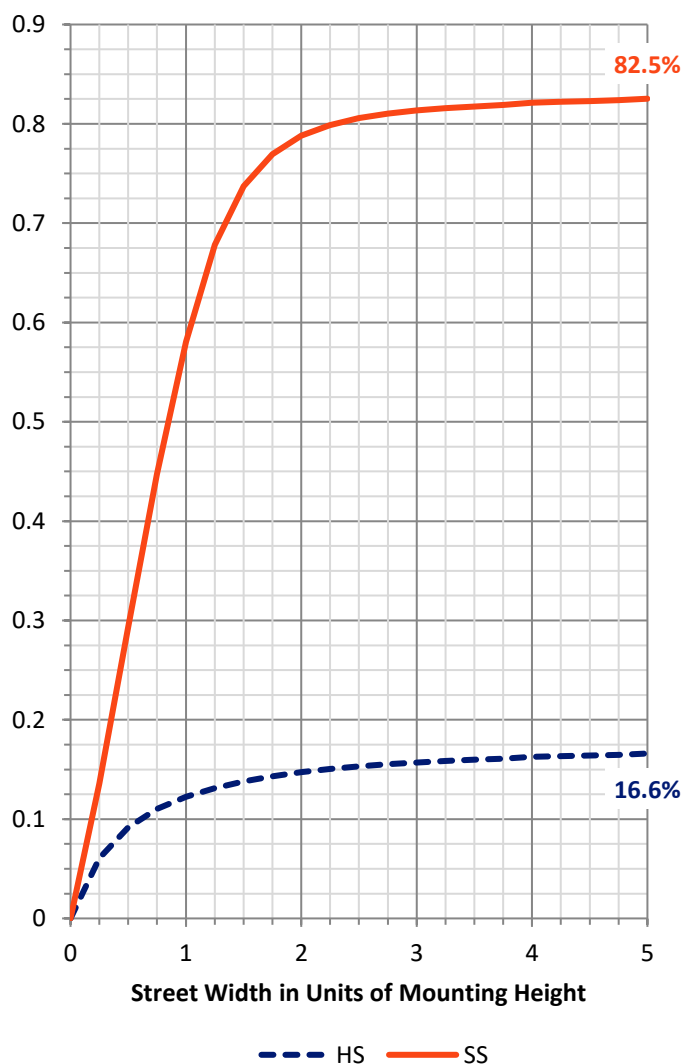
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4479.1	0.0	4479.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	21750.9	0.0	21750.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	26230.0	0.0	26230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	1.2
10°-20°	1103.5	4.2
20°-30°	2012.6	7.7
30°-40°	3303.6	12.6
40°-50°	4777.4	18.2
50°-60°	5630.2	21.5
60°-70°	5471.2	20.9
70°-80°	3041.2	11.6
80°-90°	584.8	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°	26230.0	100.0
0°-180°	26230.0	100.0

Coefficient of Utilization

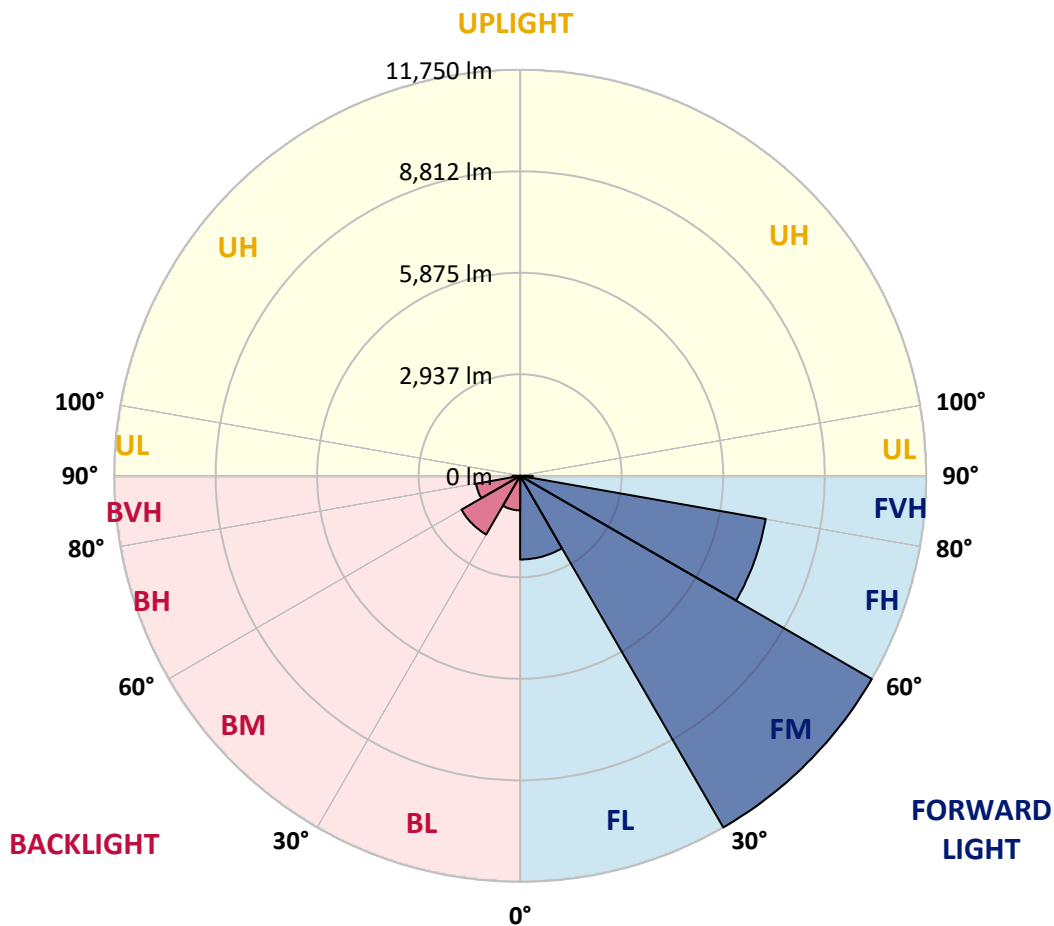


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2421.7	9.2			
FM (30°-60°)	11749.6	44.8			
FH (60°-80°)	7215.6	27.5			G3/7500
FVH (80°-90°)	363.9	1.4			G3/500
BL (0°-30°)	999.7	3.8	B2/1000		
BM (30°-60°)	1961.6	7.5	B2/2500		
BH (60°-80°)	1296.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	220.8	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°	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1
2.5°	3684.9	3695.8	3673.9	3624.5	3553.2	3421.6	3306.5	3103.6	2922.7	2900.7	2708.8
5°	4331.9	4342.9	4315.4	4255.1	4178.4	4035.8	3876.8	3613.6	3322.9	3268.1	2862.3
7.5°	4776.0	4781.5	4748.6	4688.3	4628.0	4485.4	4326.4	4030.3	3673.9	3630.0	3059.7
10°	5154.4	5165.4	5121.5	5083.1	5017.3	4874.8	4710.2	4397.7	4030.3	3970.0	3262.6
12.5°	5505.3	5516.3	5488.9	5456.0	5434.1	5302.5	5121.5	4748.6	4353.8	4288.0	3503.9
15°	5741.1	5752.1	5757.6	5801.4	5828.9	5735.6	5554.7	5148.9	4704.8	4644.4	3789.0
17.5°	5675.3	5702.7	5785.0	5944.0	6114.0	6119.5	5971.4	5543.7	5050.2	4984.4	4079.7
20°	5483.4	5505.3	5604.0	5845.3	6179.8	6371.7	6360.8	5944.0	5373.7	5302.5	4348.3
22.5°	5642.4	5669.8	5669.8	5817.9	6146.9	6503.3	6645.9	6338.8	5697.3	5631.5	4617.0
25°	6322.4	6338.8	6223.7	6163.4	6284.0	6613.0	6881.7	6766.5	6092.1	6015.3	4907.7
27.5°	7271.0	7243.6	7101.0	6859.7	6728.1	6815.9	7090.0	7172.3	6547.2	6454.0	5209.2
30°	8214.1	8197.7	8033.2	7709.7	7413.6	7227.1	7320.4	7534.2	7040.7	6931.0	5499.9
32.5°	9097.0	9069.6	8888.6	8510.3	8175.8	7830.3	7649.4	7863.2	7567.1	7441.0	5823.4
35°	9908.5	9837.2	9656.3	9261.5	8916.0	8587.0	8142.9	8175.8	8137.4	8005.8	6179.8
37.5°	10566.5	10511.7	10314.3	9946.9	9579.5	9267.0	8800.9	8532.2	8751.5	8625.4	6591.1
40°	11147.8	11087.5	10884.6	10517.2	10177.2	9881.1	9513.7	8965.4	9442.4	9299.9	7051.7
42.5°	11586.4	11542.6	11378.1	11016.2	10687.2	10418.5	10237.5	9513.7	10160.8	10023.7	7556.1
45°	11822.2	11778.4	11690.6	11400.0	11098.4	10890.1	10906.5	10166.2	10912.0	10796.8	8153.8
47.5°	11531.6	11564.5	11641.3	11586.4	11400.0	11301.3	11504.2	10840.7	11750.9	11641.3	8800.9
50°	10753.0	10785.9	11092.9	11471.3	11537.1	11657.7	12041.6	11619.3	12639.3	12551.5	9601.4
52.5°	8839.3	9020.2	9870.1	10774.9	11394.5	11893.5	12639.3	12776.3	14136.2	14136.2	11016.2
55°	6678.8	6837.8	7808.4	9387.6	10840.7	11915.4	13077.9	13560.5	15216.5	15238.4	11756.4
57.5°	5412.1	5510.8	5987.9	7605.5	9678.2	11641.3	13598.9	14234.9	16115.7	16214.4	12710.5
60°	4392.2	4447.0	4759.6	5883.7	8071.6	10901.0	13971.7	15200.0	17398.9	17535.9	13927.9
62.5°	3531.3	3586.1	3794.5	4469.0	6333.3	9513.7	13905.9	16203.5	19109.7	19334.5	15523.5
65°	2818.5	2878.8	3015.9	3432.6	4693.8	7791.9	13231.5	16718.9	20880.8	21100.2	16581.8
67.5°	2198.8	2253.7	2346.9	2621.1	3306.5	5828.9	11635.8	16176.1	21675.9	21862.4	16636.7
70°	1661.5	1688.9	1765.7	1941.1	2363.3	3871.3	9107.9	14355.6	20963.1	21133.1	15540.0
72.5°	1288.6	1283.1	1327.0	1414.7	1650.5	2664.9	6037.2	11674.2	18533.9	18709.4	13258.9
75°	1052.8	1047.3	1074.7	1102.2	1195.4	1787.6	3564.2	8789.9	14958.7	14624.3	9946.9
77.5°	888.3	882.8	910.2	915.7	954.1	1233.8	2028.9	5785.0	9979.8	9404.0	5604.0
80°	751.2	745.7	778.6	789.6	817.0	904.8	1168.0	3131.0	5011.8	4748.6	2675.9
82.5°	564.8	586.7	647.0	674.5	707.4	669.0	723.8	1381.8	2325.0	2220.8	1162.5
85°	274.2	323.5	488.0	542.9	581.2	422.2	493.5	652.5	1047.3	998.0	471.6
87.5°	93.2	82.3	290.6	345.5	378.4	191.9	274.2	361.9	433.2	394.8	148.1
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°	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1	2599.1
2.5°	2626.6	2544.3	2423.7	2330.4	2270.1	2220.8	2198.8	2193.4	2182.4	2176.9	2176.9
5°	2681.4	2533.3	2346.9	2248.2	2220.8	2198.8	2209.8	2215.3	2215.3	2215.3	2215.3
7.5°	2763.6	2555.3	2330.4	2264.6	2259.2	2259.2	2292.1	2308.5	2319.5	2319.5	2319.5
10°	2873.3	2593.7	2357.9	2303.0	2319.5	2330.4	2368.8	2390.8	2401.7	2407.2	2412.7
12.5°	3021.4	2675.9	2412.7	2368.8	2390.8	2396.2	2423.7	2434.6	2445.6	2451.1	2451.1
15°	3218.8	2796.5	2500.4	2445.6	2451.1	2445.6	2445.6	2434.6	2429.2	2429.2	2440.1
17.5°	3421.6	2911.7	2577.2	2500.4	2478.5	2434.6	2401.7	2374.3	2357.9	2346.9	2352.4
20°	3624.5	3015.9	2621.1	2511.4	2451.1	2379.8	2319.5	2281.1	2259.2	2237.2	2248.2
22.5°	3827.4	3114.6	2637.5	2478.5	2390.8	2286.6	2220.8	2160.5	2111.1	2078.2	2083.7
25°	4052.2	3224.2	2637.5	2440.1	2308.5	2198.8	2116.6	2017.9	1946.6	1919.2	1930.2
27.5°	4277.1	3317.5	2610.1	2368.8	2215.3	2105.6	1985.0	1869.8	1826.0	1809.5	1815.0
30°	4501.9	3388.7	2549.8	2281.1	2116.6	1996.0	1836.9	1760.2	1705.3	1661.5	1667.0
32.5°	4726.7	3438.1	2467.5	2171.4	2012.4	1858.9	1727.3	1639.5	1540.8	1486.0	1491.5
35°	4984.4	3476.5	2368.8	2061.8	1897.3	1738.2	1639.5	1497.0	1392.8	1348.9	1338.0
37.5°	5253.1	3503.9	2264.6	1941.1	1782.1	1650.5	1551.8	1376.3	1277.6	1217.3	1211.8
40°	5543.7	3514.9	2138.5	1815.0	1672.4	1595.7	1436.7	1305.1	1135.1	1096.7	1096.7
42.5°	5889.2	3509.4	2012.4	1688.9	1551.8	1469.6	1354.4	1294.1	1146.0	1107.6	1085.7
45°	6284.0	3509.4	1875.3	1540.8	1431.2	1310.5	1261.2	1222.8	1124.1	1140.5	1151.5
47.5°	6733.6	3498.4	1710.8	1420.2	1332.5	1228.3	1200.9	1118.6	1080.2	1091.2	1102.2
50°	7353.3	3514.9	1562.8	1321.5	1261.2	1173.4	1140.5	1096.7	1080.2	1085.7	1080.2
52.5°	8214.1	3460.0	1420.2	1261.2	1206.3	1091.2	1091.2	1085.7	1091.2	1085.7	1085.7
55°	8685.7	3339.4	1316.0	1228.3	1168.0	1052.8	1074.7	1085.7	1096.7	1091.2	1091.2
57.5°	9354.7	3257.1	1233.8	1206.3	1146.0	1041.8	1063.8	1085.7	1091.2	1085.7	1085.7
60°	10144.3	3202.3	1178.9	1211.8	1129.6	1041.8	1069.3	1085.7	1080.2	1074.7	1074.7
62.5°	11060.0	3180.4	1140.5	1228.3	1113.1	1047.3	1069.3	1085.7	1063.8	1058.3	1058.3
65°	11405.5	2983.0	1091.2	1239.3	1124.1	1047.3	1063.8	1069.3	1041.8	1036.4	1030.9
67.5°	10873.6	2643.0	1019.9	1217.3	1157.0	1047.3	1047.3	1041.8	1008.9	1003.5	992.5
70°	9683.7	2193.4	910.2	1146.0	1178.9	1052.8	1025.4	998.0	965.1	965.1	943.1
72.5°	7929.0	1727.3	767.7	1019.9	1162.5	1069.3	981.5	943.1	904.8	904.8	882.8
75°	5713.7	1288.6	614.1	849.9	1091.2	1063.8	926.7	877.3	833.5	828.0	800.6
77.5°	3257.1	904.8	499.0	663.5	970.6	1036.4	877.3	800.6	751.2	734.8	718.3
80°	1672.4	608.7	405.8	520.9	806.1	959.6	839.0	712.8	658.0	630.6	603.2
82.5°	795.1	405.8	312.6	383.8	608.7	839.0	789.6	614.1	553.8	520.9	488.0
85°	356.4	241.3	208.4	246.8	433.2	652.5	696.4	504.5	433.2	542.9	400.3
87.5°	115.2	109.7	109.7	115.2	208.4	285.1	510.0	372.9	345.5	285.1	241.3
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)