

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: P572843

Luminaire Tested: **ARCH-S-PA2-120-750-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-120-750-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15688 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

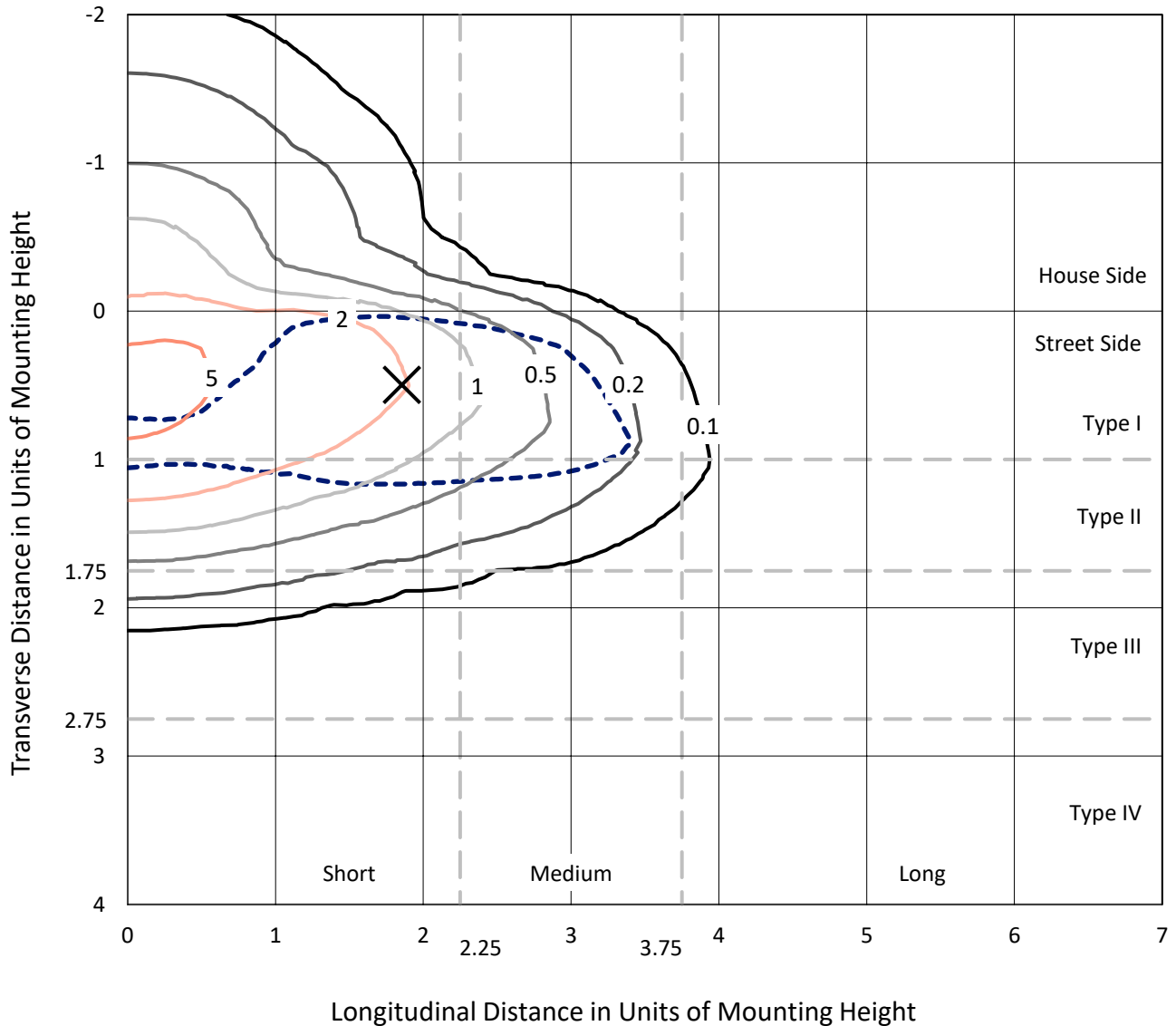
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

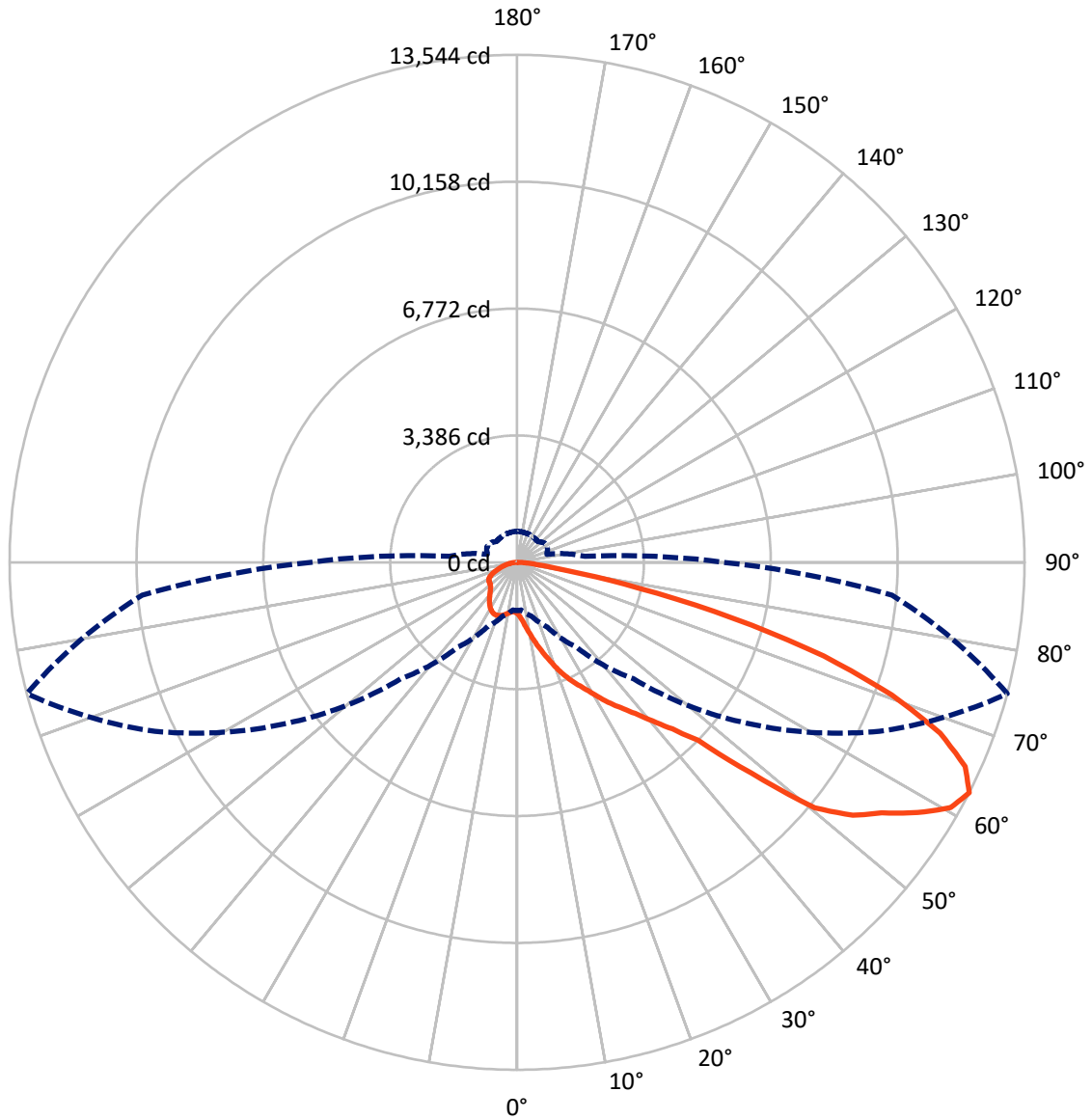
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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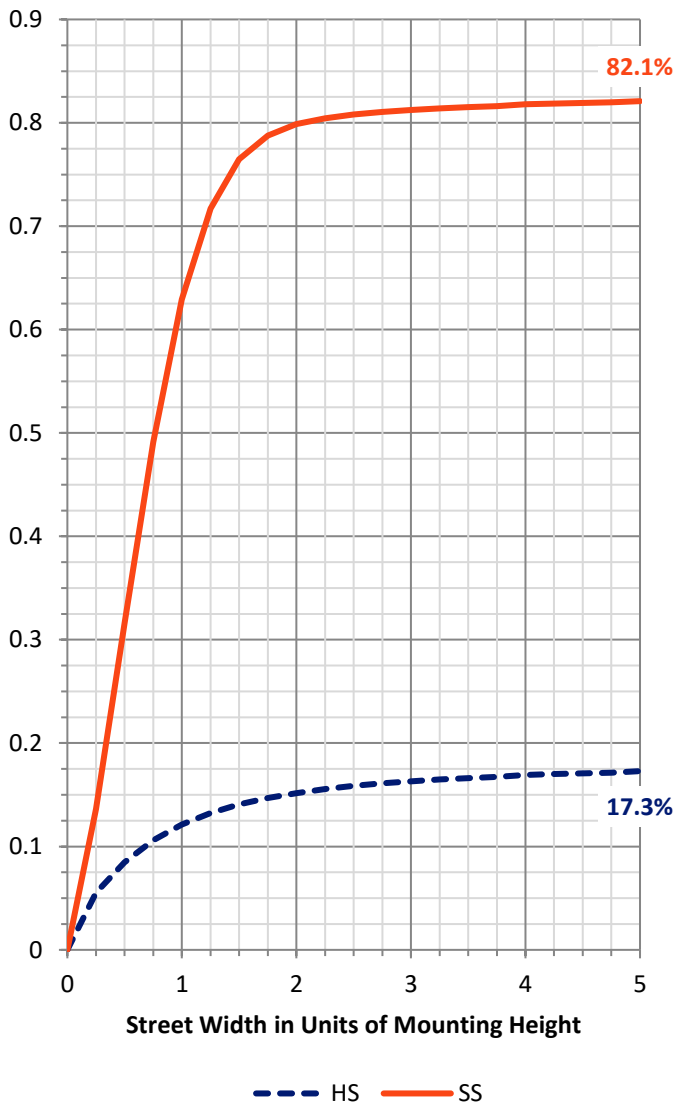
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2766.9	0.0	2766.9
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	12921.1	0.0	12921.1
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	15688.0	0.0	15688.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.3	1.0
10°-20°	649.2	4.1
20°-30°	1284.3	8.2
30°-40°	2140.7	13.6
40°-50°	3158.9	20.1
50°-60°	3797.3	24.2
60°-70°	2951.3	18.8
70°-80°	1305.6	8.3
80°-90°	236.4	1.5
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°	15688.0	100.0
0°-180°	15688.0	100.0

**Coefficient of Utilization**



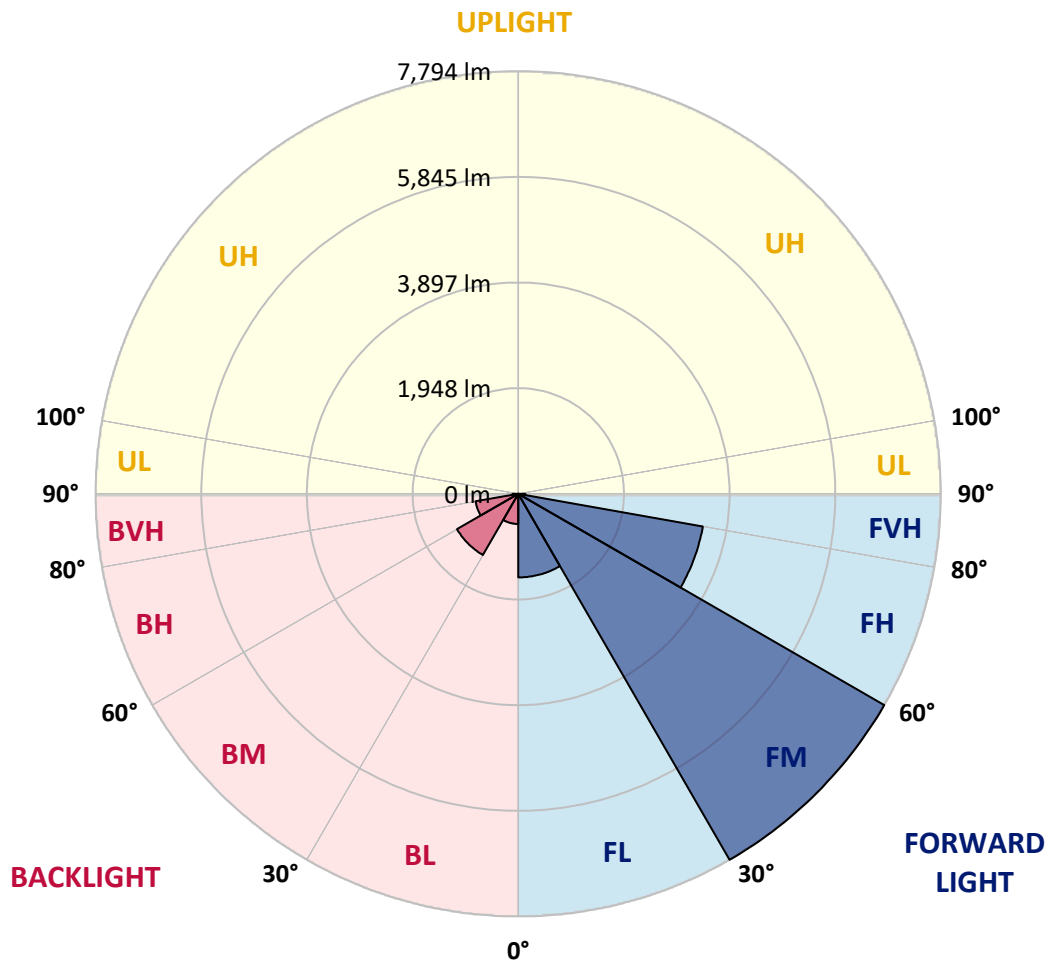
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.0	9.8			
FM (30°-60°)	7793.8	49.7			
FH (60°-80°)	3456.4	22.0			G2/5000
FVH (80°-90°)	129.9	0.8			G2/225
BL (0°-30°)	556.8	3.5	B2/1000		
BM (30°-60°)	1303.2	8.3	B2/2500		
BH (60°-80°)	800.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	106.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5
2.5°	1748.5	1697.7	1697.7	1642.7	1646.9	1600.3	1549.5	1498.7	1443.7	1401.3	1380.2
5°	2286.2	2248.1	2235.4	2171.9	2070.3	1956.0	1833.2	1706.2	1574.9	1473.3	1422.5
7.5°	2790.0	2760.3	2743.4	2671.4	2531.7	2409.0	2214.2	1981.4	1757.0	1566.5	1490.2
10°	3162.5	3141.4	3107.5	3073.6	2972.0	2866.2	2624.9	2294.6	1964.4	1680.8	1566.5
12.5°	3433.5	3403.9	3403.9	3399.6	3331.9	3234.5	3010.1	2654.5	2205.7	1807.8	1651.1
15°	3615.5	3611.3	3624.0	3649.4	3632.5	3569.0	3344.6	2984.7	2451.3	1951.7	1748.5
17.5°	3751.0	3734.1	3759.5	3827.2	3878.0	3852.6	3666.3	3302.3	2722.2	2108.4	1854.3
20°	3899.2	3865.3	3899.2	3983.9	4047.4	4085.5	3996.6	3607.1	3014.4	2277.7	1956.0
22.5°	4182.9	4178.6	4161.7	4187.1	4229.4	4297.2	4246.4	3916.1	3298.0	2447.1	2074.5
25°	4690.9	4644.3	4597.8	4542.7	4496.1	4517.3	4475.0	4204.0	3556.3	2633.3	2176.1
27.5°	5258.2	5207.4	5122.7	4987.3	4860.2	4784.0	4695.1	4453.8	3806.1	2802.7	2273.5
30°	5778.9	5762.0	5635.0	5486.8	5266.7	5127.0	4957.6	4741.7	4106.6	2989.0	2375.1
32.5°	6265.8	6231.9	6104.9	5948.3	5690.0	5533.4	5300.5	5055.0	4449.6	3217.6	2480.9
35°	6684.9	6651.1	6502.9	6303.9	6079.5	5944.1	5677.3	5334.4	4762.9	3416.6	2569.8
37.5°	7002.5	6964.4	6824.7	6629.9	6430.9	6367.4	6138.8	5690.0	5118.5	3666.3	2679.9
40°	7180.3	7133.7	7040.6	6905.1	6740.0	6710.3	6613.0	6130.3	5567.3	3971.2	2840.8
42.5°	7201.5	7159.1	7108.3	7095.6	7082.9	7108.3	7154.9	6629.9	6079.5	4377.6	3077.9
45°	7015.2	6989.8	6994.0	7137.9	7336.9	7569.8	7849.2	7366.6	6769.6	5152.4	3611.3
47.5°	6617.2	6604.5	6697.6	6939.0	7383.5	7912.7	8704.4	8628.2	8403.8	6401.3	4297.2
50°	5973.7	5952.5	6151.5	6532.5	7167.6	8027.0	9280.2	10114.2	10300.5	7370.8	4745.9
52.5°	5050.8	5076.2	5385.2	5906.0	6672.2	7904.2	9517.3	10723.9	11215.0	8086.3	5088.9
55°	4106.6	4068.5	4348.0	4991.5	5939.8	7455.5	9563.8	11075.3	11807.7	8746.7	5423.3
57.5°	2993.2	3086.3	3382.7	3966.9	4995.7	6642.6	9292.9	11316.6	12603.6	9407.2	5732.4
60°	2027.9	2027.9	2290.4	2874.7	3861.1	5656.2	8568.9	11227.7	13297.9	9923.7	5800.1
62.5°	1291.3	1278.6	1490.2	1905.1	2764.6	4394.5	7485.1	10668.8	13543.5	10046.5	5516.5
65°	817.1	834.0	910.2	1164.3	1769.7	3120.2	6007.6	9555.4	13141.3	9762.8	5021.1
67.5°	656.2	660.5	698.6	804.4	1088.1	2002.5	4453.8	8018.5	12180.2	9047.3	4441.1
70°	580.0	588.5	596.9	635.0	745.1	1265.9	2925.5	6456.3	10605.3	7802.6	3818.8
72.5°	529.2	537.7	546.1	554.6	613.9	825.6	1727.3	4894.1	8556.2	5994.9	2912.8
75°	486.9	495.3	495.3	499.6	533.4	613.9	948.3	3374.2	5956.8	3729.9	1816.2
77.5°	436.1	440.3	440.3	448.8	482.6	482.6	588.5	2087.2	3306.5	1689.2	918.7
80°	368.3	376.8	376.8	389.5	423.4	372.6	393.7	1066.9	1371.7	694.3	410.7
82.5°	271.0	287.9	296.4	317.5	338.7	283.7	283.7	537.7	580.0	309.1	220.2
85°	148.2	152.4	220.2	237.1	249.8	169.3	190.5	266.7	287.9	135.5	110.1
87.5°	42.3	46.6	105.8	131.2	118.5	72.0	80.4	101.6	101.6	38.1	29.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5
2.5°	1363.2	1329.4	1299.7	1278.6	1257.4	1244.7	1240.5	1232.0	1232.0	1236.2
5°	1380.2	1320.9	1274.3	1248.9	1232.0	1223.5	1219.3	1219.3	1223.5	1223.5
7.5°	1422.5	1333.6	1291.3	1270.1	1253.2	1244.7	1244.7	1240.5	1244.7	1244.7
10°	1481.8	1371.7	1325.1	1299.7	1287.0	1274.3	1270.1	1265.9	1265.9	1265.9
12.5°	1545.3	1414.0	1363.2	1333.6	1312.4	1295.5	1287.0	1278.6	1274.3	1274.3
15°	1604.6	1456.4	1388.6	1354.8	1325.1	1299.7	1282.8	1270.1	1265.9	1265.9
17.5°	1668.1	1486.0	1405.6	1359.0	1320.9	1287.0	1265.9	1248.9	1240.5	1240.5
20°	1735.8	1507.2	1405.6	1346.3	1295.5	1261.6	1236.2	1219.3	1202.4	1202.4
22.5°	1790.8	1515.6	1388.6	1316.7	1265.9	1223.5	1198.1	1177.0	1164.3	1164.3
25°	1837.4	1507.2	1350.5	1270.1	1210.8	1172.7	1147.3	1130.4	1117.7	1117.7
27.5°	1867.0	1473.3	1304.0	1219.3	1164.3	1126.2	1109.2	1092.3	1083.8	1083.8
30°	1884.0	1431.0	1244.7	1164.3	1109.2	1088.1	1079.6	1062.6	1049.9	1045.7
32.5°	1892.4	1367.5	1185.4	1109.2	1071.1	1062.6	1062.6	1041.5	1024.5	1020.3
35°	1884.0	1299.7	1126.2	1062.6	1049.9	1054.2	1045.7	1020.3	999.1	990.7
37.5°	1871.3	1219.3	1062.6	1028.8	1041.5	1049.9	1024.5	990.7	956.8	948.3
40°	1862.8	1147.3	1011.8	994.9	1033.0	1037.2	990.7	927.2	901.8	893.3
42.5°	1905.1	1075.3	965.3	969.5	1011.8	1016.1	931.4	901.8	884.8	880.6
45°	2049.1	1011.8	927.2	952.6	986.4	969.5	901.8	897.5	884.8	880.6
47.5°	2159.2	965.3	910.2	939.9	965.3	906.0	897.5	893.3	880.6	876.4
50°	2197.3	935.6	906.0	931.4	935.6	876.4	889.1	889.1	876.4	872.1
52.5°	2201.5	918.7	914.5	927.2	889.1	863.7	880.6	880.6	867.9	863.7
55°	2218.4	910.2	918.7	927.2	838.3	846.7	863.7	867.9	855.2	851.0
57.5°	2184.6	897.5	927.2	931.4	817.1	829.8	846.7	846.7	846.7	846.7
60°	2053.3	872.1	922.9	922.9	800.2	808.6	825.6	834.0	838.3	838.3
62.5°	1812.0	821.3	897.5	897.5	783.2	791.7	812.9	812.9	825.6	825.6
65°	1507.2	749.4	846.7	842.5	766.3	774.8	800.2	791.7	812.9	817.1
67.5°	1257.4	660.5	770.5	779.0	749.4	770.5	787.5	757.8	800.2	800.2
70°	1003.4	554.6	668.9	707.0	719.7	774.8	762.1	715.5	770.5	757.8
72.5°	779.0	469.9	550.4	618.1	685.9	770.5	707.0	656.2	690.1	668.9
75°	567.3	389.5	453.0	512.3	639.3	757.8	652.0	575.8	575.8	567.3
77.5°	398.0	317.5	364.1	406.4	592.7	724.0	584.2	495.3	474.2	469.9
80°	271.0	249.8	287.9	313.3	525.0	656.2	503.8	410.7	372.6	364.1
82.5°	177.8	177.8	194.7	211.7	406.4	546.1	393.7	304.8	393.7	376.8
85°	101.6	105.8	105.8	122.8	224.4	385.3	279.4	304.8	182.0	169.3
87.5°	33.9	33.9	33.9	33.9	46.6	156.6	118.5	110.1	42.3	38.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)