

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: P842370

Luminaire Tested: **ARCH4-40-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6703 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

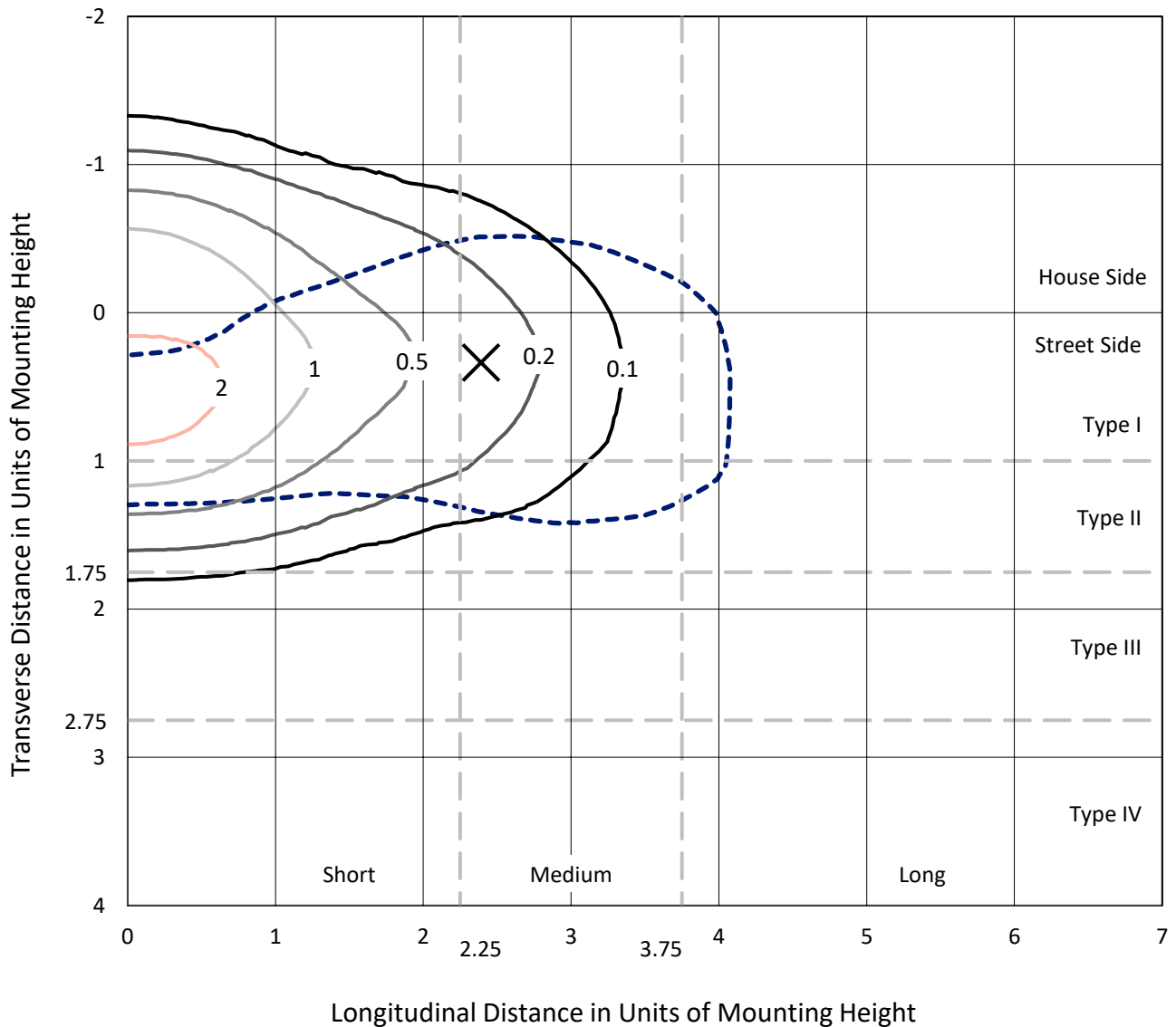
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

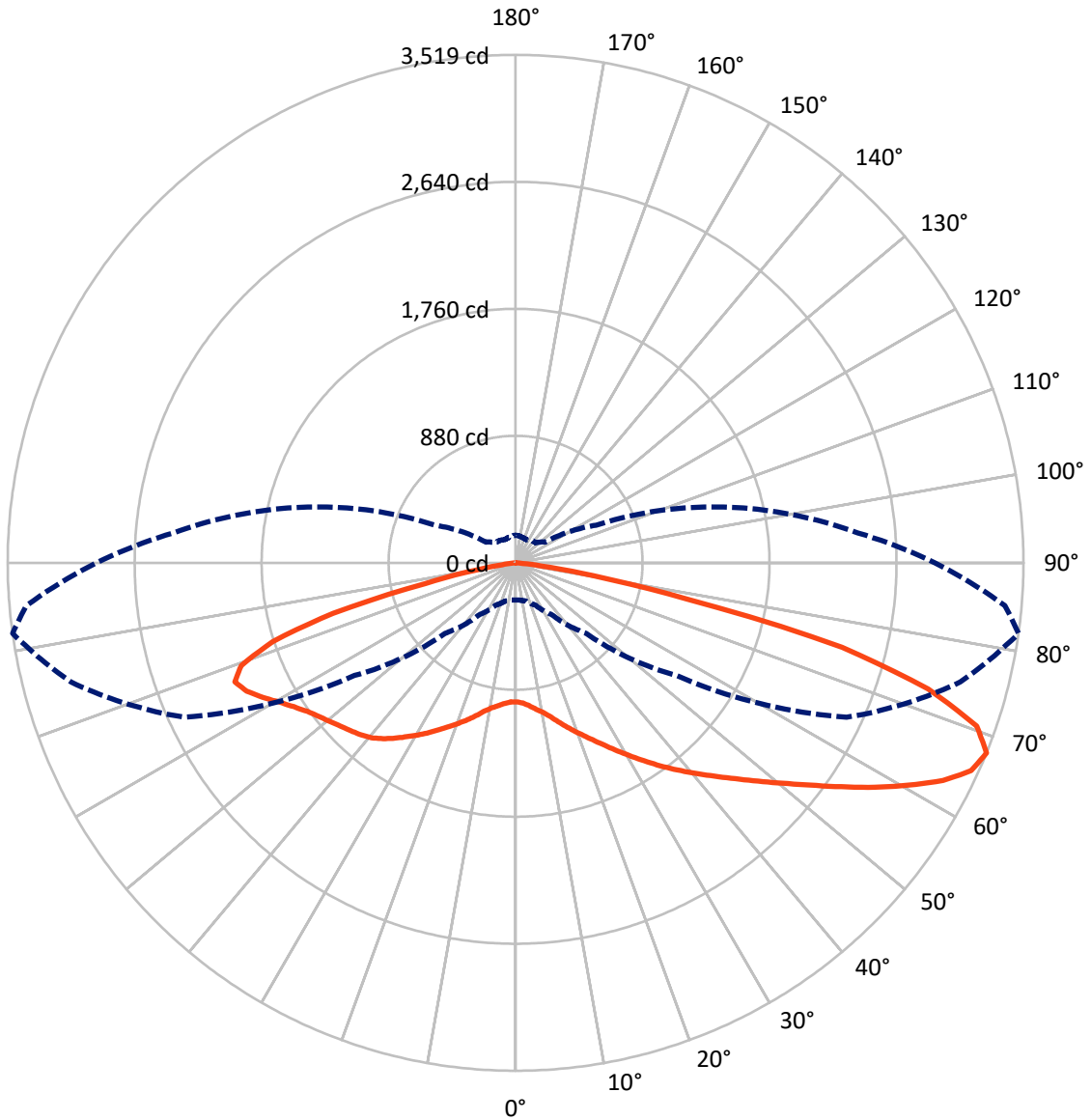
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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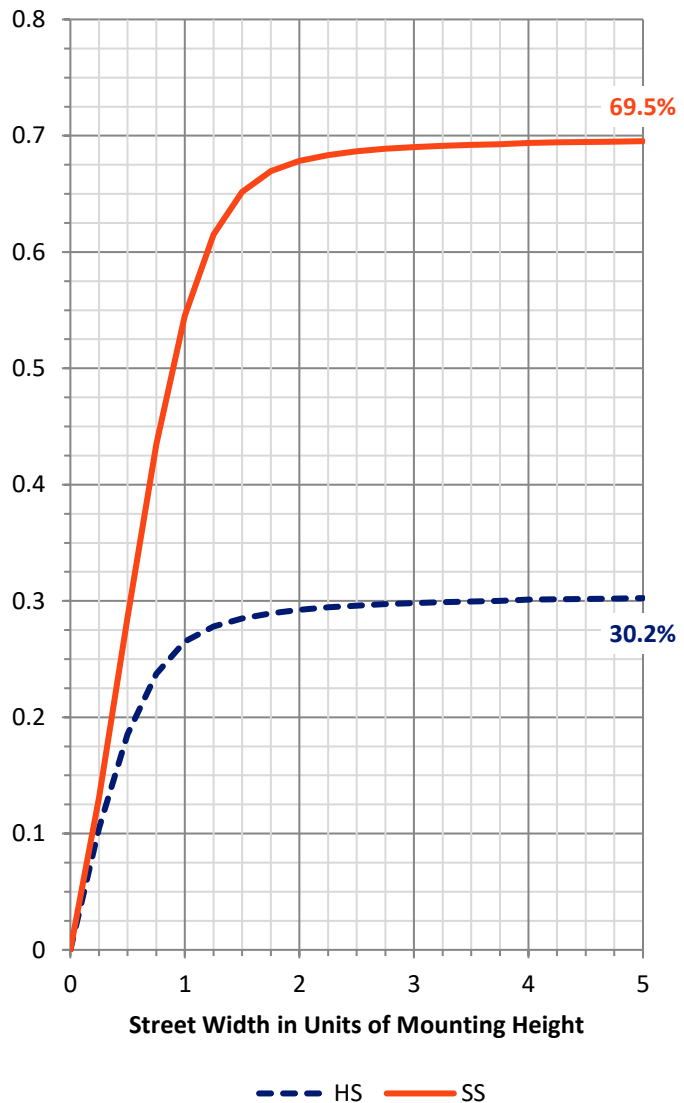
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2041.3	0.0	2041.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4661.7	0.0	4661.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	6703.0	0.0	6703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.5
10°-20°	358.7	5.4
20°-30°	720.9	10.8
30°-40°	1132.4	16.9
40°-50°	1379.5	20.6
50°-60°	1303.4	19.4
60°-70°	1076.3	16.1
70°-80°	586.1	8.7
80°-90°	46.1	0.7
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°	6703.0	100.0
0°-180°	6703.0	100.0

Coefficient of Utilization

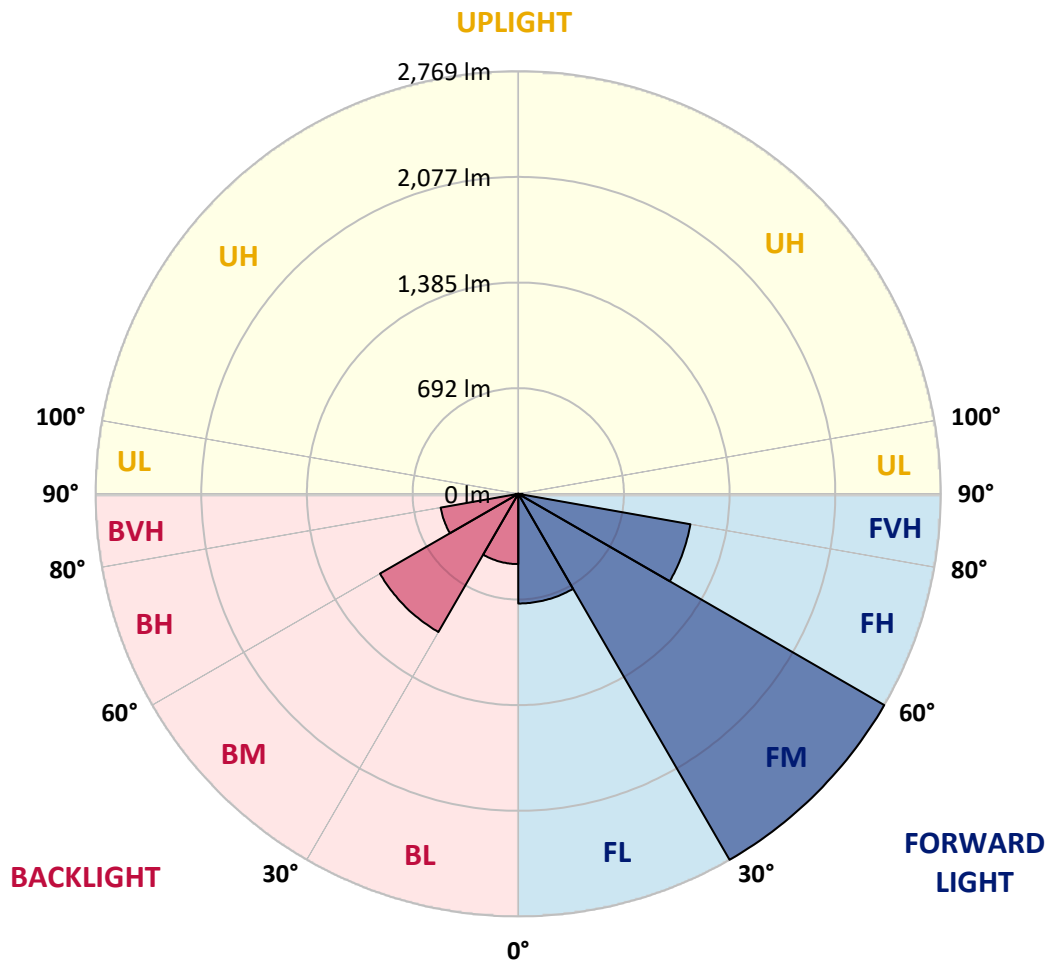


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.8	10.7			
FM (30°-60°)	2769.3	41.3			
FH (60°-80°)	1145.8	17.1			G1/1800
FVH (80°-90°)	27.8	0.4			G1/100
BL (0°-30°)	460.3	6.9	B1/500		
BM (30°-60°)	1046.0	15.6	B2/2500		
BH (60°-80°)	516.7	7.7	B2/1000		G2/1000
BVH (80°-90°)	18.3	0.3			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6
2.5°	1007.4	1007.4	1015.1	1015.1	1008.3	997.6	994.7	983.0	972.3	972.3	973.3
5°	1103.7	1102.7	1108.6	1100.8	1084.2	1062.8	1048.2	1022.9	1001.5	994.7	993.7
7.5°	1221.5	1220.5	1223.4	1210.8	1179.6	1144.6	1115.4	1074.5	1039.5	1024.9	1021.0
10°	1352.9	1351.9	1349.0	1327.6	1285.7	1231.2	1187.4	1131.0	1078.4	1055.0	1050.2
12.5°	1503.7	1501.8	1495.0	1463.8	1406.4	1336.3	1273.1	1200.1	1130.0	1097.9	1087.2
15°	1672.1	1669.2	1656.5	1618.6	1541.7	1453.1	1371.4	1277.9	1192.3	1150.4	1135.8
17.5°	1849.2	1849.2	1829.8	1773.3	1687.7	1577.7	1476.5	1357.7	1257.5	1205.9	1188.4
20°	2029.3	2028.3	2004.0	1935.9	1834.6	1708.1	1579.6	1449.2	1324.6	1262.4	1240.9
22.5°	2219.1	2217.1	2187.0	2109.1	1988.4	1845.3	1695.5	1539.7	1398.6	1323.7	1296.4
25°	2437.1	2434.2	2397.2	2301.8	2158.7	1997.2	1825.9	1645.8	1483.3	1391.8	1359.7
27.5°	2668.7	2664.9	2621.1	2510.1	2353.4	2158.7	1969.9	1768.5	1576.7	1467.7	1431.7
30°	2875.1	2872.2	2824.5	2710.6	2530.5	2319.3	2107.2	1891.1	1675.0	1548.5	1503.7
32.5°	3030.8	3030.8	2988.0	2876.1	2689.2	2473.1	2245.4	2006.9	1777.2	1635.1	1582.6
35°	3125.2	3128.1	3091.2	3001.6	2825.4	2618.1	2388.4	2143.2	1886.2	1727.6	1671.1
37.5°	3138.8	3148.6	3127.2	3066.8	2919.9	2738.8	2528.6	2274.6	1999.1	1821.0	1757.8
40°	3075.6	3082.4	3083.4	3060.0	2958.8	2825.4	2652.2	2413.7	2118.8	1919.3	1846.3
42.5°	2949.1	2953.9	2962.7	2969.5	2930.6	2863.4	2746.6	2543.2	2246.3	2019.6	1933.9
45°	2785.5	2784.6	2799.2	2828.4	2826.4	2842.0	2799.2	2661.0	2378.7	2133.4	2031.2
47.5°	2541.2	2536.4	2588.0	2654.1	2687.2	2760.2	2800.1	2753.4	2522.8	2259.0	2142.2
50°	2158.7	2153.9	2266.8	2422.5	2519.8	2630.8	2746.6	2808.9	2673.6	2400.1	2262.9
52.5°	1693.5	1688.7	1831.7	2104.2	2316.4	2478.0	2638.6	2821.6	2816.7	2557.8	2399.1
55°	1259.4	1255.5	1394.7	1689.6	2033.2	2300.8	2506.2	2788.5	2951.0	2738.8	2564.6
57.5°	887.6	885.7	1006.4	1250.7	1669.2	2084.8	2378.7	2724.2	3074.6	2935.4	2751.5
60°	622.9	620.0	707.6	896.4	1262.4	1758.7	2252.2	2638.6	3167.1	3129.1	2950.0
62.5°	419.5	417.5	479.8	637.5	896.4	1353.8	2060.4	2581.2	3219.6	3323.8	3150.5
65°	318.3	317.3	345.5	432.1	634.6	972.3	1755.8	2574.3	3226.4	3469.8	3320.9
67.5°	256.9	257.9	273.5	323.1	439.0	691.0	1361.6	2531.5	3190.4	3519.4	3403.6
70°	210.2	210.2	217.0	250.1	324.1	466.2	950.9	2336.9	3090.2	3390.0	3305.3
72.5°	160.6	161.6	183.0	202.4	244.3	327.0	609.3	1933.9	2853.7	2989.0	2924.7
75°	127.5	126.5	139.2	166.4	189.8	233.6	373.7	1386.9	2428.3	2335.9	2295.0
77.5°	91.5	90.5	100.2	123.6	144.0	165.5	222.9	699.8	1320.7	1213.7	1183.5
80°	62.3	60.3	69.1	85.6	95.4	97.3	109.0	268.6	576.2	543.1	536.3
82.5°	32.1	32.1	37.0	48.7	49.6	50.6	48.7	86.6	190.8	178.1	170.3
85°	12.7	12.7	13.6	16.5	16.5	17.5	17.5	22.4	20.4	19.5	18.5
87.5°	1.0	1.0	1.9	1.9	2.9	2.9	2.9	3.9	4.9	4.9	4.9
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°	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6
2.5°	971.3	967.4	954.8	951.9	949.9	947.0	948.0	941.2	938.2	939.2	935.3
5°	988.9	982.0	966.5	959.7	957.7	954.8	957.7	952.8	948.0	949.9	948.0
7.5°	1013.2	1003.5	984.0	977.2	976.2	973.3	977.2	973.3	969.4	971.3	967.4
10°	1038.5	1025.8	1004.4	997.6	997.6	996.6	1000.5	994.7	990.8	991.8	989.8
12.5°	1075.5	1058.9	1035.6	1029.7	1026.8	1029.7	1030.7	1022.9	1016.1	1017.1	1014.2
15°	1120.3	1101.8	1076.5	1067.7	1065.7	1064.8	1060.9	1051.1	1042.4	1041.4	1038.5
17.5°	1168.9	1145.6	1115.4	1106.6	1097.9	1094.9	1085.2	1072.6	1058.9	1058.9	1055.0
20°	1215.6	1189.4	1153.3	1140.7	1128.0	1116.4	1099.8	1079.4	1061.9	1058.9	1055.0
22.5°	1266.2	1235.1	1193.2	1174.8	1152.4	1129.0	1100.8	1073.5	1051.1	1046.3	1043.4
25°	1322.7	1283.8	1234.1	1206.9	1170.9	1134.9	1093.0	1058.0	1031.7	1023.9	1021.9
27.5°	1385.0	1338.3	1277.9	1238.0	1185.5	1129.0	1075.5	1033.6	1001.5	991.8	988.9
30°	1448.2	1392.8	1317.8	1259.4	1185.5	1110.5	1043.4	994.7	957.7	944.1	942.1
32.5°	1511.5	1449.2	1353.8	1271.1	1173.8	1079.4	1001.5	944.1	902.2	885.7	889.6
35°	1587.4	1511.5	1386.9	1276.0	1154.3	1041.4	953.8	886.7	843.8	829.2	832.2
37.5°	1666.3	1573.8	1413.2	1272.1	1127.1	998.6	900.3	835.1	781.5	756.2	759.2
40°	1734.4	1630.3	1431.7	1258.5	1092.0	949.9	847.7	762.1	688.1	663.8	660.9
42.5°	1798.6	1672.1	1441.4	1238.0	1052.1	893.5	772.8	662.8	588.8	558.7	559.6
45°	1865.8	1713.0	1437.5	1210.8	1002.5	827.3	676.4	565.5	500.3	473.0	474.0
47.5°	1942.7	1756.8	1433.6	1181.6	942.1	741.6	584.0	479.8	423.4	403.9	402.0
50°	2024.4	1805.4	1428.8	1145.6	875.0	646.3	492.5	400.0	352.3	339.7	336.8
52.5°	2116.9	1858.0	1425.9	1102.7	794.2	545.0	410.7	329.9	297.8	289.1	288.1
55°	2227.9	1919.3	1429.8	1051.1	696.9	449.7	341.6	284.2	262.8	257.9	256.9
57.5°	2363.1	1998.2	1441.4	990.8	594.7	366.9	291.0	256.0	242.3	238.5	238.5
60°	2510.1	2087.7	1462.8	922.7	492.5	302.7	257.9	233.6	227.7	232.6	232.6
62.5°	2668.7	2192.8	1500.8	839.9	397.1	256.0	231.6	215.1	211.2	220.9	221.9
65°	2815.7	2295.0	1525.1	740.7	315.3	221.9	211.2	196.6	198.6	208.3	207.3
67.5°	2906.2	2379.7	1491.1	616.1	250.1	196.6	189.8	177.1	182.0	189.8	190.8
70°	2850.8	2332.0	1322.7	465.2	195.6	171.3	166.4	158.6	162.5	172.3	176.2
72.5°	2579.2	2088.7	1028.8	314.4	157.7	144.0	146.0	142.1	147.0	155.7	164.5
75°	2093.5	1578.7	690.1	201.5	124.6	122.6	125.6	122.6	124.6	133.3	138.2
77.5°	1093.0	769.9	343.6	125.6	92.5	95.4	100.2	101.2	107.1	109.0	111.0
80°	510.0	346.5	143.1	70.1	61.3	67.2	76.9	77.9	79.8	82.7	83.7
82.5°	166.4	104.1	66.2	38.0	35.0	38.0	49.6	59.4	60.3	66.2	66.2
85°	17.5	10.7	14.6	15.6	13.6	16.5	22.4	21.4	9.7	5.8	5.8
87.5°	4.9	3.9	4.9	4.9	3.9	3.9	2.9	1.0	0.0	0.0	0.0
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)