

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: P799731

Luminaire Tested: **ARCH2-50-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6774 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

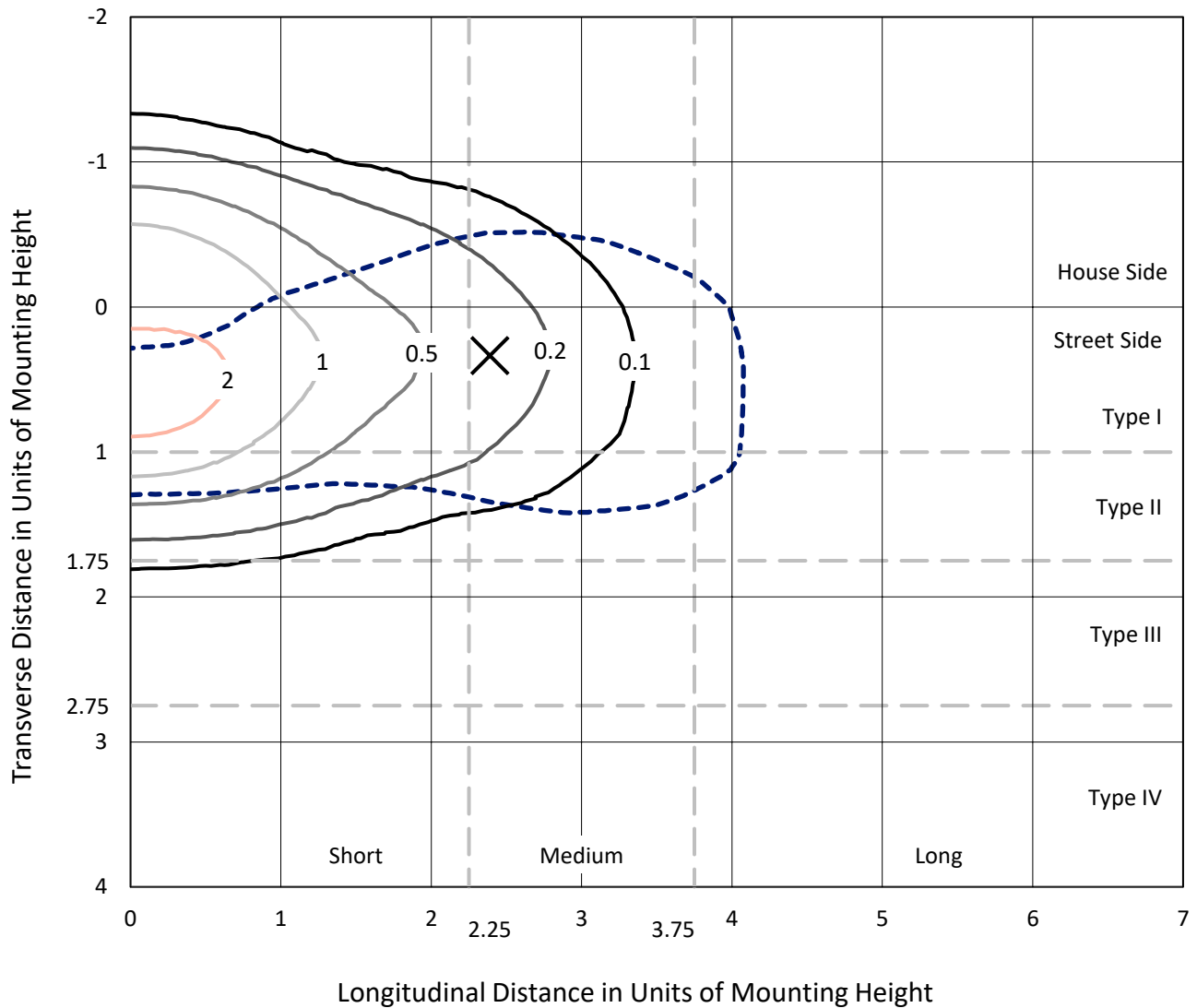
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799731
 CATALOG NUMBER: ARCH2-50-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

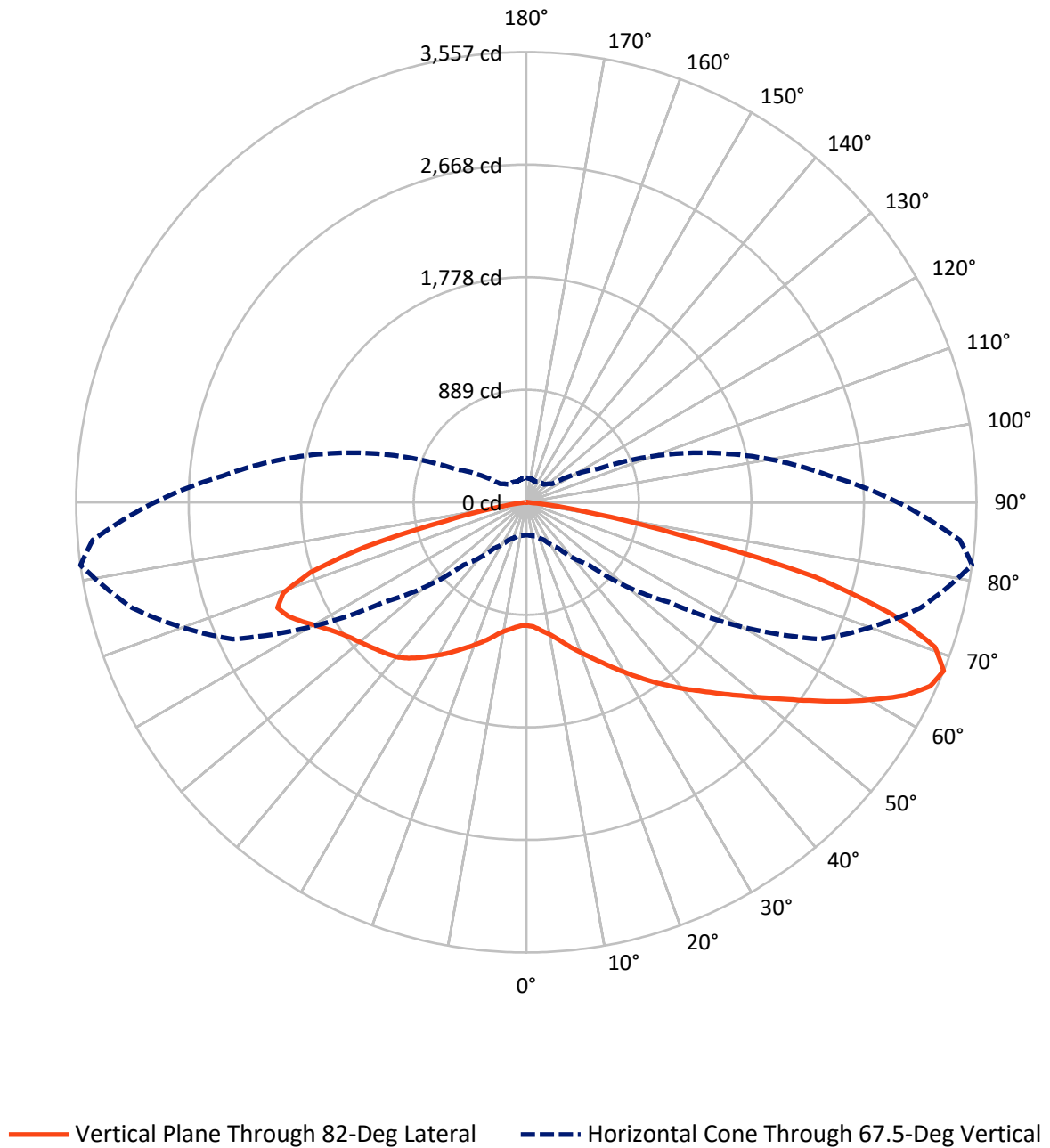
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P799731
CATALOG NUMBER: ARCH2-50-722-U-T2R

Luminous Intensity Polar Plot



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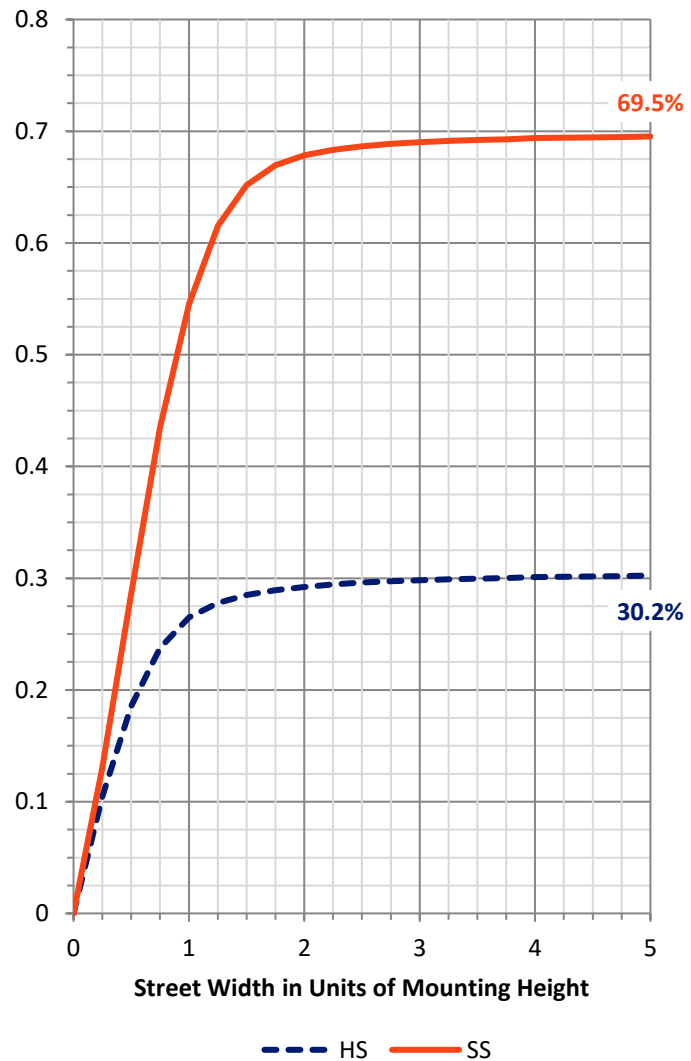
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.0	0.0	2063.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4711.0	0.0	4711.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	6774.0	0.0	6774.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	1.5
10°-20°	362.5	5.4
20°-30°	728.5	10.8
30°-40°	1144.4	16.9
40°-50°	1394.1	20.6
50°-60°	1317.2	19.4
60°-70°	1087.7	16.1
70°-80°	592.3	8.7
80°-90°	46.6	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°	6774.0	100.0
0°-180°	6774.0	100.0



REPORT NUMBER: P799731

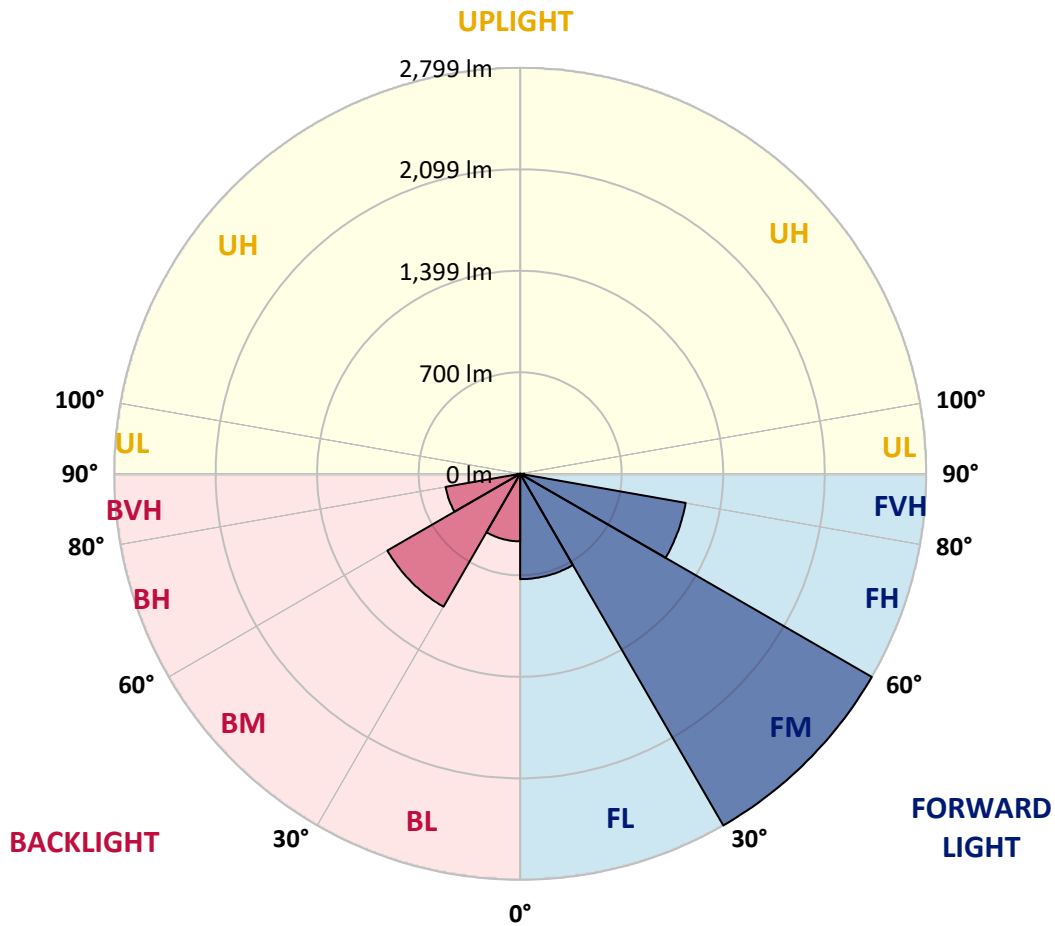
CATALOG NUMBER: ARCH2-50-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.4	10.7			
FM (30°-60°)	2798.6	41.3			
FH (60°-80°)	1157.9	17.1			G1/1800
FVH (80°-90°)	28.1	0.4			G1/100
BL (0°-30°)	465.2	6.9	B1/500		
BM (30°-60°)	1057.1	15.6	B2/2500		
BH (60°-80°)	522.1	7.7	B2/1000		G2/1000
BVH (80°-90°)	18.5	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



REPORT NUMBER: P799731
 CATALOG NUMBER: ARCH2-50-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	1018.0	1018.0	1025.9	1025.9	1019.0	1008.2	1005.2	993.4	982.6	982.6	983.6
5°	1115.4	1114.4	1120.3	1112.4	1095.7	1074.1	1059.3	1033.8	1012.1	1005.2	1004.3
7.5°	1234.4	1233.4	1236.4	1223.6	1192.1	1156.7	1127.2	1085.9	1050.5	1035.7	1031.8
10°	1367.2	1366.2	1363.3	1341.6	1299.3	1244.2	1200.0	1142.9	1089.8	1066.2	1061.3
12.5°	1519.7	1517.7	1510.8	1479.3	1421.3	1350.5	1286.5	1212.8	1142.0	1109.5	1098.7
15°	1689.8	1686.9	1674.1	1635.7	1558.0	1468.5	1385.9	1291.5	1204.9	1162.6	1147.9
17.5°	1868.8	1868.8	1849.2	1792.1	1705.6	1594.4	1492.1	1372.1	1270.8	1218.7	1201.0
20°	2050.8	2049.8	2025.2	1956.4	1854.1	1726.2	1596.4	1464.6	1338.7	1275.7	1254.1
22.5°	2242.6	2240.6	2210.1	2131.5	2009.5	1864.9	1713.4	1556.0	1413.4	1337.7	1310.1
25°	2462.9	2460.0	2422.6	2326.2	2181.6	2018.3	1845.2	1663.3	1499.0	1406.5	1374.1
27.5°	2697.0	2693.1	2648.8	2536.7	2378.3	2181.6	1990.8	1787.2	1593.4	1483.3	1446.9
30°	2905.5	2902.6	2854.4	2739.3	2557.3	2343.9	2129.5	1911.1	1692.8	1564.9	1519.7
32.5°	3062.9	3062.9	3019.6	2906.5	2717.7	2499.3	2269.2	2028.2	1796.0	1652.4	1599.3
35°	3158.3	3161.3	3123.9	3033.4	2855.4	2645.9	2413.7	2165.9	1906.2	1745.9	1688.8
37.5°	3172.1	3181.9	3160.3	3099.3	2950.8	2767.8	2555.4	2298.7	2020.3	1840.3	1776.4
40°	3108.2	3115.0	3116.0	3092.4	2990.1	2855.4	2680.3	2439.3	2141.3	1939.6	1865.9
42.5°	2980.3	2985.2	2994.1	3000.9	2961.6	2893.7	2775.7	2570.1	2270.1	2041.0	1954.4
45°	2815.0	2814.1	2828.8	2858.3	2856.4	2872.1	2828.8	2689.1	2403.9	2156.0	2052.8
47.5°	2568.2	2563.2	2615.4	2682.3	2715.7	2789.5	2829.8	2782.6	2549.5	2282.9	2164.9
50°	2181.6	2176.7	2290.8	2448.2	2546.5	2658.7	2775.7	2838.7	2701.9	2425.5	2286.9
52.5°	1711.5	1706.5	1851.1	2126.5	2341.0	2504.2	2666.5	2851.4	2846.5	2584.9	2424.6
55°	1272.8	1268.8	1409.5	1707.5	2054.7	2325.2	2532.8	2818.0	2982.3	2767.8	2591.8
57.5°	897.0	895.1	1017.0	1263.9	1686.9	2106.9	2403.9	2753.1	3107.2	2966.5	2780.6
60°	629.5	626.5	715.1	905.9	1275.7	1777.4	2276.0	2666.5	3200.6	3162.3	2981.3
62.5°	423.9	422.0	484.9	644.3	905.9	1368.2	2082.3	2608.5	3253.7	3359.0	3183.9
65°	321.6	320.7	349.2	436.7	641.3	982.6	1774.4	2601.6	3260.6	3506.5	3356.0
67.5°	259.7	260.7	276.4	326.6	443.6	698.4	1376.0	2558.3	3224.2	3556.7	3439.6
70°	212.5	212.5	219.3	252.8	327.5	471.1	961.0	2361.6	3122.9	3425.9	3340.3
72.5°	162.3	163.3	184.9	204.6	246.9	330.5	615.7	1954.4	2883.9	3020.6	2955.7
75°	128.9	127.9	140.7	168.2	191.8	236.1	377.7	1401.6	2454.1	2360.6	2319.3
77.5°	92.5	91.5	101.3	124.9	145.6	167.2	225.2	707.2	1334.7	1226.5	1196.1
80°	63.0	61.0	69.8	86.6	96.4	98.4	110.2	271.5	582.3	548.8	542.0
82.5°	32.5	32.5	37.4	49.2	50.2	51.1	49.2	87.5	192.8	180.0	172.1
85°	12.8	12.8	13.8	16.7	16.7	17.7	17.7	22.6	20.7	19.7	18.7
87.5°	1.0	1.0	2.0	2.0	3.0	3.0	3.0	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

REPORT NUMBER: P799731
 CATALOG NUMBER: ARCH2-50-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	981.6	977.7	964.9	962.0	960.0	957.0	958.0	951.1	948.2	949.2	945.2
5°	999.3	992.4	976.7	969.8	967.9	964.9	967.9	962.9	958.0	960.0	958.0
7.5°	1023.9	1014.1	994.4	987.5	986.5	983.6	987.5	983.6	979.7	981.6	977.7
10°	1049.5	1036.7	1015.1	1008.2	1008.2	1007.2	1011.1	1005.2	1001.3	1002.3	1000.3
12.5°	1086.9	1070.2	1046.5	1040.6	1037.7	1040.6	1041.6	1033.8	1026.9	1027.9	1024.9
15°	1132.1	1113.4	1087.9	1079.0	1077.0	1076.1	1072.1	1062.3	1053.4	1052.4	1049.5
17.5°	1181.3	1157.7	1127.2	1118.3	1109.5	1106.5	1096.7	1083.9	1070.2	1070.2	1066.2
20°	1228.5	1202.0	1165.6	1152.8	1140.0	1128.2	1111.5	1090.8	1073.1	1070.2	1066.2
22.5°	1279.7	1248.2	1205.9	1187.2	1164.6	1141.0	1112.4	1084.9	1062.3	1057.4	1054.4
25°	1336.7	1297.4	1247.2	1219.7	1183.3	1146.9	1104.6	1069.2	1042.6	1034.7	1032.8
27.5°	1399.7	1352.4	1291.5	1251.1	1198.0	1141.0	1086.9	1044.6	1012.1	1002.3	999.3
30°	1463.6	1407.5	1331.8	1272.8	1198.0	1122.3	1054.4	1005.2	967.9	954.1	952.1
32.5°	1527.5	1464.6	1368.2	1284.6	1186.2	1090.8	1012.1	954.1	911.8	895.1	899.0
35°	1604.2	1527.5	1401.6	1289.5	1166.5	1052.4	963.9	896.1	852.8	838.0	841.0
37.5°	1683.9	1590.5	1428.2	1285.6	1139.0	1009.2	909.8	843.9	789.8	764.3	767.2
40°	1752.8	1647.5	1446.9	1271.8	1103.6	960.0	856.7	770.2	695.4	670.8	667.9
42.5°	1817.7	1689.8	1456.7	1251.1	1063.3	902.9	781.0	669.8	595.1	564.6	565.6
45°	1885.6	1731.1	1452.8	1223.6	1013.1	836.1	683.6	571.5	505.6	478.0	479.0
47.5°	1963.3	1775.4	1448.8	1194.1	952.1	749.5	590.2	484.9	427.9	408.2	406.2
50°	2045.9	1824.6	1443.9	1157.7	884.3	653.1	497.7	404.3	356.1	343.3	340.3
52.5°	2139.3	1877.7	1441.0	1114.4	802.6	550.8	415.1	333.4	301.0	292.1	291.1
55°	2251.4	1939.6	1444.9	1062.3	704.3	454.4	345.2	287.2	265.6	260.7	259.7
57.5°	2388.2	2019.3	1456.7	1001.3	601.0	370.8	294.1	258.7	244.9	241.0	241.0
60°	2536.7	2109.8	1478.3	932.4	497.7	305.9	260.7	236.1	230.2	235.1	235.1
62.5°	2697.0	2216.0	1516.7	848.8	401.3	258.7	234.1	217.4	213.4	223.3	224.3
65°	2845.5	2319.3	1541.3	748.5	318.7	224.3	213.4	198.7	200.7	210.5	209.5
67.5°	2937.0	2404.9	1506.9	622.6	252.8	198.7	191.8	179.0	183.9	191.8	192.8
70°	2880.9	2356.7	1336.7	470.2	197.7	173.1	168.2	160.3	164.3	174.1	178.0
72.5°	2606.5	2110.8	1039.7	317.7	159.3	145.6	147.5	143.6	148.5	157.4	166.2
75°	2115.7	1595.4	697.4	203.6	125.9	123.9	126.9	123.9	125.9	134.8	139.7
77.5°	1104.6	778.0	347.2	126.9	93.4	96.4	101.3	102.3	108.2	110.2	112.1
80°	515.4	350.2	144.6	70.8	62.0	67.9	77.7	78.7	80.7	83.6	84.6
82.5°	168.2	105.2	66.9	38.4	35.4	38.4	50.2	60.0	61.0	66.9	66.9
85°	17.7	10.8	14.8	15.7	13.8	16.7	22.6	21.6	9.8	5.9	5.9
87.5°	4.9	3.9	4.9	4.9	3.9	3.9	3.0	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)