

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: P799993

Luminaire Tested: **ARCH2-70-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8403 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

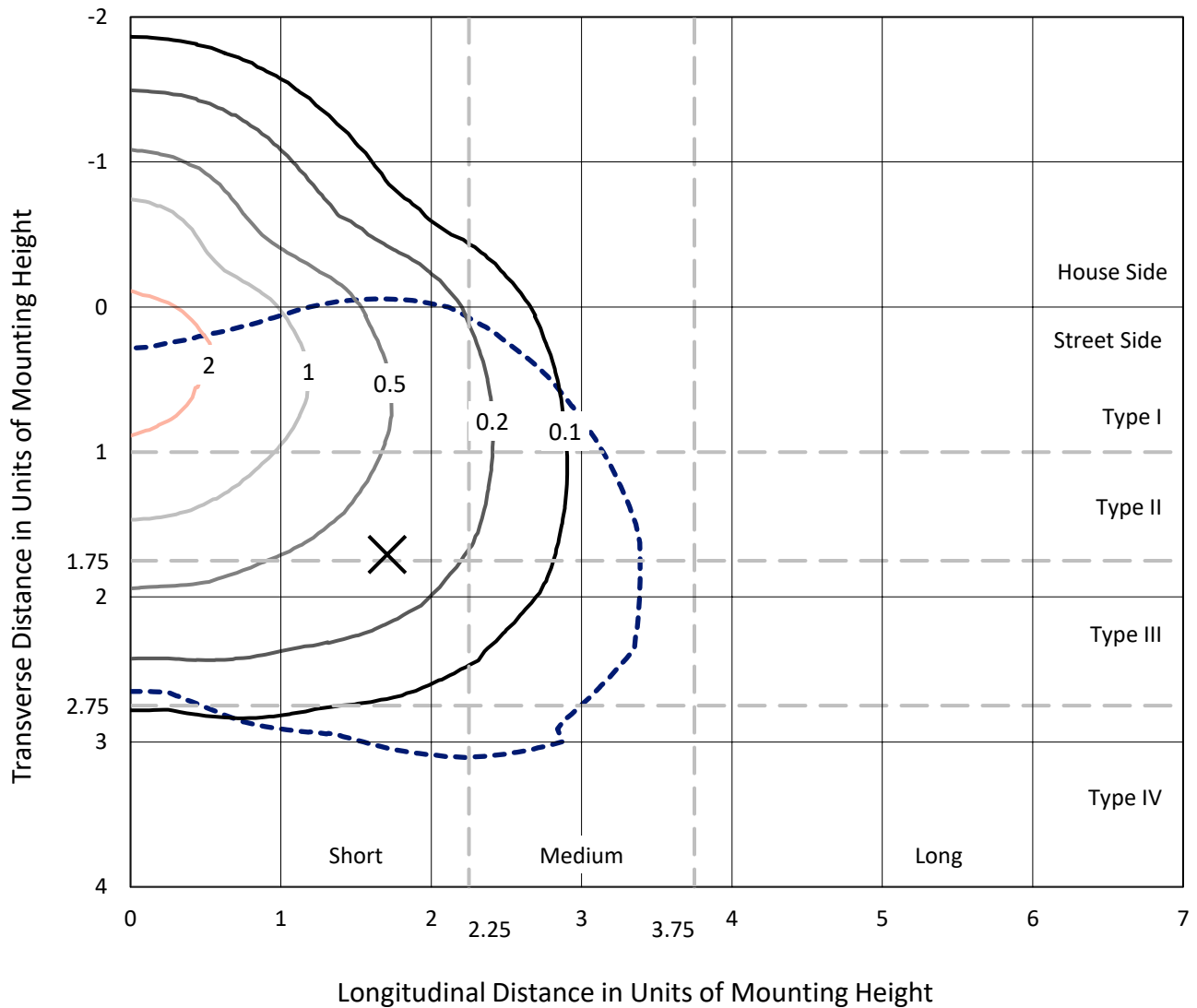
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

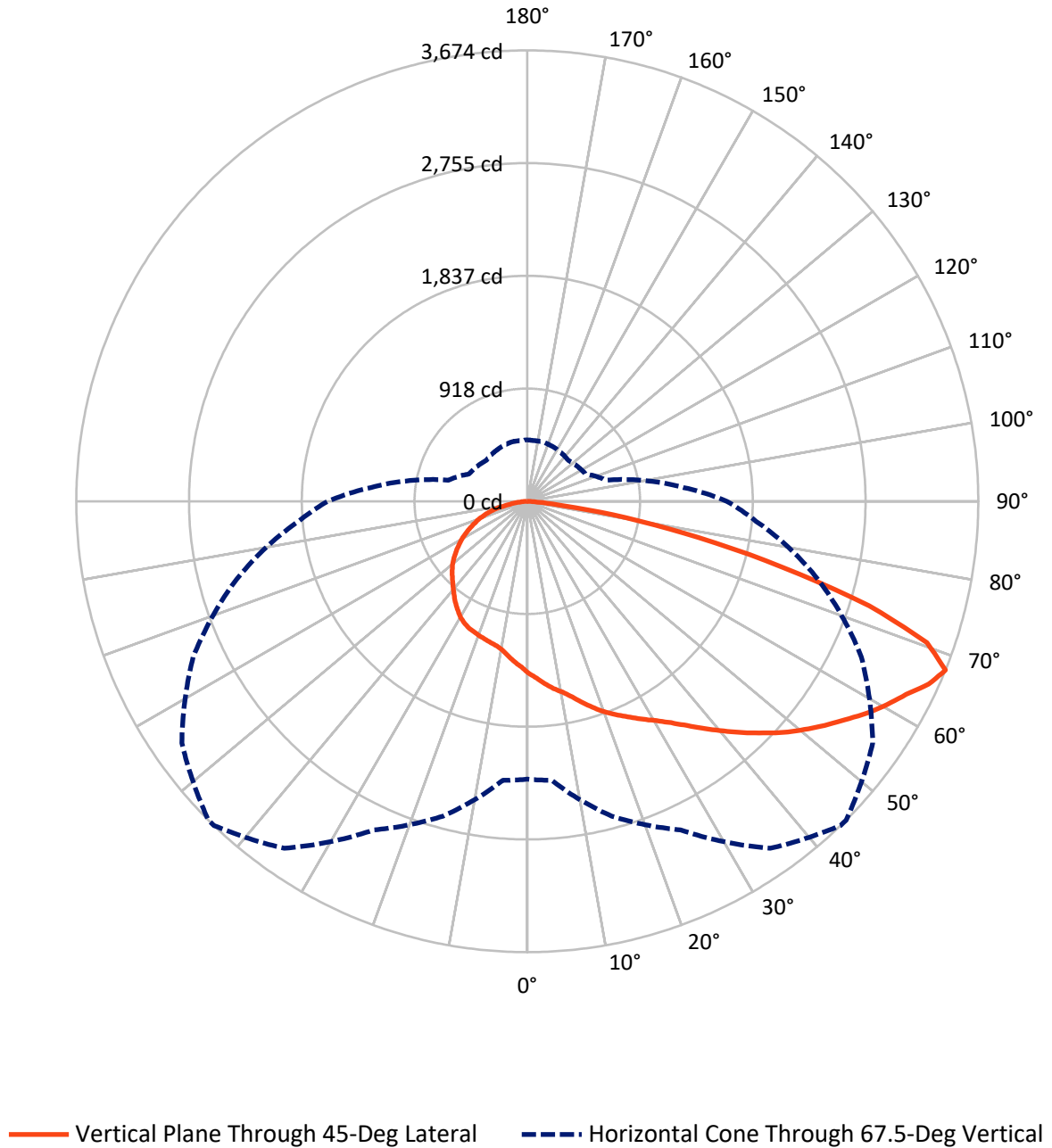
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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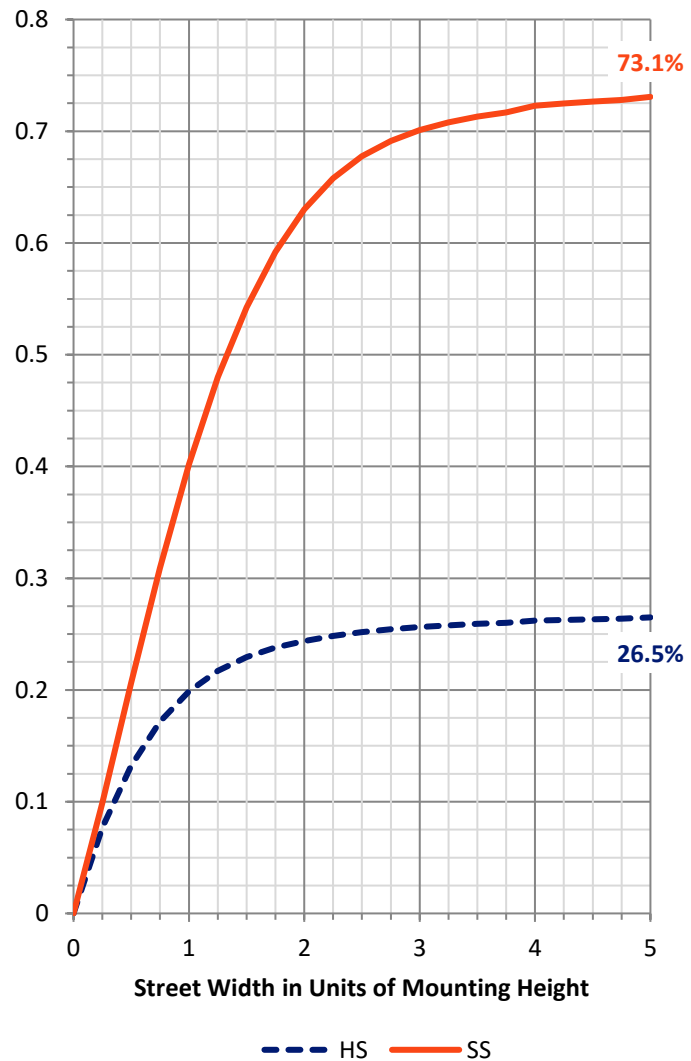
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2244.9	0.0	2244.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	6158.1	0.0	6158.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	8403.0	0.0	8403.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	1.6
10°-20°	414.5	4.9
20°-30°	715.5	8.5
30°-40°	1055.1	12.6
40°-50°	1429.5	17.0
50°-60°	1747.1	20.8
60°-70°	1801.9	21.4
70°-80°	987.0	11.7
80°-90°	118.3	1.4
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°	8403.0	100.0
0°-180°	8403.0	100.0



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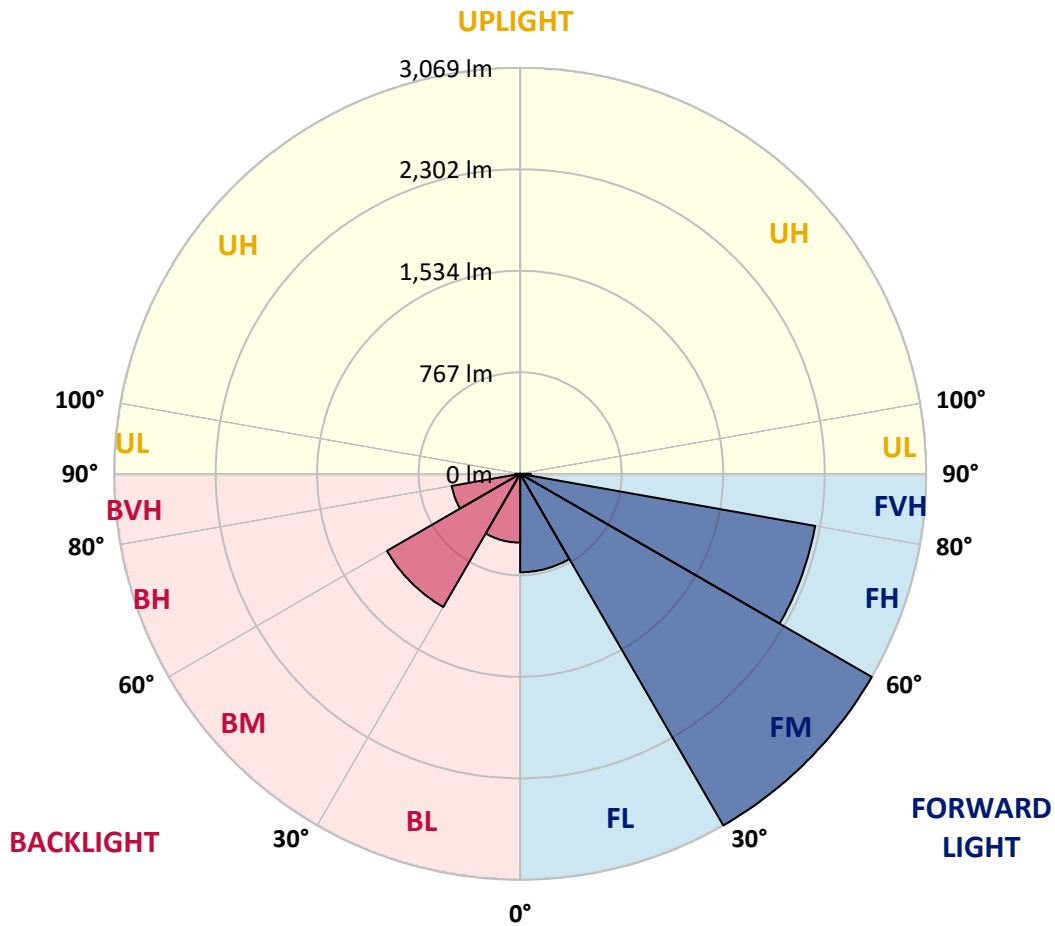
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.9	8.9			
FM (30°-60°)	3068.9	36.5			
FH (60°-80°)	2263.9	26.9			G2/5000
FVH (80°-90°)	81.5	1.0			G1/100
BL (0°-30°)	520.3	6.2	B2/1000		
BM (30°-60°)	1162.8	13.8	B2/2500		
BH (60°-80°)	525.0	6.2	B2/1000		G2/1000
BVH (80°-90°)	36.8	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5
2.5°	1462.8	1461.6	1464.1	1455.2	1443.7	1442.4	1442.4	1434.7	1425.8	1407.9	1393.8
5°	1531.9	1529.3	1530.6	1517.8	1502.5	1494.8	1493.5	1476.9	1456.4	1428.3	1402.7
7.5°	1595.8	1593.3	1592.0	1577.9	1554.9	1542.1	1540.8	1516.5	1492.2	1448.8	1411.7
10°	1655.9	1653.4	1650.8	1631.6	1603.5	1584.3	1581.8	1551.1	1520.4	1466.7	1419.4
12.5°	1732.6	1727.5	1725.0	1702.0	1661.0	1640.6	1636.7	1595.8	1557.5	1492.2	1434.7
15°	1813.2	1809.4	1805.5	1783.8	1737.8	1710.9	1704.5	1653.4	1600.9	1525.5	1457.7
17.5°	1873.3	1869.5	1869.5	1850.3	1808.1	1777.4	1772.3	1710.9	1645.7	1556.2	1475.6
20°	1910.4	1906.5	1910.4	1898.9	1866.9	1841.3	1836.2	1768.4	1690.4	1584.3	1491.0
22.5°	1937.2	1933.4	1939.8	1934.7	1911.7	1896.3	1892.5	1826.0	1736.5	1613.7	1506.3
25°	1984.6	1984.6	1984.6	1975.6	1953.9	1948.7	1948.7	1891.2	1795.3	1652.1	1529.3
27.5°	2079.2	2074.1	2067.7	2042.1	2005.0	2003.7	2011.4	1957.7	1863.1	1702.0	1557.5
30°	2218.6	2216.0	2191.7	2138.0	2075.3	2068.9	2074.1	2029.3	1936.0	1754.4	1589.4
32.5°	2398.9	2389.9	2340.0	2259.5	2170.0	2140.6	2150.8	2103.5	2012.7	1808.1	1620.1
35°	2526.7	2529.3	2493.5	2420.6	2314.5	2236.5	2244.1	2186.6	2095.8	1868.2	1658.5
37.5°	2673.8	2682.7	2629.0	2574.0	2475.6	2342.6	2350.3	2272.3	2178.9	1943.6	1699.4
40°	2877.1	2859.2	2768.4	2703.2	2594.5	2453.8	2460.2	2368.2	2274.8	2015.2	1746.7
42.5°	3047.2	3015.2	2905.2	2822.1	2691.7	2571.5	2577.9	2471.7	2372.0	2094.5	1799.1
45°	3291.4	3203.2	3044.6	3003.7	2791.4	2686.6	2693.0	2581.7	2474.3	2178.9	1855.4
47.5°	3433.3	3292.7	3191.6	3169.9	2901.4	2805.5	2813.2	2698.1	2584.3	2274.8	1914.2
50°	3424.4	3333.6	3304.2	3250.5	2998.6	2916.7	2924.4	2818.3	2695.5	2369.4	1970.5
52.5°	3365.6	3382.2	3366.8	3277.3	3095.7	3024.1	3033.1	2937.2	2809.3	2457.7	2022.9
55°	3456.3	3467.8	3438.4	3320.8	3203.2	3131.5	3141.8	3062.5	2921.8	2535.7	2067.7
57.5°	3565.0	3524.1	3494.7	3397.5	3314.4	3247.9	3259.4	3190.4	3019.0	2598.3	2102.2
60°	3559.9	3474.2	3503.7	3402.6	3389.8	3355.3	3365.6	3295.2	3093.2	2644.4	2116.3
62.5°	3297.8	3251.7	3400.1	3365.6	3451.2	3451.2	3464.0	3359.2	3137.9	2663.5	2108.6
65°	2842.6	2845.1	3106.0	3249.2	3524.1	3582.9	3593.2	3398.8	3112.4	2607.3	2037.0
67.5°	2264.6	2281.2	2655.9	2953.8	3451.2	3672.4	3673.7	3434.6	3002.4	2448.7	1870.7
70°	1657.2	1670.0	2112.4	2474.3	3107.3	3474.2	3453.8	3333.6	2763.3	2172.5	1611.2
72.5°	1120.1	1131.7	1586.9	1900.2	2549.7	2958.9	2914.2	2946.1	2355.4	1785.1	1295.3
75°	753.2	767.2	1129.1	1359.3	1875.9	2246.7	2146.9	2231.3	1822.2	1351.6	945.0
77.5°	474.4	483.4	717.4	891.3	1281.3	1529.3	1429.6	1430.9	1049.8	727.6	507.6
80°	301.8	304.3	434.8	514.0	741.6	919.4	813.3	661.1	473.1	386.2	303.1
82.5°	175.2	171.3	259.6	290.3	352.9	349.1	289.0	273.6	207.2	193.1	154.7
85°	70.3	65.2	113.8	106.1	107.4	113.8	84.4	84.4	67.8	52.4	38.4
87.5°	14.1	14.1	15.3	14.1	14.1	15.3	11.5	11.5	10.2	10.2	10.2
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°	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5	1401.5
2.5°	1391.2	1388.7	1382.3	1365.7	1356.7	1351.6	1343.9	1341.4	1340.1	1341.4	1345.2
5°	1395.1	1386.1	1368.2	1341.4	1323.5	1312.0	1299.2	1294.0	1290.2	1290.2	1294.0
7.5°	1397.6	1383.6	1352.9	1313.2	1287.7	1269.8	1254.4	1248.0	1246.7	1250.6	1251.9
10°	1398.9	1378.4	1335.0	1285.1	1251.9	1228.8	1213.5	1209.7	1213.5	1221.2	1222.4
12.5°	1407.9	1379.7	1324.7	1265.9	1226.3	1203.3	1191.8	1191.8	1202.0	1216.0	1217.3
15°	1423.2	1388.7	1319.6	1250.6	1209.7	1189.2	1185.4	1191.8	1207.1	1228.8	1231.4
17.5°	1434.7	1393.8	1308.1	1230.1	1187.9	1175.1	1181.5	1196.9	1218.6	1248.0	1250.6
20°	1442.4	1393.8	1291.5	1205.8	1166.2	1163.6	1181.5	1205.8	1228.8	1263.4	1267.2
22.5°	1450.1	1391.2	1272.3	1176.4	1141.9	1149.6	1182.8	1213.5	1236.5	1273.6	1280.0
25°	1464.1	1395.1	1253.1	1147.0	1116.3	1138.0	1181.5	1218.6	1242.9	1281.3	1291.5
27.5°	1483.3	1404.0	1239.1	1120.1	1090.7	1120.1	1172.6	1217.3	1242.9	1280.0	1291.5
30°	1503.8	1414.2	1222.4	1090.7	1061.3	1094.6	1153.4	1203.3	1232.7	1267.2	1281.3
32.5°	1525.5	1425.8	1208.4	1058.8	1025.5	1060.0	1125.3	1181.5	1213.5	1245.5	1260.8
35°	1554.9	1446.2	1200.7	1033.2	993.6	1024.2	1089.5	1153.4	1187.9	1217.3	1235.2
37.5°	1590.7	1471.8	1196.9	1007.6	959.0	984.6	1051.1	1118.9	1155.9	1180.2	1196.9
40°	1631.6	1503.8	1195.6	983.3	924.5	943.7	1011.5	1079.2	1115.0	1134.2	1148.3
42.5°	1677.7	1539.6	1193.0	959.0	890.0	905.3	973.1	1039.6	1070.3	1086.9	1099.7
45°	1726.3	1575.4	1187.9	929.6	852.9	870.8	933.5	992.3	1024.2	1038.3	1052.4
47.5°	1774.8	1611.2	1177.7	896.4	819.7	836.3	891.3	942.4	968.0	980.8	994.8
50°	1822.2	1643.1	1153.4	858.0	785.1	800.5	842.7	877.2	896.4	906.6	920.7
52.5°	1864.4	1664.9	1118.9	813.3	750.6	758.3	786.4	815.8	831.2	832.4	845.2
55°	1900.2	1676.4	1069.0	767.2	713.5	714.8	730.1	753.2	759.6	754.4	763.4
57.5°	1920.6	1670.0	1014.0	719.9	675.2	670.0	681.5	693.1	694.3	681.5	690.5
60°	1925.7	1640.6	942.4	672.6	636.8	622.7	626.6	624.0	621.5	616.3	624.0
62.5°	1900.2	1577.9	863.1	626.6	595.9	574.1	572.9	571.6	575.4	576.7	578.0
65°	1806.8	1460.3	768.5	579.3	552.4	523.0	521.7	537.1	542.2	534.5	537.1
67.5°	1626.5	1280.0	664.9	524.3	497.4	471.8	482.1	491.0	500.0	497.4	500.0
70°	1370.8	1051.1	570.3	462.9	437.3	423.3	434.8	442.4	443.7	441.2	443.7
72.5°	1077.9	820.9	482.1	400.2	377.2	370.8	384.9	391.3	402.8	407.9	409.2
75°	778.7	606.1	395.1	332.5	313.3	313.3	326.1	337.6	347.8	341.4	337.6
77.5°	434.8	361.9	283.9	228.9	232.7	250.6	255.7	268.5	278.8	277.5	274.9
80°	263.4	226.3	191.8	148.3	147.1	161.1	194.4	216.1	221.2	209.7	208.4
82.5°	136.8	118.9	102.3	83.1	92.1	107.4	112.5	135.5	149.6	144.5	150.9
85°	34.5	33.2	37.1	38.4	47.3	52.4	57.5	67.8	44.8	21.7	21.7
87.5°	10.2	10.2	12.8	12.8	16.6	20.5	19.2	19.2	10.2	1.3	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)