

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: P842392

Luminaire Tested: **ARCH4-40-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7652 lumens
Efficiency: N/A
Efficacy: 174.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

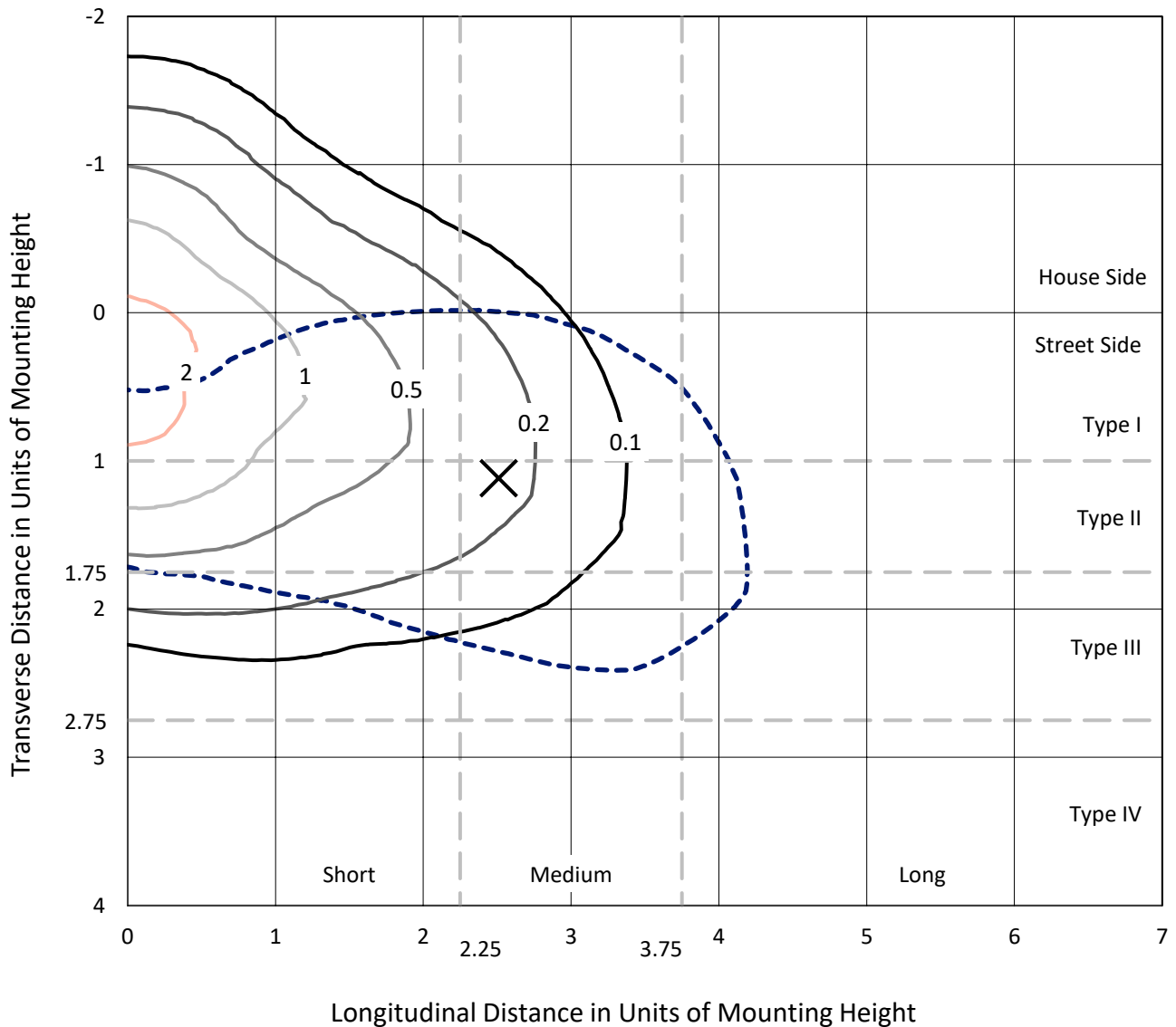
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

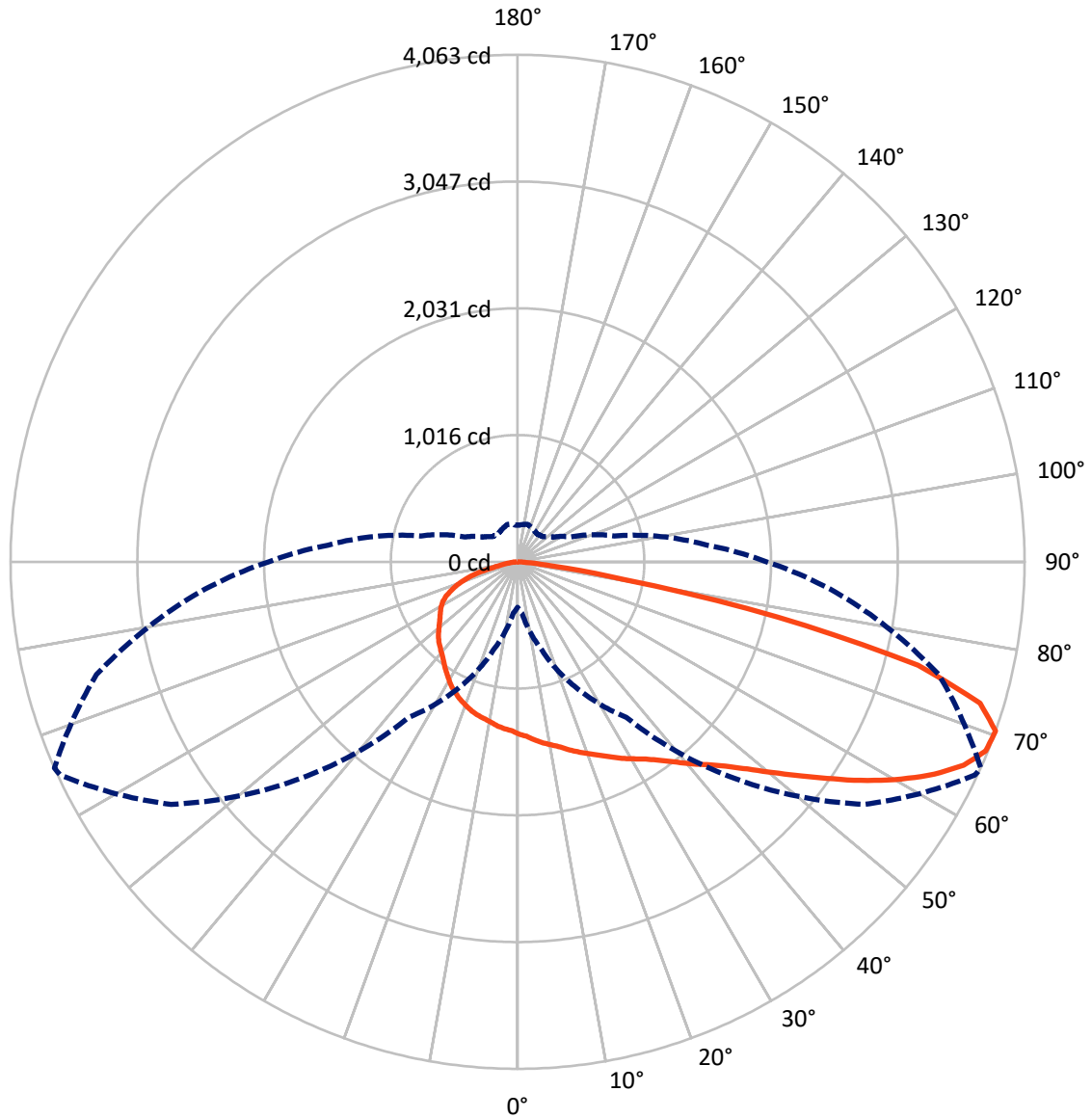
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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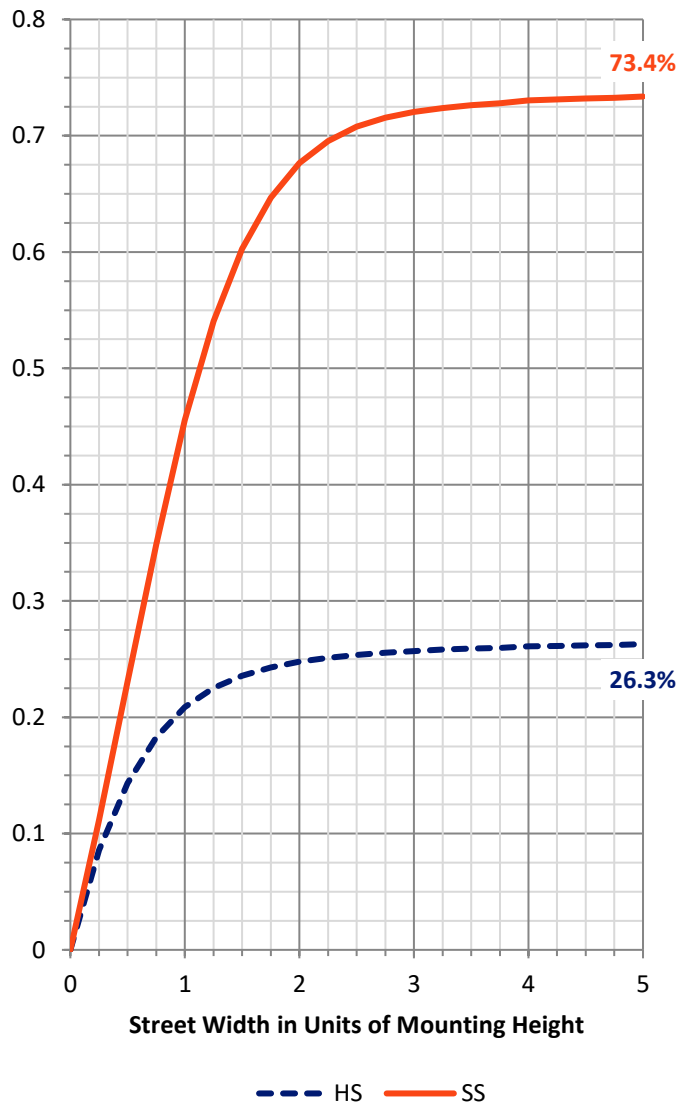
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2027.6	0.0	2027.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	5624.4	0.0	5624.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	7652.0	0.0	7652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	1.7
10°-20°	398.1	5.2
20°-30°	667.3	8.7
30°-40°	999.1	13.1
40°-50°	1335.8	17.5
50°-60°	1559.6	20.4
60°-70°	1550.8	20.3
70°-80°	918.1	12.0
80°-90°	90.5	1.2
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°	7652.0	100.0
0°-180°	7652.0	100.0

Coefficient of Utilization

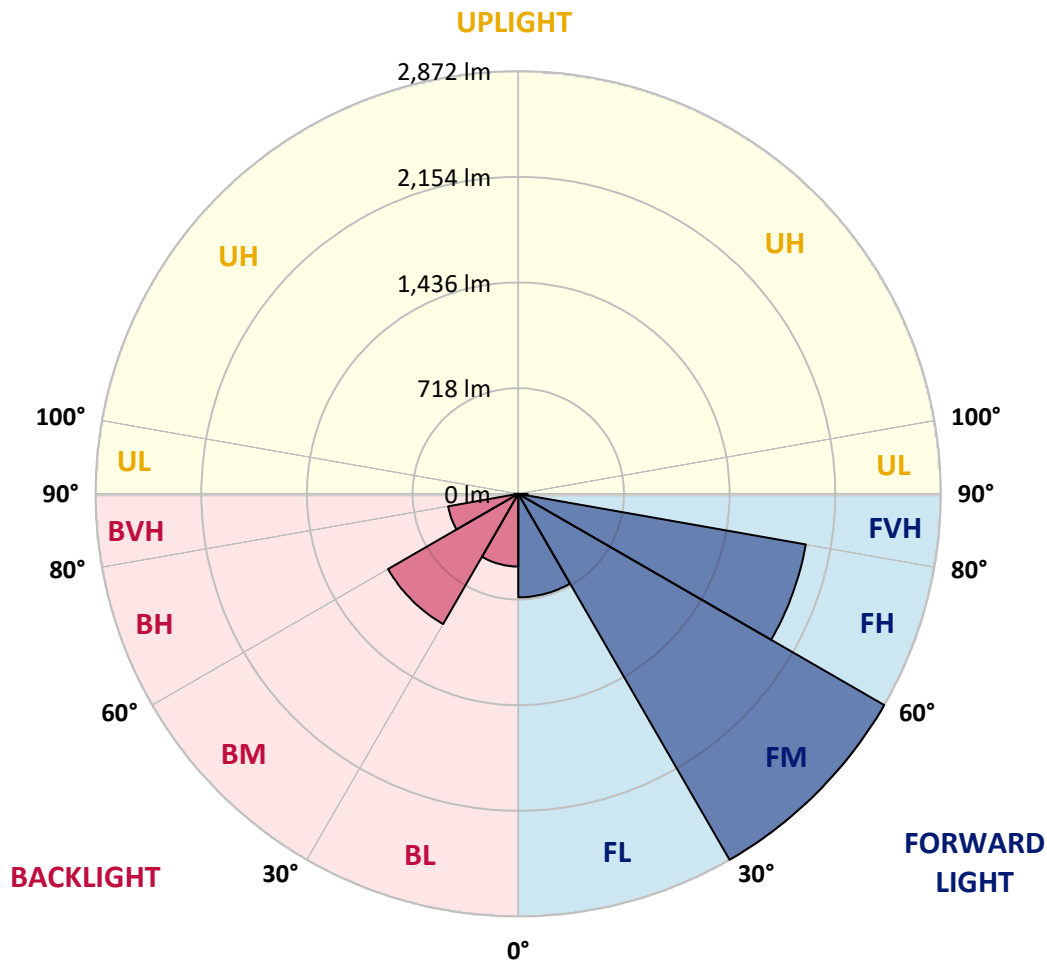


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.8	9.2			
FM (30°-60°)	2872.5	37.5			
FH (60°-80°)	1984.6	25.9			G2/5000
FVH (80°-90°)	63.6	0.8			G1/100
BL (0°-30°)	494.2	6.5	B1/500		
BM (30°-60°)	1022.1	13.4	B2/2500		
BH (60°-80°)	484.3	6.3	B1/500		G1/500
BVH (80°-90°)	26.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0
2.5°	1431.8	1429.5	1428.4	1423.9	1413.7	1418.2	1408.1	1401.3	1400.2	1384.4	1375.4
5°	1490.5	1489.3	1487.1	1480.3	1464.5	1466.8	1449.8	1437.4	1434.0	1409.2	1390.0
7.5°	1540.1	1537.8	1536.7	1527.7	1510.8	1509.6	1489.3	1471.3	1465.6	1431.8	1402.4
10°	1578.5	1575.1	1577.3	1568.3	1550.3	1546.9	1520.9	1497.2	1491.6	1448.7	1408.1
12.5°	1611.2	1608.9	1612.3	1604.4	1589.7	1586.4	1560.4	1529.9	1523.2	1473.5	1420.5
15°	1647.3	1639.4	1646.2	1642.8	1632.6	1631.5	1607.8	1573.9	1564.9	1505.1	1439.7
17.5°	1666.5	1662.0	1669.9	1671.0	1666.5	1674.4	1651.8	1611.2	1603.3	1534.5	1456.6
20°	1680.0	1673.2	1682.3	1689.0	1692.4	1708.2	1690.2	1650.7	1641.6	1562.7	1472.4
22.5°	1726.3	1711.6	1712.7	1717.2	1719.5	1742.1	1730.8	1692.4	1683.4	1597.6	1491.6
25°	1842.5	1813.1	1794.0	1780.4	1764.6	1783.8	1777.0	1739.8	1731.9	1639.4	1515.3
27.5°	2023.0	1985.8	1947.4	1907.9	1845.9	1838.0	1826.7	1792.8	1783.8	1681.1	1539.0
30°	2228.3	2191.1	2146.0	2082.8	1966.6	1905.7	1879.7	1842.5	1832.3	1718.4	1561.5
32.5°	2432.6	2399.8	2354.7	2278.0	2112.1	1988.0	1932.7	1894.4	1884.2	1759.0	1588.6
35°	2591.7	2571.3	2542.0	2446.1	2256.6	2085.1	2009.5	1963.2	1951.9	1823.3	1638.3
37.5°	2720.3	2705.6	2680.8	2580.4	2361.5	2182.1	2097.5	2044.4	2032.0	1893.2	1691.3
40°	2909.8	2871.5	2851.2	2705.6	2452.9	2270.1	2196.8	2141.5	2127.9	1967.7	1734.2
42.5°	3071.2	3043.0	3018.1	2817.3	2539.8	2345.7	2290.4	2239.6	2221.6	2041.1	1780.4
45°	3098.3	3109.5	3097.1	2872.6	2677.4	2420.2	2385.2	2352.5	2335.5	2140.3	1850.4
47.5°	3099.4	3099.4	3026.0	2904.2	2847.8	2503.6	2486.7	2498.0	2480.0	2266.7	1933.9
50°	3018.1	3032.8	2994.4	2912.1	2892.9	2587.1	2610.8	2671.8	2653.7	2401.0	2024.1
52.5°	2850.0	2898.5	2897.4	2899.7	2827.5	2658.2	2741.7	2880.5	2850.0	2552.2	2120.0
55°	2553.3	2650.3	2737.2	2811.7	2771.0	2701.1	2901.9	3102.8	3071.2	2721.4	2217.1
57.5°	2299.4	2361.5	2469.8	2680.8	2704.5	2738.3	3052.0	3335.2	3307.0	2908.7	2318.6
60°	2009.5	2095.2	2203.5	2503.6	2623.2	2786.8	3216.7	3562.0	3534.9	3098.3	2416.8
62.5°	1563.8	1674.4	1891.0	2231.7	2504.8	2817.3	3346.5	3761.7	3749.3	3277.6	2504.8
65°	1089.9	1188.1	1491.6	1897.8	2316.4	2803.8	3450.3	3939.9	3928.7	3424.3	2566.8
67.5°	636.3	750.3	1093.3	1527.7	1983.5	2710.1	3484.1	4044.9	4044.9	3513.5	2583.8
70°	363.3	416.3	721.0	1113.6	1520.9	2451.7	3389.3	4043.7	4062.9	3493.1	2513.8
72.5°	253.9	277.6	485.2	749.2	1031.2	1983.5	3141.1	3848.6	3874.5	3301.3	2274.6
75°	197.4	214.4	341.9	511.1	649.9	1347.2	2598.4	3244.9	3313.8	2813.9	1839.1
77.5°	150.1	162.5	199.7	319.3	416.3	774.0	1715.0	2127.9	2132.4	1722.9	986.1
80°	109.4	121.9	133.1	195.2	221.1	362.2	647.6	889.1	864.3	833.8	533.7
82.5°	65.4	77.9	81.2	106.1	108.3	154.6	226.8	286.6	275.3	366.7	250.5
85°	28.2	39.5	41.7	48.5	46.3	63.2	90.3	75.6	67.7	77.9	54.2
87.5°	6.8	11.3	11.3	12.4	10.2	15.8	16.9	12.4	11.3	13.5	13.5
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°	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0	1381.0
2.5°	1373.1	1369.7	1370.9	1351.7	1346.0	1340.4	1337.0	1334.8	1332.5	1335.9	1339.3
5°	1383.3	1375.4	1366.3	1338.1	1326.9	1314.4	1305.4	1297.5	1294.1	1294.1	1297.5
7.5°	1391.2	1377.6	1358.4	1321.2	1300.9	1284.0	1269.3	1259.2	1253.5	1253.5	1256.9
10°	1392.3	1373.1	1342.7	1297.5	1270.4	1245.6	1228.7	1217.4	1209.5	1209.5	1211.8
12.5°	1399.1	1373.1	1333.6	1279.5	1245.6	1215.2	1194.8	1177.9	1174.5	1174.5	1176.8
15°	1410.3	1378.8	1328.0	1263.7	1223.1	1188.1	1165.5	1147.5	1140.7	1145.2	1146.3
17.5°	1420.5	1382.1	1317.8	1243.4	1194.8	1156.5	1131.7	1115.9	1106.8	1117.0	1117.0
20°	1427.3	1382.1	1303.2	1217.4	1164.4	1121.5	1097.8	1078.6	1071.9	1084.3	1085.4
22.5°	1437.4	1381.0	1287.4	1191.5	1131.7	1086.5	1062.8	1048.2	1044.8	1058.3	1062.8
25°	1448.7	1383.3	1270.4	1162.1	1095.6	1051.6	1033.5	1026.7	1029.0	1045.9	1051.6
27.5°	1461.1	1387.8	1253.5	1129.4	1056.1	1016.6	1006.4	1009.8	1018.8	1040.3	1047.0
30°	1472.4	1388.9	1229.8	1091.0	1010.9	973.7	978.2	992.9	1006.4	1027.9	1035.8
32.5°	1487.1	1390.0	1205.0	1049.3	962.4	935.3	955.7	979.3	992.9	1013.2	1022.2
35°	1523.2	1409.2	1185.8	1008.7	917.3	902.6	936.5	966.9	974.8	992.9	1000.8
37.5°	1564.9	1440.8	1175.7	966.9	873.3	869.9	912.8	943.2	945.5	956.8	964.7
40°	1590.9	1454.3	1164.4	932.0	833.8	836.1	880.1	903.8	899.2	907.1	912.8
42.5°	1616.8	1458.9	1140.7	902.6	796.6	798.8	832.7	849.6	851.8	868.8	876.7
45°	1660.8	1471.3	1114.7	875.5	762.7	754.8	775.1	797.7	827.0	859.7	868.8
47.5°	1719.5	1497.2	1087.7	842.8	730.0	704.0	711.9	751.4	781.9	812.4	818.0
50°	1779.3	1523.2	1062.8	803.3	697.3	649.9	653.3	689.4	714.2	737.9	741.3
52.5°	1838.0	1545.7	1041.4	766.1	660.0	585.6	599.1	636.3	653.3	664.6	667.9
55°	1896.6	1564.9	1022.2	734.5	617.2	534.8	547.2	582.2	599.1	604.8	607.0
57.5°	1957.6	1587.5	1007.6	707.4	568.7	489.7	497.6	522.4	538.2	545.0	542.7
60°	2008.3	1606.7	999.7	679.2	520.1	447.9	445.7	468.2	490.8	497.6	495.3
62.5°	2047.8	1619.1	987.2	643.1	477.3	406.2	394.9	424.2	447.9	452.4	455.8
65°	2069.3	1620.2	956.8	596.9	433.3	361.0	353.2	382.5	397.2	401.7	401.7
67.5°	2065.9	1602.2	897.0	534.8	392.6	320.4	313.7	331.7	353.2	356.5	353.2
70°	1995.9	1527.7	801.1	469.4	344.1	284.3	271.9	290.0	310.3	297.9	292.2
72.5°	1797.3	1334.8	660.0	397.2	290.0	239.2	233.6	251.6	252.7	255.0	249.3
75°	1418.2	994.0	494.2	309.1	234.7	200.8	199.7	196.3	200.8	209.9	203.1
77.5°	744.7	496.4	267.4	189.6	170.4	161.3	153.4	152.3	165.9	171.5	164.7
80°	403.9	278.7	153.4	114.0	103.8	104.9	115.1	112.8	127.5	130.9	125.2
82.5°	176.0	132.0	75.6	68.8	68.8	67.7	71.1	79.0	94.8	94.8	75.6
85°	38.4	32.7	29.3	33.8	38.4	38.4	38.4	38.4	27.1	14.7	10.2
87.5°	12.4	12.4	12.4	13.5	14.7	14.7	12.4	9.0	5.6	1.1	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)