

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: P836572

Luminaire Tested: **ARCH3-40-750-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7635 lumens
Efficiency: N/A
Efficacy: 175.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

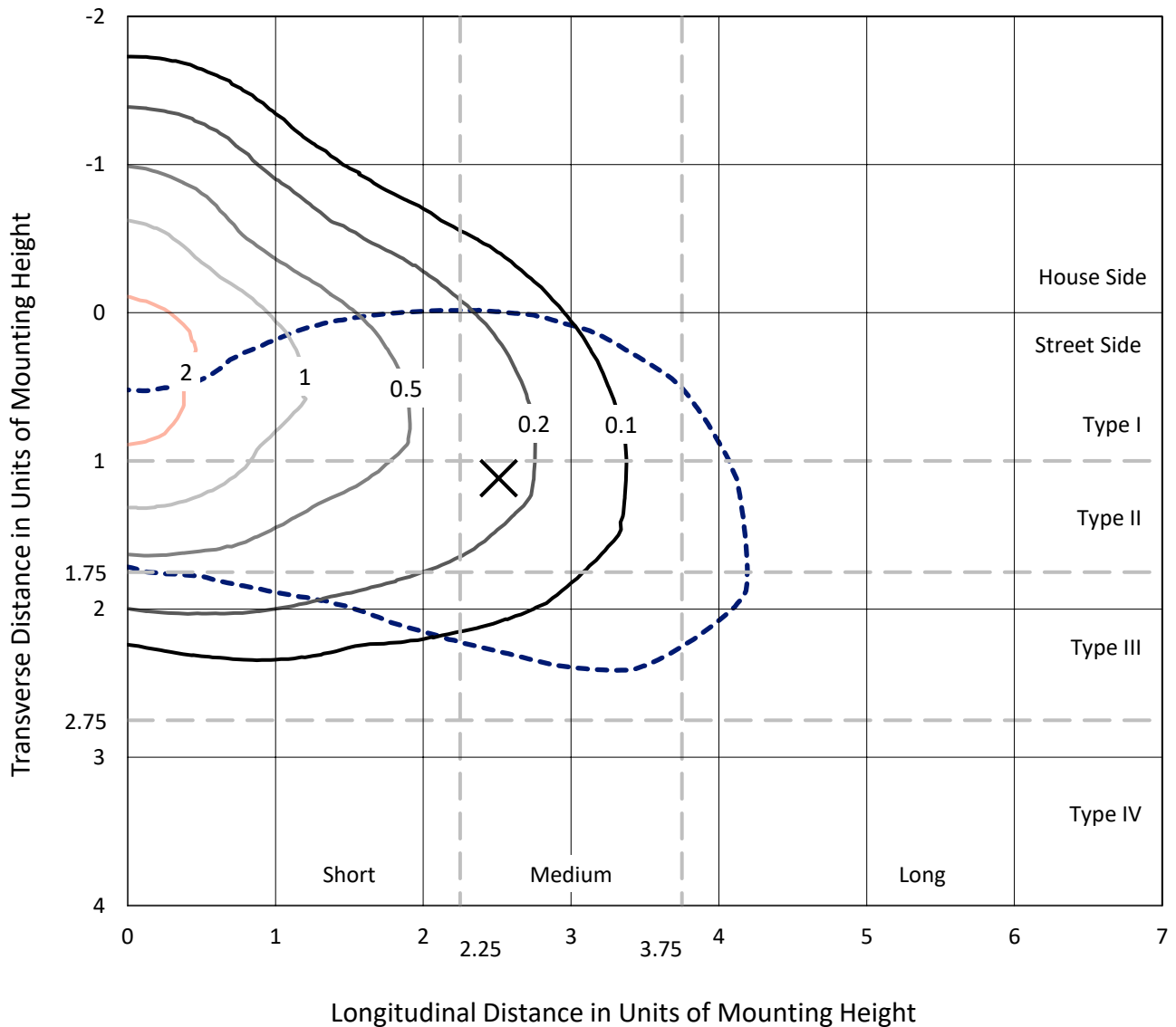
Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

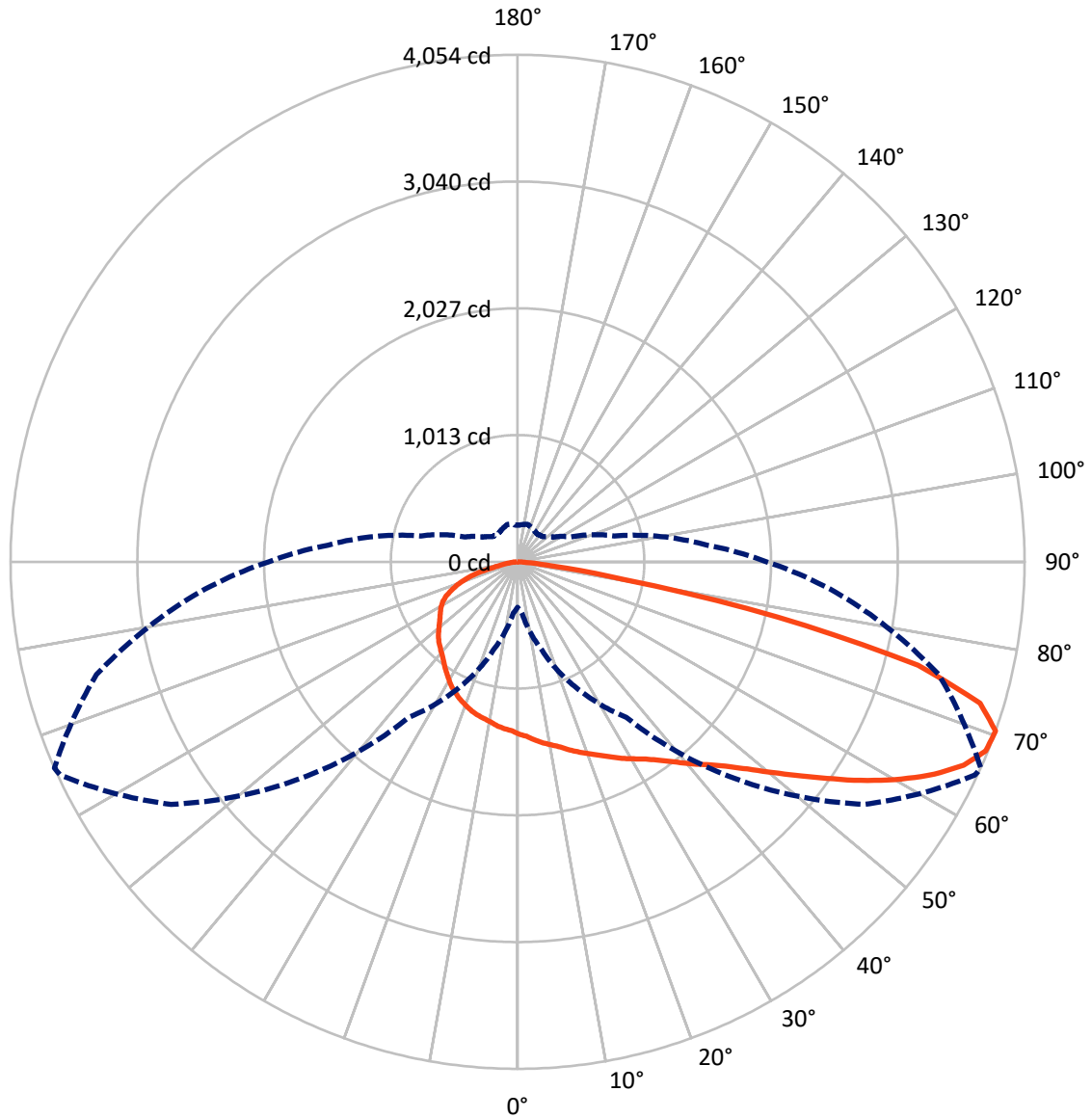
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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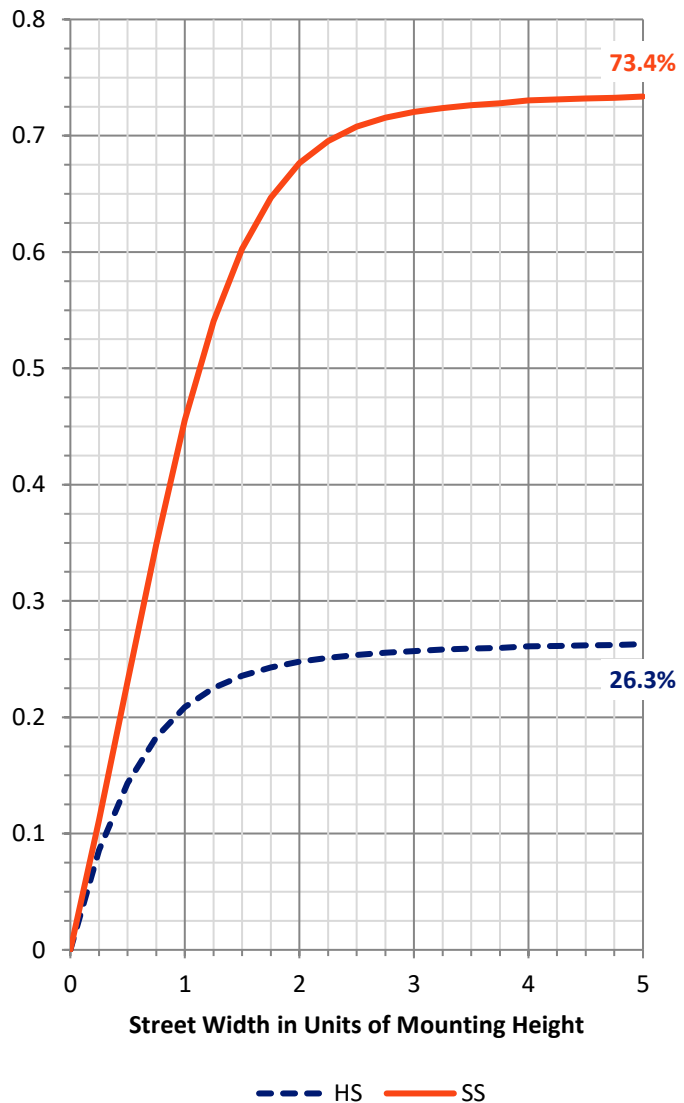
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2023.1	0.0	2023.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	5611.9	0.0	5611.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	7635.0	0.0	7635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.7
10°-20°	397.2	5.2
20°-30°	665.8	8.7
30°-40°	996.9	13.1
40°-50°	1332.9	17.5
50°-60°	1556.2	20.4
60°-70°	1547.4	20.3
70°-80°	916.1	12.0
80°-90°	90.3	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°	7635.0	100.0
0°-180°	7635.0	100.0

Coefficient of Utilization

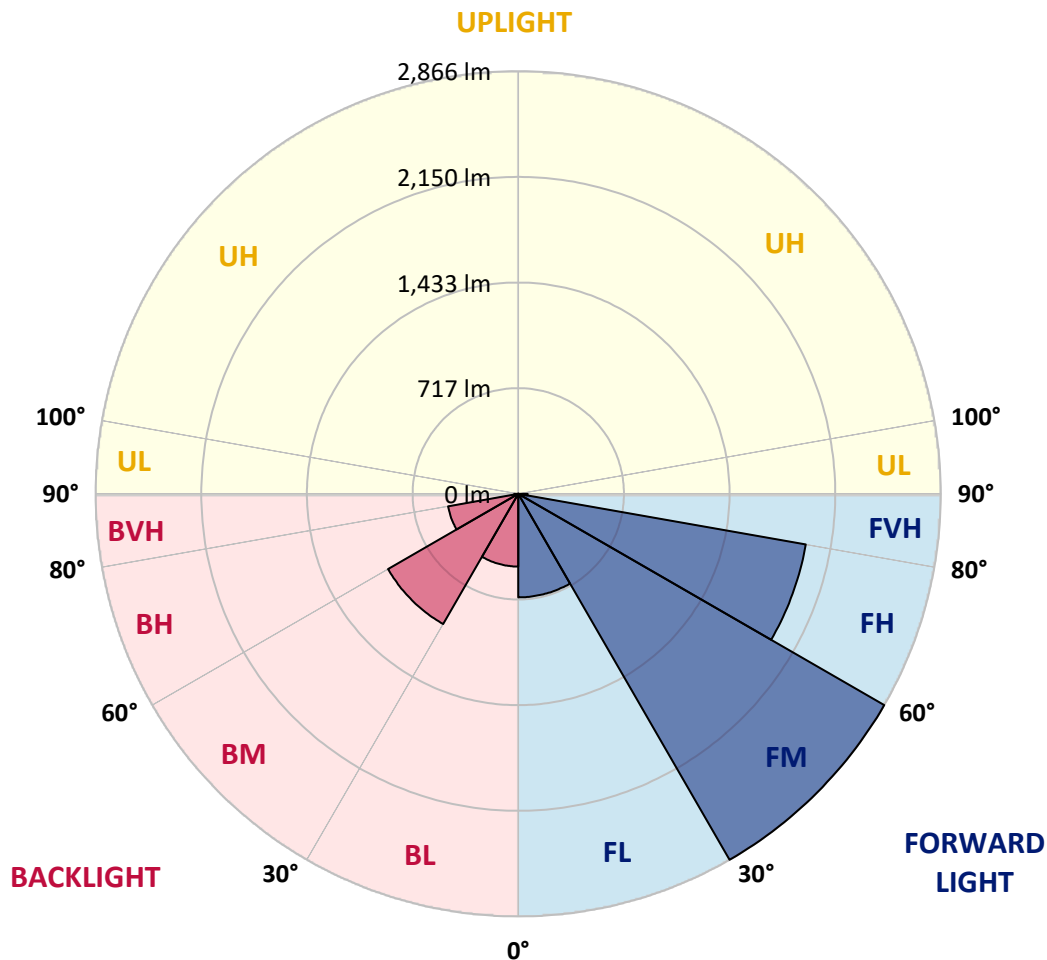


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.2	9.2			
FM (30°-60°)	2866.1	37.5			
FH (60°-80°)	1980.2	25.9			G2/5000
FVH (80°-90°)	63.5	0.8			G1/100
BL (0°-30°)	493.1	6.5	B1/500		
BM (30°-60°)	1019.9	13.4	B2/2500		
BH (60°-80°)	483.3	6.3	B1/500		G1/500
BVH (80°-90°)	26.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9
2.5°	1428.6	1426.4	1425.2	1420.7	1410.6	1415.1	1405.0	1398.2	1397.1	1381.3	1372.3
5°	1487.1	1486.0	1483.8	1477.0	1461.3	1463.5	1446.6	1434.2	1430.9	1406.1	1386.9
7.5°	1536.7	1534.4	1533.3	1524.3	1507.4	1506.3	1486.0	1468.0	1462.4	1428.6	1399.3
10°	1575.0	1571.6	1573.8	1564.8	1546.8	1543.4	1517.5	1493.9	1488.3	1445.5	1405.0
12.5°	1607.6	1605.3	1608.7	1600.8	1586.2	1582.8	1556.9	1526.5	1519.8	1470.3	1417.3
15°	1643.6	1635.7	1642.5	1639.1	1629.0	1627.9	1604.2	1570.5	1561.4	1501.8	1436.5
17.5°	1662.8	1658.3	1666.1	1667.3	1662.8	1670.6	1648.1	1607.6	1599.7	1531.0	1453.4
20°	1676.3	1669.5	1678.5	1685.3	1688.7	1704.4	1686.4	1647.0	1638.0	1559.2	1469.1
22.5°	1722.4	1707.8	1708.9	1713.4	1715.7	1738.2	1726.9	1688.7	1679.7	1594.1	1488.3
25°	1838.4	1809.1	1790.0	1776.5	1760.7	1779.8	1773.1	1735.9	1728.1	1635.7	1511.9
27.5°	2018.5	1981.4	1943.1	1903.7	1841.8	1833.9	1822.6	1788.9	1779.8	1677.4	1535.6
30°	2223.4	2186.2	2141.2	2078.2	1962.2	1901.4	1875.5	1838.4	1828.3	1714.5	1558.1
32.5°	2427.2	2394.5	2349.5	2272.9	2107.4	1983.6	1928.4	1890.2	1880.0	1755.1	1585.1
35°	2585.9	2565.6	2536.4	2440.7	2251.5	2080.4	2005.0	1958.8	1947.6	1819.2	1634.6
37.5°	2714.2	2699.6	2674.8	2574.6	2356.2	2177.2	2092.8	2039.9	2027.5	1889.0	1687.5
40°	2903.4	2865.1	2844.8	2699.6	2447.4	2265.1	2191.9	2136.7	2123.2	1963.3	1730.3
42.5°	3064.3	3036.2	3011.4	2811.1	2534.1	2340.5	2285.3	2234.7	2216.6	2036.5	1776.5
45°	3091.4	3102.6	3090.2	2866.2	2671.5	2414.8	2379.9	2347.2	2330.3	2135.6	1846.3
47.5°	3092.5	3092.5	3019.3	2897.7	2841.4	2498.1	2481.2	2492.5	2474.4	2261.7	1929.6
50°	3011.4	3026.1	2987.8	2905.6	2886.5	2581.4	2605.0	2665.8	2647.8	2395.6	2019.6
52.5°	2843.7	2892.1	2891.0	2893.2	2821.2	2652.3	2735.6	2874.1	2843.7	2546.5	2115.3
55°	2547.6	2644.4	2731.1	2805.4	2764.9	2695.1	2895.5	3095.9	3064.3	2715.4	2212.1
57.5°	2294.3	2356.2	2464.3	2674.8	2698.5	2732.2	3045.2	3327.8	3299.6	2902.2	2313.5
60°	2005.0	2090.6	2198.6	2498.1	2617.4	2780.7	3209.6	3554.1	3527.0	3091.4	2411.4
62.5°	1560.3	1670.6	1886.8	2226.8	2499.2	2811.1	3339.0	3753.3	3740.9	3270.4	2499.2
65°	1087.5	1185.4	1488.3	1893.5	2311.2	2797.5	3442.6	3931.2	3919.9	3416.7	2561.1
67.5°	634.9	748.6	1090.9	1524.3	1979.1	2704.1	3476.4	4035.9	4035.9	3505.7	2578.0
70°	362.5	415.4	719.4	1111.1	1517.5	2446.3	3381.8	4034.8	4053.9	3485.4	2508.2
72.5°	253.3	276.9	484.1	747.5	1029.0	1979.1	3134.1	3840.0	3865.9	3294.0	2269.6
75°	197.0	213.9	341.1	510.0	648.4	1344.2	2592.7	3237.7	3306.4	2807.7	1835.0
77.5°	149.7	162.1	199.3	318.6	415.4	772.3	1711.2	2123.2	2127.7	1719.1	983.9
80°	109.2	121.6	132.8	194.8	220.7	361.4	646.2	887.1	862.3	831.9	532.5
82.5°	65.3	77.7	81.1	105.8	108.1	154.2	226.3	285.9	274.7	365.9	249.9
85°	28.1	39.4	41.7	48.4	46.2	63.0	90.1	75.4	67.5	77.7	54.0
87.5°	6.8	11.3	11.3	12.4	10.1	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°	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9
2.5°	1370.1	1366.7	1367.8	1348.7	1343.0	1337.4	1334.0	1331.8	1329.5	1332.9	1336.3
5°	1380.2	1372.3	1363.3	1335.2	1323.9	1311.5	1302.5	1294.6	1291.3	1291.3	1294.6
7.5°	1388.1	1374.6	1355.4	1318.3	1298.0	1281.1	1266.5	1256.4	1250.7	1250.7	1254.1
10°	1389.2	1370.1	1339.7	1294.6	1267.6	1242.9	1226.0	1214.7	1206.8	1206.8	1209.1
12.5°	1396.0	1370.1	1330.7	1276.6	1242.9	1212.5	1192.2	1175.3	1171.9	1171.9	1174.2
15°	1407.2	1375.7	1325.0	1260.9	1220.3	1185.4	1162.9	1144.9	1138.2	1142.7	1143.8
17.5°	1417.3	1379.1	1314.9	1240.6	1192.2	1153.9	1129.1	1113.4	1104.4	1114.5	1114.5
20°	1424.1	1379.1	1300.3	1214.7	1161.8	1119.0	1095.4	1076.2	1069.5	1081.9	1083.0
22.5°	1434.2	1377.9	1284.5	1188.8	1129.1	1084.1	1060.5	1045.8	1042.5	1056.0	1060.5
25°	1445.5	1380.2	1267.6	1159.5	1093.1	1049.2	1031.2	1024.5	1026.7	1043.6	1049.2
27.5°	1457.9	1384.7	1250.7	1126.9	1053.7	1014.3	1004.2	1007.6	1016.6	1038.0	1044.7
30°	1469.1	1385.8	1227.1	1088.6	1008.7	971.5	976.0	990.7	1004.2	1025.6	1033.5
32.5°	1483.8	1386.9	1202.3	1047.0	960.3	933.3	953.5	977.2	990.7	1010.9	1019.9
35°	1519.8	1406.1	1183.2	1006.4	915.3	900.6	934.4	964.8	972.7	990.7	998.6
37.5°	1561.4	1437.6	1173.1	964.8	871.3	868.0	910.7	941.1	943.4	954.7	962.5
40°	1587.3	1451.1	1161.8	929.9	831.9	834.2	878.1	901.7	897.2	905.1	910.7
42.5°	1613.2	1455.6	1138.2	900.6	794.8	797.0	830.8	847.7	850.0	866.8	874.7
45°	1657.1	1468.0	1112.3	873.6	761.0	753.1	773.4	795.9	825.2	857.8	866.8
47.5°	1715.7	1493.9	1085.2	841.0	728.4	702.5	710.4	749.8	780.2	810.6	816.2
50°	1775.3	1519.8	1060.5	801.5	695.7	648.4	651.8	687.8	712.6	736.3	739.6
52.5°	1833.9	1542.3	1039.1	764.4	658.6	584.3	597.8	634.9	651.8	663.1	666.5
55°	1892.4	1561.4	1019.9	732.9	615.8	533.6	546.0	580.9	597.8	603.4	605.7
57.5°	1953.2	1584.0	1005.3	705.9	567.4	488.6	496.5	521.2	537.0	543.7	541.5
60°	2003.9	1603.1	997.4	677.7	519.0	446.9	444.7	467.2	489.7	496.5	494.2
62.5°	2043.3	1615.5	985.0	641.7	476.2	405.3	394.0	423.3	446.9	451.4	454.8
65°	2064.7	1616.6	954.7	595.5	432.3	360.2	352.4	381.6	396.3	400.8	400.8
67.5°	2061.3	1598.6	895.0	533.6	391.8	319.7	313.0	331.0	352.4	355.7	352.4
70°	1991.5	1524.3	799.3	468.3	343.4	283.7	271.3	289.3	309.6	297.2	291.6
72.5°	1793.4	1331.8	658.6	396.3	289.3	238.7	233.0	251.0	252.2	254.4	248.8
75°	1415.1	991.8	493.1	308.5	234.2	200.4	199.3	195.9	200.4	209.4	202.6
77.5°	743.0	495.3	266.8	189.1	170.0	161.0	153.1	152.0	165.5	171.1	164.4
80°	403.0	278.1	153.1	113.7	103.6	104.7	114.8	112.6	127.2	130.6	125.0
82.5°	175.6	131.7	75.4	68.7	68.7	67.5	70.9	78.8	94.6	94.6	75.4
85°	38.3	32.6	29.3	33.8	38.3	38.3	38.3	38.3	27.0	14.6	10.1
87.5°	12.4	12.4	12.4	13.5	14.6	14.6	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)