

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: P842390

Luminaire Tested: **ARCH4-40-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

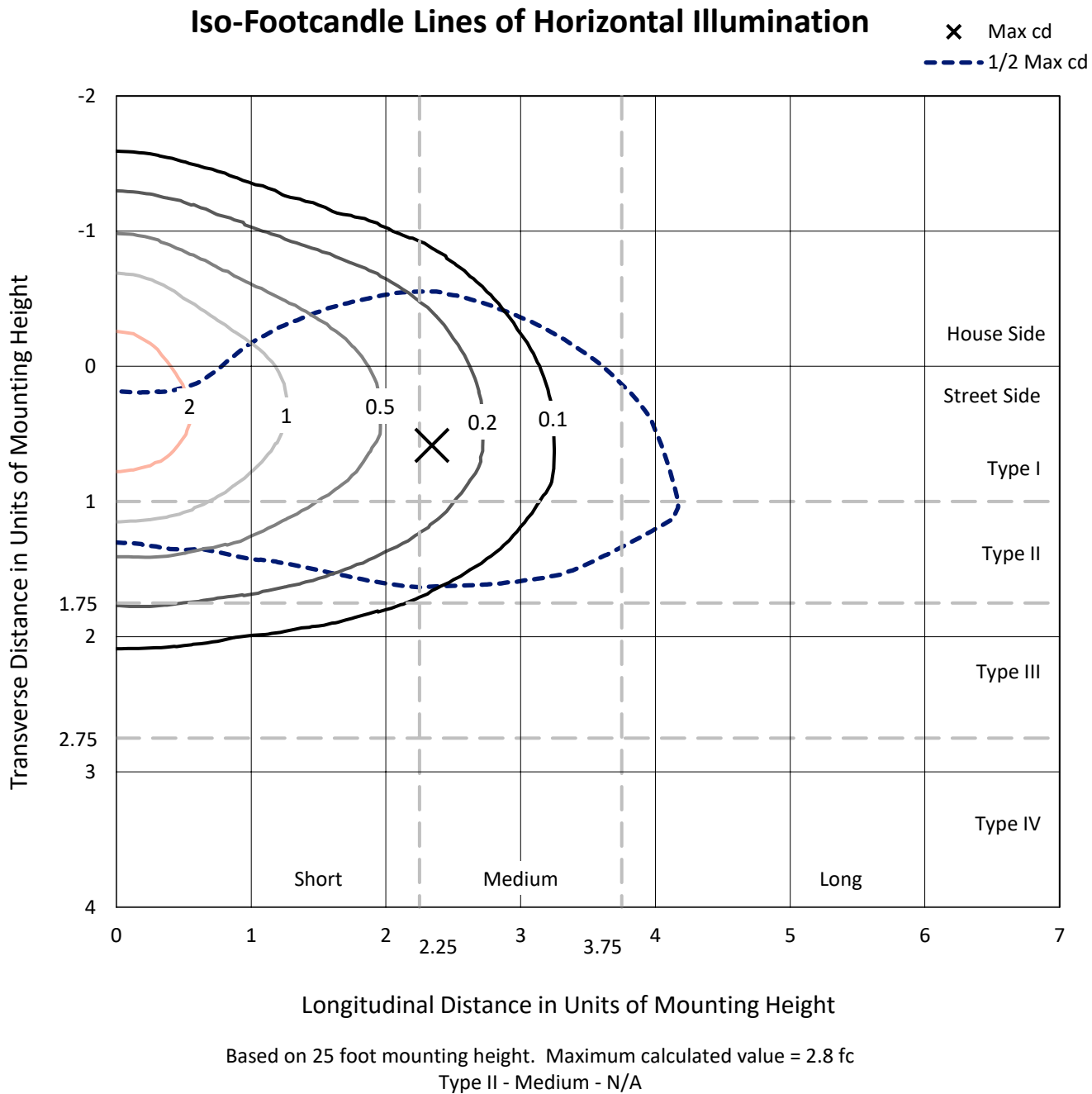
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7664 lumens
Efficiency: N/A
Efficacy: 175.0 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

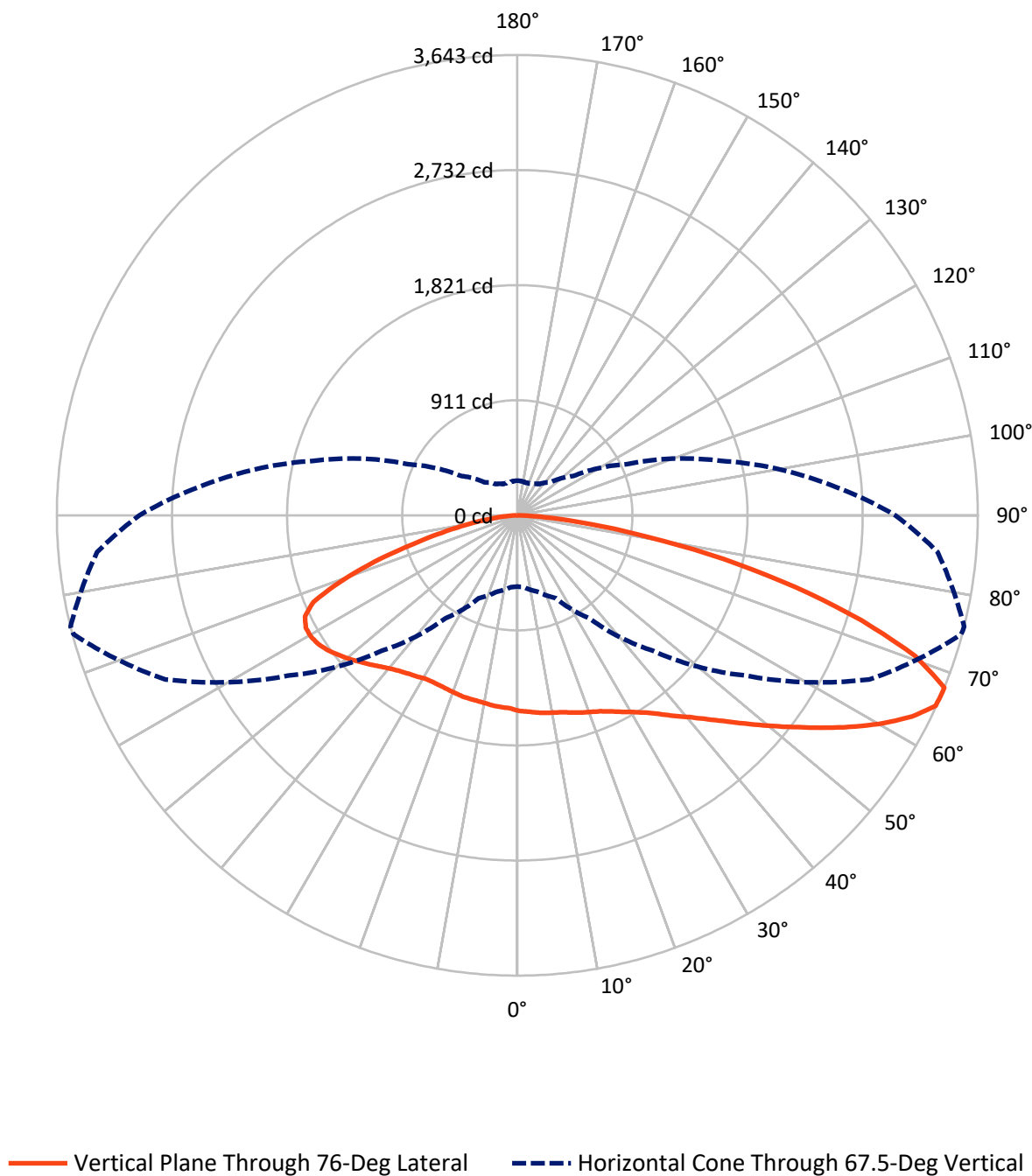


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.7	0.0	2589.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5074.3	0.0	5074.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	7664.0	0.0	7664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.9
10°-20°	456.4	6.0
20°-30°	775.4	10.1
30°-40°	1103.3	14.4
40°-50°	1393.4	18.2
50°-60°	1508.6	19.7
60°-70°	1403.2	18.3
70°-80°	753.6	9.8
80°-90°	120.8	1.6
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°	7664.0	100.0
0°-180°	7664.0	100.0

Coefficient of Utilization



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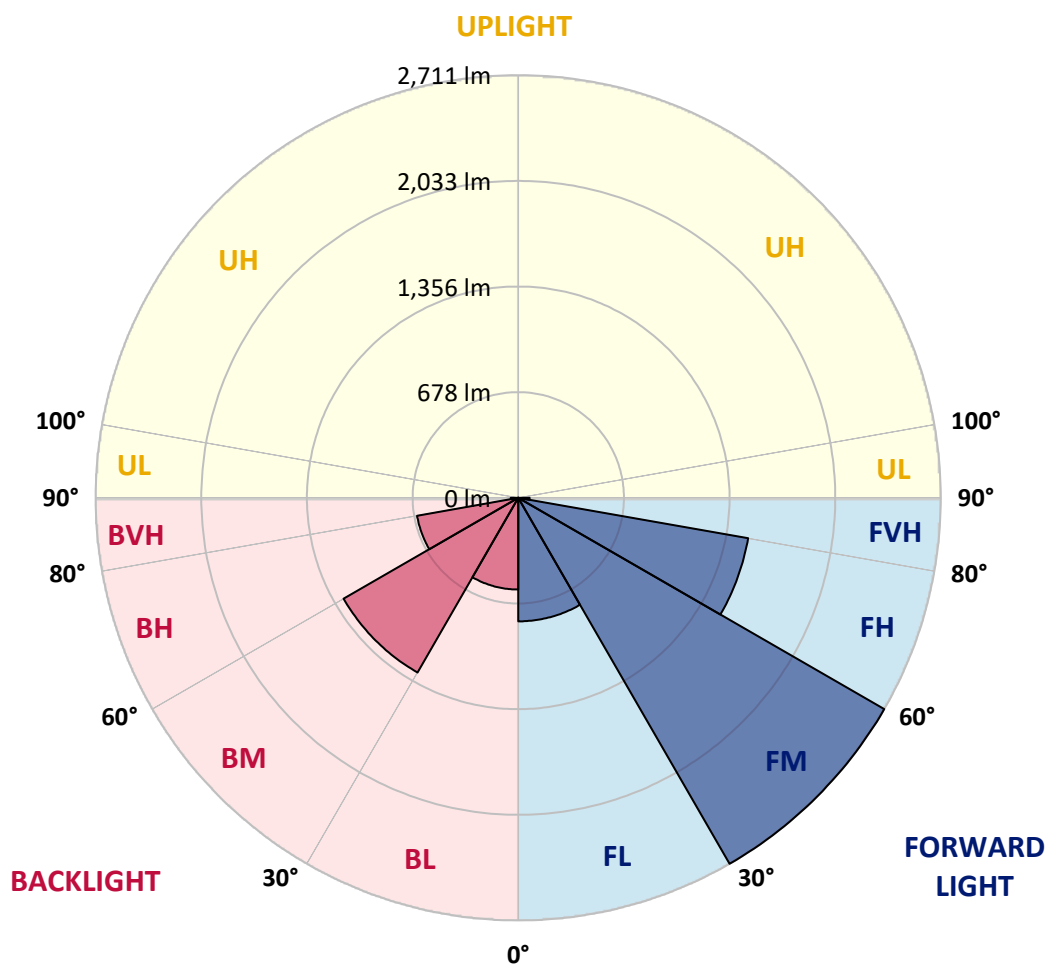
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.5	10.3			
FM	(30°-60°)	2711.2	35.4			
FH	(60°-80°)	1497.5	19.5			G1/1800
FVH	(80°-90°)	73.1	1.0			G1/100
BL	(0°-30°)	588.5	7.7	B2/1000		
BM	(30°-60°)	1294.1	16.9	B2/2500		
BH	(60°-80°)	659.4	8.6	B2/1000		G2/1000
BVH	(80°-90°)	47.7	0.6			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°	76°	85°
0°	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1
2.5°	1595.1	1592.2	1580.8	1582.3	1582.3	1580.8	1563.8	1556.6	1556.6	1555.2	1539.6
5°	1652.0	1647.7	1634.9	1632.1	1626.4	1619.3	1592.2	1576.6	1569.5	1568.0	1546.7
7.5°	1718.9	1713.2	1697.5	1689.0	1674.7	1656.3	1622.1	1597.9	1580.8	1579.4	1549.5
10°	1785.7	1780.0	1761.5	1745.9	1726.0	1696.1	1652.0	1616.4	1589.4	1586.5	1551.0
12.5°	1865.4	1859.7	1837.0	1817.0	1787.2	1747.3	1689.0	1640.6	1603.6	1599.3	1555.2
15°	1949.4	1940.8	1918.1	1895.3	1858.3	1807.1	1737.4	1673.3	1626.4	1619.3	1568.0
17.5°	2019.1	2007.7	1989.2	1966.4	1925.2	1865.4	1785.7	1706.1	1647.7	1642.0	1580.8
20°	2078.9	2070.3	2050.4	2029.0	1984.9	1919.5	1831.3	1738.8	1667.6	1660.5	1590.8
22.5°	2135.8	2124.4	2113.0	2097.3	2049.0	1976.4	1883.9	1778.6	1693.2	1684.7	1603.6
25°	2201.2	2188.4	2184.1	2175.6	2118.7	2044.7	1947.9	1828.4	1728.8	1718.9	1626.4
27.5°	2282.3	2268.1	2259.6	2259.6	2191.3	2114.4	2016.2	1886.8	1770.1	1761.5	1654.8
30°	2367.7	2350.6	2337.8	2337.8	2261.0	2184.1	2083.1	1945.1	1817.0	1807.1	1691.8
32.5°	2443.1	2426.0	2411.8	2410.4	2330.7	2253.9	2152.8	2009.1	1874.0	1861.1	1737.4
35°	2501.5	2485.8	2473.0	2475.8	2400.4	2325.0	2231.1	2094.5	1945.1	1930.9	1797.1
37.5°	2537.0	2531.3	2524.2	2534.2	2464.5	2393.3	2312.2	2177.0	2026.2	2013.4	1871.1
40°	2555.5	2551.3	2579.7	2592.5	2518.5	2454.5	2393.3	2262.4	2114.4	2100.2	1956.5
42.5°	2582.6	2618.1	2629.5	2626.7	2558.4	2501.5	2467.3	2354.9	2218.3	2205.5	2058.9
45°	2485.8	2477.3	2539.9	2574.0	2561.2	2531.3	2537.0	2465.9	2339.2	2326.4	2177.0
47.5°	2356.3	2344.9	2380.5	2464.5	2514.3	2542.7	2599.6	2581.1	2478.7	2467.3	2315.1
50°	2083.1	2098.8	2231.1	2343.5	2441.7	2539.9	2652.3	2704.9	2632.4	2621.0	2463.0
52.5°	1780.0	1795.7	1933.7	2192.7	2353.5	2518.5	2690.7	2828.7	2798.8	2786.0	2621.0
55°	1559.5	1593.6	1750.2	1938.0	2228.3	2451.7	2713.5	2955.4	2978.1	2966.7	2793.1
57.5°	1340.4	1366.0	1484.1	1650.6	2057.5	2335.0	2712.0	3073.5	3165.9	3154.6	2968.2
60°	1082.8	1115.6	1209.5	1388.7	1829.8	2195.5	2672.2	3165.9	3346.7	3338.1	3137.5
62.5°	906.4	916.3	983.2	1138.3	1536.7	2019.1	2582.6	3215.7	3510.3	3504.6	3289.7
65°	729.9	731.4	792.6	922.0	1253.6	1800.0	2430.3	3197.2	3634.1	3636.9	3399.3
67.5°	563.5	570.6	626.1	724.3	996.0	1515.4	2212.6	3072.0	3635.5	3642.6	3336.7
70°	389.9	395.6	479.5	574.9	769.8	1208.0	1918.1	2740.5	3336.7	3342.4	2990.9
72.5°	274.6	277.5	367.1	459.6	601.9	910.7	1447.1	2266.7	2844.4	2848.6	2515.7
75°	204.9	207.7	259.0	348.6	461.0	630.3	988.9	1735.9	2272.4	2272.4	1986.4
77.5°	145.1	146.6	167.9	240.5	307.3	425.4	594.8	1136.9	1667.6	1670.5	1447.1
80°	98.2	99.6	109.6	162.2	192.1	230.5	323.0	596.2	1051.5	1055.8	919.2
82.5°	51.2	54.1	61.2	82.5	96.8	128.1	166.5	303.1	582.0	593.3	552.1
85°	19.9	19.9	22.8	27.0	35.6	49.8	76.8	115.3	263.2	271.8	243.3
87.5°	7.1	7.1	8.5	8.5	10.0	11.4	12.8	17.1	29.9	29.9	28.5
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°	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1
2.5°	1533.9	1533.9	1526.8	1529.6	1528.2	1525.3	1522.5	1526.8	1522.5	1512.5	1511.1
5°	1536.7	1533.9	1522.5	1521.1	1516.8	1511.1	1504.0	1506.8	1499.7	1491.2	1489.8
7.5°	1538.2	1532.5	1516.8	1511.1	1502.6	1491.2	1479.8	1479.8	1469.9	1461.3	1459.9
10°	1535.3	1528.2	1506.8	1495.5	1479.8	1462.7	1447.1	1442.8	1431.4	1421.5	1421.5
12.5°	1536.7	1526.8	1499.7	1481.2	1459.9	1438.5	1418.6	1412.9	1403.0	1393.0	1391.6
15°	1545.3	1531.0	1496.9	1472.7	1441.4	1417.2	1395.9	1391.6	1383.1	1375.9	1375.9
17.5°	1553.8	1535.3	1492.6	1458.5	1420.1	1393.0	1373.1	1373.1	1367.4	1363.1	1363.1
20°	1558.1	1536.7	1484.1	1438.5	1394.4	1366.0	1347.5	1350.3	1348.9	1347.5	1347.5
22.5°	1568.0	1539.6	1477.0	1420.1	1367.4	1337.5	1320.4	1324.7	1323.3	1323.3	1324.7
25°	1583.7	1546.7	1471.3	1403.0	1341.8	1309.1	1290.6	1293.4	1293.4	1293.4	1293.4
27.5°	1605.0	1560.9	1469.9	1387.3	1316.2	1279.2	1256.4	1256.4	1250.7	1252.1	1253.6
30°	1637.8	1588.0	1472.7	1373.1	1289.1	1242.2	1215.2	1210.9	1209.5	1212.3	1213.7
32.5°	1677.6	1624.9	1489.8	1363.1	1260.7	1200.9	1166.8	1165.4	1161.1	1161.1	1161.1
35°	1727.4	1660.5	1505.4	1361.7	1232.2	1156.8	1119.8	1115.6	1105.6	1101.3	1101.3
37.5°	1791.4	1716.0	1523.9	1351.8	1208.0	1114.1	1070.0	1055.8	1044.4	1043.0	1043.0
40°	1869.7	1778.6	1551.0	1340.4	1182.4	1070.0	1011.7	987.5	988.9	994.6	994.6
42.5°	1962.2	1855.5	1585.1	1334.7	1145.4	1024.5	943.4	914.9	924.9	930.6	932.0
45°	2070.3	1946.5	1623.5	1327.6	1111.3	973.3	870.8	835.2	839.5	840.9	842.4
47.5°	2195.5	2047.5	1663.4	1321.9	1072.9	909.2	791.1	744.2	742.8	734.2	737.1
50°	2326.4	2154.3	1704.6	1311.9	1025.9	833.8	707.2	651.7	640.3	627.5	628.9
52.5°	2465.9	2263.8	1743.0	1296.3	967.6	757.0	627.5	567.7	545.0	530.7	533.6
55°	2619.6	2376.2	1780.0	1272.1	906.4	680.1	556.4	495.2	466.7	455.3	456.7
57.5°	2760.4	2484.4	1807.1	1242.2	839.5	610.4	493.7	434.0	415.5	414.1	415.5
60°	2897.0	2575.4	1818.5	1200.9	771.2	546.4	435.4	389.9	377.1	384.2	385.6
62.5°	3012.3	2633.8	1812.8	1145.4	701.5	485.2	388.5	355.7	347.2	361.4	362.8
65°	3079.1	2652.3	1772.9	1065.7	626.1	425.4	344.3	308.8	304.5	313.0	317.3
67.5°	2990.9	2537.0	1664.8	956.2	542.1	370.0	301.7	273.2	266.1	273.2	273.2
70°	2650.9	2198.4	1408.7	782.6	449.6	315.9	261.8	241.9	236.2	241.9	240.5
72.5°	2208.3	1828.4	1109.9	610.4	354.3	266.1	227.7	209.2	203.5	197.8	194.9
75°	1713.2	1388.7	805.4	448.2	267.5	213.4	190.7	173.6	159.4	165.1	162.2
77.5°	1255.0	974.7	570.6	310.2	192.1	165.1	149.4	136.6	126.6	138.0	136.6
80°	808.2	630.3	381.3	207.7	132.3	115.3	109.6	102.4	112.4	146.6	149.4
82.5°	493.7	399.8	227.7	135.2	86.8	76.8	71.1	71.1	115.3	126.6	128.1
85°	220.5	212.0	123.8	69.7	48.4	44.1	39.8	51.2	47.0	34.1	35.6
87.5°	35.6	37.0	27.0	24.2	18.5	18.5	14.2	10.0	7.1	4.3	4.3
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)