

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: P836570

Luminaire Tested: **ARCH3-40-750-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

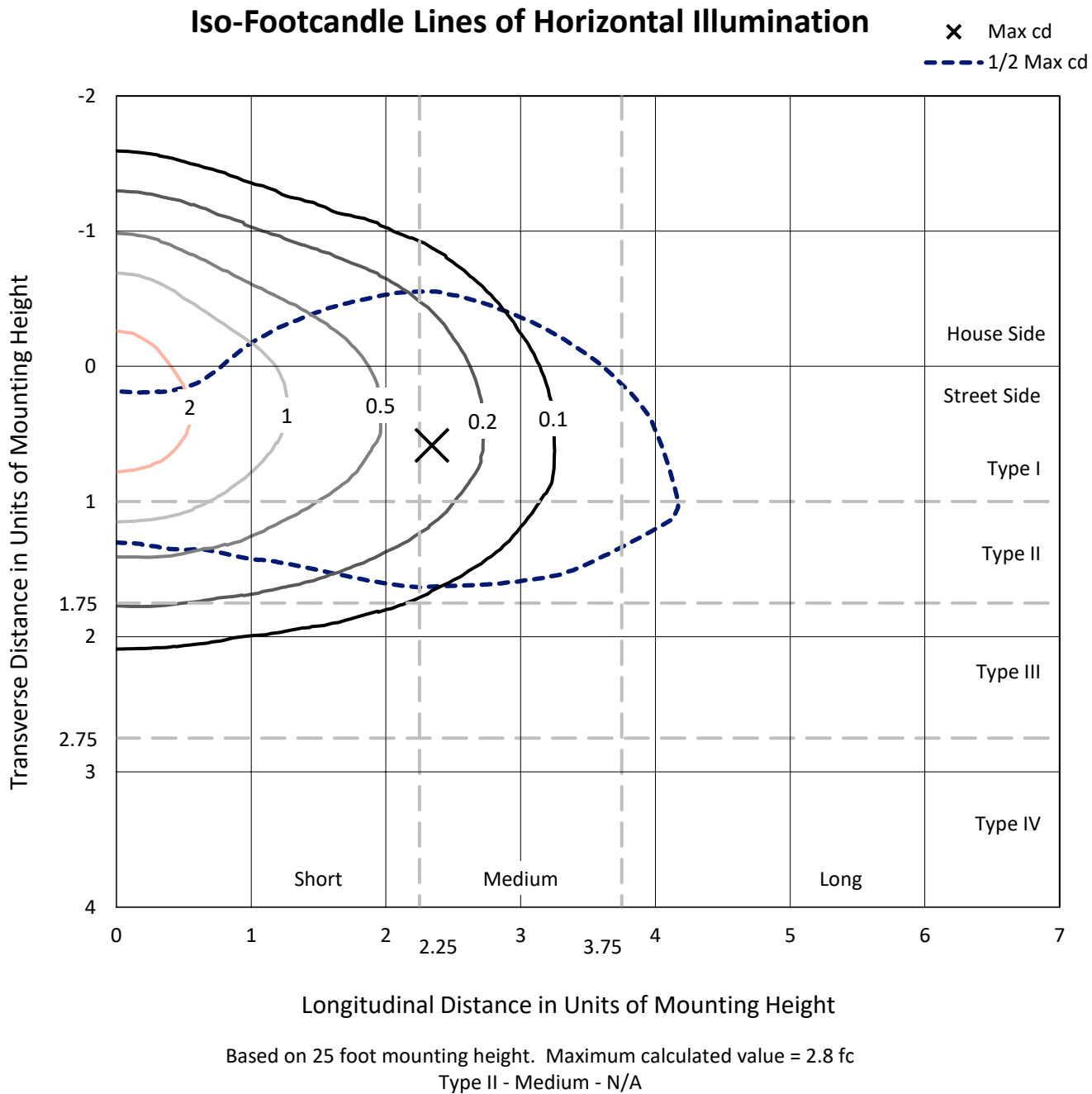
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7682 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - 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

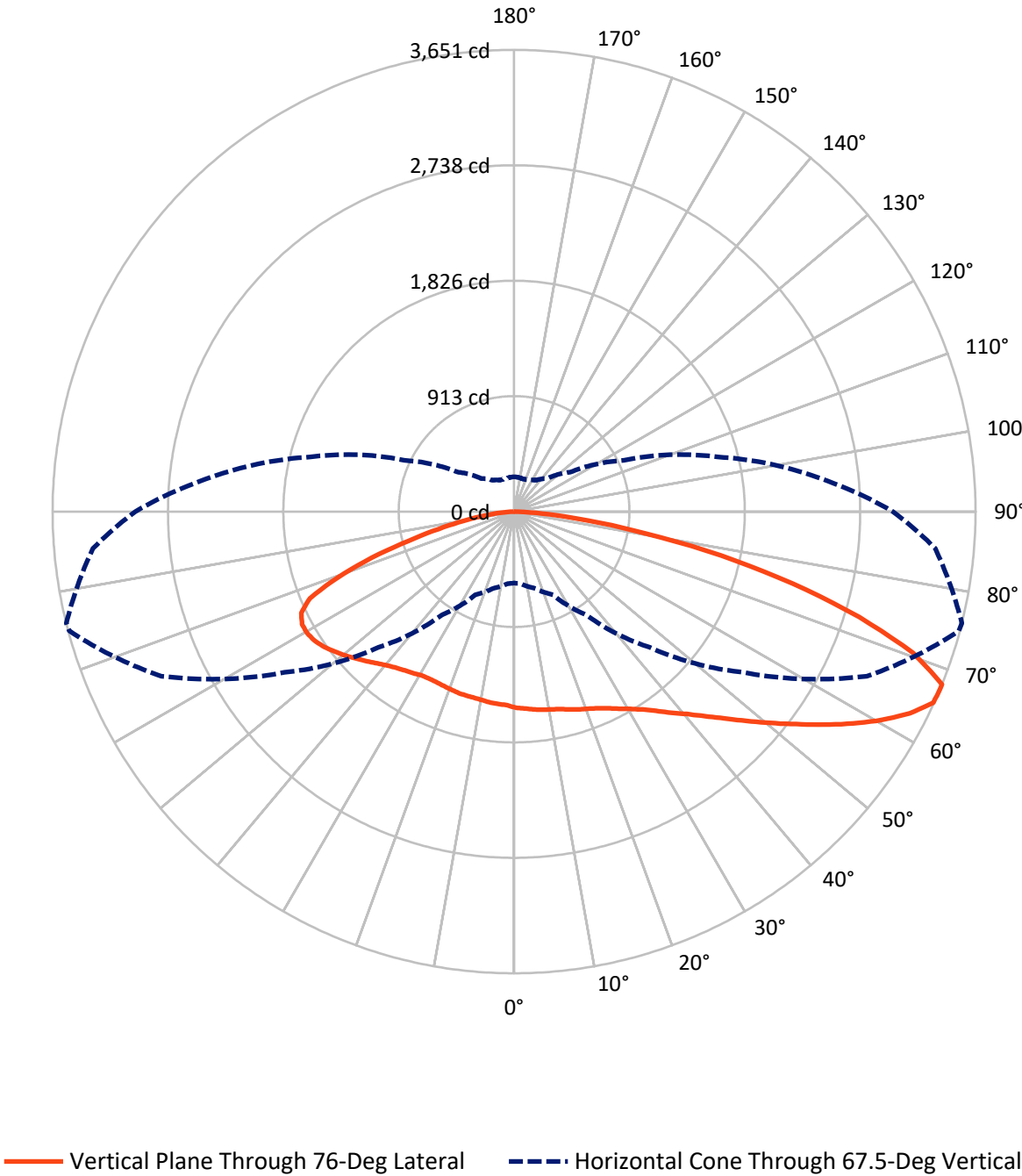


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2595.8	0.0	2595.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5086.2	0.0	5086.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	7682.0	0.0	7682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	1.9
10°-20°	457.5	6.0
20°-30°	777.2	10.1
30°-40°	1105.9	14.4
40°-50°	1396.7	18.2
50°-60°	1512.2	19.7
60°-70°	1406.5	18.3
70°-80°	755.4	9.8
80°-90°	121.0	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°	7682.0	100.0
0°-180°	7682.0	100.0

Coefficient of Utilization



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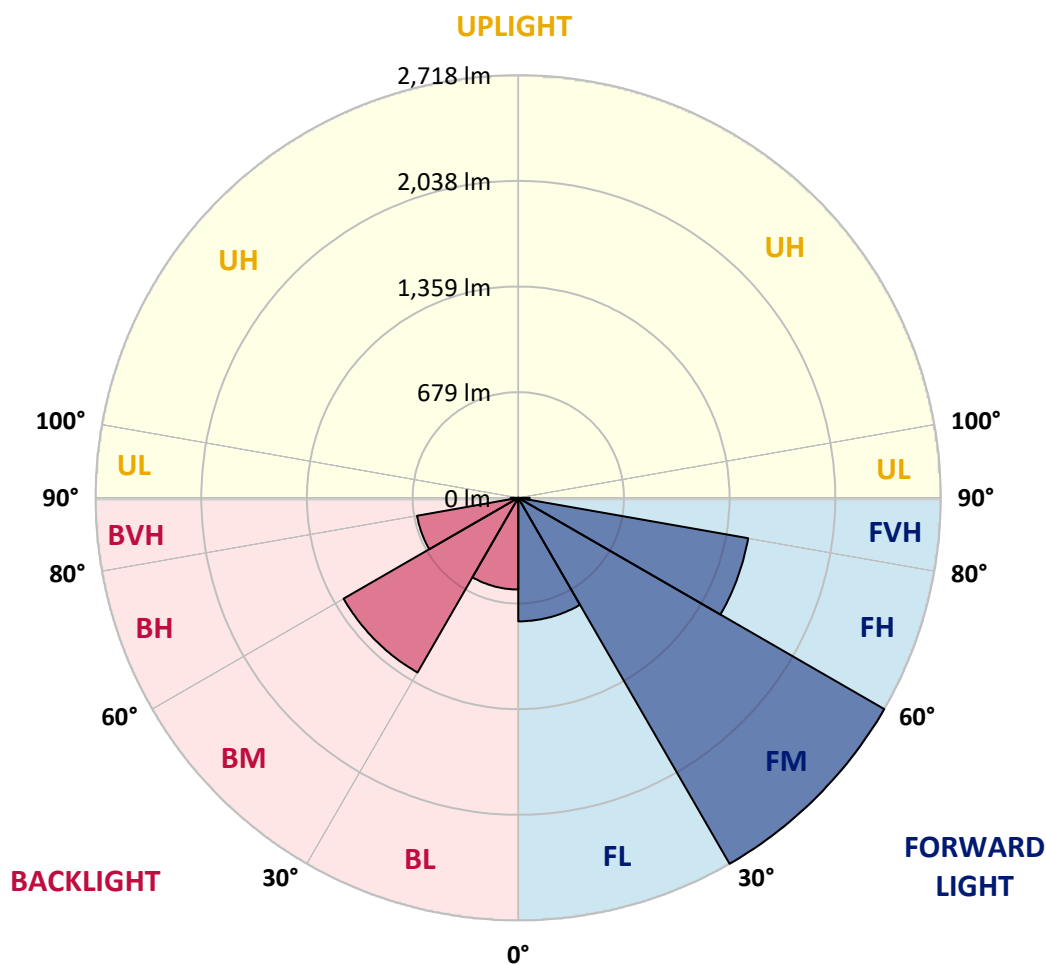
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.4	10.3			
FM	(30°-60°)	2717.6	35.4			
FH	(60°-80°)	1501.0	19.5			G1/1800
FVH	(80°-90°)	73.2	1.0			G1/100
BL	(0°-30°)	589.9	7.7	B2/1000		
BM	(30°-60°)	1297.1	16.9	B2/2500		
BH	(60°-80°)	660.9	8.6	B2/1000		G2/1000
BVH	(80°-90°)	47.8	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°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7
2.5°	1598.8	1596.0	1584.6	1586.0	1586.0	1584.6	1567.4	1560.3	1560.3	1558.9	1543.2
5°	1655.9	1651.6	1638.7	1635.9	1630.2	1623.1	1596.0	1580.3	1573.1	1571.7	1550.3
7.5°	1722.9	1717.2	1701.5	1692.9	1678.7	1660.1	1625.9	1601.7	1584.6	1583.1	1553.2
10°	1789.9	1784.2	1765.7	1750.0	1730.0	1700.1	1655.9	1620.2	1593.1	1590.3	1554.6
12.5°	1869.8	1864.1	1841.3	1821.3	1791.4	1751.4	1692.9	1644.5	1607.4	1603.1	1558.9
15°	1953.9	1945.4	1922.6	1899.7	1862.7	1811.3	1741.4	1677.3	1630.2	1623.1	1571.7
17.5°	2023.8	2012.4	1993.9	1971.1	1929.7	1869.8	1789.9	1710.1	1651.6	1645.9	1584.6
20°	2083.7	2075.2	2055.2	2033.8	1989.6	1924.0	1835.6	1742.9	1671.6	1664.4	1594.5
22.5°	2140.8	2129.4	2118.0	2102.3	2053.8	1981.0	1888.3	1782.8	1697.2	1688.7	1607.4
25°	2206.4	2193.6	2189.3	2180.7	2123.7	2049.5	1952.5	1832.7	1732.9	1722.9	1630.2
27.5°	2287.7	2273.4	2264.9	2264.9	2196.4	2119.4	2021.0	1891.2	1774.2	1765.7	1658.7
30°	2373.3	2356.1	2343.3	2343.3	2266.3	2189.3	2088.0	1949.7	1821.3	1811.3	1695.8
32.5°	2448.9	2431.7	2417.5	2416.0	2336.2	2259.2	2157.9	2013.8	1878.4	1865.5	1741.4
35°	2507.3	2491.6	2478.8	2481.7	2406.1	2330.5	2236.3	2099.4	1949.7	1935.4	1801.3
37.5°	2543.0	2537.3	2530.1	2540.1	2470.2	2398.9	2317.6	2182.1	2031.0	2018.1	1875.5
40°	2561.5	2557.2	2585.8	2598.6	2524.4	2460.3	2398.9	2267.7	2119.4	2105.1	1961.1
42.5°	2588.6	2624.3	2635.7	2632.8	2564.4	2507.3	2473.1	2360.4	2223.5	2210.7	2063.8
45°	2491.6	2483.1	2545.8	2580.1	2567.2	2537.3	2543.0	2471.7	2344.7	2331.9	2182.1
47.5°	2361.9	2350.4	2386.1	2470.2	2520.2	2548.7	2605.7	2587.2	2484.5	2473.1	2320.5
50°	2088.0	2103.7	2236.3	2349.0	2447.4	2545.8	2658.5	2711.3	2638.5	2627.1	2468.8
52.5°	1784.2	1799.9	1938.3	2197.8	2359.0	2524.4	2697.0	2835.4	2805.4	2792.6	2627.1
55°	1563.2	1597.4	1754.3	1942.5	2233.5	2457.4	2719.8	2962.3	2985.1	2973.7	2799.7
57.5°	1343.5	1369.2	1487.6	1654.4	2062.3	2340.5	2718.4	3080.7	3173.4	3162.0	2975.1
60°	1085.4	1118.2	1212.3	1392.0	1834.1	2200.7	2678.5	3173.4	3354.5	3346.0	3144.9
62.5°	908.5	918.5	985.5	1141.0	1540.3	2023.8	2588.6	3223.3	3518.5	3512.8	3297.5
65°	731.7	733.1	794.4	924.2	1256.5	1804.2	2436.0	3204.8	3642.6	3645.5	3407.3
67.5°	564.8	571.9	627.5	726.0	998.4	1518.9	2217.8	3079.2	3644.0	3651.2	3344.5
70°	390.8	396.5	480.6	576.2	771.6	1210.9	1922.6	2746.9	3344.5	3350.2	2998.0
72.5°	275.3	278.1	368.0	460.7	603.3	912.8	1450.5	2272.0	2851.0	2855.3	2521.6
75°	205.4	208.2	259.6	349.4	462.1	631.8	991.2	1740.0	2277.7	2277.7	1991.0
77.5°	145.5	146.9	168.3	241.0	308.1	426.4	596.2	1139.6	1671.6	1674.4	1450.5
80°	98.4	99.8	109.8	162.6	192.5	231.1	323.8	597.6	1054.0	1058.3	921.3
82.5°	51.3	54.2	61.3	82.7	97.0	128.4	166.9	303.8	583.3	594.7	553.4
85°	20.0	20.0	22.8	27.1	35.7	49.9	77.0	115.5	263.9	272.4	243.9
87.5°	7.1	7.1	8.6	8.6	10.0	11.4	12.8	17.1	30.0	30.0	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°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7
2.5°	1537.5	1537.5	1530.4	1533.2	1531.8	1528.9	1526.1	1530.4	1526.1	1516.1	1514.7
5°	1540.3	1537.5	1526.1	1524.6	1520.4	1514.7	1507.5	1510.4	1503.3	1494.7	1493.3
7.5°	1541.8	1536.1	1520.4	1514.7	1506.1	1494.7	1483.3	1483.3	1473.3	1464.7	1463.3
10°	1538.9	1531.8	1510.4	1499.0	1483.3	1466.2	1450.5	1446.2	1434.8	1424.8	1424.8
12.5°	1540.3	1530.4	1503.3	1484.7	1463.3	1441.9	1422.0	1416.3	1406.3	1396.3	1394.9
15°	1548.9	1534.6	1500.4	1476.2	1444.8	1420.5	1399.1	1394.9	1386.3	1379.2	1379.2
17.5°	1557.5	1538.9	1496.1	1461.9	1423.4	1396.3	1376.3	1376.3	1370.6	1366.3	1366.3
20°	1561.7	1540.3	1487.6	1441.9	1397.7	1369.2	1350.6	1353.5	1352.1	1350.6	1350.6
22.5°	1571.7	1543.2	1480.4	1423.4	1370.6	1340.7	1323.5	1327.8	1326.4	1326.4	1327.8
25°	1587.4	1550.3	1474.7	1406.3	1344.9	1312.1	1293.6	1296.5	1296.5	1296.5	1296.5
27.5°	1608.8	1564.6	1473.3	1390.6	1319.3	1282.2	1259.4	1259.4	1253.7	1255.1	1256.5
30°	1641.6	1591.7	1476.2	1376.3	1292.2	1245.1	1218.0	1213.7	1212.3	1215.2	1216.6
32.5°	1681.5	1628.8	1493.3	1366.3	1263.6	1203.7	1169.5	1168.1	1163.8	1163.8	1163.8
35°	1731.5	1664.4	1509.0	1364.9	1235.1	1159.5	1122.4	1118.2	1108.2	1103.9	1103.9
37.5°	1795.6	1720.0	1527.5	1354.9	1210.9	1116.7	1072.5	1058.3	1046.9	1045.4	1045.4
40°	1874.1	1782.8	1554.6	1343.5	1185.2	1072.5	1014.1	989.8	991.2	996.9	996.9
42.5°	1966.8	1859.8	1588.8	1337.8	1148.1	1026.9	945.6	917.1	927.1	932.8	934.2
45°	2075.2	1951.1	1627.3	1330.7	1113.9	975.5	872.9	837.2	841.5	842.9	844.3
47.5°	2200.7	2052.4	1667.3	1325.0	1075.4	911.4	793.0	745.9	744.5	735.9	738.8
50°	2331.9	2159.3	1708.6	1315.0	1028.3	835.8	708.8	653.2	641.8	629.0	630.4
52.5°	2471.7	2269.1	1747.1	1299.3	969.8	758.8	629.0	569.1	546.2	532.0	534.8
55°	2625.7	2381.8	1784.2	1275.1	908.5	681.7	557.7	496.3	467.8	456.4	457.8
57.5°	2766.9	2490.2	1811.3	1245.1	841.5	611.9	494.9	435.0	416.5	415.0	416.5
60°	2903.8	2581.5	1822.7	1203.7	773.0	547.7	436.4	390.8	378.0	385.1	386.5
62.5°	3019.3	2640.0	1817.0	1148.1	703.1	486.3	389.4	356.6	348.0	362.3	363.7
65°	3086.4	2658.5	1777.1	1068.3	627.5	426.4	345.1	309.5	305.2	313.8	318.1
67.5°	2998.0	2543.0	1668.7	958.4	543.4	370.8	302.4	273.8	266.7	273.8	273.8
70°	2657.1	2203.5	1412.0	784.4	450.7	316.6	262.4	242.5	236.8	242.5	241.0
72.5°	2213.5	1832.7	1112.5	611.9	355.1	266.7	228.2	209.7	204.0	198.2	195.4
75°	1717.2	1392.0	807.3	449.3	268.1	213.9	191.1	174.0	159.7	165.4	162.6
77.5°	1257.9	977.0	571.9	310.9	192.5	165.4	149.8	136.9	126.9	138.3	136.9
80°	810.1	631.8	382.2	208.2	132.6	115.5	109.8	102.7	112.7	146.9	149.8
82.5°	494.9	400.8	228.2	135.5	87.0	77.0	71.3	71.3	115.5	126.9	128.4
85°	221.1	212.5	124.1	69.9	48.5	44.2	39.9	51.3	47.1	34.2	35.7
87.5°	35.7	37.1	27.1	24.2	18.5	18.5	14.3	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)