

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: P799765

Luminaire Tested: **ARCH2-50-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7739 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 54
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

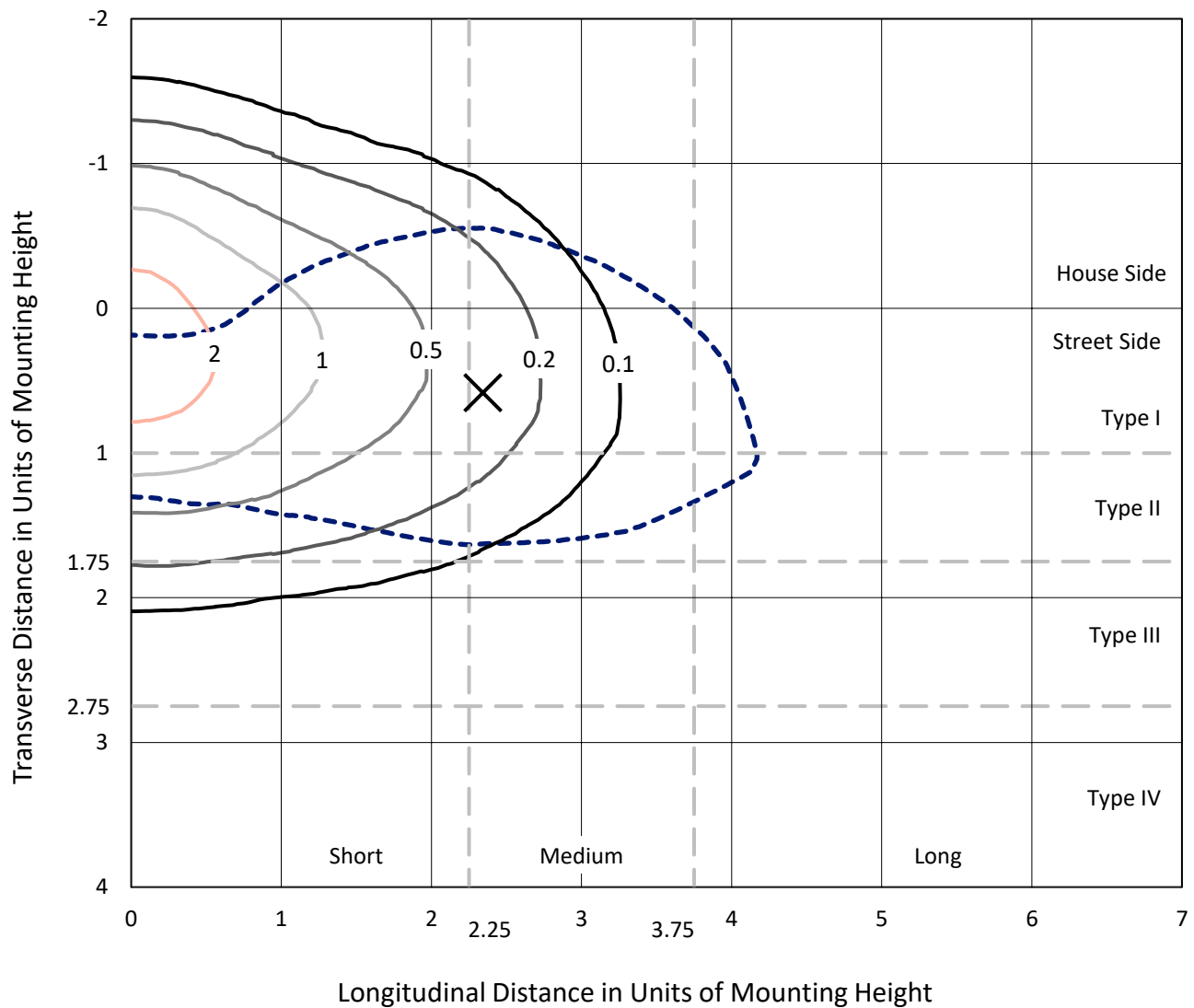


REPORT NUMBER: P799765

CATALOG NUMBER: ARCH2-50-730-U-T2U

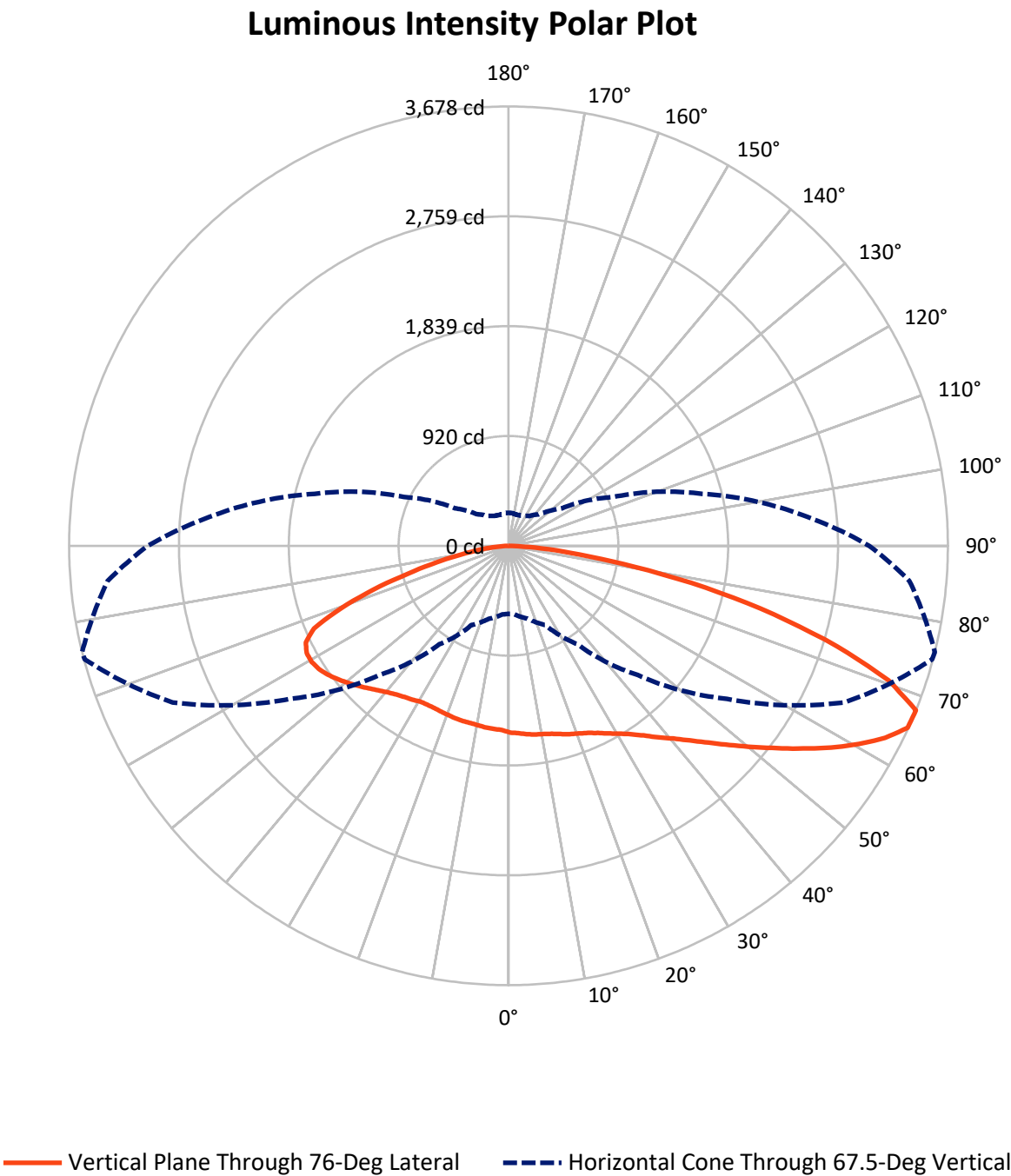
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Medium - N/A

REPORT NUMBER: P799765
CATALOG NUMBER: ARCH2-50-730-U-T2U



REPORT NUMBER: P799765

CATALOG NUMBER: ARCH2-50-730-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.1	0.0	2615.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5123.9	0.0	5123.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	7739.0	0.0	7739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.9
10°-20°	460.8	6.0
20°-30°	783.0	10.1
30°-40°	1114.1	14.4
40°-50°	1407.0	18.2
50°-60°	1523.4	19.7
60°-70°	1416.9	18.3
70°-80°	761.0	9.8
80°-90°	121.9	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°	7739.0	100.0
0°-180°	7739.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799765

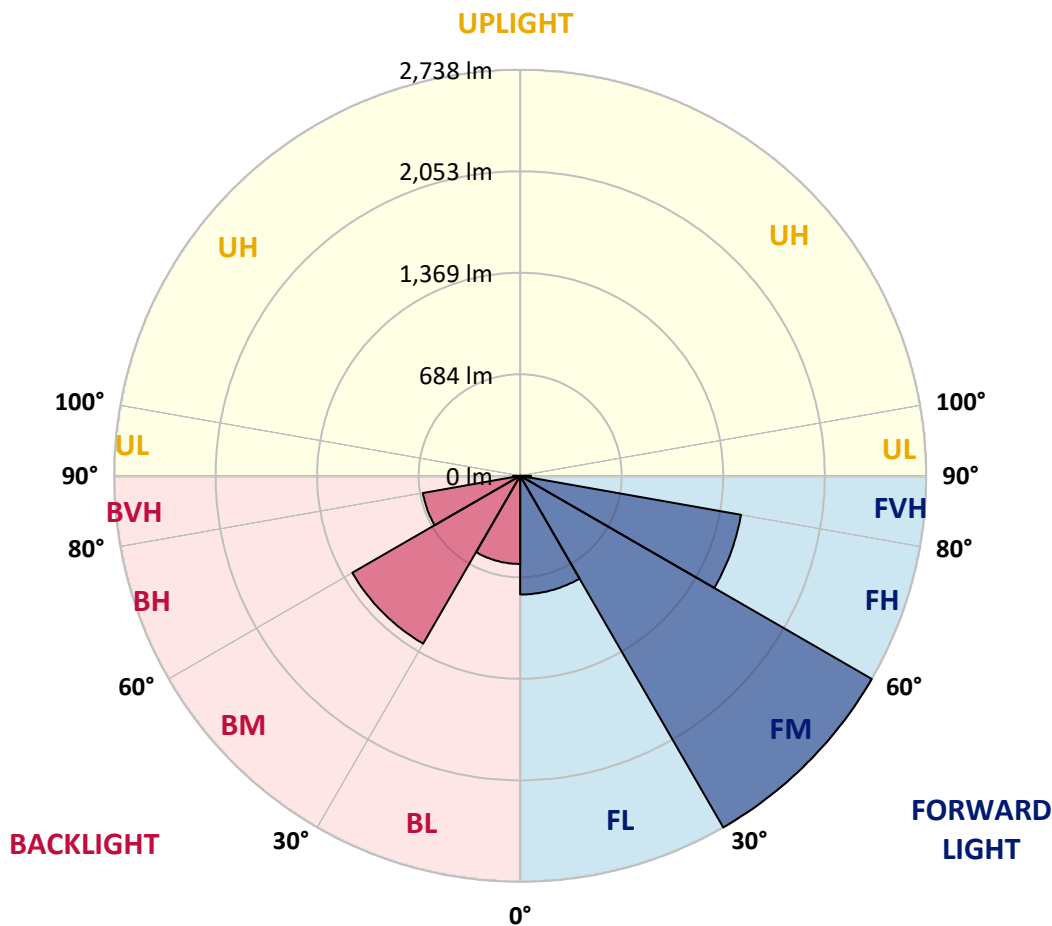
CATALOG NUMBER: ARCH2-50-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.3	10.3			
FM	(30°-60°)	2737.8	35.4			
FH	(60°-80°)	1512.1	19.5			G1/1800
FVH	(80°-90°)	73.8	1.0			G1/100
BL	(0°-30°)	594.3	7.7	B2/1000		
BM	(30°-60°)	1306.8	16.9	B2/2500		
BH	(60°-80°)	665.8	8.6	B2/1000		G2/1000
BVH	(80°-90°)	48.2	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



REPORT NUMBER: P799765

CATALOG NUMBER: ARCH2-50-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1610.7	1607.8	1596.3	1597.7	1597.7	1596.3	1579.1	1571.9	1571.9	1570.4	1554.6
5°	1668.1	1663.8	1650.9	1648.0	1642.3	1635.1	1607.8	1592.0	1584.8	1583.4	1561.8
7.5°	1735.7	1729.9	1714.1	1705.5	1691.1	1672.5	1638.0	1613.5	1596.3	1594.9	1564.7
10°	1803.2	1797.5	1778.8	1763.0	1742.9	1712.7	1668.1	1632.2	1604.9	1602.1	1566.1
12.5°	1883.7	1877.9	1854.9	1834.8	1804.6	1764.4	1705.5	1656.7	1619.3	1615.0	1570.4
15°	1968.4	1959.8	1936.8	1913.8	1876.5	1824.8	1754.4	1689.7	1642.3	1635.1	1583.4
17.5°	2038.8	2027.4	2008.7	1985.7	1944.0	1883.7	1803.2	1722.7	1663.8	1658.1	1596.3
20°	2099.2	2090.6	2070.5	2048.9	2004.4	1938.3	1849.2	1755.8	1684.0	1676.8	1606.4
22.5°	2156.7	2145.2	2133.7	2117.9	2069.0	1995.7	1902.4	1796.0	1709.8	1701.2	1619.3
25°	2222.8	2209.8	2205.5	2196.9	2139.4	2064.7	1967.0	1846.3	1745.7	1735.7	1642.3
27.5°	2304.7	2290.3	2281.7	2281.7	2212.7	2135.1	2036.0	1905.2	1787.4	1778.8	1671.0
30°	2390.9	2373.6	2360.7	2360.7	2283.1	2205.5	2103.5	1964.1	1834.8	1824.8	1708.4
32.5°	2467.0	2449.8	2435.4	2434.0	2353.5	2275.9	2173.9	2028.8	1892.3	1879.4	1754.4
35°	2525.9	2510.1	2497.2	2500.1	2423.9	2347.8	2252.9	2115.0	1964.1	1949.8	1814.7
37.5°	2561.9	2556.1	2548.9	2559.0	2488.6	2416.7	2334.8	2198.3	2046.0	2033.1	1889.4
40°	2580.5	2576.2	2605.0	2617.9	2543.2	2478.5	2416.7	2284.5	2135.1	2120.7	1975.6
42.5°	2607.8	2643.8	2655.2	2652.4	2583.4	2525.9	2491.4	2377.9	2240.0	2227.1	2079.1
45°	2510.1	2501.5	2564.7	2599.2	2586.3	2556.1	2561.9	2490.0	2362.1	2349.2	2198.3
47.5°	2379.4	2367.9	2403.8	2488.6	2538.9	2567.6	2625.1	2606.4	2502.9	2491.4	2337.7
50°	2103.5	2119.3	2252.9	2366.4	2465.6	2564.7	2678.2	2731.4	2658.1	2646.6	2487.1
52.5°	1797.5	1813.3	1952.6	2214.1	2376.5	2543.2	2717.0	2856.4	2826.2	2813.3	2646.6
55°	1574.8	1609.2	1767.3	1956.9	2250.1	2475.6	2740.0	2984.3	3007.3	2995.8	2820.5
57.5°	1353.5	1379.3	1498.6	1666.7	2077.6	2357.8	2738.6	3103.5	3196.9	3185.4	2997.2
60°	1093.4	1126.5	1221.3	1402.3	1847.8	2217.0	2698.3	3196.9	3379.4	3370.8	3168.2
62.5°	915.3	925.3	992.8	1149.5	1551.8	2038.8	2607.8	3247.2	3544.6	3538.9	3321.9
65°	737.1	738.5	800.3	931.1	1265.8	1817.6	2454.1	3228.5	3669.6	3672.5	3432.6
67.5°	569.0	576.2	632.2	731.3	1005.8	1530.2	2234.3	3102.1	3671.1	3678.3	3369.3
70°	393.7	399.4	484.2	580.5	777.3	1219.9	1936.8	2767.3	3369.3	3375.1	3020.2
72.5°	277.3	280.2	370.7	464.1	607.8	919.6	1461.2	2288.9	2872.2	2876.5	2540.3
75°	206.9	209.8	261.5	352.0	465.5	636.5	998.6	1752.9	2294.6	2294.6	2005.8
77.5°	146.6	148.0	169.5	242.8	310.4	429.6	600.6	1148.0	1684.0	1686.8	1461.2
80°	99.1	100.6	110.6	163.8	194.0	232.8	326.2	602.0	1061.8	1066.1	928.2
82.5°	51.7	54.6	61.8	83.3	97.7	129.3	168.1	306.0	587.7	599.2	557.5
85°	20.1	20.1	23.0	27.3	35.9	50.3	77.6	116.4	265.8	274.4	245.7
87.5°	7.2	7.2	8.6	8.6	10.1	11.5	12.9	17.2	30.2	30.2	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799765

CATALOG NUMBER: ARCH2-50-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1548.9	1548.9	1541.7	1544.6	1543.1	1540.3	1537.4	1541.7	1537.4	1527.3	1525.9
5°	1551.8	1548.9	1537.4	1536.0	1531.7	1525.9	1518.7	1521.6	1514.4	1505.8	1504.4
7.5°	1553.2	1547.5	1531.7	1525.9	1517.3	1505.8	1494.3	1494.3	1484.2	1475.6	1474.2
10°	1550.3	1543.1	1521.6	1510.1	1494.3	1477.1	1461.2	1456.9	1445.4	1435.4	1435.4
12.5°	1551.8	1541.7	1514.4	1495.7	1474.2	1452.6	1432.5	1426.8	1416.7	1406.6	1405.2
15°	1560.4	1546.0	1511.5	1487.1	1455.5	1431.1	1409.5	1405.2	1396.6	1389.4	1389.4
17.5°	1569.0	1550.3	1507.2	1472.7	1433.9	1406.6	1386.5	1386.5	1380.8	1376.5	1376.5
20°	1573.3	1551.8	1498.6	1452.6	1408.1	1379.3	1360.7	1363.5	1362.1	1360.7	1360.7
22.5°	1583.4	1554.6	1491.4	1433.9	1380.8	1350.6	1333.4	1337.7	1336.2	1336.2	1337.7
25°	1599.2	1561.8	1485.7	1416.7	1354.9	1321.9	1303.2	1306.1	1306.1	1306.1	1306.1
27.5°	1620.7	1576.2	1484.2	1400.9	1329.1	1291.7	1268.7	1268.7	1263.0	1264.4	1265.8
30°	1653.8	1603.5	1487.1	1386.5	1301.8	1254.3	1227.0	1222.7	1221.3	1224.2	1225.6
32.5°	1694.0	1640.8	1504.4	1376.5	1273.0	1212.7	1178.2	1176.8	1172.4	1172.4	1172.4
35°	1744.3	1676.8	1520.2	1375.0	1244.3	1168.1	1130.8	1126.5	1116.4	1112.1	1112.1
37.5°	1809.0	1732.8	1538.8	1365.0	1219.9	1125.0	1080.5	1066.1	1054.6	1053.2	1053.2
40°	1888.0	1796.0	1566.1	1353.5	1194.0	1080.5	1021.6	997.2	998.6	1004.3	1004.3
42.5°	1981.4	1873.6	1600.6	1347.7	1156.6	1034.5	952.6	923.9	933.9	939.7	941.1
45°	2090.6	1965.6	1639.4	1340.6	1122.2	982.8	879.3	843.4	847.7	849.2	850.6
47.5°	2217.0	2067.6	1679.6	1334.8	1083.4	918.1	798.9	751.5	750.0	741.4	744.3
50°	2349.2	2175.3	1721.3	1324.7	1035.9	842.0	714.1	658.1	646.6	633.6	635.1
52.5°	2490.0	2286.0	1760.1	1308.9	977.0	764.4	633.6	573.3	550.3	535.9	538.8
55°	2645.2	2399.5	1797.5	1284.5	915.3	686.8	561.8	500.0	471.3	459.8	461.2
57.5°	2787.4	2508.7	1824.8	1254.3	847.7	616.4	498.6	438.2	419.6	418.1	419.6
60°	2925.4	2600.6	1836.3	1212.7	778.8	551.7	439.7	393.7	380.8	387.9	389.4
62.5°	3041.7	2659.6	1830.5	1156.6	708.4	490.0	392.3	359.2	350.6	365.0	366.4
65°	3109.3	2678.2	1790.3	1076.2	632.2	429.6	347.7	311.8	307.5	316.1	320.4
67.5°	3020.2	2561.9	1681.1	965.5	547.4	373.6	304.6	275.9	268.7	275.9	275.9
70°	2676.8	2219.9	1422.5	790.3	454.0	319.0	264.4	244.3	238.5	244.3	242.8
72.5°	2229.9	1846.3	1120.7	616.4	357.8	268.7	229.9	211.2	205.5	199.7	196.8
75°	1729.9	1402.3	813.2	452.6	270.1	215.5	192.5	175.3	160.9	166.7	163.8
77.5°	1267.3	984.2	576.2	313.2	194.0	166.7	150.9	137.9	127.9	139.4	137.9
80°	816.1	636.5	385.1	209.8	133.6	116.4	110.6	103.5	113.5	148.0	150.9
82.5°	498.6	403.7	229.9	136.5	87.6	77.6	71.8	71.8	116.4	127.9	129.3
85°	222.7	214.1	125.0	70.4	48.9	44.5	40.2	51.7	47.4	34.5	35.9
87.5°	35.9	37.4	27.3	24.4	18.7	18.7	14.4	10.1	7.2	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)