

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: P799125

Luminaire Tested: **ARCH1-60-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799125
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: ARCH1-60-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7048 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 60
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

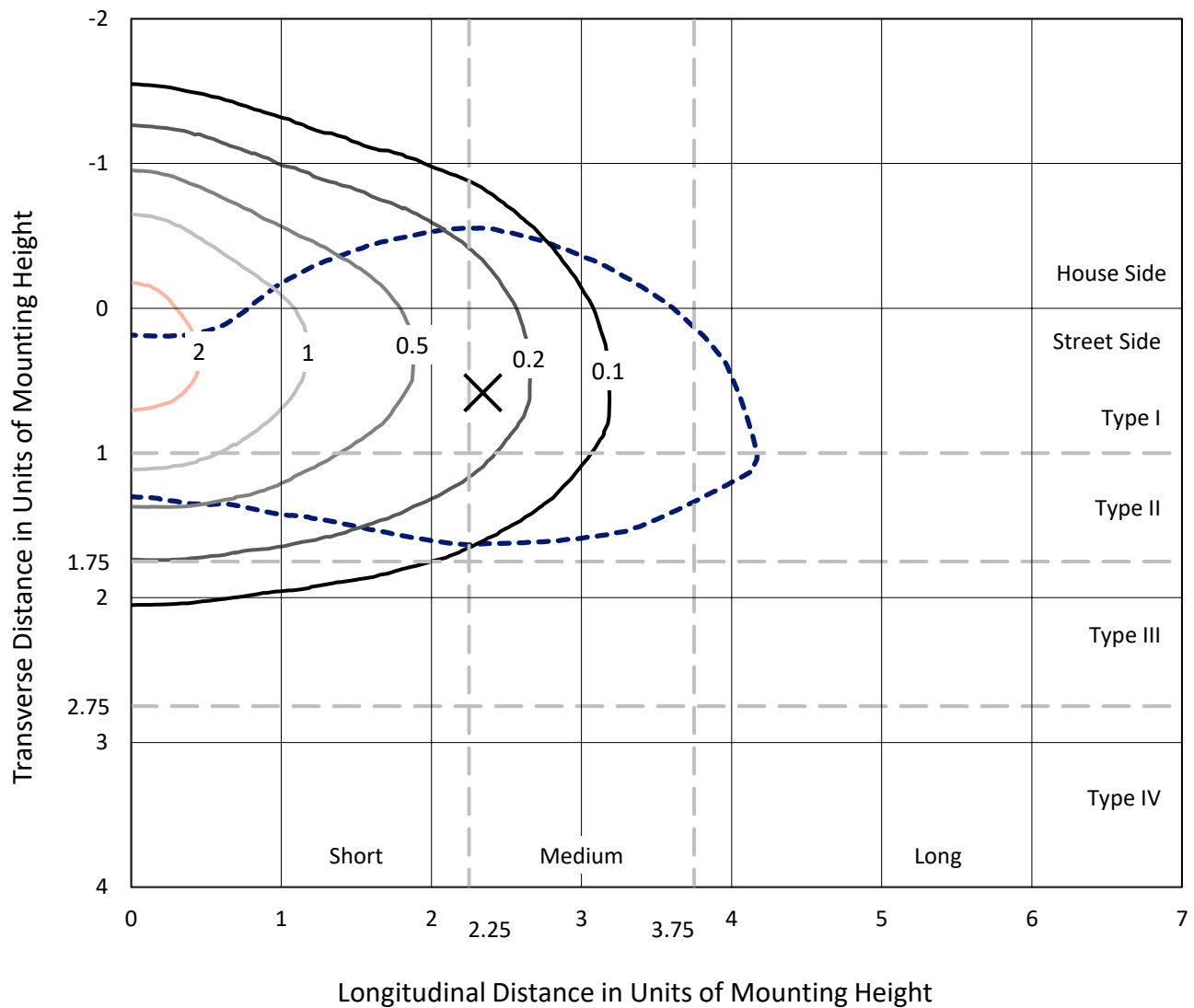


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Iso-Footcandle Lines of Horizontal Illumination

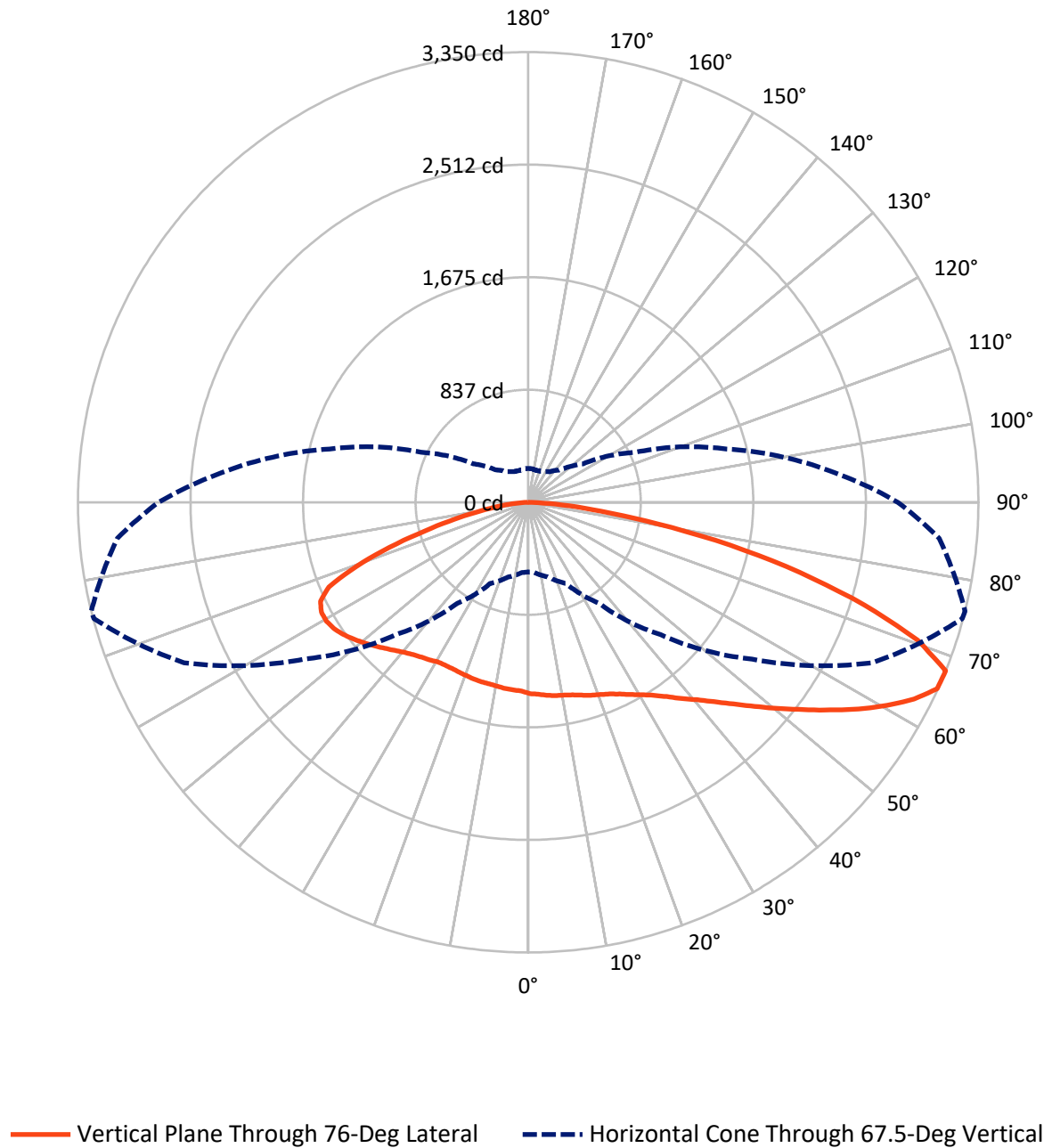
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2381.6	0.0	2381.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4666.5	0.0	4666.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	7048.0	0.0	7048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.9
10°-20°	419.7	6.0
20°-30°	713.1	10.1
30°-40°	1014.6	14.4
40°-50°	1281.4	18.2
50°-60°	1387.4	19.7
60°-70°	1290.4	18.3
70°-80°	693.1	9.8
80°-90°	111.1	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°	7048.0	100.0
0°-180°	7048.0	100.0

Coefficient of Utilization



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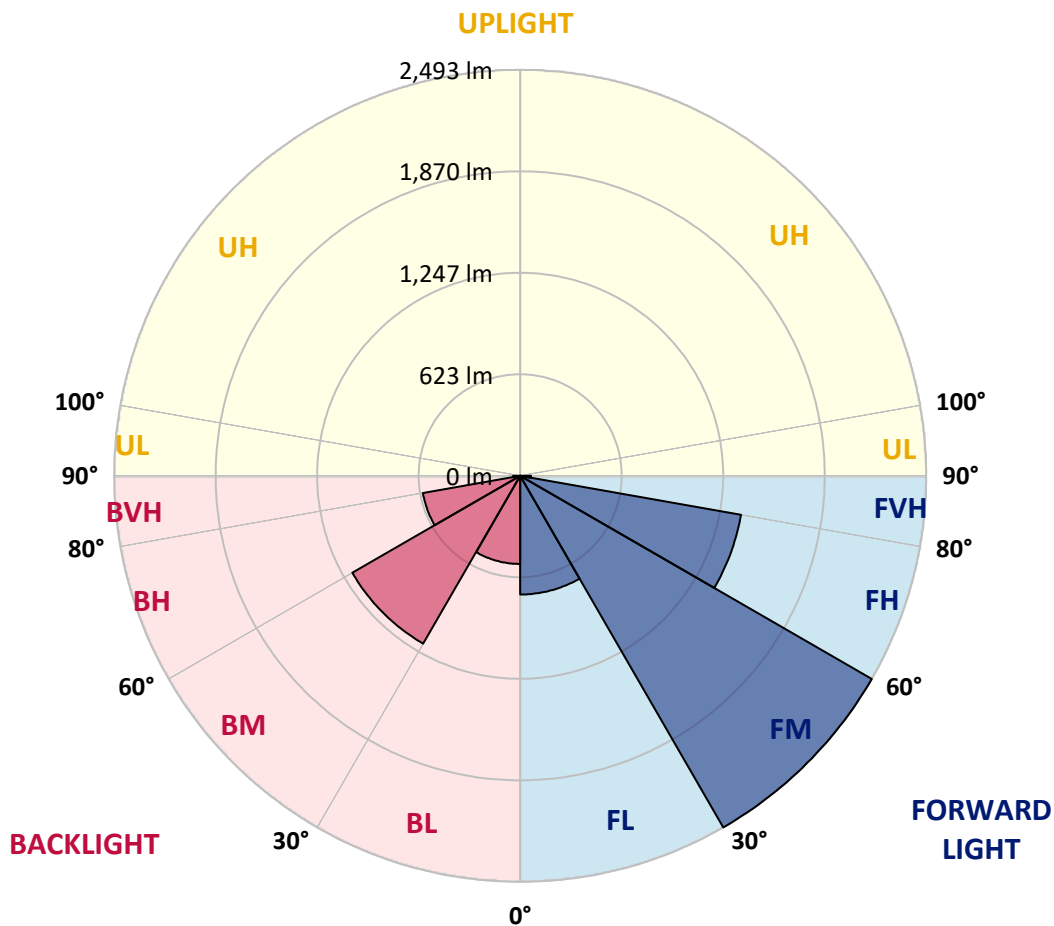
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.8	10.3			
FM	(30°-60°)	2493.3	35.4			
FH	(60°-80°)	1377.1	19.5			G1/1800
FVH	(80°-90°)	67.2	1.0			G1/100
BL	(0°-30°)	541.2	7.7	B2/1000		
BM	(30°-60°)	1190.1	16.9	B2/2500		
BH	(60°-80°)	606.4	8.6	B2/1000		G2/1000
BVH	(80°-90°)	43.9	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°	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7
2.5°	1466.9	1464.2	1453.8	1455.1	1455.1	1453.8	1438.1	1431.5	1431.5	1430.2	1415.8
5°	1519.2	1515.3	1503.5	1500.9	1495.6	1489.1	1464.2	1449.9	1443.3	1442.0	1422.4
7.5°	1580.7	1575.5	1561.1	1553.2	1540.1	1523.1	1491.7	1469.5	1453.8	1452.5	1425.0
10°	1642.2	1637.0	1620.0	1605.6	1587.2	1559.8	1519.2	1486.5	1461.6	1459.0	1426.3
12.5°	1715.5	1710.2	1689.3	1671.0	1643.5	1606.9	1553.2	1508.7	1474.7	1470.8	1430.2
15°	1792.7	1784.8	1763.9	1743.0	1708.9	1661.8	1597.7	1538.8	1495.6	1489.1	1442.0
17.5°	1856.8	1846.3	1829.3	1808.4	1770.4	1715.5	1642.2	1568.9	1515.3	1510.0	1453.8
20°	1911.8	1903.9	1885.6	1866.0	1825.4	1765.2	1684.1	1599.0	1533.6	1527.1	1462.9
22.5°	1964.1	1953.6	1943.2	1928.8	1884.3	1817.5	1732.5	1635.7	1557.2	1549.3	1474.7
25°	2024.3	2012.5	2008.6	2000.7	1948.4	1880.4	1791.4	1681.5	1589.9	1580.7	1495.6
27.5°	2098.9	2085.8	2077.9	2077.9	2015.1	1944.5	1854.2	1735.1	1627.8	1620.0	1521.8
30°	2177.4	2161.7	2149.9	2149.9	2079.3	2008.6	1915.7	1788.8	1671.0	1661.8	1555.8
32.5°	2246.7	2231.0	2218.0	2216.6	2143.4	2072.7	1979.8	1847.6	1723.3	1711.6	1597.7
35°	2300.4	2286.0	2274.2	2276.8	2207.5	2138.1	2051.8	1926.2	1788.8	1775.7	1652.7
37.5°	2333.1	2327.9	2321.3	2330.5	2266.4	2200.9	2126.4	2002.1	1863.3	1851.6	1720.7
40°	2350.1	2346.2	2372.4	2384.1	2316.1	2257.2	2200.9	2080.6	1944.5	1931.4	1799.2
42.5°	2375.0	2407.7	2418.2	2415.5	2352.7	2300.4	2269.0	2165.6	2040.0	2028.2	1893.4
45°	2286.0	2278.2	2335.7	2367.1	2355.4	2327.9	2333.1	2267.7	2151.2	2139.4	2002.1
47.5°	2166.9	2156.5	2189.2	2266.4	2312.2	2338.3	2390.7	2373.7	2279.5	2269.0	2129.0
50°	1915.7	1930.1	2051.8	2155.1	2245.4	2335.7	2439.1	2487.5	2420.8	2410.3	2265.1
52.5°	1637.0	1651.4	1778.3	2016.4	2164.3	2316.1	2474.4	2601.4	2573.9	2562.1	2410.3
55°	1434.1	1465.6	1609.5	1782.2	2049.2	2254.6	2495.4	2717.8	2738.8	2728.3	2568.6
57.5°	1232.6	1256.2	1364.8	1517.9	1892.1	2147.3	2494.1	2826.4	2911.5	2901.0	2729.6
60°	995.8	1025.9	1112.3	1277.1	1682.8	2019.1	2457.4	2911.5	3077.7	3069.8	2885.3
62.5°	833.5	842.7	904.2	1046.8	1413.2	1856.8	2375.0	2957.3	3228.1	3222.9	3025.3
65°	671.3	672.6	728.9	847.9	1152.8	1655.3	2235.0	2940.3	3342.0	3344.6	3126.1
67.5°	518.2	524.7	575.8	666.0	916.0	1393.6	2034.8	2825.1	3343.3	3349.8	3068.5
70°	358.5	363.8	441.0	528.6	707.9	1110.9	1763.9	2520.2	3068.5	3073.7	2750.5
72.5°	252.5	255.2	337.6	422.7	553.5	837.5	1330.8	2084.5	2615.8	2619.7	2313.5
75°	188.4	191.0	238.2	320.6	424.0	579.7	909.4	1596.4	2089.7	2089.7	1826.7
77.5°	133.5	134.8	154.4	221.1	282.6	391.3	547.0	1045.5	1533.6	1536.2	1330.8
80°	90.3	91.6	100.8	149.2	176.7	212.0	297.0	548.3	967.0	970.9	845.3
82.5°	47.1	49.7	56.3	75.9	89.0	117.8	153.1	278.7	535.2	545.7	507.7
85°	18.3	18.3	20.9	24.9	32.7	45.8	70.7	106.0	242.1	249.9	223.8
87.5°	6.5	6.5	7.9	7.9	9.2	10.5	11.8	15.7	27.5	27.5	26.2
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°	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7
2.5°	1410.6	1410.6	1404.1	1406.7	1405.4	1402.7	1400.1	1404.1	1400.1	1391.0	1389.7
5°	1413.2	1410.6	1400.1	1398.8	1394.9	1389.7	1383.1	1385.7	1379.2	1371.3	1370.0
7.5°	1414.5	1409.3	1394.9	1389.7	1381.8	1371.3	1360.9	1360.9	1351.7	1343.9	1342.6
10°	1411.9	1405.4	1385.7	1375.3	1360.9	1345.2	1330.8	1326.8	1316.4	1307.2	1307.2
12.5°	1413.2	1404.1	1379.2	1362.2	1342.6	1322.9	1304.6	1299.4	1290.2	1281.1	1279.7
15°	1421.1	1408.0	1376.6	1354.3	1325.5	1303.3	1283.7	1279.7	1271.9	1265.3	1265.3
17.5°	1428.9	1411.9	1372.6	1341.2	1305.9	1281.1	1262.7	1262.7	1257.5	1253.6	1253.6
20°	1432.8	1413.2	1364.8	1322.9	1282.4	1256.2	1239.2	1241.8	1240.5	1239.2	1239.2
22.5°	1442.0	1415.8	1358.3	1305.9	1257.5	1230.0	1214.3	1218.2	1216.9	1216.9	1218.2
25°	1456.4	1422.4	1353.0	1290.2	1233.9	1203.8	1186.8	1189.5	1189.5	1189.5	1189.5
27.5°	1476.0	1435.5	1351.7	1275.8	1210.4	1176.4	1155.4	1155.4	1150.2	1151.5	1152.8
30°	1506.1	1460.3	1354.3	1262.7	1185.5	1142.3	1117.5	1113.6	1112.3	1114.9	1116.2
32.5°	1542.8	1494.3	1370.0	1253.6	1159.4	1104.4	1073.0	1071.7	1067.8	1067.8	1067.8
35°	1588.6	1527.1	1384.4	1252.3	1133.2	1063.8	1029.8	1025.9	1016.7	1012.8	1012.8
37.5°	1647.4	1578.1	1401.4	1243.1	1110.9	1024.6	984.0	970.9	960.5	959.2	959.2
40°	1719.4	1635.7	1426.3	1232.6	1087.4	984.0	930.4	908.1	909.4	914.7	914.7
42.5°	1804.5	1706.3	1457.7	1227.4	1053.4	942.1	867.6	841.4	850.5	855.8	857.1
45°	1903.9	1790.1	1493.0	1220.9	1022.0	895.0	800.8	768.1	772.0	773.3	774.6
47.5°	2019.1	1883.0	1529.7	1215.6	986.6	836.2	727.5	684.4	683.1	675.2	677.8
50°	2139.4	1981.1	1567.6	1206.5	943.4	766.8	650.3	599.3	588.8	577.1	578.4
52.5°	2267.7	2081.9	1602.9	1192.1	889.8	696.1	577.1	522.1	501.2	488.1	490.7
55°	2409.0	2185.2	1637.0	1169.8	833.5	625.5	511.6	455.4	429.2	418.7	420.0
57.5°	2538.5	2284.7	1661.8	1142.3	772.0	561.4	454.1	399.1	382.1	380.8	382.1
60°	2664.2	2368.4	1672.3	1104.4	709.2	502.5	400.4	358.5	346.8	353.3	354.6
62.5°	2770.2	2422.1	1667.1	1053.4	645.1	446.2	357.2	327.1	319.3	332.4	333.7
65°	2831.7	2439.1	1630.4	980.1	575.8	391.3	316.7	284.0	280.0	287.9	291.8
67.5°	2750.5	2333.1	1531.0	879.3	498.5	340.2	277.4	251.2	244.7	251.2	251.2
70°	2437.8	2021.7	1295.4	719.7	413.5	290.5	240.8	222.5	217.2	222.5	221.1
72.5°	2030.8	1681.5	1020.7	561.4	325.8	244.7	209.4	192.4	187.1	181.9	179.3
75°	1575.5	1277.1	740.6	412.2	246.0	196.3	175.3	159.6	146.6	151.8	149.2
77.5°	1154.1	896.3	524.7	285.3	176.7	151.8	137.4	125.6	116.5	126.9	125.6
80°	743.2	579.7	350.7	191.0	121.7	106.0	100.8	94.2	103.4	134.8	137.4
82.5°	454.1	367.7	209.4	124.3	79.8	70.7	65.4	65.4	106.0	116.5	117.8
85°	202.8	195.0	113.8	64.1	44.5	40.6	36.6	47.1	43.2	31.4	32.7
87.5°	32.7	34.0	24.9	22.2	17.0	17.0	13.1	9.2	6.5	3.9	3.9
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)