

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: P799685

Luminaire Tested: **ARCH2-40-750-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799685
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: ARCH2-40-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6785 lumens
Efficiency: N/A
Efficacy: 153.9 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): 44.1
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

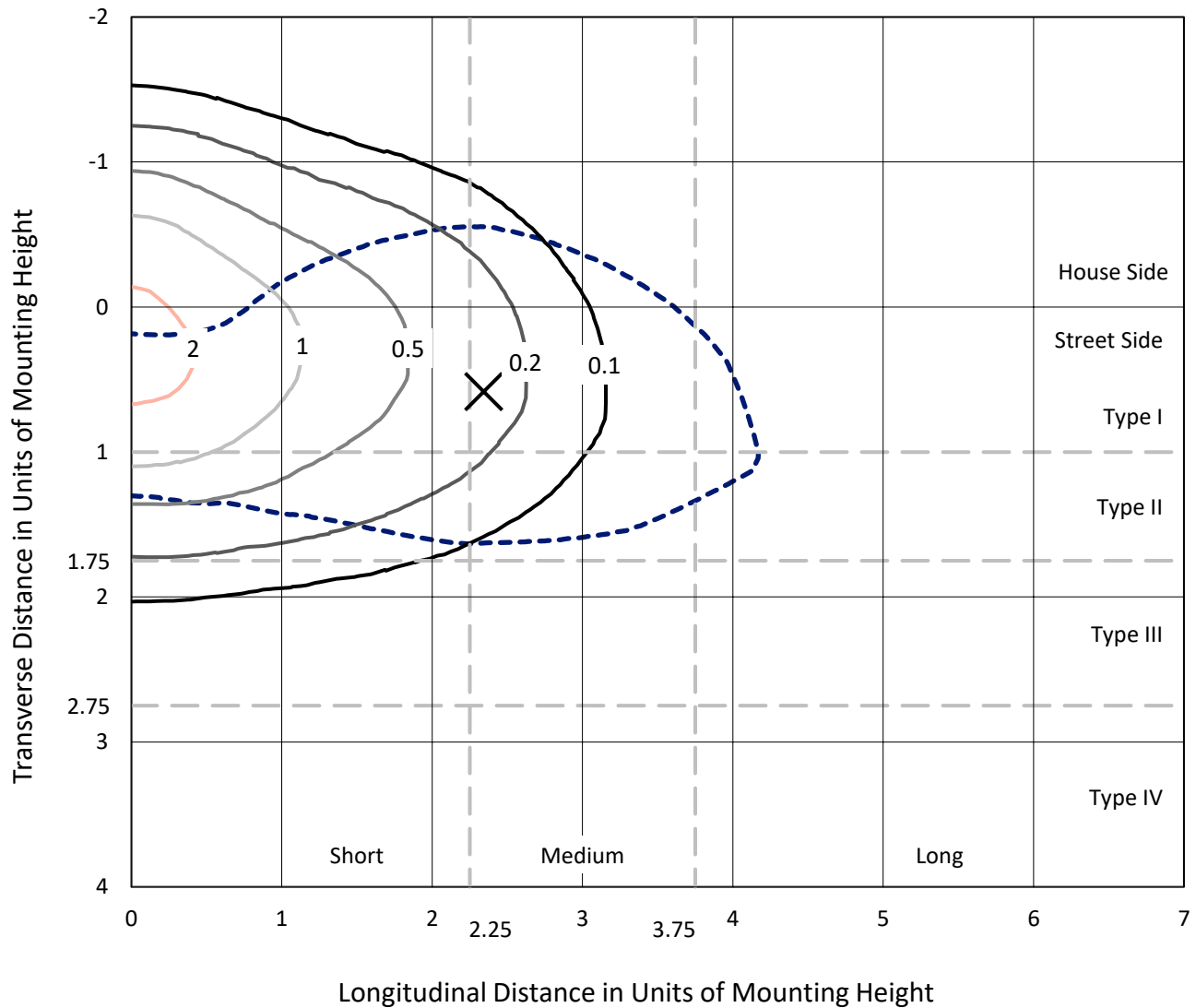


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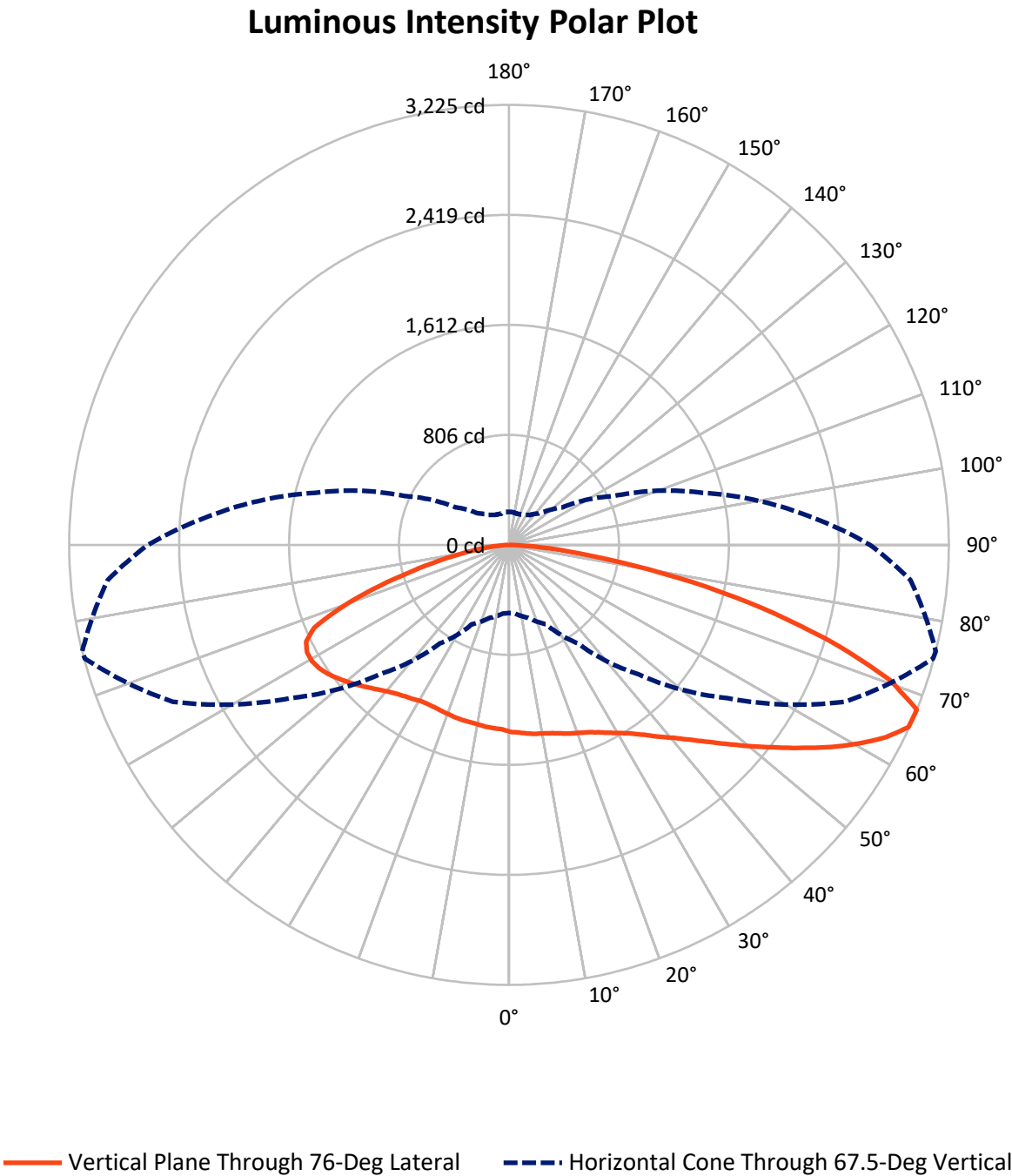
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.7	0.0	2292.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4492.3	0.0	4492.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	6785.0	0.0	6785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	1.9
10°-20°	404.0	6.0
20°-30°	686.5	10.1
30°-40°	976.8	14.4
40°-50°	1233.6	18.2
50°-60°	1335.6	19.7
60°-70°	1242.3	18.3
70°-80°	667.2	9.8
80°-90°	106.9	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°	6785.0	100.0
0°-180°	6785.0	100.0

Coefficient of Utilization



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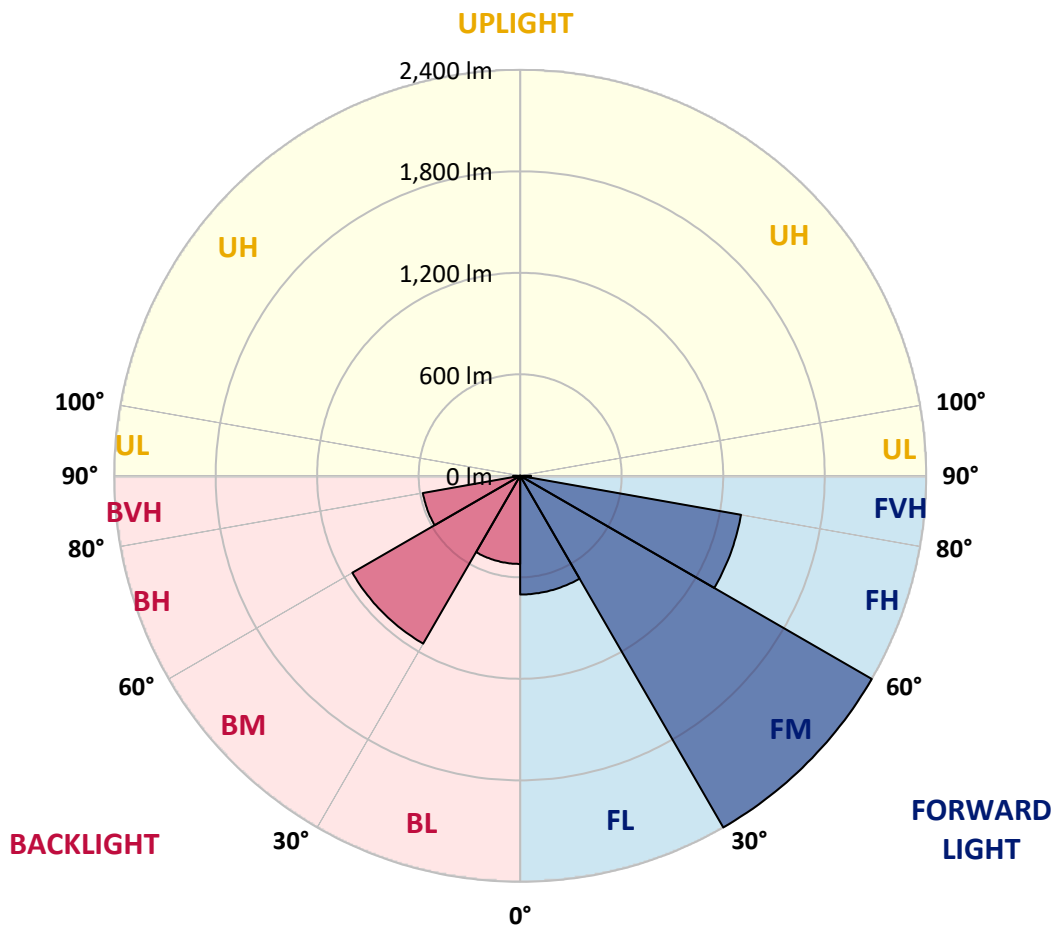
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.6	10.3			
FM	(30°-60°)	2400.3	35.4			
FH	(60°-80°)	1325.7	19.5			G1/1800
FVH	(80°-90°)	64.7	1.0			G1/100
BL	(0°-30°)	521.0	7.7	B2/1000		
BM	(30°-60°)	1145.7	16.9	B2/2500		
BH	(60°-80°)	583.7	8.6	B2/1000		G2/1000
BVH	(80°-90°)	42.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6
2.5°	1412.1	1409.6	1399.5	1400.8	1400.8	1399.5	1384.4	1378.1	1378.1	1376.9	1363.0
5°	1462.5	1458.7	1447.4	1444.9	1439.8	1433.5	1409.6	1395.7	1389.5	1388.2	1369.3
7.5°	1521.7	1516.7	1502.8	1495.3	1482.7	1466.3	1436.1	1414.6	1399.5	1398.3	1371.8
10°	1580.9	1575.9	1559.5	1545.7	1528.0	1501.6	1462.5	1431.0	1407.1	1404.6	1373.1
12.5°	1651.5	1646.4	1626.3	1608.6	1582.2	1546.9	1495.3	1452.4	1419.7	1415.9	1376.9
15°	1725.8	1718.2	1698.1	1677.9	1645.2	1599.8	1538.1	1481.4	1439.8	1433.5	1388.2
17.5°	1787.5	1777.4	1761.1	1740.9	1704.4	1651.5	1580.9	1510.4	1458.7	1453.7	1399.5
20°	1840.4	1832.9	1815.2	1796.3	1757.3	1699.3	1621.2	1539.4	1476.4	1470.1	1408.3
22.5°	1890.8	1880.7	1870.7	1856.8	1814.0	1749.7	1667.8	1574.6	1499.0	1491.5	1419.7
25°	1948.8	1937.4	1933.6	1926.1	1875.7	1810.2	1724.5	1618.7	1530.5	1521.7	1439.8
27.5°	2020.6	2008.0	2000.4	2000.4	1939.9	1871.9	1785.0	1670.4	1567.1	1559.5	1465.0
30°	2096.1	2081.0	2069.7	2069.7	2001.7	1933.6	1844.2	1722.0	1608.6	1599.8	1497.8
32.5°	2162.9	2147.8	2135.2	2133.9	2063.4	1995.4	1905.9	1778.7	1659.0	1647.7	1538.1
35°	2214.6	2200.7	2189.4	2191.9	2125.1	2058.4	1975.2	1854.3	1722.0	1709.4	1591.0
37.5°	2246.0	2241.0	2234.7	2243.5	2181.8	2118.8	2047.0	1927.3	1793.8	1782.5	1656.5
40°	2262.4	2258.6	2283.8	2295.2	2229.7	2173.0	2118.8	2002.9	1871.9	1859.3	1732.1
42.5°	2286.4	2317.9	2327.9	2325.4	2264.9	2214.6	2184.3	2084.8	1963.9	1952.5	1822.8
45°	2200.7	2193.1	2248.6	2278.8	2267.5	2241.0	2246.0	2183.1	2070.9	2059.6	1927.3
47.5°	2086.1	2076.0	2107.5	2181.8	2225.9	2251.1	2301.5	2285.1	2194.4	2184.3	2049.5
50°	1844.2	1858.1	1975.2	2074.7	2161.6	2248.6	2348.1	2394.7	2330.4	2320.4	2180.5
52.5°	1575.9	1589.7	1711.9	1941.2	2083.5	2229.7	2382.1	2504.3	2477.8	2466.5	2320.4
55°	1380.6	1410.9	1549.4	1715.7	1972.7	2170.5	2402.3	2616.4	2636.6	2626.5	2472.8
57.5°	1186.6	1209.3	1313.9	1461.3	1821.5	2067.2	2401.0	2721.0	2802.8	2792.8	2627.7
60°	958.6	987.6	1070.7	1229.5	1620.0	1943.7	2365.7	2802.8	2962.8	2955.3	2777.6
62.5°	802.4	811.2	870.5	1007.8	1360.5	1787.5	2286.4	2846.9	3107.7	3102.6	2912.4
65°	646.2	647.5	701.7	816.3	1109.8	1593.5	2151.6	2830.5	3217.3	3219.8	3009.4
67.5°	498.8	505.1	554.3	641.2	881.8	1341.6	1958.8	2719.7	3218.5	3224.8	2954.0
70°	345.2	350.2	424.5	508.9	681.5	1069.5	1698.1	2426.2	2954.0	2959.0	2647.9
72.5°	243.1	245.6	325.0	406.9	532.9	806.2	1281.1	2006.7	2518.1	2521.9	2227.2
75°	181.4	183.9	229.3	308.6	408.1	558.0	875.5	1536.8	2011.7	2011.7	1758.5
77.5°	128.5	129.7	148.6	212.9	272.1	376.7	526.6	1006.5	1476.4	1478.9	1281.1
80°	86.9	88.2	97.0	143.6	170.1	204.1	286.0	527.8	930.9	934.7	813.8
82.5°	45.3	47.9	54.2	73.1	85.7	113.4	147.4	268.3	515.2	525.3	488.8
85°	17.6	17.6	20.2	23.9	31.5	44.1	68.0	102.0	233.0	240.6	215.4
87.5°	6.3	6.3	7.6	7.6	8.8	10.1	11.3	15.1	26.5	26.5	25.2
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°	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6
2.5°	1358.0	1358.0	1351.7	1354.2	1352.9	1350.4	1347.9	1351.7	1347.9	1339.1	1337.8
5°	1360.5	1358.0	1347.9	1346.6	1342.8	1337.8	1331.5	1334.0	1327.7	1320.2	1318.9
7.5°	1361.7	1356.7	1342.8	1337.8	1330.2	1320.2	1310.1	1310.1	1301.3	1293.7	1292.5
10°	1359.2	1352.9	1334.0	1323.9	1310.1	1295.0	1281.1	1277.3	1267.3	1258.4	1258.4
12.5°	1360.5	1351.7	1327.7	1311.3	1292.5	1273.6	1255.9	1250.9	1242.1	1233.2	1232.0
15°	1368.0	1355.4	1325.2	1303.8	1276.1	1254.7	1235.8	1232.0	1224.4	1218.1	1218.1
17.5°	1375.6	1359.2	1321.4	1291.2	1257.2	1233.2	1215.6	1215.6	1210.6	1206.8	1206.8
20°	1379.4	1360.5	1313.9	1273.6	1234.5	1209.3	1192.9	1195.5	1194.2	1192.9	1192.9
22.5°	1388.2	1363.0	1307.6	1257.2	1210.6	1184.1	1169.0	1172.8	1171.5	1171.5	1172.8
25°	1402.0	1369.3	1302.5	1242.1	1187.9	1158.9	1142.5	1145.1	1145.1	1145.1	1145.1
27.5°	1420.9	1381.9	1301.3	1228.2	1165.2	1132.5	1112.3	1112.3	1107.3	1108.5	1109.8
30°	1449.9	1405.8	1303.8	1215.6	1141.3	1099.7	1075.8	1072.0	1070.7	1073.3	1074.5
32.5°	1485.2	1438.6	1318.9	1206.8	1116.1	1063.2	1033.0	1031.7	1027.9	1027.9	1027.9
35°	1529.3	1470.1	1332.8	1205.5	1090.9	1024.1	991.4	987.6	978.8	975.0	975.0
37.5°	1586.0	1519.2	1349.1	1196.7	1069.5	986.3	947.3	934.7	924.6	923.4	923.4
40°	1655.2	1574.6	1373.1	1186.6	1046.8	947.3	895.6	874.2	875.5	880.5	880.5
42.5°	1737.1	1642.7	1403.3	1181.6	1014.1	907.0	835.2	810.0	818.8	823.8	825.1
45°	1832.9	1723.3	1437.3	1175.3	983.8	861.6	770.9	739.4	743.2	744.5	745.7
47.5°	1943.7	1812.7	1472.6	1170.3	949.8	804.9	700.4	658.8	657.6	650.0	652.5
50°	2059.6	1907.2	1509.1	1161.4	908.2	738.2	626.1	576.9	566.9	555.5	556.8
52.5°	2183.1	2004.2	1543.1	1147.6	856.6	670.2	555.5	502.6	482.5	469.9	472.4
55°	2319.1	2103.7	1575.9	1126.2	802.4	602.1	492.5	438.4	413.2	403.1	404.4
57.5°	2443.8	2199.4	1599.8	1099.7	743.2	540.4	437.1	384.2	367.8	366.6	367.8
60°	2564.8	2280.1	1609.9	1063.2	682.8	483.7	385.5	345.2	333.8	340.1	341.4
62.5°	2666.8	2331.7	1604.9	1014.1	621.0	429.6	343.9	314.9	307.4	320.0	321.2
65°	2726.0	2348.1	1569.6	943.5	554.3	376.7	304.8	273.4	269.6	277.1	280.9
67.5°	2647.9	2246.0	1473.9	846.5	479.9	327.5	267.1	241.9	235.6	241.9	241.9
70°	2346.8	1946.2	1247.1	692.8	398.1	279.7	231.8	214.1	209.1	214.1	212.9
72.5°	1955.1	1618.7	982.6	540.4	313.7	235.6	201.6	185.2	180.1	175.1	172.6
75°	1516.7	1229.5	713.0	396.8	236.8	189.0	168.8	153.7	141.1	146.1	143.6
77.5°	1111.1	862.9	505.1	274.6	170.1	146.1	132.3	120.9	112.1	122.2	120.9
80°	715.5	558.0	337.6	183.9	117.2	102.0	97.0	90.7	99.5	129.7	132.3
82.5°	437.1	354.0	201.6	119.7	76.8	68.0	63.0	63.0	102.0	112.1	113.4
85°	195.3	187.7	109.6	61.7	42.8	39.1	35.3	45.3	41.6	30.2	31.5
87.5°	31.5	32.8	23.9	21.4	16.4	16.4	12.6	8.8	6.3	3.8	3.8
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)