

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: P798901

Luminaire Tested: **ARCH1-40-740-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798901
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: ARCH1-40-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5868 lumens
Efficiency: N/A
Efficacy: 136.5 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): 43
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



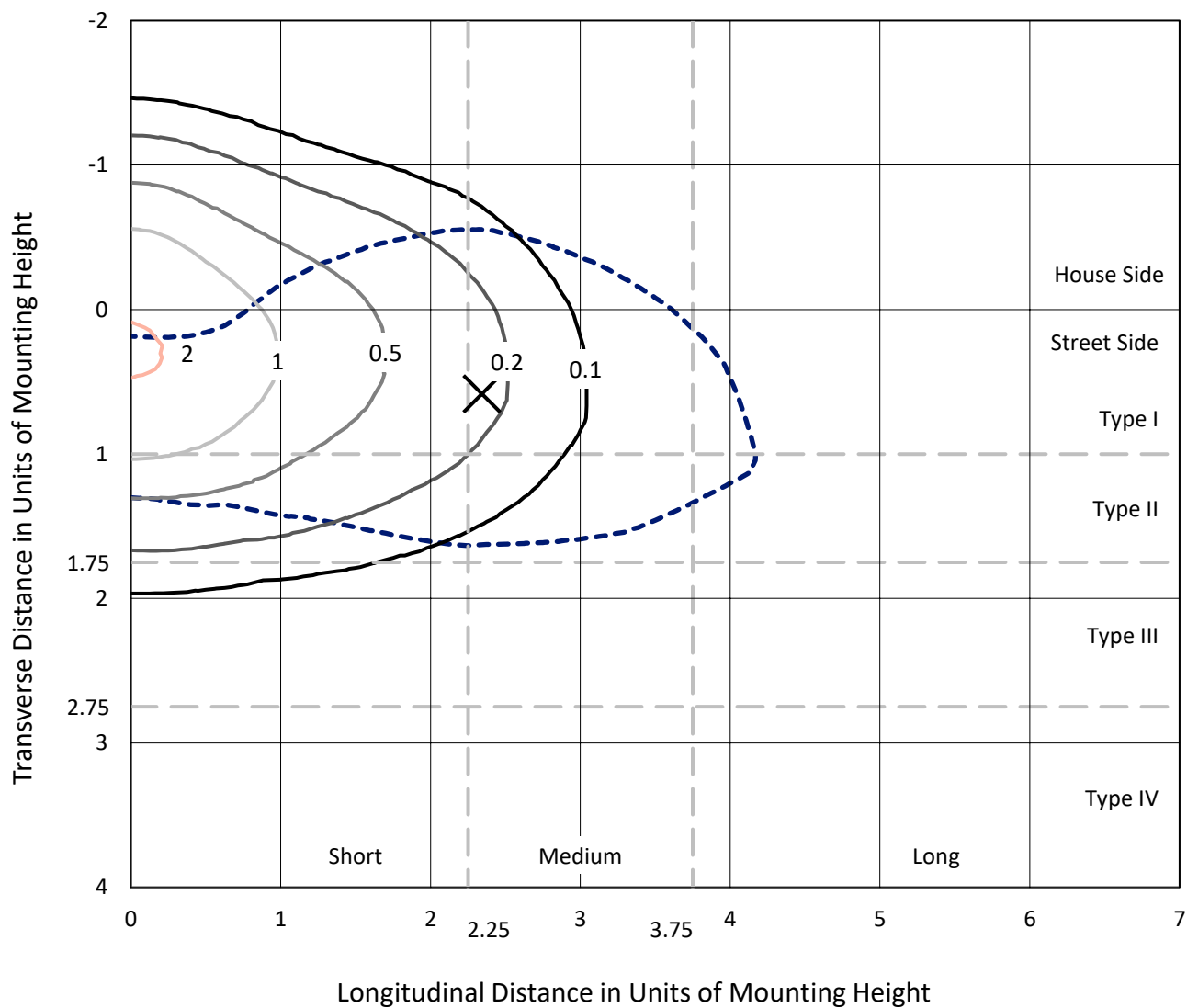
REPORT NUMBER: P798901

CATALOG NUMBER: ARCH1-40-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

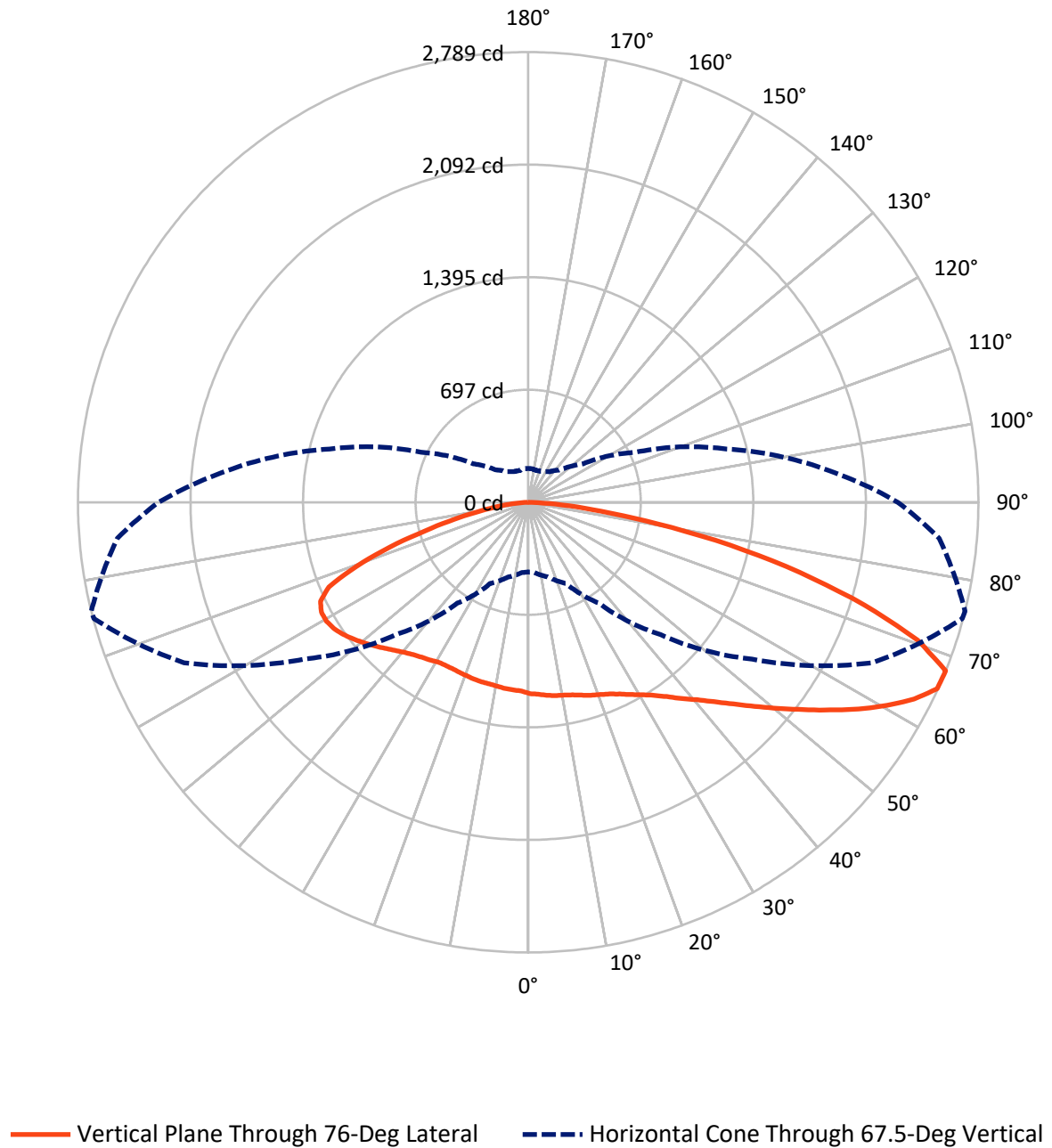


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Medium - N/A

REPORT NUMBER: P798901

CATALOG NUMBER: ARCH1-40-740-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P798901

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1982.8	0.0	1982.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	3885.2	0.0	3885.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	5868.0	0.0	5868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	1.9
10°-20°	349.4	6.0
20°-30°	593.7	10.1
30°-40°	844.7	14.4
40°-50°	1066.9	18.2
50°-60°	1155.1	19.7
60°-70°	1074.4	18.3
70°-80°	577.0	9.8
80°-90°	92.5	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°	5868.0	100.0
0°-180°	5868.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798901

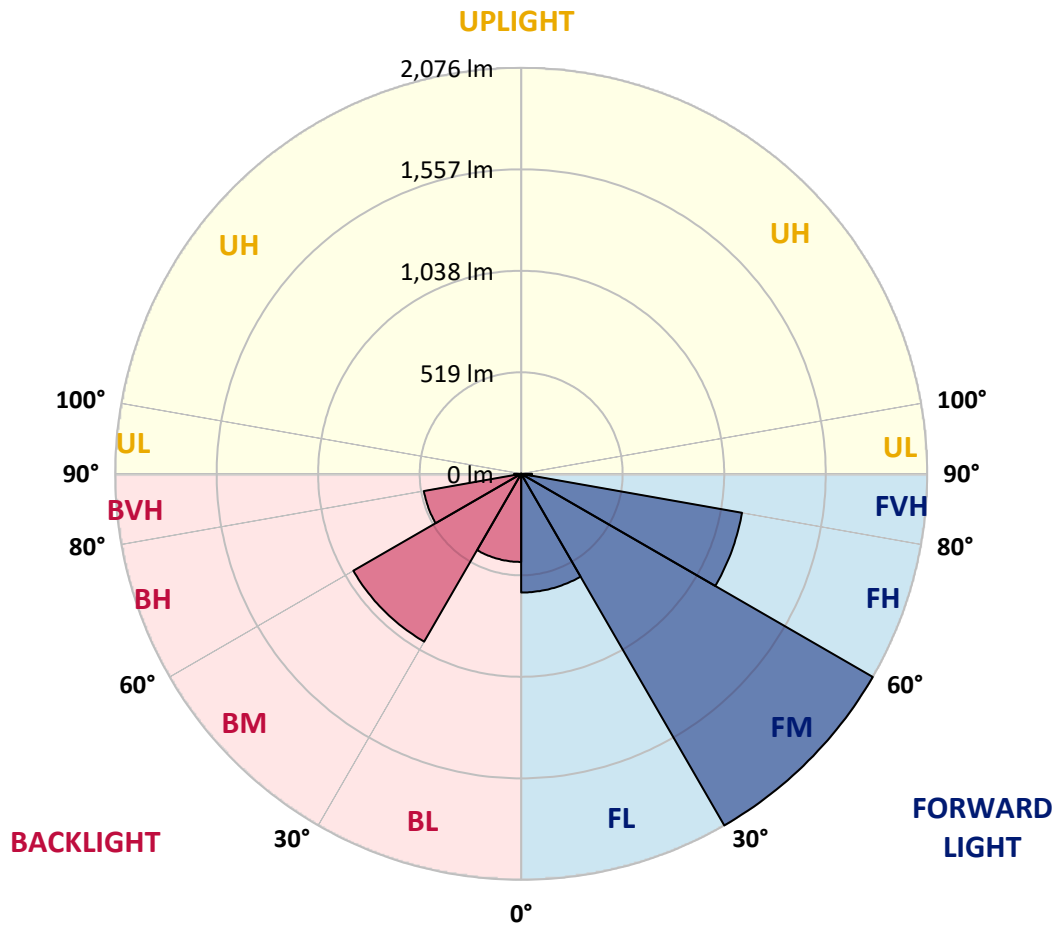
CATALOG NUMBER: ARCH1-40-740-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.8	10.3			
FM	(30°-60°)	2075.9	35.4			
FH	(60°-80°)	1146.6	19.5			G1/1800
FVH	(80°-90°)	55.9	1.0			G1/100
BL	(0°-30°)	450.6	7.7	B1/500		
BM	(30°-60°)	990.8	16.9	B1/1000		
BH	(60°-80°)	504.8	8.6	B2/1000		G2/1000
BVH	(80°-90°)	36.5	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: P798901

CATALOG NUMBER: ARCH1-40-740-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1221.3	1219.1	1210.4	1211.5	1211.5	1210.4	1197.3	1191.9	1191.9	1190.8	1178.8
5°	1264.9	1261.6	1251.8	1249.6	1245.2	1239.8	1219.1	1207.1	1201.7	1200.6	1184.2
7.5°	1316.1	1311.7	1299.7	1293.2	1282.3	1268.1	1242.0	1223.5	1210.4	1209.3	1186.4
10°	1367.3	1362.9	1348.7	1336.8	1321.5	1298.6	1264.9	1237.6	1216.9	1214.7	1187.5
12.5°	1428.3	1423.9	1406.5	1391.2	1368.4	1337.8	1293.2	1256.1	1227.8	1224.5	1190.8
15°	1492.5	1486.0	1468.6	1451.1	1422.8	1383.6	1330.2	1281.2	1245.2	1239.8	1200.6
17.5°	1545.9	1537.2	1523.1	1505.6	1474.0	1428.3	1367.3	1306.3	1261.6	1257.2	1210.4
20°	1591.7	1585.2	1569.9	1553.6	1519.8	1469.7	1402.1	1331.3	1276.8	1271.4	1218.0
22.5°	1635.3	1626.6	1617.8	1605.9	1568.8	1513.2	1442.4	1361.8	1296.4	1289.9	1227.8
25°	1685.4	1675.6	1672.3	1665.8	1622.2	1565.5	1491.5	1399.9	1323.7	1316.1	1245.2
27.5°	1747.5	1736.6	1730.0	1730.0	1677.8	1618.9	1543.8	1444.6	1355.3	1348.7	1267.0
30°	1812.8	1799.8	1790.0	1790.0	1731.1	1672.3	1595.0	1489.3	1391.2	1383.6	1295.4
32.5°	1870.6	1857.5	1846.6	1845.5	1784.5	1725.7	1648.3	1538.3	1434.8	1425.0	1330.2
35°	1915.3	1903.3	1893.5	1895.6	1837.9	1780.2	1708.3	1603.7	1489.3	1478.4	1376.0
37.5°	1942.5	1938.1	1932.7	1940.3	1886.9	1832.5	1770.4	1666.9	1551.4	1541.6	1432.6
40°	1956.7	1953.4	1975.2	1985.0	1928.3	1879.3	1832.5	1732.2	1618.9	1608.0	1498.0
42.5°	1977.4	2004.6	2013.3	2011.1	1958.8	1915.3	1889.1	1803.0	1698.5	1688.6	1576.4
45°	1903.3	1896.7	1944.7	1970.8	1961.0	1938.1	1942.5	1888.0	1791.1	1781.3	1666.9
47.5°	1804.1	1795.4	1822.7	1886.9	1925.1	1946.8	1990.4	1976.3	1897.8	1889.1	1772.5
50°	1595.0	1606.9	1708.3	1794.3	1869.5	1944.7	2030.7	2071.0	2015.5	2006.8	1885.8
52.5°	1362.9	1374.9	1480.6	1678.8	1802.0	1928.3	2060.2	2165.8	2143.0	2133.1	2006.8
55°	1194.0	1220.2	1340.0	1483.8	1706.1	1877.1	2077.6	2262.8	2280.2	2271.5	2138.6
57.5°	1026.3	1045.9	1136.3	1263.8	1575.3	1787.8	2076.5	2353.2	2424.0	2415.3	2272.6
60°	829.1	854.1	926.0	1063.3	1401.0	1681.0	2046.0	2424.0	2562.4	2555.9	2402.2
62.5°	694.0	701.6	752.8	871.6	1176.6	1545.9	1977.4	2462.2	2687.7	2683.3	2518.8
65°	558.9	560.0	606.8	706.0	959.8	1378.2	1860.8	2448.0	2782.5	2784.6	2602.7
67.5°	431.4	436.9	479.4	554.5	762.6	1160.3	1694.1	2352.1	2783.5	2789.0	2554.8
70°	298.5	302.9	367.1	440.1	589.4	924.9	1468.6	2098.3	2554.8	2559.1	2290.0
72.5°	210.3	212.4	281.1	351.9	460.8	697.2	1108.0	1735.5	2177.8	2181.1	1926.1
75°	156.9	159.1	198.3	266.9	353.0	482.6	757.2	1329.1	1739.9	1739.9	1520.9
77.5°	111.1	112.2	128.6	184.1	235.3	325.7	455.4	870.5	1276.8	1279.0	1108.0
80°	75.2	76.3	83.9	124.2	147.1	176.5	247.3	456.5	805.1	808.4	703.8
82.5°	39.2	41.4	46.8	63.2	74.1	98.1	127.5	232.1	445.6	454.3	422.7
85°	15.3	15.3	17.4	20.7	27.2	38.1	58.8	88.2	201.5	208.1	186.3
87.5°	5.4	5.4	6.5	6.5	7.6	8.7	9.8	13.1	22.9	22.9	21.8
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: P798901

CATALOG NUMBER: ARCH1-40-740-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1174.4	1174.4	1169.0	1171.2	1170.1	1167.9	1165.7	1169.0	1165.7	1158.1	1157.0
5°	1176.6	1174.4	1165.7	1164.6	1161.4	1157.0	1151.6	1153.7	1148.3	1141.7	1140.7
7.5°	1177.7	1173.3	1161.4	1157.0	1150.5	1141.7	1133.0	1133.0	1125.4	1118.9	1117.8
10°	1175.5	1170.1	1153.7	1145.0	1133.0	1120.0	1108.0	1104.7	1096.0	1088.4	1088.4
12.5°	1176.6	1169.0	1148.3	1134.1	1117.8	1101.4	1086.2	1081.8	1074.2	1066.6	1065.5
15°	1183.1	1172.2	1146.1	1127.6	1103.6	1085.1	1068.8	1065.5	1058.9	1053.5	1053.5
17.5°	1189.7	1175.5	1142.8	1116.7	1087.3	1066.6	1051.3	1051.3	1047.0	1043.7	1043.7
20°	1192.9	1176.6	1136.3	1101.4	1067.7	1045.9	1031.7	1033.9	1032.8	1031.7	1031.7
22.5°	1200.6	1178.8	1130.9	1087.3	1047.0	1024.1	1011.0	1014.3	1013.2	1013.2	1014.3
25°	1212.6	1184.2	1126.5	1074.2	1027.4	1002.3	988.1	990.3	990.3	990.3	990.3
27.5°	1228.9	1195.1	1125.4	1062.2	1007.7	979.4	962.0	962.0	957.6	958.7	959.8
30°	1254.0	1215.8	1127.6	1051.3	987.0	951.1	930.4	927.1	926.0	928.2	929.3
32.5°	1284.5	1244.2	1140.7	1043.7	965.3	919.5	893.4	892.3	889.0	889.0	889.0
35°	1322.6	1271.4	1152.6	1042.6	943.5	885.7	857.4	854.1	846.5	843.2	843.2
37.5°	1371.6	1313.9	1166.8	1035.0	924.9	853.0	819.3	808.4	799.7	798.6	798.6
40°	1431.5	1361.8	1187.5	1026.3	905.3	819.3	774.6	756.1	757.2	761.5	761.5
42.5°	1502.4	1420.6	1213.6	1021.9	877.0	784.4	722.3	700.5	708.1	712.5	713.6
45°	1585.2	1490.4	1243.1	1016.5	850.9	745.2	666.7	639.5	642.8	643.9	645.0
47.5°	1681.0	1567.7	1273.6	1012.1	821.4	696.2	605.7	569.8	568.7	562.2	564.3
50°	1781.3	1649.4	1305.2	1004.5	785.5	638.4	541.5	499.0	490.3	480.4	481.5
52.5°	1888.0	1733.3	1334.6	992.5	740.8	579.6	480.4	434.7	417.3	406.4	408.5
55°	2005.7	1819.4	1362.9	974.0	694.0	520.8	426.0	379.1	357.3	348.6	349.7
57.5°	2113.5	1902.2	1383.6	951.1	642.8	467.4	378.0	332.3	318.1	317.0	318.1
60°	2218.1	1971.9	1392.3	919.5	590.5	418.3	333.4	298.5	288.7	294.2	295.2
62.5°	2306.4	2016.6	1388.0	877.0	537.1	371.5	297.4	272.4	265.8	276.7	277.8
65°	2357.6	2030.7	1357.5	816.0	479.4	325.7	263.6	236.4	233.1	239.7	242.9
67.5°	2290.0	1942.5	1274.7	732.1	415.1	283.3	231.0	209.2	203.7	209.2	209.2
70°	2029.6	1683.2	1078.6	599.2	344.3	241.9	200.5	185.2	180.8	185.2	184.1
72.5°	1690.8	1399.9	849.8	467.4	271.3	203.7	174.3	160.1	155.8	151.4	149.3
75°	1311.7	1063.3	616.6	343.2	204.8	163.4	146.0	132.9	122.0	126.4	124.2
77.5°	960.9	746.3	436.9	237.5	147.1	126.4	114.4	104.6	97.0	105.7	104.6
80°	618.8	482.6	292.0	159.1	101.3	88.2	83.9	78.4	86.1	112.2	114.4
82.5°	378.0	306.1	174.3	103.5	66.5	58.8	54.5	54.5	88.2	97.0	98.1
85°	168.9	162.3	94.8	53.4	37.0	33.8	30.5	39.2	36.0	26.1	27.2
87.5°	27.2	28.3	20.7	18.5	14.2	14.2	10.9	7.6	5.4	3.3	3.3
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)