

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: P799769

Luminaire Tested: **ARCH2-50-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7425 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
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

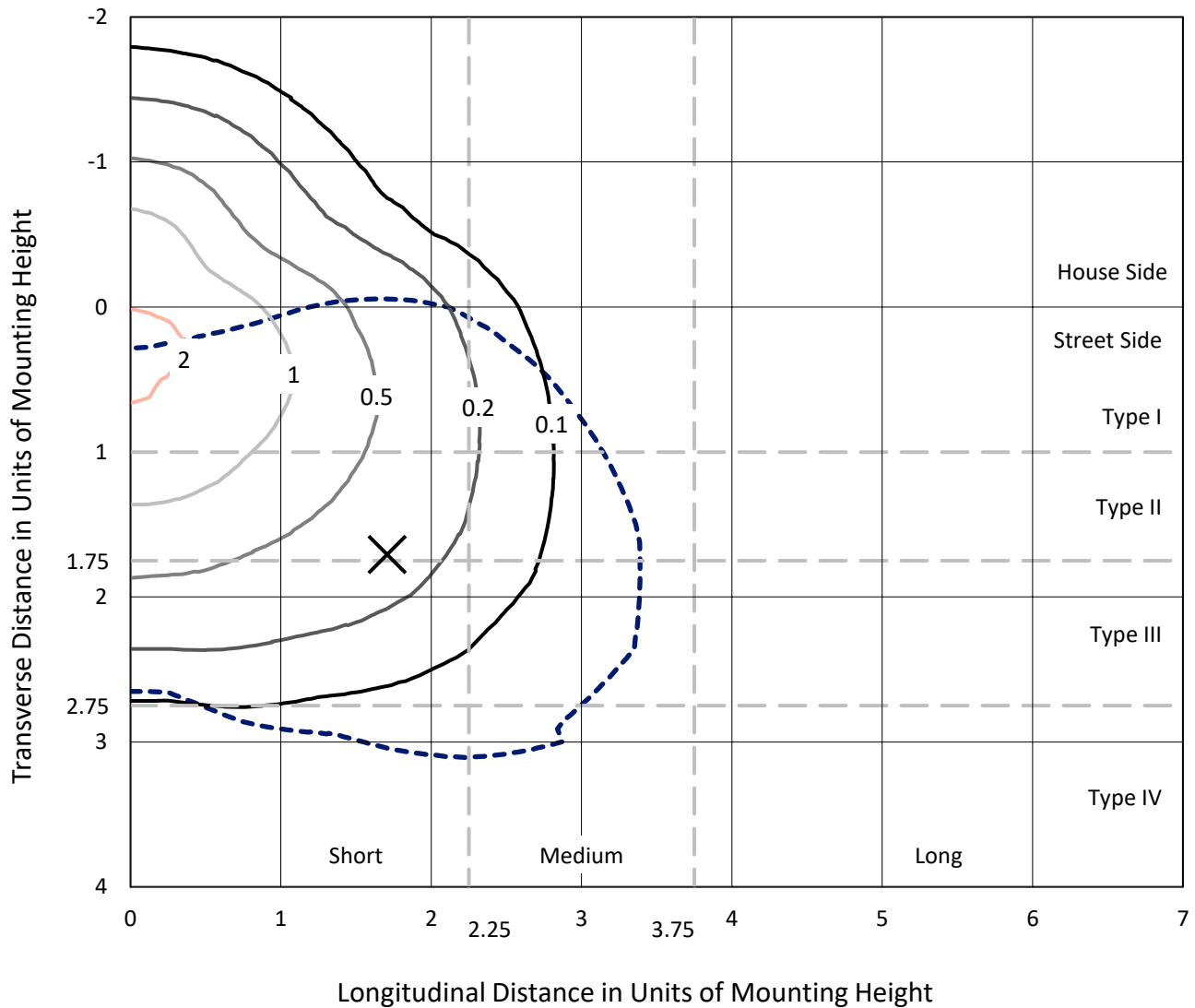


REPORT NUMBER: P799769

CATALOG NUMBER: ARCH2-50-730-U-T4W

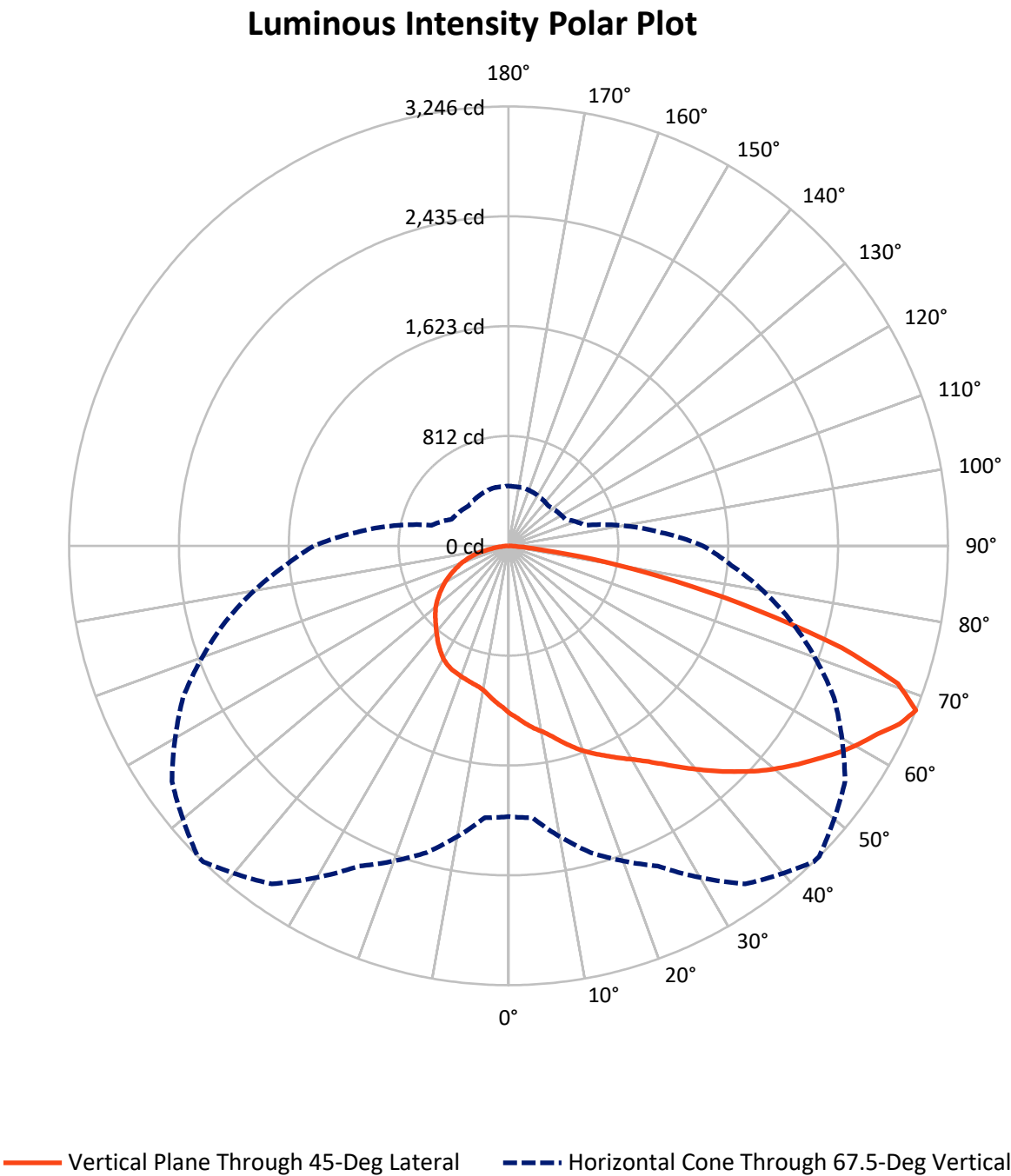
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

REPORT NUMBER: P799769
CATALOG NUMBER: ARCH2-50-730-U-T4W



REPORT NUMBER: P799769

CATALOG NUMBER: ARCH2-50-730-U-T4W

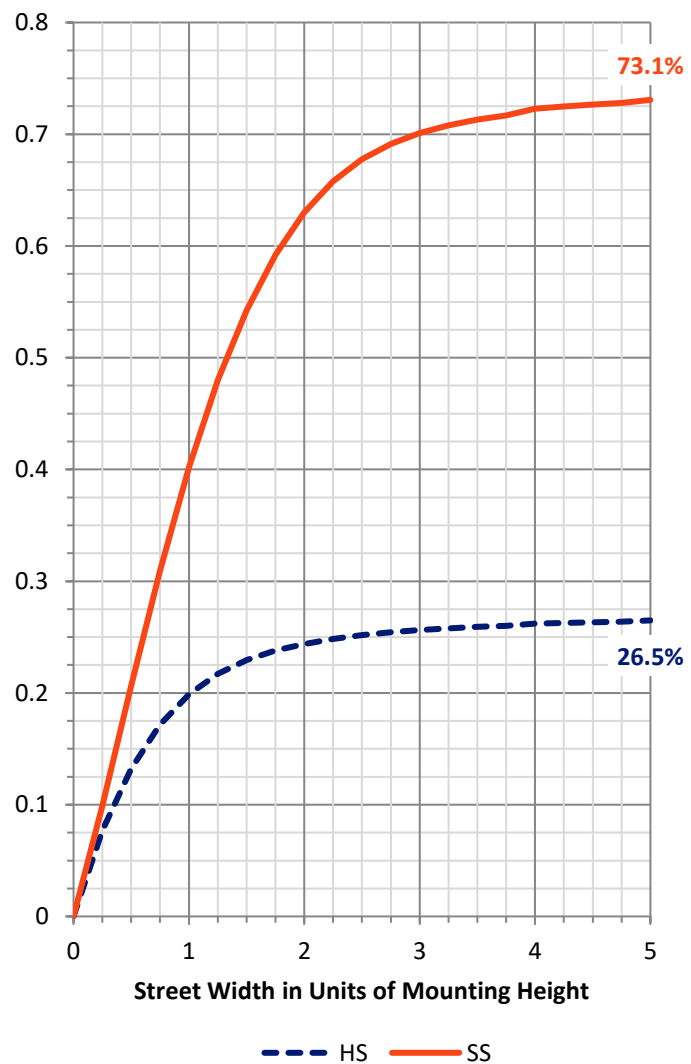
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1983.6	0.0	1983.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	5441.4	0.0	5441.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	7425.0	0.0	7425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.6
10°-20°	366.3	4.9
20°-30°	632.2	8.5
30°-40°	932.3	12.6
40°-50°	1263.1	17.0
50°-60°	1543.8	20.8
60°-70°	1592.2	21.4
70°-80°	872.1	11.7
80°-90°	104.5	1.4
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°	7425.0	100.0
0°-180°	7425.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799769

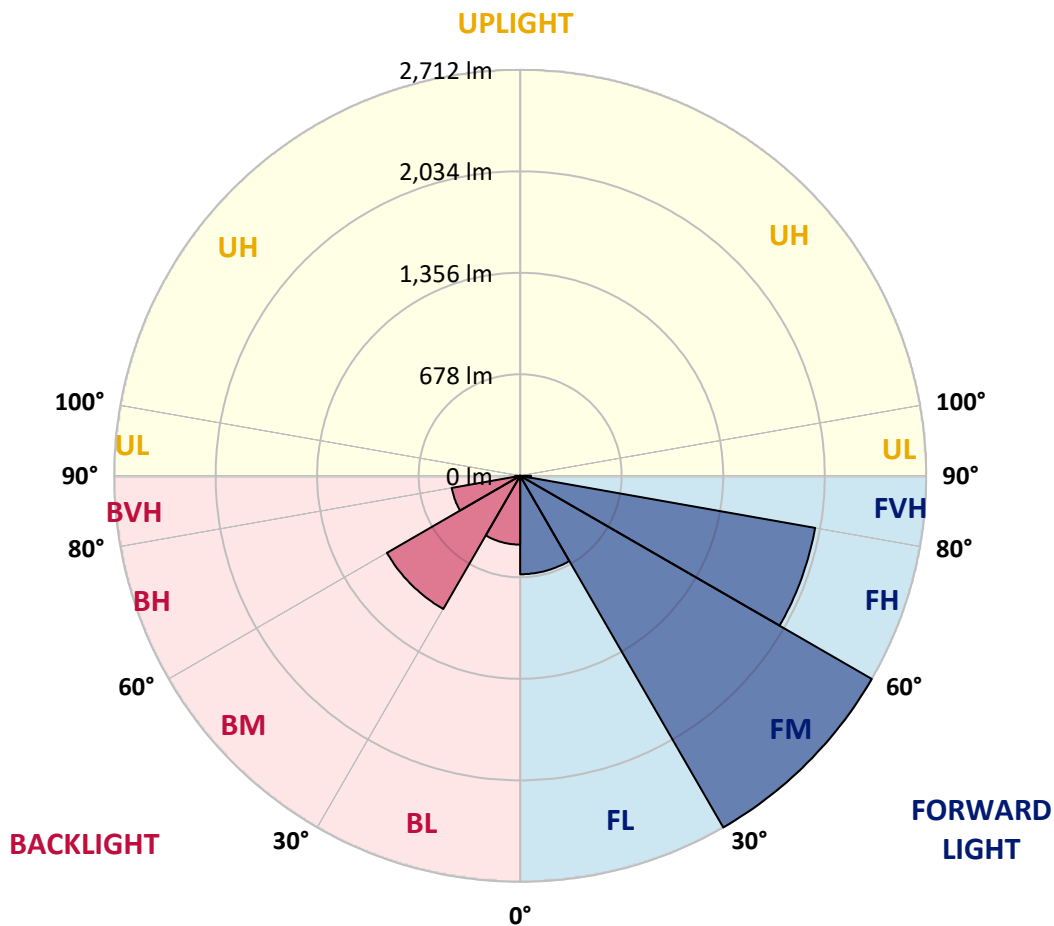
CATALOG NUMBER: ARCH2-50-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	657.3	8.9			
FM	(30°-60°)	2711.7	36.5			
FH	(60°-80°)	2000.4	26.9			G2/5000
FVH	(80°-90°)	72.0	1.0			G1/100
BL	(0°-30°)	459.7	6.2	B1/500		
BM	(30°-60°)	1027.5	13.8	B2/2500		
BH	(60°-80°)	463.9	6.2	B1/500		G1/500
BVH	(80°-90°)	32.5	0.4			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 IV Short



REPORT NUMBER: P799769

CATALOG NUMBER: ARCH2-50-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1292.6	1291.5	1293.7	1285.8	1275.6	1274.5	1274.5	1267.7	1259.8	1244.0	1231.6
5°	1353.6	1351.3	1352.5	1341.2	1327.6	1320.8	1319.7	1305.0	1286.9	1262.1	1239.5
7.5°	1410.1	1407.8	1406.7	1394.3	1373.9	1362.6	1361.5	1340.0	1318.6	1280.2	1247.4
10°	1463.2	1460.9	1458.7	1441.7	1416.9	1399.9	1397.7	1370.5	1343.4	1296.0	1254.2
12.5°	1531.0	1526.5	1524.2	1503.9	1467.7	1449.6	1446.2	1410.1	1376.2	1318.6	1267.7
15°	1602.2	1598.8	1595.4	1576.2	1535.5	1511.8	1506.1	1460.9	1414.6	1347.9	1288.1
17.5°	1655.3	1651.9	1651.9	1634.9	1597.7	1570.5	1566.0	1511.8	1454.2	1375.1	1303.9
20°	1688.0	1684.7	1688.0	1677.9	1649.6	1627.0	1622.5	1562.6	1493.7	1399.9	1317.4
22.5°	1711.8	1708.4	1714.0	1709.5	1689.2	1675.6	1672.2	1613.5	1534.4	1425.9	1331.0
25°	1753.6	1753.6	1753.6	1745.7	1726.5	1721.9	1721.9	1671.1	1586.4	1459.8	1351.3
27.5°	1837.2	1832.7	1827.0	1804.4	1771.7	1770.5	1777.3	1729.8	1646.2	1503.9	1376.2
30°	1960.3	1958.1	1936.6	1889.2	1833.8	1828.1	1832.7	1793.1	1710.6	1550.2	1404.4
32.5°	2119.7	2111.7	2067.7	1996.5	1917.4	1891.4	1900.5	1858.7	1778.4	1597.7	1431.6
35°	2232.6	2234.9	2203.3	2138.9	2045.1	1976.2	1982.9	1932.1	1851.9	1650.8	1465.5
37.5°	2362.6	2370.5	2323.0	2274.4	2187.4	2069.9	2076.7	2007.8	1925.3	1717.4	1501.6
40°	2542.2	2526.4	2446.2	2388.6	2292.5	2168.2	2173.9	2092.5	2010.1	1780.7	1543.4
42.5°	2692.5	2664.3	2567.1	2493.6	2378.4	2272.2	2277.8	2184.1	2095.9	1850.7	1589.7
45°	2908.3	2830.4	2690.2	2654.1	2466.5	2373.9	2379.5	2281.2	2186.3	1925.3	1639.5
47.5°	3033.7	2909.4	2820.2	2801.0	2563.7	2479.0	2485.7	2384.0	2283.5	2010.1	1691.4
50°	3025.8	2945.6	2919.6	2872.2	2649.6	2577.3	2584.0	2490.3	2381.8	2093.7	1741.1
52.5°	2973.8	2988.5	2975.0	2895.9	2735.4	2672.2	2680.1	2595.3	2482.3	2171.6	1787.5
55°	3054.1	3064.2	3038.2	2934.3	2830.4	2767.1	2776.1	2706.1	2581.8	2240.6	1827.0
57.5°	3150.1	3114.0	3088.0	3002.1	2928.7	2869.9	2880.1	2819.1	2667.6	2295.9	1857.5
60°	3145.6	3069.9	3095.9	3006.6	2995.3	2964.8	2973.8	2911.7	2733.2	2336.6	1870.0
62.5°	2914.0	2873.3	3004.4	2973.8	3049.5	3049.5	3060.8	2968.2	2772.7	2353.5	1863.2
65°	2511.7	2514.0	2744.5	2871.0	3114.0	3165.9	3175.0	3003.2	2750.1	2303.8	1799.9
67.5°	2001.0	2015.7	2346.8	2610.0	3049.5	3245.0	3246.1	3034.9	2653.0	2163.7	1653.0
70°	1464.3	1475.6	1866.6	2186.3	2745.6	3069.9	3051.8	2945.6	2441.7	1919.7	1423.6
72.5°	989.8	999.9	1402.2	1679.0	2253.0	2614.5	2575.0	2603.2	2081.2	1577.3	1144.6
75°	665.5	677.9	997.7	1201.1	1657.5	1985.2	1897.1	1971.6	1610.1	1194.3	835.0
77.5°	419.2	427.1	633.9	787.5	1132.1	1351.3	1263.2	1264.3	927.6	642.9	448.6
80°	266.7	268.9	384.2	454.2	655.3	812.4	718.6	584.1	418.1	341.2	267.8
82.5°	154.8	151.4	229.4	256.5	311.8	308.5	255.4	241.8	183.0	170.6	136.7
85°	62.1	57.6	100.6	93.8	94.9	100.6	74.6	74.6	59.9	46.3	33.9
87.5°	12.4	12.4	13.6	12.4	12.4	13.6	10.2	10.2	9.0	9.0	9.0
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: P799769

CATALOG NUMBER: ARCH2-50-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1229.3	1227.1	1221.4	1206.7	1198.8	1194.3	1187.5	1185.2	1184.1	1185.2	1188.6
5°	1232.7	1224.8	1209.0	1185.2	1169.4	1159.3	1148.0	1143.4	1140.0	1140.0	1143.4
7.5°	1235.0	1222.5	1195.4	1160.4	1137.8	1122.0	1108.4	1102.8	1101.6	1105.0	1106.2
10°	1236.1	1218.0	1179.6	1135.5	1106.2	1085.8	1072.3	1068.9	1072.3	1079.0	1080.2
12.5°	1244.0	1219.1	1170.6	1118.6	1083.6	1063.2	1053.0	1053.0	1062.1	1074.5	1075.6
15°	1257.6	1227.1	1166.0	1105.0	1068.9	1050.8	1047.4	1053.0	1066.6	1085.8	1088.1
17.5°	1267.7	1231.6	1155.9	1086.9	1049.7	1038.4	1044.0	1057.6	1076.8	1102.8	1105.0
20°	1274.5	1231.6	1141.2	1065.5	1030.5	1028.2	1044.0	1065.5	1085.8	1116.3	1119.7
22.5°	1281.3	1229.3	1124.2	1039.5	1009.0	1015.8	1045.1	1072.3	1092.6	1125.4	1131.0
25°	1293.7	1232.7	1107.3	1013.5	986.4	1005.6	1044.0	1076.8	1098.2	1132.1	1141.2
27.5°	1310.7	1240.6	1094.9	989.8	963.8	989.8	1036.1	1075.6	1098.2	1131.0	1141.2
30°	1328.7	1249.6	1080.2	963.8	937.8	967.2	1019.2	1063.2	1089.2	1119.7	1132.1
32.5°	1347.9	1259.8	1067.7	935.5	906.2	936.7	994.3	1044.0	1072.3	1100.5	1114.1
35°	1373.9	1277.9	1061.0	912.9	877.9	905.0	962.7	1019.2	1049.7	1075.6	1091.5
37.5°	1405.6	1300.5	1057.6	890.3	847.4	870.0	928.8	988.6	1021.4	1042.9	1057.6
40°	1441.7	1328.7	1056.4	868.9	816.9	833.9	893.7	953.6	985.3	1002.2	1014.6
42.5°	1482.4	1360.4	1054.2	847.4	786.4	800.0	859.8	918.6	945.7	960.4	971.7
45°	1525.3	1392.0	1049.7	821.4	753.6	769.4	824.8	876.8	905.0	917.5	929.9
47.5°	1568.3	1423.6	1040.6	792.0	724.3	738.9	787.5	832.7	855.3	866.6	879.0
50°	1610.1	1451.9	1019.2	758.1	693.7	707.3	744.6	775.1	792.0	801.1	813.5
52.5°	1647.4	1471.1	988.6	718.6	663.2	670.0	694.9	720.9	734.4	735.6	746.9
55°	1679.0	1481.3	944.6	677.9	630.5	631.6	645.2	665.5	671.1	666.6	674.5
57.5°	1697.1	1475.6	896.0	636.1	596.6	592.1	602.2	612.4	613.5	602.2	610.1
60°	1701.6	1449.6	832.7	594.3	562.7	550.3	553.6	551.4	549.1	544.6	551.4
62.5°	1679.0	1394.3	762.7	553.6	526.5	507.3	506.2	505.1	508.4	509.6	510.7
65°	1596.5	1290.3	679.1	511.8	488.1	462.1	461.0	474.5	479.1	472.3	474.5
67.5°	1437.2	1131.0	587.5	463.3	439.5	416.9	426.0	433.9	441.8	439.5	441.8
70°	1211.2	928.8	503.9	409.0	386.4	374.0	384.2	390.9	392.1	389.8	392.1
72.5°	952.5	725.4	426.0	353.7	333.3	327.7	340.1	345.7	355.9	360.4	361.6
75°	688.1	535.6	349.1	293.8	276.8	276.8	288.1	298.3	307.3	301.7	298.3
77.5°	384.2	319.8	250.8	202.2	205.6	221.5	226.0	237.3	246.3	245.2	242.9
80°	232.8	200.0	169.5	131.1	129.9	142.4	171.7	190.9	195.5	185.3	184.2
82.5°	120.9	105.1	90.4	73.4	81.4	94.9	99.4	119.8	132.2	127.7	133.3
85°	30.5	29.4	32.8	33.9	41.8	46.3	50.8	59.9	39.5	19.2	19.2
87.5°	9.0	9.0	11.3	11.3	14.7	18.1	16.9	16.9	9.0	1.1	0.0
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)