

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: P799093

Luminaire Tested: **ARCH1-60-722-U-T2U**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799093  
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: ARCH1-60-722-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6167 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

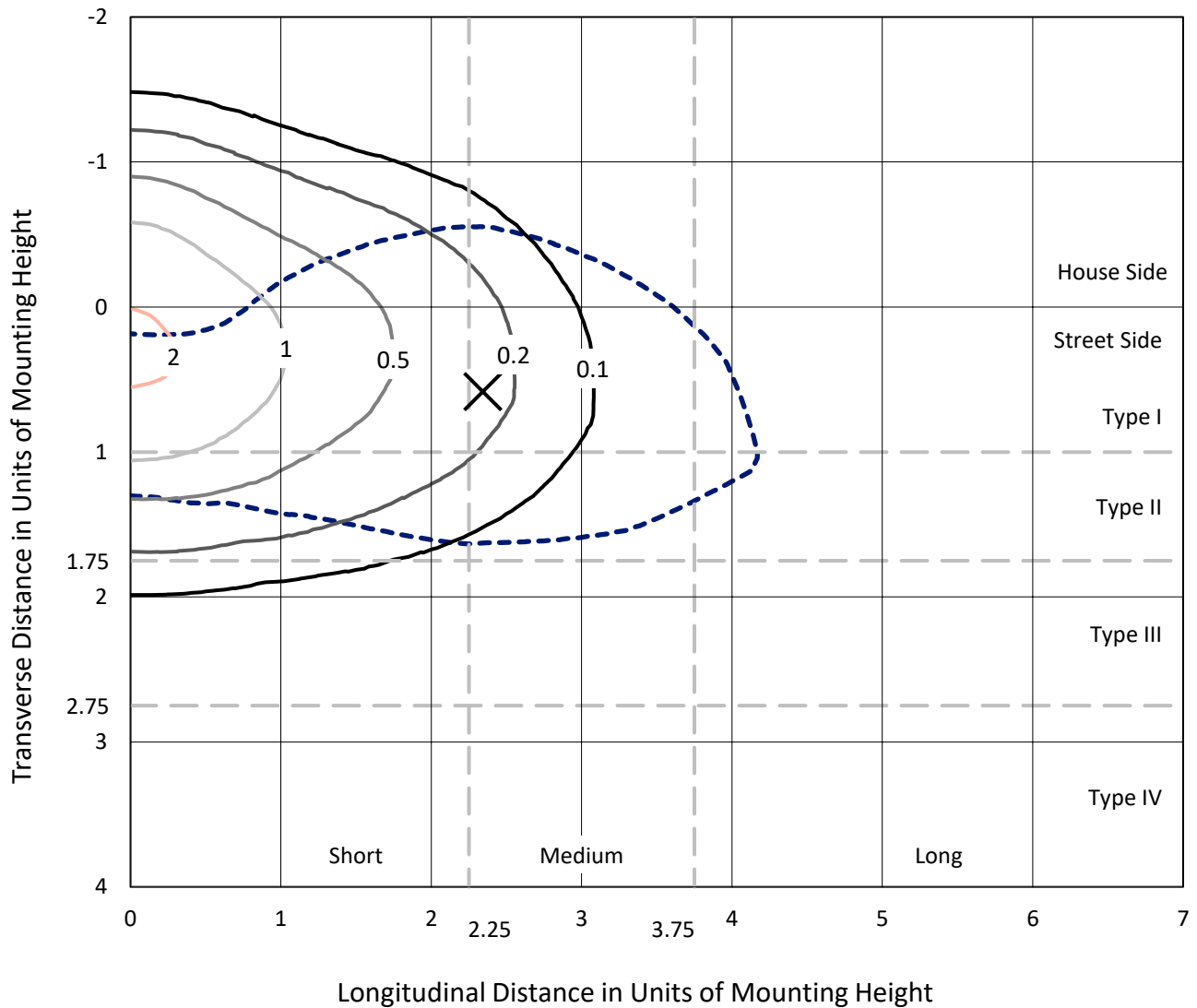
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

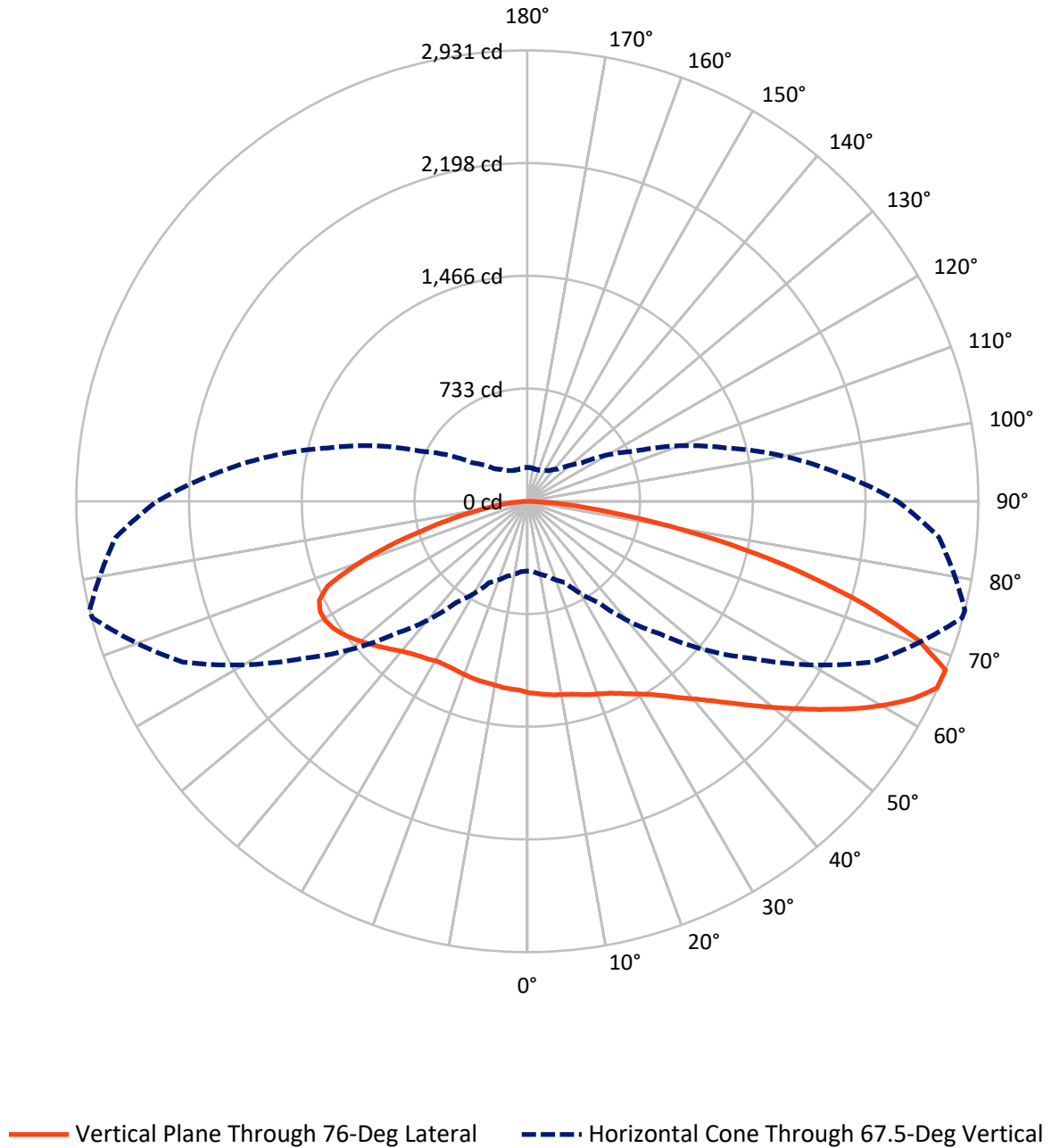
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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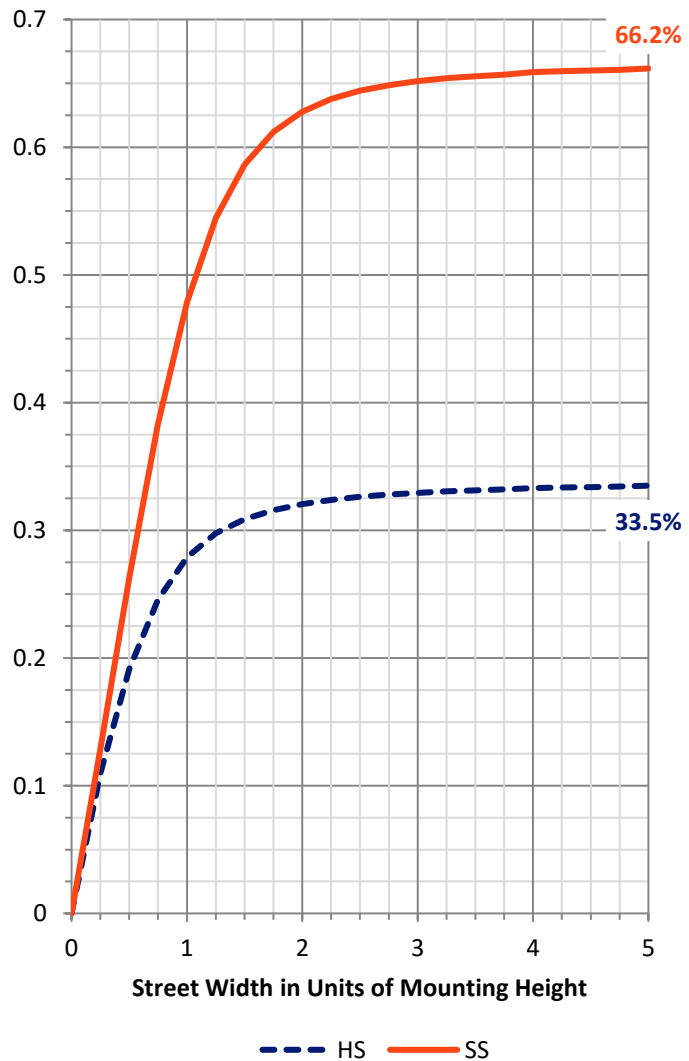
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2083.9	0.0	2083.9
	% Fixture	33.8	0.0	33.8
<b>Street Side</b>	Lumens	4083.1	0.0	4083.1
	% Fixture	66.2	0.0	66.2
<b>Total</b>	Lumens	6167.0	0.0	6167.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	1.9
10°-20°	367.2	6.0
20°-30°	623.9	10.1
30°-40°	887.8	14.4
40°-50°	1121.2	18.2
50°-60°	1214.0	19.7
60°-70°	1129.1	18.3
70°-80°	606.4	9.8
80°-90°	97.2	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°	6167.0	100.0
0°-180°	6167.0	100.0

**Coefficient of Utilization**



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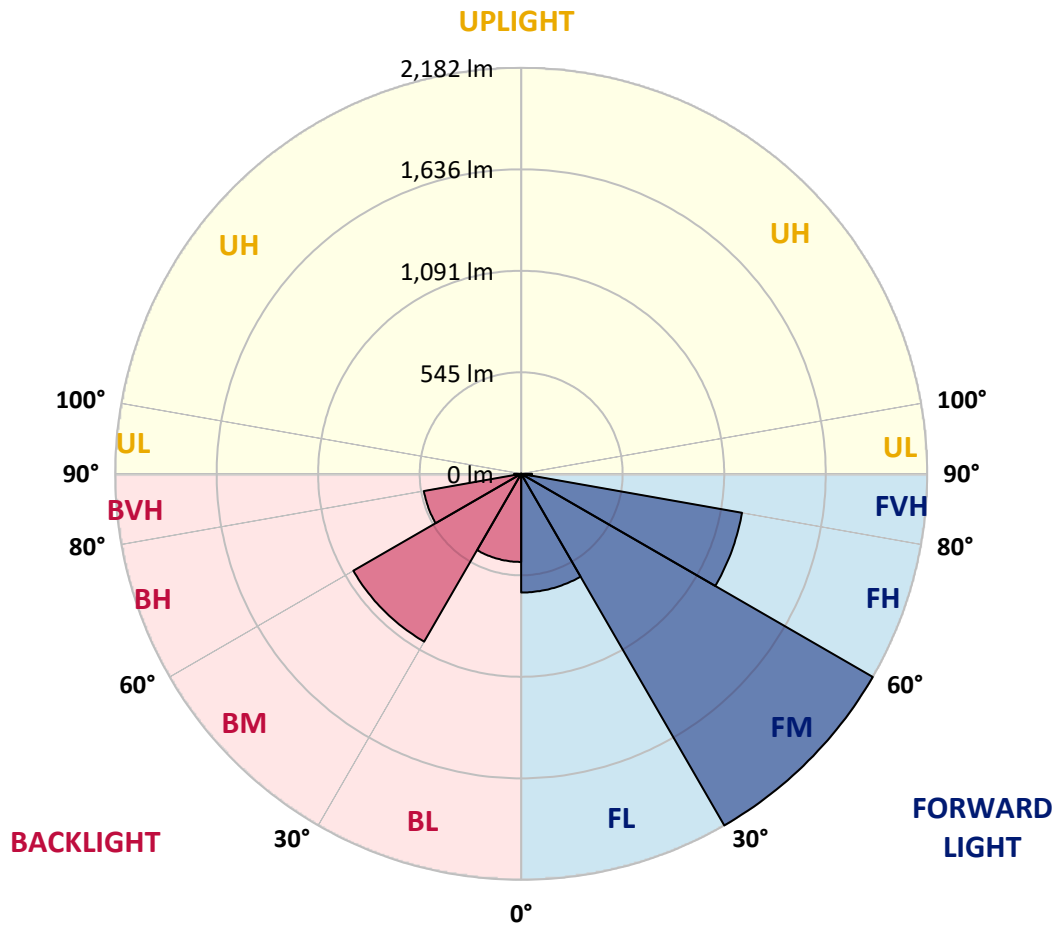
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.7	10.3			
FM (30°-60°)	2181.7	35.4			
FH (60°-80°)	1205.0	19.5			G1/1800
FVH (80°-90°)	58.8	1.0			G1/100
BL (0°-30°)	473.6	7.7	B1/500		
BM (30°-60°)	1041.3	16.9	B2/2500		
BH (60°-80°)	530.6	8.6	B2/1000		G2/1000
BVH (80°-90°)	38.4	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°	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1283.5	1281.2	1272.1	1273.2	1273.2	1272.1	1258.3	1252.6	1252.6	1251.4	1238.9
5°	1329.3	1325.9	1315.6	1313.3	1308.7	1303.0	1281.2	1268.6	1262.9	1261.7	1244.6
7.5°	1383.1	1378.5	1365.9	1359.1	1347.6	1332.7	1305.3	1285.8	1272.1	1270.9	1246.9
10°	1436.9	1432.3	1417.5	1404.9	1388.8	1364.8	1329.3	1300.7	1278.9	1276.6	1248.0
12.5°	1501.0	1496.5	1478.1	1462.1	1438.1	1406.0	1359.1	1320.1	1290.4	1286.9	1251.4
15°	1568.6	1561.7	1543.4	1525.1	1495.3	1454.1	1398.0	1346.5	1308.7	1303.0	1261.7
17.5°	1624.7	1615.5	1600.7	1582.3	1549.1	1501.0	1436.9	1372.8	1325.9	1321.3	1272.1
20°	1672.8	1665.9	1649.9	1632.7	1597.2	1544.6	1473.6	1399.1	1341.9	1336.2	1280.1
22.5°	1718.6	1709.4	1700.3	1687.7	1648.7	1590.4	1515.9	1431.2	1362.5	1355.6	1290.4
25°	1771.3	1761.0	1757.5	1750.6	1704.9	1645.3	1567.5	1471.3	1391.1	1383.1	1308.7
27.5°	1836.5	1825.1	1818.2	1818.2	1763.2	1701.4	1622.4	1518.2	1424.3	1417.5	1331.6
30°	1905.2	1891.5	1881.2	1881.2	1819.3	1757.5	1676.2	1565.2	1462.1	1454.1	1361.4
32.5°	1965.9	1952.2	1940.7	1939.6	1875.5	1813.6	1732.3	1616.7	1507.9	1497.6	1398.0
35°	2012.8	2000.3	1989.9	1992.2	1931.6	1870.9	1795.3	1685.4	1565.2	1553.7	1446.1
37.5°	2041.5	2036.9	2031.2	2039.2	1983.1	1925.8	1860.6	1751.8	1630.4	1620.1	1505.6
40°	2056.4	2052.9	2075.8	2086.1	2026.6	1975.1	1925.8	1820.5	1701.4	1690.0	1574.3
42.5°	2078.1	2106.7	2115.9	2113.6	2058.6	2012.8	1985.4	1894.9	1785.0	1774.7	1656.8
45°	2000.3	1993.4	2043.8	2071.2	2060.9	2036.9	2041.5	1984.2	1882.3	1872.0	1751.8
47.5°	1896.1	1886.9	1915.5	1983.1	2023.2	2046.0	2091.8	2077.0	1994.5	1985.4	1862.9
50°	1676.2	1688.8	1795.3	1885.8	1964.8	2043.8	2134.2	2176.6	2118.2	2109.0	1981.9
52.5°	1432.3	1444.9	1556.0	1764.4	1893.8	2026.6	2165.1	2276.2	2252.1	2241.8	2109.0
55°	1254.9	1282.4	1408.3	1559.4	1793.0	1972.8	2183.4	2378.1	2396.4	2387.2	2247.6
57.5°	1078.6	1099.2	1194.2	1328.2	1655.6	1878.9	2182.3	2473.1	2547.5	2538.4	2388.4
60°	871.3	897.7	973.2	1117.5	1472.4	1766.7	2150.2	2547.5	2693.0	2686.1	2524.6
62.5°	729.3	737.4	791.2	916.0	1236.6	1624.7	2078.1	2587.6	2824.6	2820.0	2647.2
65°	587.4	588.5	637.7	741.9	1008.7	1448.4	1955.6	2572.7	2924.2	2926.5	2735.3
67.5°	453.4	459.1	503.8	582.8	801.5	1219.4	1780.4	2472.0	2925.4	2931.1	2684.9
70°	313.7	318.3	385.9	462.6	619.4	972.1	1543.4	2205.2	2684.9	2689.5	2406.7
72.5°	221.0	223.3	295.4	369.8	484.3	732.8	1164.4	1823.9	2288.8	2292.2	2024.3
75°	164.9	167.2	208.4	280.5	371.0	507.2	795.7	1396.9	1828.5	1828.5	1598.4
77.5°	116.8	117.9	135.1	193.5	247.3	342.3	478.6	914.8	1341.9	1344.2	1164.4
80°	79.0	80.1	88.2	130.5	154.6	185.5	259.9	479.7	846.1	849.6	739.6
82.5°	41.2	43.5	49.2	66.4	77.9	103.0	134.0	243.9	468.3	477.4	444.2
85°	16.0	16.0	18.3	21.8	28.6	40.1	61.8	92.7	211.8	218.7	195.8
87.5°	5.7	5.7	6.9	6.9	8.0	9.2	10.3	13.7	24.0	24.0	22.9
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°	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1234.3	1234.3	1228.5	1230.8	1229.7	1227.4	1225.1	1228.5	1225.1	1217.1	1216.0
5°	1236.6	1234.3	1225.1	1224.0	1220.5	1216.0	1210.2	1212.5	1206.8	1199.9	1198.8
7.5°	1237.7	1233.1	1220.5	1216.0	1209.1	1199.9	1190.8	1190.8	1182.7	1175.9	1174.7
10°	1235.4	1229.7	1212.5	1203.4	1190.8	1177.0	1164.4	1161.0	1151.8	1143.8	1143.8
12.5°	1236.6	1228.5	1206.8	1191.9	1174.7	1157.6	1141.5	1136.9	1128.9	1120.9	1119.8
15°	1243.4	1232.0	1204.5	1185.0	1159.8	1140.4	1123.2	1119.8	1112.9	1107.2	1107.2
17.5°	1250.3	1235.4	1201.1	1173.6	1142.7	1120.9	1104.9	1104.9	1100.3	1096.9	1096.9
20°	1253.7	1236.6	1194.2	1157.6	1122.1	1099.2	1084.3	1086.6	1085.4	1084.3	1084.3
22.5°	1261.7	1238.9	1188.5	1142.7	1100.3	1076.3	1062.5	1066.0	1064.8	1064.8	1066.0
25°	1274.3	1244.6	1183.9	1128.9	1079.7	1053.4	1038.5	1040.8	1040.8	1040.8	1040.8
27.5°	1291.5	1256.0	1182.7	1116.3	1059.1	1029.3	1011.0	1011.0	1006.4	1007.6	1008.7
30°	1317.9	1277.8	1185.0	1104.9	1037.3	999.6	977.8	974.4	973.2	975.5	976.7
32.5°	1349.9	1307.5	1198.8	1096.9	1014.4	966.3	938.9	937.7	934.3	934.3	934.3
35°	1390.0	1336.2	1211.4	1095.7	991.5	930.9	901.1	897.7	889.6	886.2	886.2
37.5°	1441.5	1380.8	1226.3	1087.7	972.1	896.5	861.0	849.6	840.4	839.3	839.3
40°	1504.5	1431.2	1248.0	1078.6	951.5	861.0	814.1	794.6	795.7	800.3	800.3
42.5°	1578.9	1493.0	1275.5	1074.0	921.7	824.4	759.1	736.2	744.2	748.8	750.0
45°	1665.9	1566.3	1306.4	1068.3	894.2	783.2	700.7	672.1	675.5	676.7	677.8
47.5°	1766.7	1647.6	1338.5	1063.7	863.3	731.6	636.6	598.8	597.7	590.8	593.1
50°	1872.0	1733.5	1371.7	1055.7	825.5	670.9	569.0	524.4	515.2	504.9	506.1
52.5°	1984.2	1821.6	1402.6	1043.1	778.6	609.1	504.9	456.8	438.5	427.1	429.4
55°	2107.9	1912.1	1432.3	1023.6	729.3	547.3	447.7	398.4	375.5	366.4	367.5
57.5°	2221.2	1999.1	1454.1	999.6	675.5	491.2	397.3	349.2	334.3	333.2	334.3
60°	2331.1	2072.4	1463.3	966.3	620.6	439.7	350.4	313.7	303.4	309.1	310.3
62.5°	2423.9	2119.3	1458.7	921.7	564.5	390.4	312.6	286.2	279.4	290.8	292.0
65°	2477.7	2134.2	1426.6	857.6	503.8	342.3	277.1	248.5	245.0	251.9	255.3
67.5°	2406.7	2041.5	1339.6	769.4	436.2	297.7	242.7	219.8	214.1	219.8	219.8
70°	2133.1	1769.0	1133.5	629.7	361.8	254.2	210.7	194.6	190.1	194.6	193.5
72.5°	1777.0	1471.3	893.1	491.2	285.1	214.1	183.2	168.3	163.7	159.1	156.9
75°	1378.5	1117.5	648.0	360.7	215.3	171.7	153.4	139.7	128.2	132.8	130.5
77.5°	1009.9	784.3	459.1	249.6	154.6	132.8	120.2	109.9	101.9	111.1	109.9
80°	650.3	507.2	306.9	167.2	106.5	92.7	88.2	82.4	90.5	117.9	120.2
82.5°	397.3	321.7	183.2	108.8	69.8	61.8	57.2	57.2	92.7	101.9	103.0
85°	177.5	170.6	99.6	56.1	38.9	35.5	32.1	41.2	37.8	27.5	28.6
87.5°	28.6	29.8	21.8	19.5	14.9	14.9	11.4	8.0	5.7	3.4	3.4
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)