

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: P799109

Luminaire Tested: **ARCH1-60-727-U-T2U**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799109  
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: ARCH1-60-727-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6801 lumens  
Efficiency: N/A  
Efficacy: 113.4 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

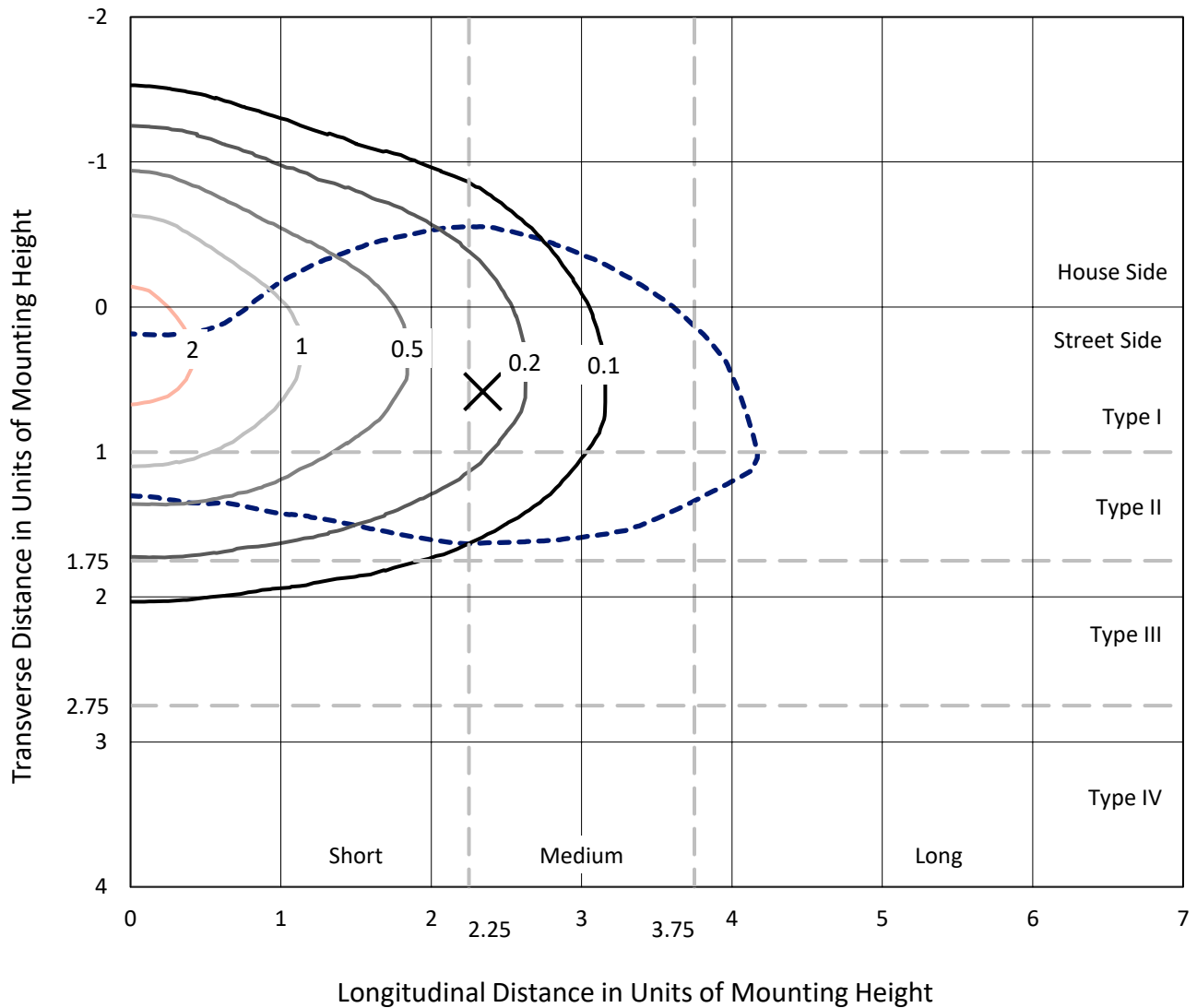
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

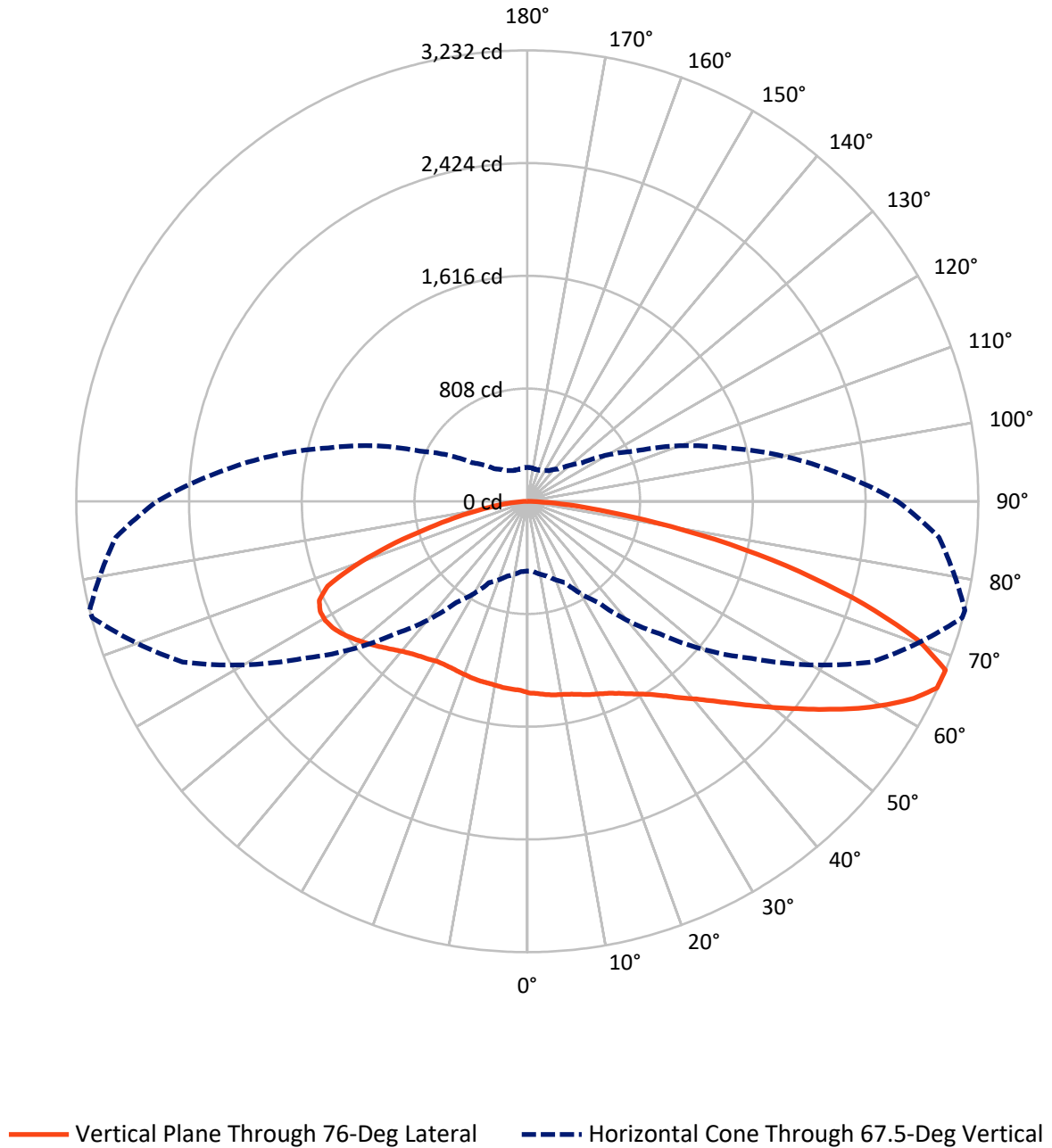
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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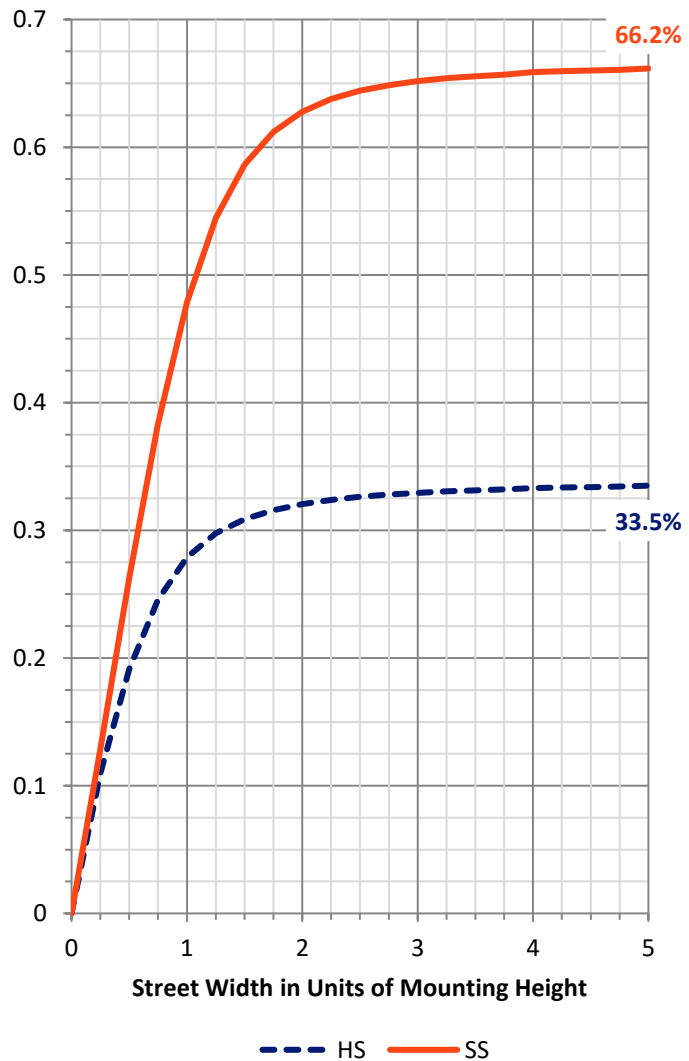
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2298.1	0.0	2298.1
	% Fixture	33.8	0.0	33.8
<b>Street Side</b>	Lumens	4502.9	0.0	4502.9
	% Fixture	66.2	0.0	66.2
<b>Total</b>	Lumens	6801.0	0.0	6801.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	1.9
10°-20°	405.0	6.0
20°-30°	688.1	10.1
30°-40°	979.1	14.4
40°-50°	1236.5	18.2
50°-60°	1338.8	19.7
60°-70°	1245.2	18.3
70°-80°	668.8	9.8
80°-90°	107.2	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°	6801.0	100.0
0°-180°	6801.0	100.0

**Coefficient of Utilization**



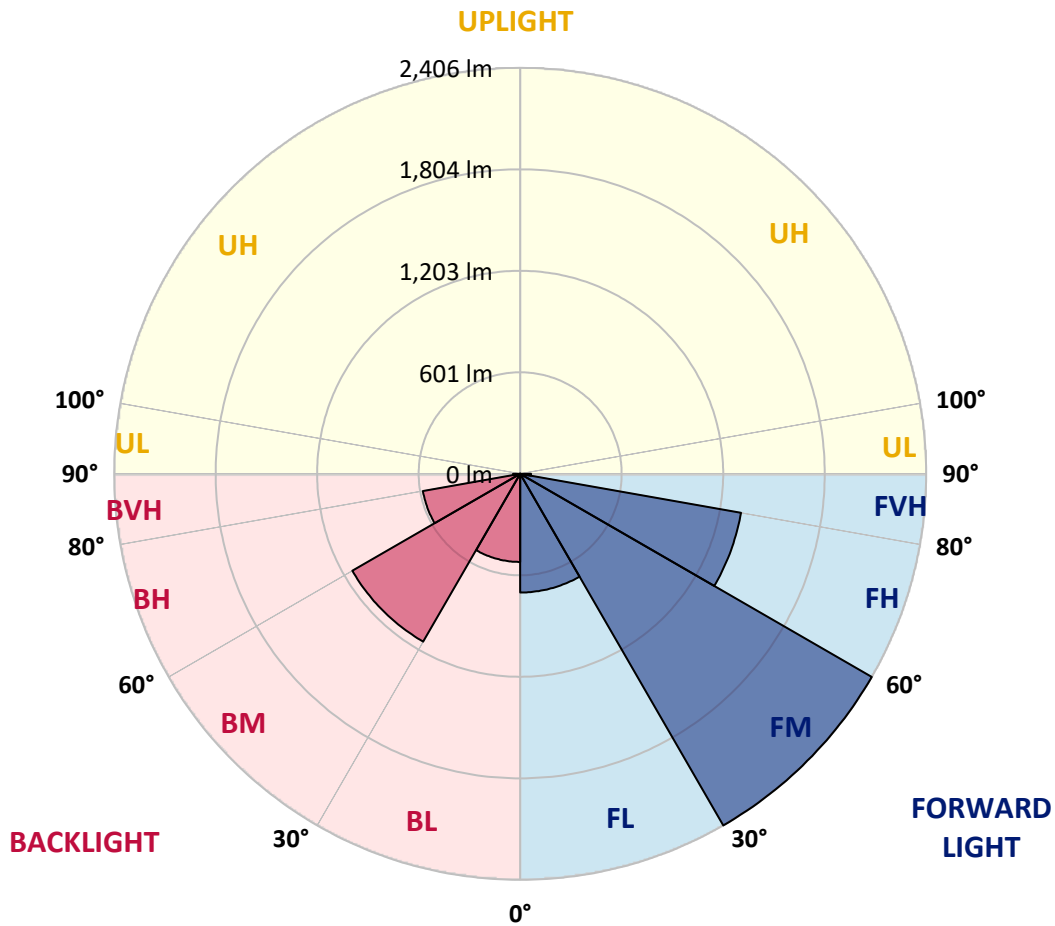
REPORT NUMBER: P799109  
 CATALOG NUMBER: ARCH1-60-727-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.3	10.3			
FM (30°-60°)	2405.9	35.4			
FH (60°-80°)	1328.9	19.5			G1/1800
FVH (80°-90°)	64.8	1.0			G1/100
BL (0°-30°)	522.2	7.7	B2/1000		
BM (30°-60°)	1148.4	16.9	B2/2500		
BH (60°-80°)	585.1	8.6	B2/1000		G2/1000
BVH (80°-90°)	42.3	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°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1415.5	1412.9	1402.8	1404.1	1404.1	1402.8	1387.7	1381.4	1381.4	1380.1	1366.2
5°	1466.0	1462.2	1450.8	1448.3	1443.2	1436.9	1412.9	1399.0	1392.7	1391.5	1372.5
7.5°	1525.3	1520.3	1506.4	1498.8	1486.2	1469.8	1439.4	1418.0	1402.8	1401.6	1375.0
10°	1584.7	1579.6	1563.2	1549.3	1531.6	1505.1	1466.0	1434.4	1410.4	1407.9	1376.3
12.5°	1655.4	1650.3	1630.1	1612.4	1585.9	1550.6	1498.8	1455.9	1423.0	1419.2	1380.1
15°	1729.9	1722.3	1702.1	1681.9	1649.0	1603.6	1541.7	1484.9	1443.2	1436.9	1391.5
17.5°	1791.7	1781.6	1765.2	1745.0	1708.4	1655.4	1584.7	1513.9	1462.2	1457.1	1402.8
20°	1844.8	1837.2	1819.5	1800.6	1761.4	1703.3	1625.1	1543.0	1479.9	1473.5	1411.7
22.5°	1895.3	1885.2	1875.1	1861.2	1818.2	1753.9	1671.8	1578.3	1502.6	1495.0	1423.0
25°	1953.4	1942.0	1938.2	1930.6	1880.1	1814.5	1728.6	1622.5	1534.1	1525.3	1443.2
27.5°	2025.3	2012.7	2005.1	2005.1	1944.5	1876.3	1789.2	1674.3	1570.8	1563.2	1468.5
30°	2101.1	2085.9	2074.6	2074.6	2006.4	1938.2	1848.6	1726.1	1612.4	1603.6	1501.3
32.5°	2168.0	2152.9	2140.2	2139.0	2068.3	2000.1	1910.4	1782.9	1662.9	1651.6	1541.7
35°	2219.8	2205.9	2194.5	2197.0	2130.1	2063.2	1979.9	1858.7	1726.1	1713.4	1594.8
37.5°	2251.3	2246.3	2240.0	2248.8	2186.9	2123.8	2051.8	1931.9	1798.0	1786.7	1660.4
40°	2267.8	2264.0	2289.2	2300.6	2234.9	2178.1	2123.8	2007.6	1876.3	1863.7	1736.2
42.5°	2291.7	2323.3	2333.4	2330.9	2270.3	2219.8	2189.5	2089.7	1968.5	1957.1	1827.1
45°	2205.9	2198.3	2253.9	2284.2	2272.8	2246.3	2251.3	2188.2	2075.8	2064.5	1931.9
47.5°	2091.0	2080.9	2112.5	2186.9	2231.1	2256.4	2306.9	2290.5	2199.6	2189.5	2054.4
50°	1848.6	1862.4	1979.9	2079.6	2166.7	2253.9	2353.6	2400.3	2335.9	2325.8	2185.7
52.5°	1579.6	1593.5	1716.0	1945.8	2088.5	2234.9	2387.7	2510.2	2483.7	2472.3	2325.8
55°	1383.9	1414.2	1553.1	1719.8	1977.3	2175.6	2407.9	2622.6	2642.8	2632.7	2478.6
57.5°	1189.4	1212.2	1317.0	1464.7	1825.8	2072.0	2406.7	2727.4	2809.4	2799.3	2633.9
60°	960.9	989.9	1073.3	1232.4	1623.8	1948.3	2371.3	2809.4	2969.8	2962.2	2784.2
62.5°	804.3	813.2	872.5	1010.1	1363.7	1791.7	2291.7	2853.6	3115.0	3110.0	2919.3
65°	647.8	649.0	703.3	818.2	1112.4	1597.3	2156.6	2837.2	3224.9	3227.4	3016.5
67.5°	500.0	506.3	555.6	642.7	883.9	1344.7	1963.5	2726.1	3226.1	3232.4	2961.0
70°	346.0	351.0	425.5	510.1	683.1	1072.0	1702.1	2431.9	2961.0	2966.0	2654.1
72.5°	243.7	246.2	325.8	407.8	534.1	808.1	1284.1	2011.4	2524.1	2527.9	2232.4
75°	181.8	184.4	229.8	309.4	409.1	559.4	877.6	1540.5	2016.5	2016.5	1762.7
77.5°	128.8	130.1	149.0	213.4	272.7	377.5	527.8	1008.9	1479.9	1482.4	1284.1
80°	87.1	88.4	97.2	143.9	170.5	204.6	286.6	529.1	933.1	936.9	815.7
82.5°	45.5	48.0	54.3	73.2	85.9	113.6	147.7	268.9	516.4	526.5	489.9
85°	17.7	17.7	20.2	24.0	31.6	44.2	68.2	102.3	233.6	241.2	215.9
87.5°	6.3	6.3	7.6	7.6	8.8	10.1	11.4	15.2	26.5	26.5	25.3
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: P799109  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1361.2	1361.2	1354.8	1357.4	1356.1	1353.6	1351.1	1354.8	1351.1	1342.2	1341.0
5°	1363.7	1361.2	1351.1	1349.8	1346.0	1341.0	1334.6	1337.2	1330.9	1323.3	1322.0
7.5°	1364.9	1359.9	1346.0	1341.0	1333.4	1323.3	1313.2	1313.2	1304.3	1296.8	1295.5
10°	1362.4	1356.1	1337.2	1327.1	1313.2	1298.0	1284.1	1280.3	1270.2	1261.4	1261.4
12.5°	1363.7	1354.8	1330.9	1314.4	1295.5	1276.6	1258.9	1253.8	1245.0	1236.2	1234.9
15°	1371.3	1358.6	1328.3	1306.9	1279.1	1257.6	1238.7	1234.9	1227.3	1221.0	1221.0
17.5°	1378.8	1362.4	1324.5	1294.2	1260.1	1236.2	1218.5	1218.5	1213.4	1209.6	1209.6
20°	1382.6	1363.7	1317.0	1276.6	1237.4	1212.2	1195.8	1198.3	1197.0	1195.8	1195.8
22.5°	1391.5	1366.2	1310.7	1260.1	1213.4	1186.9	1171.8	1175.5	1174.3	1174.3	1175.5
25°	1405.4	1372.5	1305.6	1245.0	1190.7	1161.7	1145.2	1147.8	1147.8	1147.8	1147.8
27.5°	1424.3	1385.2	1304.3	1231.1	1168.0	1135.1	1114.9	1114.9	1109.9	1111.2	1112.4
30°	1453.3	1409.1	1306.9	1218.5	1144.0	1102.3	1078.3	1074.5	1073.3	1075.8	1077.1
32.5°	1488.7	1442.0	1322.0	1209.6	1118.7	1065.7	1035.4	1034.1	1030.3	1030.3	1030.3
35°	1532.9	1473.5	1335.9	1208.4	1093.5	1026.6	993.7	989.9	981.1	977.3	977.3
37.5°	1589.7	1522.8	1352.3	1199.5	1072.0	988.7	949.5	936.9	926.8	925.5	925.5
40°	1659.2	1578.3	1376.3	1189.4	1049.3	949.5	897.8	876.3	877.6	882.6	882.6
42.5°	1741.2	1646.5	1406.6	1184.4	1016.5	909.1	837.2	811.9	820.7	825.8	827.1
45°	1837.2	1727.3	1440.7	1178.1	986.1	863.7	772.8	741.2	745.0	746.2	747.5
47.5°	1948.3	1817.0	1476.1	1173.0	952.1	806.8	702.0	660.4	659.1	651.5	654.1
50°	2064.5	1911.7	1512.7	1164.2	910.4	739.9	627.5	578.3	568.2	556.8	558.1
52.5°	2188.2	2008.9	1546.8	1150.3	858.6	671.7	556.8	503.8	483.6	471.0	473.5
55°	2324.6	2108.7	1579.6	1128.8	804.3	603.6	493.7	439.4	414.2	404.1	405.3
57.5°	2449.6	2204.6	1603.6	1102.3	745.0	541.7	438.1	385.1	368.7	367.4	368.7
60°	2570.8	2285.4	1613.7	1065.7	684.4	484.9	386.4	346.0	334.6	340.9	342.2
62.5°	2673.1	2337.2	1608.6	1016.5	622.5	430.6	344.7	315.7	308.1	320.7	322.0
65°	2732.4	2353.6	1573.3	945.7	555.6	377.5	305.6	274.0	270.2	277.8	281.6
67.5°	2654.1	2251.3	1477.3	848.5	481.1	328.3	267.7	242.4	236.1	242.4	242.4
70°	2352.4	1950.8	1250.0	694.5	399.0	280.3	232.3	214.7	209.6	214.7	213.4
72.5°	1959.7	1622.5	984.9	541.7	314.4	236.1	202.0	185.6	180.6	175.5	173.0
75°	1520.3	1232.4	714.7	397.7	237.4	189.4	169.2	154.0	141.4	146.5	143.9
77.5°	1113.7	864.9	506.3	275.3	170.5	146.5	132.6	121.2	112.4	122.5	121.2
80°	717.2	559.4	338.4	184.4	117.4	102.3	97.2	90.9	99.8	130.1	132.6
82.5°	438.1	354.8	202.0	120.0	77.0	68.2	63.1	63.1	102.3	112.4	113.6
85°	195.7	188.1	109.9	61.9	42.9	39.1	35.4	45.5	41.7	30.3	31.6
87.5°	31.6	32.8	24.0	21.5	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)