

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: P799733

Luminaire Tested: **ARCH2-50-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799733
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: ARCH2-50-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6771 lumens
Efficiency: N/A
Efficacy: 125.4 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

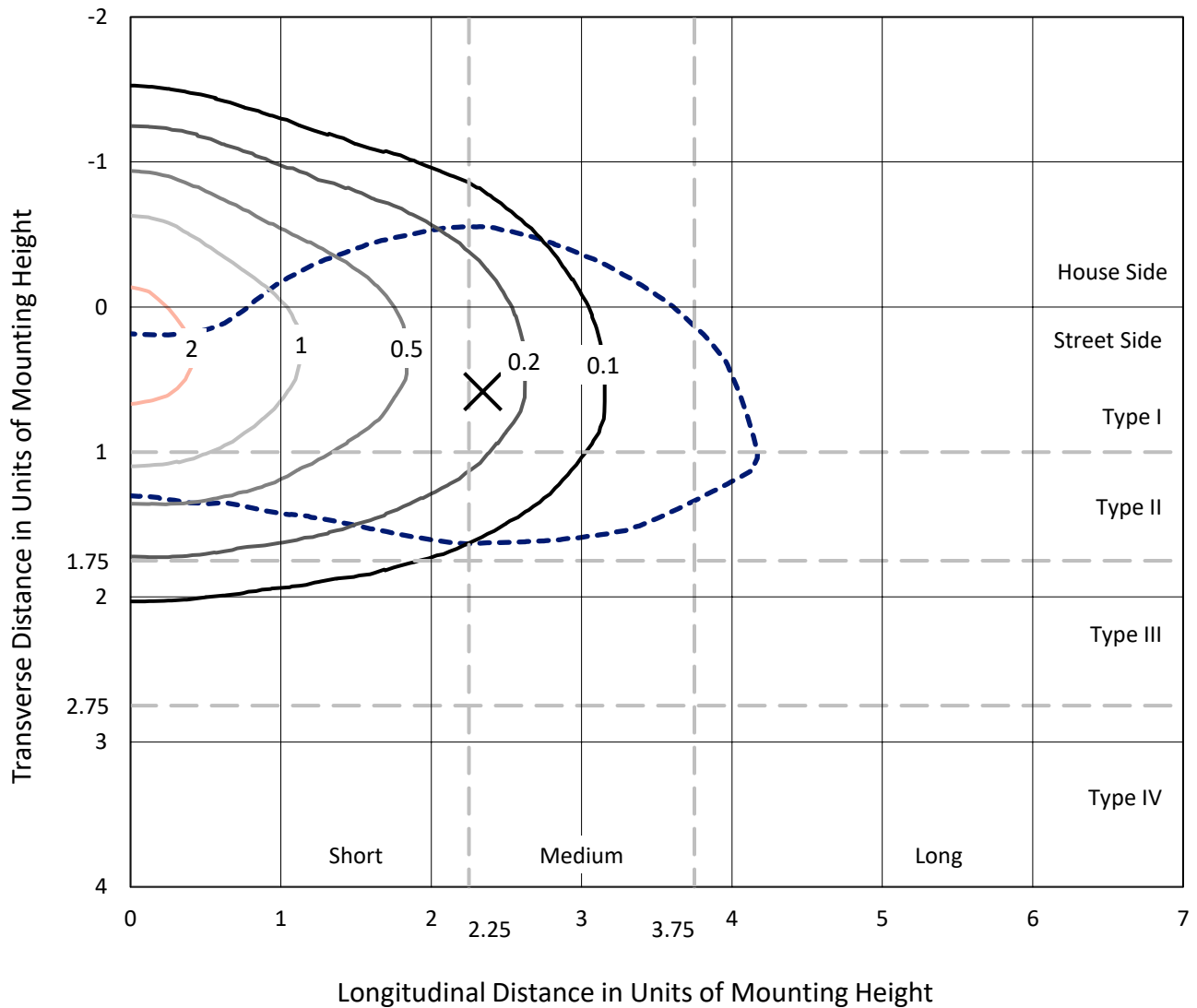
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

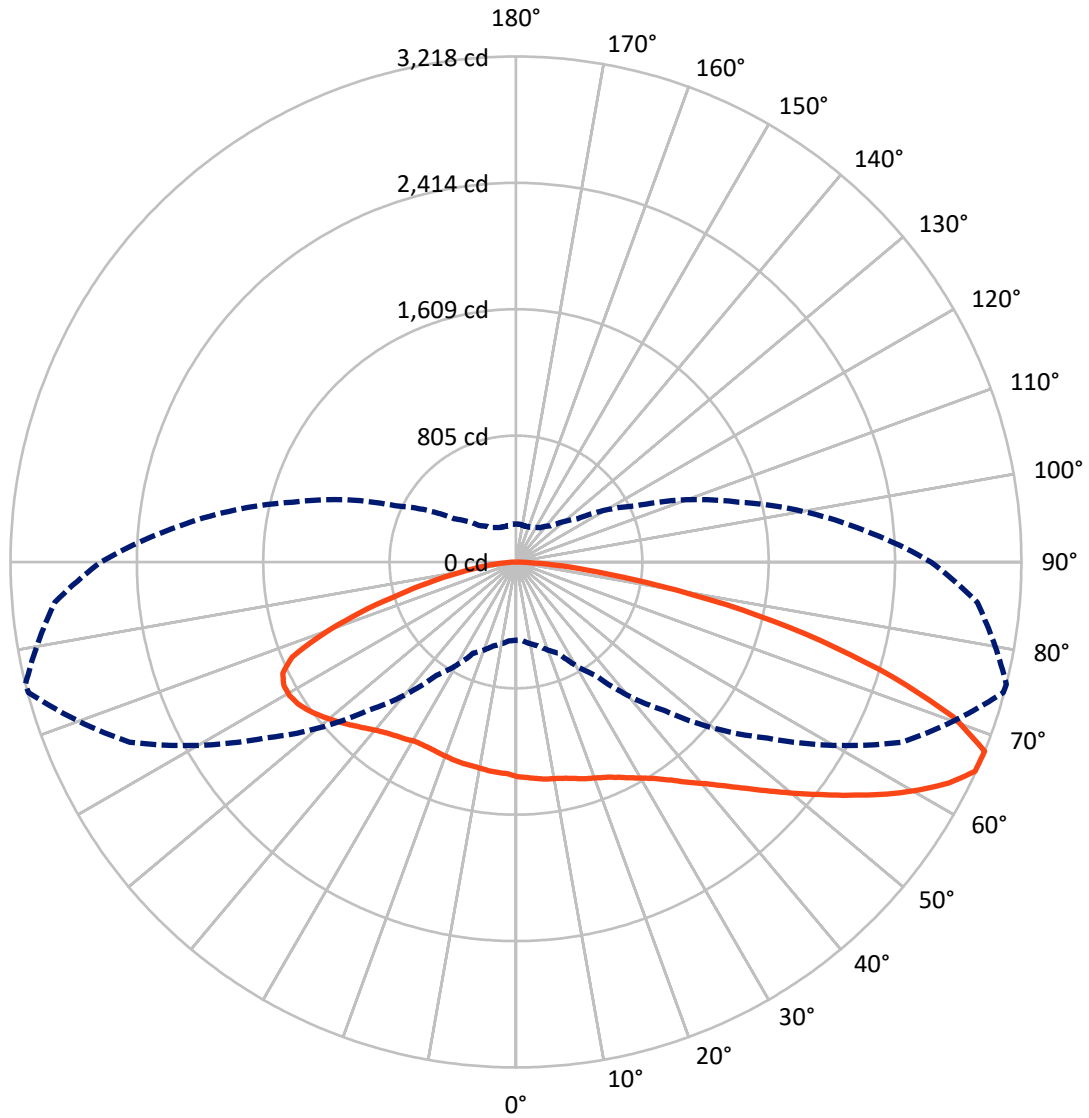
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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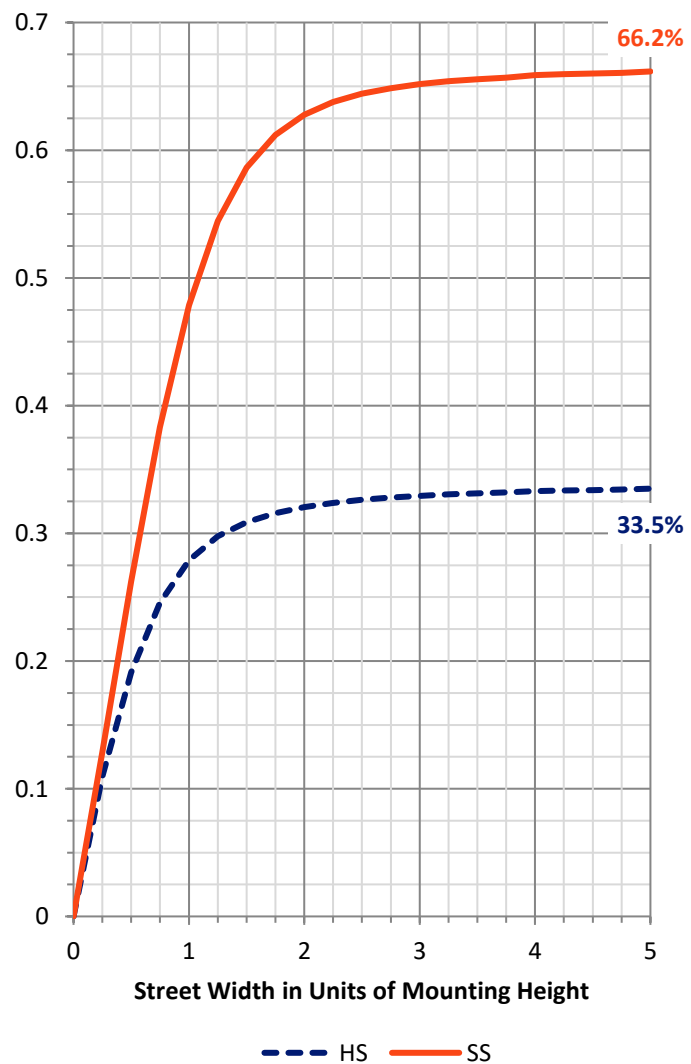
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.0	0.0	2288.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4483.0	0.0	4483.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	6771.0	0.0	6771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.9
10°-20°	403.2	6.0
20°-30°	685.1	10.1
30°-40°	974.7	14.4
40°-50°	1231.1	18.2
50°-60°	1332.8	19.7
60°-70°	1239.7	18.3
70°-80°	665.8	9.8
80°-90°	106.7	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°	6771.0	100.0
0°-180°	6771.0	100.0

Coefficient of Utilization



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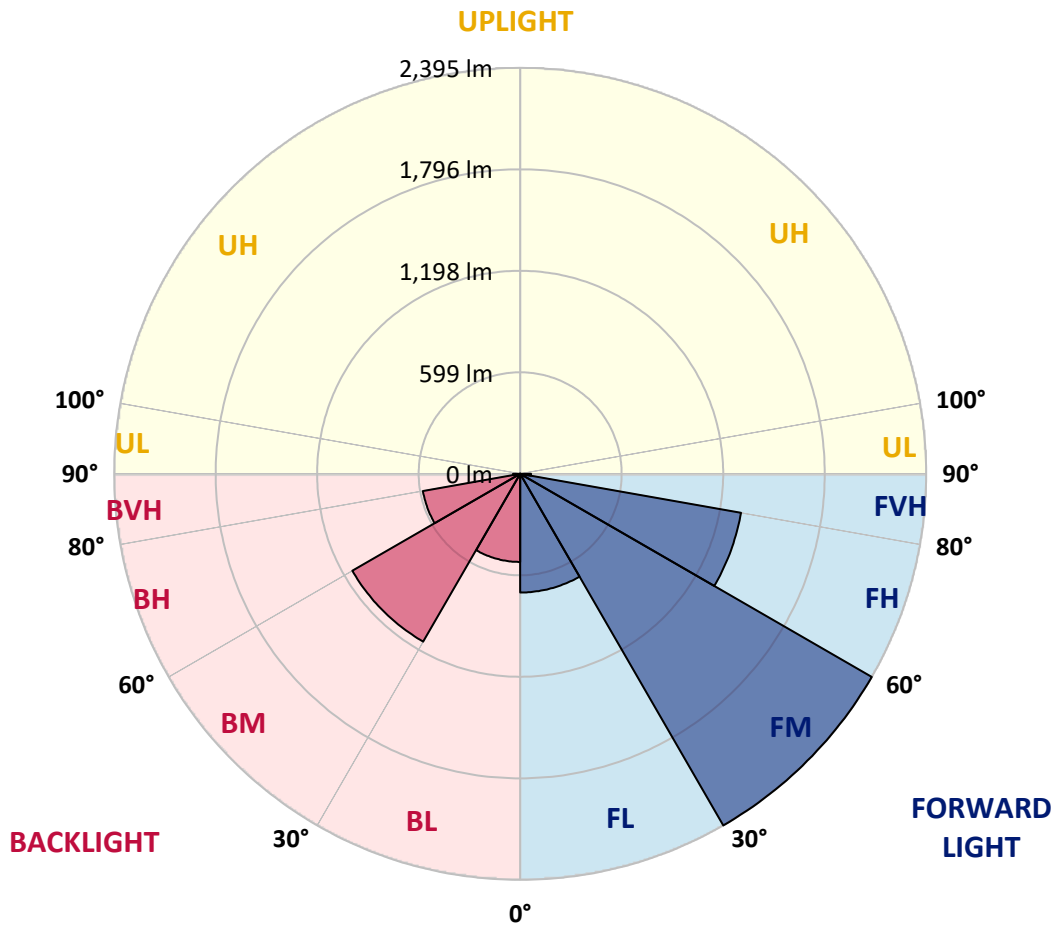
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.2	10.3			
FM (30°-60°)	2395.3	35.4			
FH (60°-80°)	1323.0	19.5			G1/1800
FVH (80°-90°)	64.5	1.0			G1/100
BL (0°-30°)	519.9	7.7	B2/1000		
BM (30°-60°)	1143.3	16.9	B2/2500		
BH (60°-80°)	582.5	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°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1409.2	1406.7	1396.6	1397.9	1397.9	1396.6	1381.6	1375.3	1375.3	1374.0	1360.2
5°	1459.5	1455.7	1444.4	1441.9	1436.9	1430.6	1406.7	1392.9	1386.6	1385.3	1366.5
7.5°	1518.6	1513.6	1499.7	1492.2	1479.6	1463.3	1433.1	1411.7	1396.6	1395.4	1369.0
10°	1577.7	1572.6	1556.3	1542.5	1524.9	1498.5	1459.5	1428.1	1404.2	1401.7	1370.2
12.5°	1648.1	1643.0	1622.9	1605.3	1578.9	1543.7	1492.2	1449.4	1416.8	1413.0	1374.0
15°	1722.2	1714.7	1694.6	1674.5	1641.8	1596.5	1534.9	1478.4	1436.9	1430.6	1385.3
17.5°	1783.8	1773.8	1757.4	1737.3	1700.9	1648.1	1577.7	1507.3	1455.7	1450.7	1396.6
20°	1836.6	1829.1	1811.5	1792.6	1753.7	1695.8	1617.9	1536.2	1473.3	1467.0	1405.4
22.5°	1886.9	1876.9	1866.8	1853.0	1810.2	1746.1	1664.4	1571.4	1496.0	1488.4	1416.8
25°	1944.7	1933.4	1929.7	1922.1	1871.8	1806.5	1721.0	1615.4	1527.4	1518.6	1436.9
27.5°	2016.4	2003.8	1996.3	1996.3	1935.9	1868.1	1781.3	1666.9	1563.8	1556.3	1462.0
30°	2091.8	2076.7	2065.4	2065.4	1997.5	1929.7	1840.4	1718.5	1605.3	1596.5	1494.7
32.5°	2158.4	2143.4	2130.8	2129.5	2059.1	1991.2	1902.0	1775.0	1655.6	1644.3	1534.9
35°	2210.0	2196.2	2184.8	2187.4	2120.7	2054.1	1971.1	1850.5	1718.5	1705.9	1587.7
37.5°	2241.4	2236.4	2230.1	2238.9	2177.3	2114.4	2042.8	1923.4	1790.1	1778.8	1653.1
40°	2257.8	2254.0	2279.1	2290.4	2225.1	2168.5	2114.4	1998.8	1868.1	1855.5	1728.5
42.5°	2281.6	2313.1	2323.1	2320.6	2260.3	2210.0	2179.8	2080.5	1959.8	1948.5	1819.0
45°	2196.2	2188.6	2243.9	2274.1	2262.8	2236.4	2241.4	2178.6	2066.7	2055.4	1923.4
47.5°	2081.8	2071.7	2103.1	2177.3	2221.3	2246.4	2296.7	2280.4	2189.9	2179.8	2045.3
50°	1840.4	1854.2	1971.1	2070.4	2157.2	2243.9	2343.2	2389.8	2325.6	2315.6	2176.0
52.5°	1572.6	1586.5	1708.4	1937.2	2079.2	2225.1	2377.2	2499.1	2472.7	2461.4	2315.6
55°	1377.8	1408.0	1546.2	1712.2	1968.6	2166.0	2397.3	2611.0	2631.1	2621.1	2467.7
57.5°	1184.2	1206.8	1311.2	1458.2	1817.8	2062.9	2396.0	2715.3	2797.1	2787.0	2622.3
60°	956.7	985.6	1068.5	1226.9	1616.6	1939.7	2360.8	2797.1	2956.7	2949.2	2771.9
62.5°	800.8	809.6	868.7	1005.7	1357.7	1783.8	2281.6	2841.1	3101.3	3096.2	2906.4
65°	644.9	646.2	700.2	814.6	1107.5	1590.2	2147.1	2824.7	3210.6	3213.2	3003.2
67.5°	497.8	504.1	553.1	639.9	880.0	1338.8	1954.8	2714.1	3211.9	3218.2	2947.9
70°	344.4	349.5	423.6	507.9	680.1	1067.3	1694.6	2421.2	2947.9	2952.9	2642.4
72.5°	242.6	245.1	324.3	406.0	531.8	804.5	1278.5	2002.6	2512.9	2516.7	2222.6
75°	181.0	183.5	228.8	308.0	407.3	556.9	873.7	1533.7	2007.6	2007.6	1754.9
77.5°	128.2	129.5	148.3	212.5	271.5	375.9	525.5	1004.4	1473.3	1475.8	1278.5
80°	86.7	88.0	96.8	143.3	169.7	203.7	285.4	526.7	929.0	932.8	812.1
82.5°	45.3	47.8	54.1	72.9	85.5	113.1	147.1	267.8	514.2	524.2	487.8
85°	17.6	17.6	20.1	23.9	31.4	44.0	67.9	101.8	232.6	240.1	215.0
87.5°	6.3	6.3	7.5	7.5	8.8	10.1	11.3	15.1	26.4	26.4	25.1
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°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1355.2	1355.2	1348.9	1351.4	1350.1	1347.6	1345.1	1348.9	1345.1	1336.3	1335.0
5°	1357.7	1355.2	1345.1	1343.8	1340.1	1335.0	1328.8	1331.3	1325.0	1317.4	1316.2
7.5°	1358.9	1353.9	1340.1	1335.0	1327.5	1317.4	1307.4	1307.4	1298.6	1291.0	1289.8
10°	1356.4	1350.1	1331.3	1321.2	1307.4	1292.3	1278.5	1274.7	1264.6	1255.8	1255.8
12.5°	1357.7	1348.9	1325.0	1308.6	1289.8	1270.9	1253.3	1248.3	1239.5	1230.7	1229.4
15°	1365.2	1352.6	1322.5	1301.1	1273.4	1252.1	1233.2	1229.4	1221.9	1215.6	1215.6
17.5°	1372.8	1356.4	1318.7	1288.5	1254.6	1230.7	1213.1	1213.1	1208.1	1204.3	1204.3
20°	1376.5	1357.7	1311.2	1270.9	1232.0	1206.8	1190.5	1193.0	1191.7	1190.5	1190.5
22.5°	1385.3	1360.2	1304.9	1254.6	1208.1	1181.7	1166.6	1170.4	1169.1	1169.1	1170.4
25°	1399.2	1366.5	1299.8	1239.5	1185.4	1156.5	1140.2	1142.7	1142.7	1142.7	1142.7
27.5°	1418.0	1379.0	1298.6	1225.7	1162.8	1130.1	1110.0	1110.0	1105.0	1106.2	1107.5
30°	1446.9	1402.9	1301.1	1213.1	1138.9	1097.5	1073.6	1069.8	1068.5	1071.1	1072.3
32.5°	1482.1	1435.6	1316.2	1204.3	1113.8	1061.0	1030.8	1029.6	1025.8	1025.8	1025.8
35°	1526.1	1467.0	1330.0	1203.0	1088.7	1022.0	989.3	985.6	976.8	973.0	973.0
37.5°	1582.7	1516.1	1346.4	1194.2	1067.3	984.3	945.3	932.8	922.7	921.5	921.5
40°	1651.8	1571.4	1370.2	1184.2	1044.7	945.3	893.8	872.4	873.7	878.7	878.7
42.5°	1733.5	1639.3	1400.4	1179.2	1012.0	905.1	833.5	808.3	817.1	822.1	823.4
45°	1829.1	1719.7	1434.4	1172.9	981.8	859.9	769.3	737.9	741.7	742.9	744.2
47.5°	1939.7	1809.0	1469.6	1167.8	947.9	803.3	698.9	657.5	656.2	648.7	651.2
50°	2055.4	1903.3	1506.0	1159.0	906.4	736.7	624.8	575.8	565.7	554.4	555.6
52.5°	2178.6	2000.0	1540.0	1145.2	854.8	668.8	554.4	501.6	481.5	468.9	471.4
55°	2314.3	2099.4	1572.6	1123.8	800.8	600.9	491.5	437.5	412.3	402.3	403.5
57.5°	2438.8	2194.9	1596.5	1097.5	741.7	539.3	436.2	383.4	367.1	365.8	367.1
60°	2559.5	2275.4	1606.6	1061.0	681.3	482.7	384.7	344.4	333.1	339.4	340.7
62.5°	2661.3	2326.9	1601.5	1012.0	619.8	428.7	343.2	314.3	306.7	319.3	320.6
65°	2720.4	2343.2	1566.3	941.6	553.1	375.9	304.2	272.8	269.0	276.6	280.3
67.5°	2642.4	2241.4	1470.8	844.8	479.0	326.8	266.5	241.4	235.1	241.4	241.4
70°	2342.0	1942.2	1244.5	691.4	397.2	279.1	231.3	213.7	208.7	213.7	212.5
72.5°	1951.0	1615.4	980.5	539.3	313.0	235.1	201.1	184.8	179.8	174.7	172.2
75°	1513.6	1226.9	711.5	396.0	236.3	188.6	168.5	153.4	140.8	145.8	143.3
77.5°	1108.8	861.1	504.1	274.0	169.7	145.8	132.0	120.7	111.9	121.9	120.7
80°	714.0	556.9	336.9	183.5	116.9	101.8	96.8	90.5	99.3	129.5	132.0
82.5°	436.2	353.2	201.1	119.4	76.7	67.9	62.9	62.9	101.8	111.9	113.1
85°	194.9	187.3	109.4	61.6	42.7	39.0	35.2	45.3	41.5	30.2	31.4
87.5°	31.4	32.7	23.9	21.4	16.3	16.3	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)