

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: P799813

Luminaire Tested: **ARCH2-50-750-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799813
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: ARCH2-50-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8126 lumens
Efficiency: N/A
Efficacy: 150.5 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



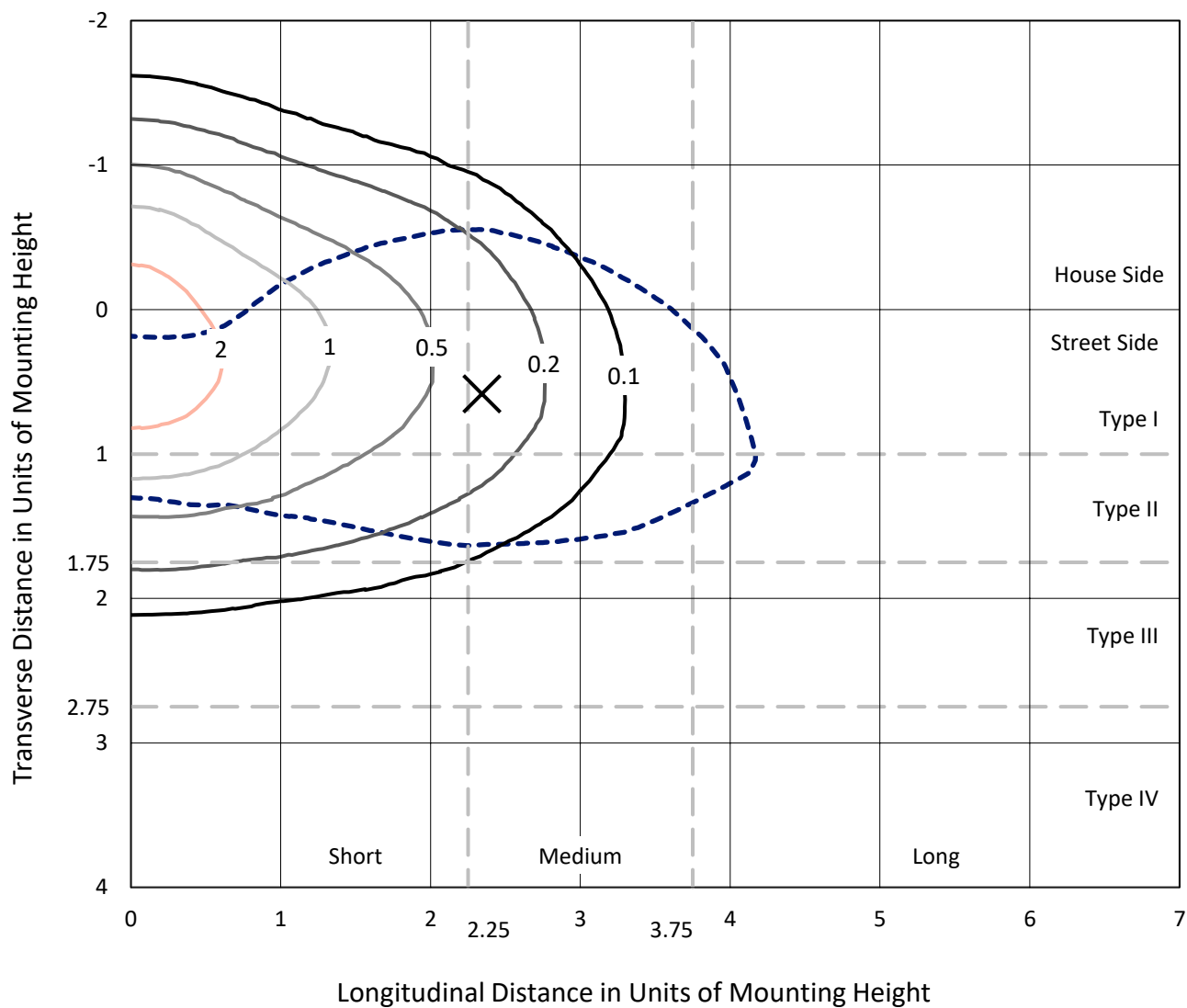
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Iso-Footcandle Lines of Horizontal Illumination

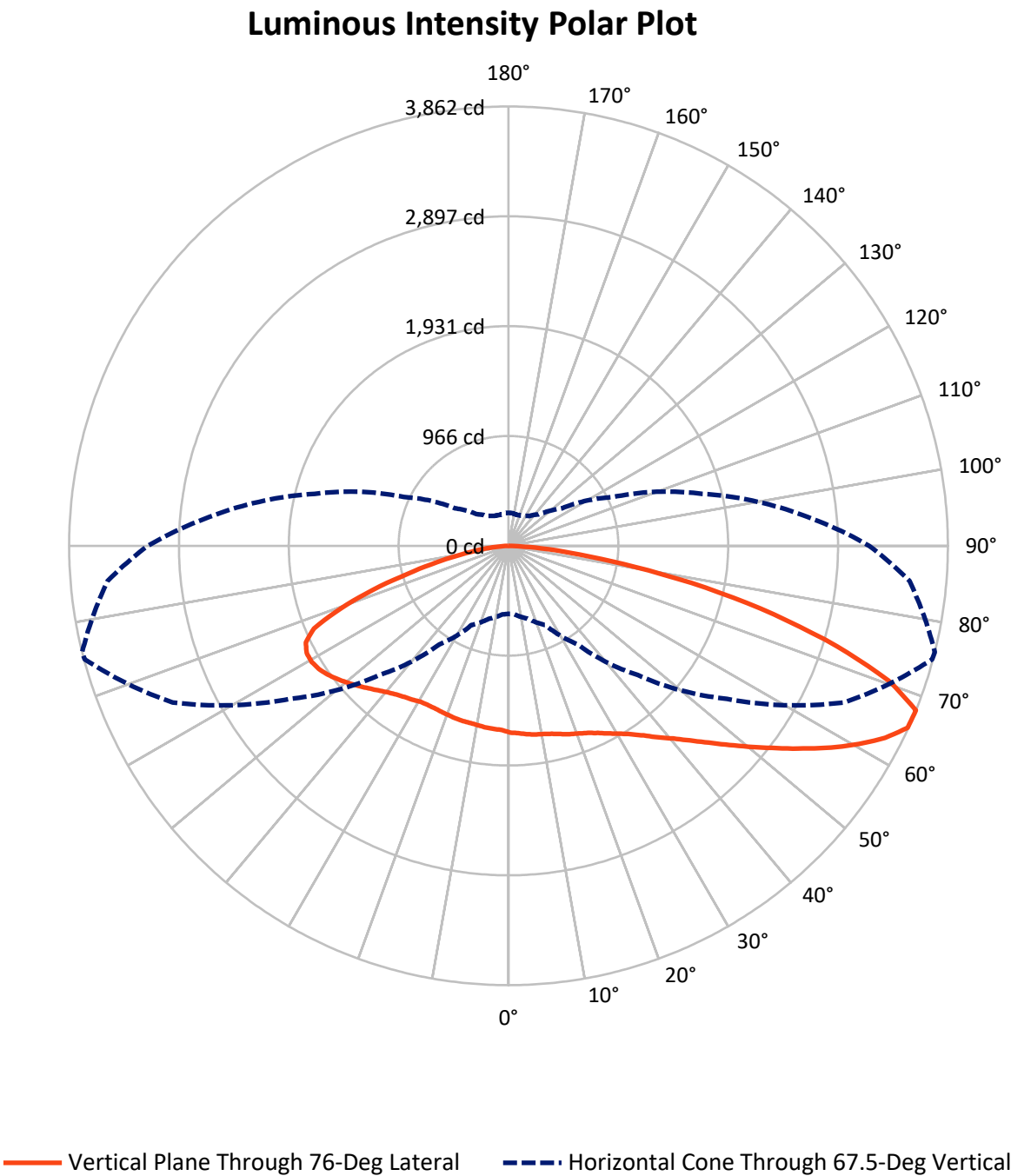
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type II - Medium - N/A

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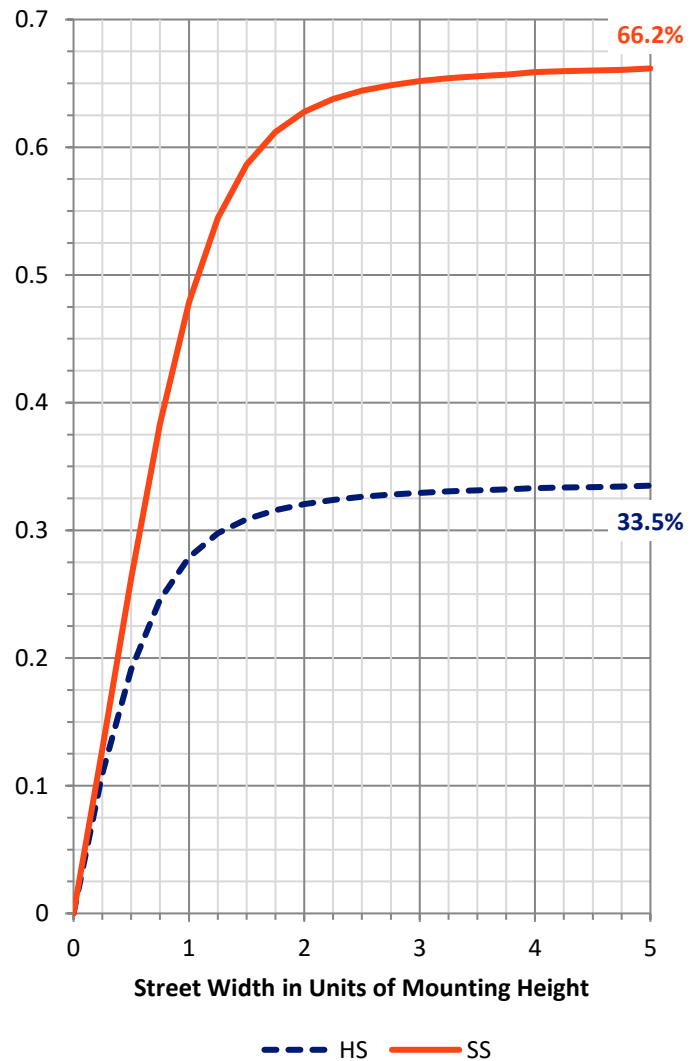
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2745.8	0.0	2745.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5380.2	0.0	5380.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	8126.0	0.0	8126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	1.9
10°-20°	483.9	6.0
20°-30°	822.1	10.1
30°-40°	1169.8	14.4
40°-50°	1477.4	18.2
50°-60°	1599.6	19.7
60°-70°	1487.8	18.3
70°-80°	799.1	9.8
80°-90°	128.0	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°	8126.0	100.0
0°-180°	8126.0	100.0

Coefficient of Utilization



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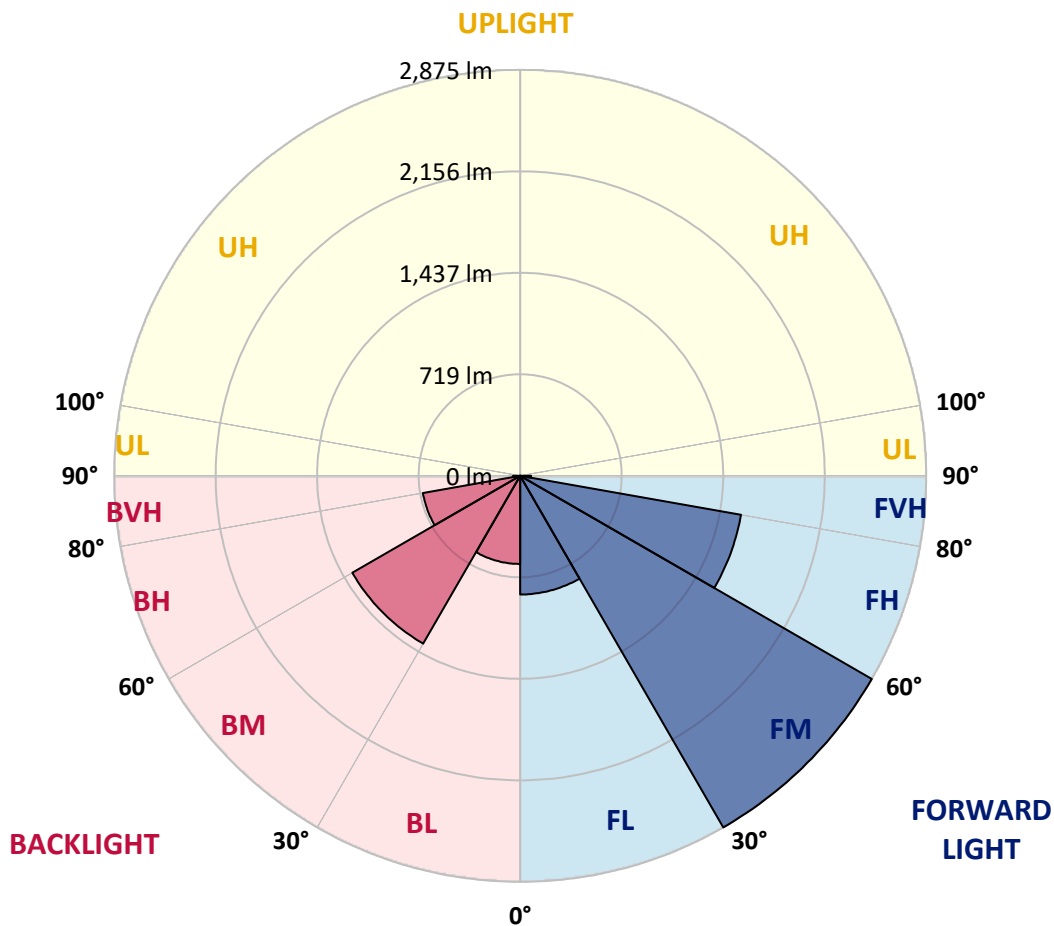
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.3	10.3			
FM	(30°-60°)	2874.7	35.4			
FH	(60°-80°)	1587.7	19.5			G1/1800
FVH	(80°-90°)	77.5	1.0			G1/100
BL	(0°-30°)	624.0	7.7	B2/1000		
BM	(30°-60°)	1372.1	16.9	B2/2500		
BH	(60°-80°)	699.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	50.6	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°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1691.2	1688.2	1676.1	1677.6	1677.6	1676.1	1658.0	1650.5	1650.5	1649.0	1632.4
5°	1751.6	1747.0	1733.5	1730.4	1724.4	1716.9	1688.2	1671.6	1664.1	1662.6	1639.9
7.5°	1822.5	1816.4	1799.8	1790.8	1775.7	1756.1	1719.9	1694.2	1676.1	1674.6	1642.9
10°	1893.4	1887.3	1867.7	1851.1	1830.0	1798.3	1751.6	1713.9	1685.2	1682.2	1644.5
12.5°	1977.9	1971.8	1947.7	1926.6	1894.9	1852.6	1790.8	1739.5	1700.3	1695.7	1649.0
15°	2066.9	2057.8	2033.7	2009.5	1970.3	1916.0	1842.1	1774.2	1724.4	1716.9	1662.6
17.5°	2140.8	2128.7	2109.1	2085.0	2041.2	1977.9	1893.4	1808.9	1747.0	1741.0	1676.1
20°	2204.2	2195.1	2174.0	2151.4	2104.6	2035.2	1941.7	1843.6	1768.2	1760.6	1686.7
22.5°	2264.5	2252.4	2240.4	2223.8	2172.5	2095.5	1997.5	1885.8	1795.3	1786.3	1700.3
25°	2333.9	2320.3	2315.8	2306.8	2246.4	2168.0	2065.4	1938.6	1833.0	1822.5	1724.4
27.5°	2419.9	2404.8	2395.8	2395.8	2323.4	2241.9	2137.8	2000.5	1876.8	1867.7	1754.6
30°	2510.4	2492.3	2478.7	2478.7	2397.3	2315.8	2208.7	2062.4	1926.6	1916.0	1793.8
32.5°	2590.4	2572.3	2557.2	2555.7	2471.2	2389.7	2282.6	2130.2	1986.9	1973.3	1842.1
35°	2652.2	2635.6	2622.1	2625.1	2545.1	2465.2	2365.6	2220.8	2062.4	2047.3	1905.5
37.5°	2690.0	2683.9	2676.4	2686.9	2613.0	2537.6	2451.6	2308.3	2148.3	2134.8	1983.9
40°	2709.6	2705.0	2735.2	2748.8	2670.3	2602.5	2537.6	2398.8	2241.9	2226.8	2074.4
42.5°	2738.2	2776.0	2788.0	2785.0	2712.6	2652.2	2616.0	2496.9	2352.0	2338.4	2183.0
45°	2635.6	2626.6	2693.0	2729.2	2715.6	2683.9	2690.0	2614.5	2480.3	2466.7	2308.3
47.5°	2498.4	2486.3	2524.0	2613.0	2665.8	2696.0	2756.3	2736.7	2628.1	2616.0	2454.6
50°	2208.7	2225.3	2365.6	2484.8	2588.9	2693.0	2812.2	2868.0	2791.0	2779.0	2611.5
52.5°	1887.3	1903.9	2050.3	2324.9	2495.3	2670.3	2852.9	2999.2	2967.6	2954.0	2779.0
55°	1653.5	1689.7	1855.7	2054.8	2362.6	2599.4	2877.0	3133.5	3157.6	3145.6	2961.5
57.5°	1421.2	1448.3	1573.5	1750.1	2181.5	2475.7	2875.5	3258.7	3356.8	3344.7	3147.1
60°	1148.1	1182.8	1282.4	1472.5	1940.2	2327.9	2833.3	3356.8	3548.4	3539.3	3326.6
62.5°	961.0	971.6	1042.5	1206.9	1629.4	2140.8	2738.2	3409.6	3721.9	3715.9	3488.0
65°	773.9	775.5	840.3	977.6	1329.1	1908.5	2576.8	3390.0	3853.1	3856.2	3604.2
67.5°	597.4	605.0	663.8	767.9	1056.1	1606.7	2346.0	3257.2	3854.7	3862.2	3537.8
70°	413.4	419.4	508.4	609.5	816.2	1280.9	2033.7	2905.7	3537.8	3543.9	3171.2
72.5°	291.2	294.2	389.2	487.3	638.2	965.5	1534.3	2403.3	3015.8	3020.4	2667.3
75°	217.2	220.3	274.6	369.6	488.8	668.3	1048.5	1840.6	2409.3	2409.3	2106.1
77.5°	153.9	155.4	178.0	255.0	325.9	451.1	630.6	1205.4	1768.2	1771.2	1534.3
80°	104.1	105.6	116.2	172.0	203.7	244.4	342.5	632.1	1114.9	1119.4	974.6
82.5°	54.3	57.3	64.9	87.5	102.6	135.8	176.5	321.3	617.0	629.1	585.4
85°	21.1	21.1	24.1	28.7	37.7	52.8	81.5	122.2	279.1	288.2	258.0
87.5°	7.5	7.5	9.1	9.1	10.6	12.1	13.6	18.1	31.7	31.7	30.2
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°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1626.3	1626.3	1618.8	1621.8	1620.3	1617.3	1614.3	1618.8	1614.3	1603.7	1602.2
5°	1629.4	1626.3	1614.3	1612.8	1608.2	1602.2	1594.7	1597.7	1590.1	1581.1	1579.6
7.5°	1630.9	1624.8	1608.2	1602.2	1593.2	1581.1	1569.0	1569.0	1558.5	1549.4	1547.9
10°	1627.9	1620.3	1597.7	1585.6	1569.0	1550.9	1534.3	1529.8	1517.7	1507.2	1507.2
12.5°	1629.4	1618.8	1590.1	1570.5	1547.9	1525.3	1504.1	1498.1	1487.5	1477.0	1475.5
15°	1638.4	1623.3	1587.1	1561.5	1528.3	1502.6	1480.0	1475.5	1466.4	1458.9	1458.9
17.5°	1647.5	1627.9	1582.6	1546.4	1505.7	1477.0	1455.9	1455.9	1449.8	1445.3	1445.3
20°	1652.0	1629.4	1573.5	1525.3	1478.5	1448.3	1428.7	1431.7	1430.2	1428.7	1428.7
22.5°	1662.6	1632.4	1566.0	1505.7	1449.8	1418.2	1400.0	1404.6	1403.1	1403.1	1404.6
25°	1679.2	1639.9	1560.0	1487.5	1422.7	1388.0	1368.4	1371.4	1371.4	1371.4	1371.4
27.5°	1701.8	1655.0	1558.5	1471.0	1395.5	1356.3	1332.2	1332.2	1326.1	1327.6	1329.1
30°	1736.5	1683.7	1561.5	1455.9	1366.9	1317.1	1288.4	1283.9	1282.4	1285.4	1286.9
32.5°	1778.7	1722.9	1579.6	1445.3	1336.7	1273.3	1237.1	1235.6	1231.1	1231.1	1231.1
35°	1831.5	1760.6	1596.2	1443.8	1306.5	1226.5	1187.3	1182.8	1172.2	1167.7	1167.7
37.5°	1899.4	1819.5	1615.8	1433.2	1280.9	1181.3	1134.5	1119.4	1107.4	1105.9	1105.9
40°	1982.4	1885.8	1644.5	1421.2	1253.7	1134.5	1072.7	1047.0	1048.5	1054.6	1054.6
42.5°	2080.5	1967.3	1680.7	1415.1	1214.5	1086.2	1000.2	970.1	980.6	986.7	988.2
45°	2195.1	2063.9	1721.4	1407.6	1178.3	1031.9	923.3	885.6	890.1	891.6	893.1
47.5°	2327.9	2171.0	1763.6	1401.6	1137.5	964.0	838.8	789.0	787.5	778.5	781.5
50°	2466.7	2284.1	1807.4	1391.0	1087.8	884.1	749.8	691.0	678.9	665.3	666.8
52.5°	2614.5	2400.3	1848.1	1374.4	1025.9	802.6	665.3	602.0	577.8	562.7	565.8
55°	2777.5	2519.5	1887.3	1348.8	961.0	721.1	589.9	525.0	494.8	482.8	484.3
57.5°	2926.8	2634.1	1916.0	1317.1	890.1	647.2	523.5	460.1	440.5	439.0	440.5
60°	3071.7	2730.7	1928.1	1273.3	817.7	579.3	461.7	413.4	399.8	407.3	408.8
62.5°	3193.9	2792.6	1922.0	1214.5	743.8	514.5	411.9	377.2	368.1	383.2	384.7
65°	3264.8	2812.2	1879.8	1130.0	663.8	451.1	365.1	327.4	322.9	331.9	336.4
67.5°	3171.2	2690.0	1765.1	1013.8	574.8	392.3	319.8	289.7	282.1	289.7	289.7
70°	2810.7	2330.9	1493.6	829.8	476.7	334.9	277.6	256.5	250.4	256.5	255.0
72.5°	2341.5	1938.6	1176.8	647.2	375.7	282.1	241.4	221.8	215.7	209.7	206.7
75°	1816.4	1472.5	853.9	475.2	283.6	226.3	202.2	184.1	169.0	175.0	172.0
77.5°	1330.6	1033.4	605.0	328.9	203.7	175.0	158.4	144.8	134.3	146.3	144.8
80°	856.9	668.3	404.3	220.3	140.3	122.2	116.2	108.6	119.2	155.4	158.4
82.5°	523.5	423.9	241.4	143.3	92.0	81.5	75.4	75.4	122.2	134.3	135.8
85°	233.8	224.8	131.3	73.9	51.3	46.8	42.2	54.3	49.8	36.2	37.7
87.5°	37.7	39.2	28.7	25.6	19.6	19.6	15.1	10.6	7.5	4.5	4.5
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)