

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: P842374

Luminaire Tested: **ARCH4-40-722-U-T3**

Issue Date: 5/27/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P842374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-40-722-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6696 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

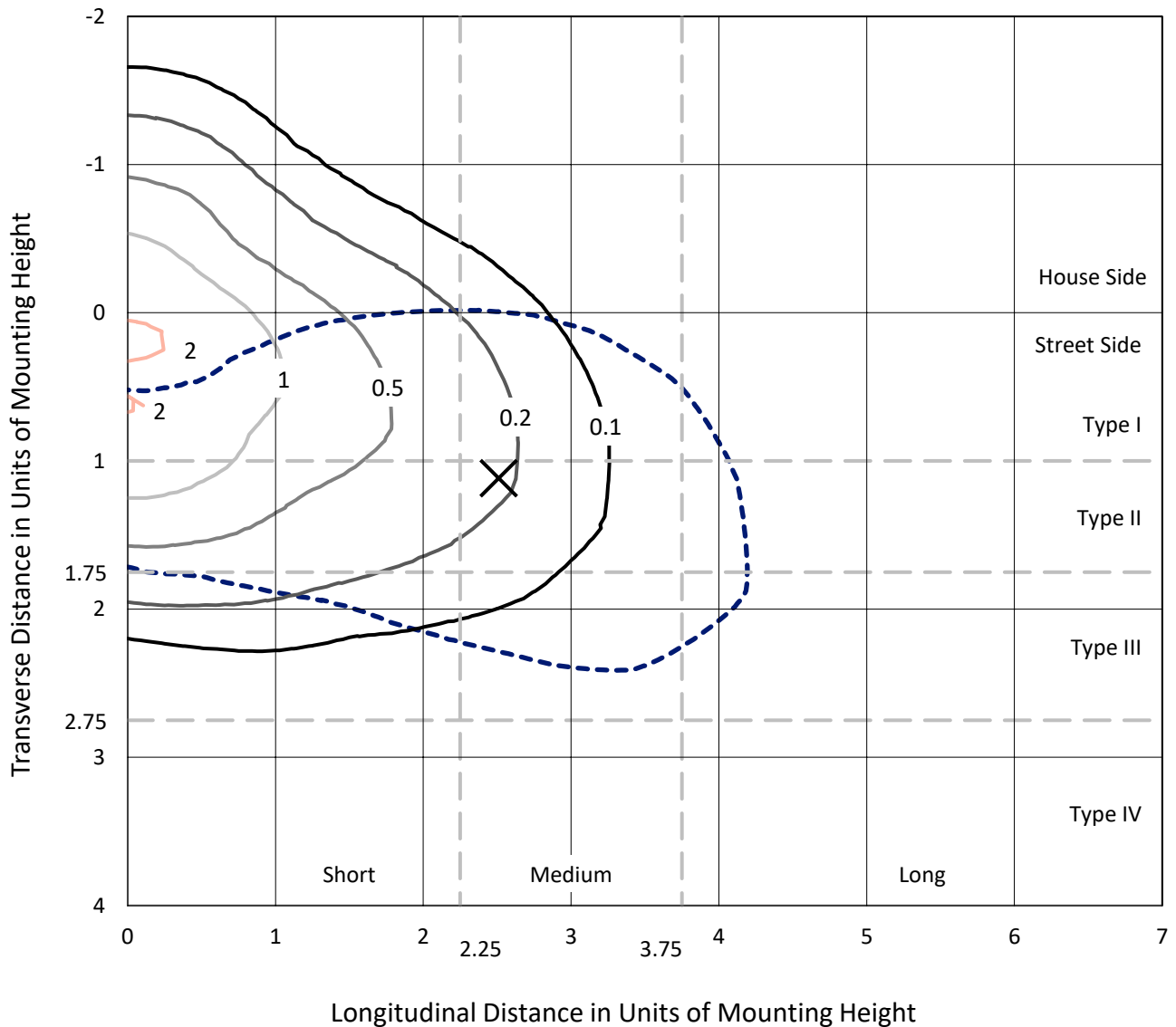
Input Watts (W): 43.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P842374  
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### Iso-Footcandle Lines of Horizontal Illumination

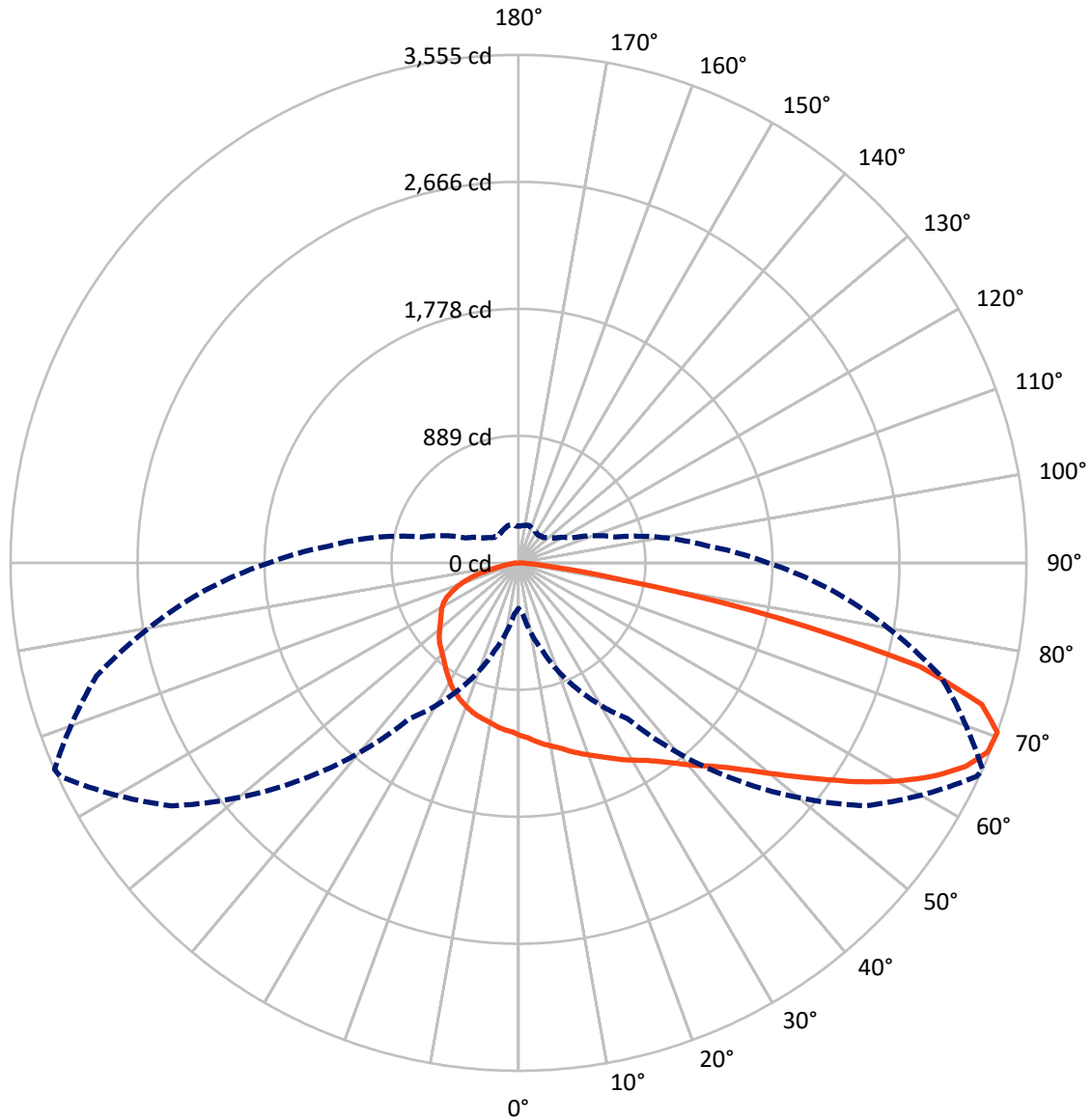
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: ARCH4-40-722-U-T3

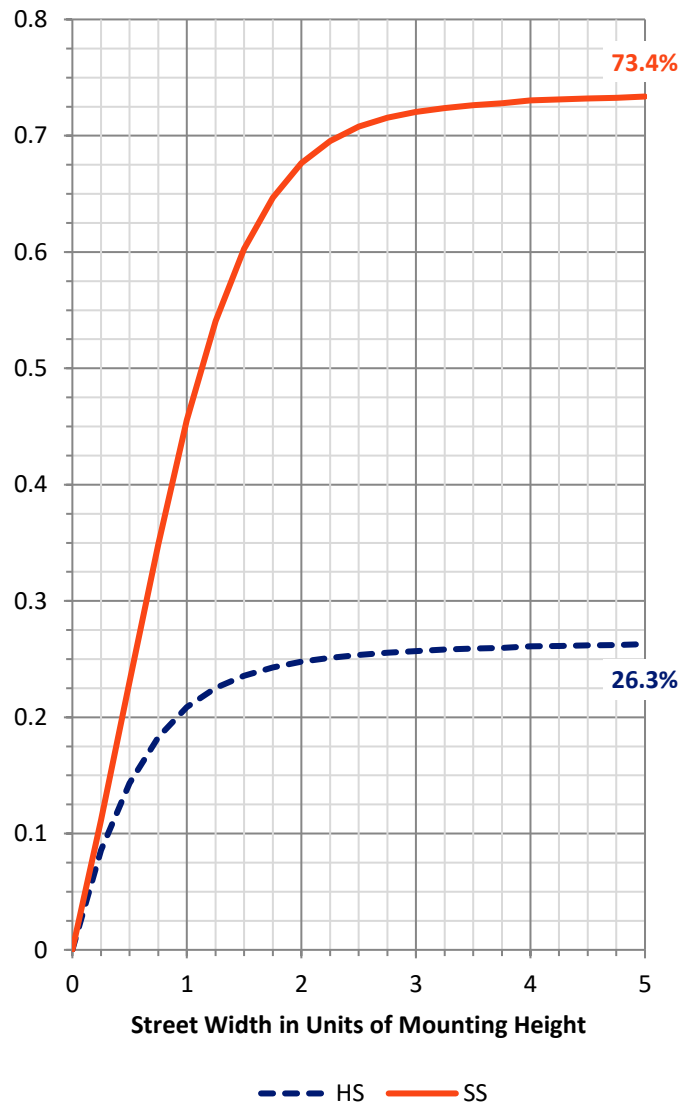
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1774.3	0.0	1774.3
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	4921.7	0.0	4921.7
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	6696.0	0.0	6696.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	1.7
10°-20°	348.3	5.2
20°-30°	583.9	8.7
30°-40°	874.3	13.1
40°-50°	1168.9	17.5
50°-60°	1364.8	20.4
60°-70°	1357.1	20.3
70°-80°	803.4	12.0
80°-90°	79.2	1.2
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°	6696.0	100.0
0°-180°	6696.0	100.0

**Coefficient of Utilization**

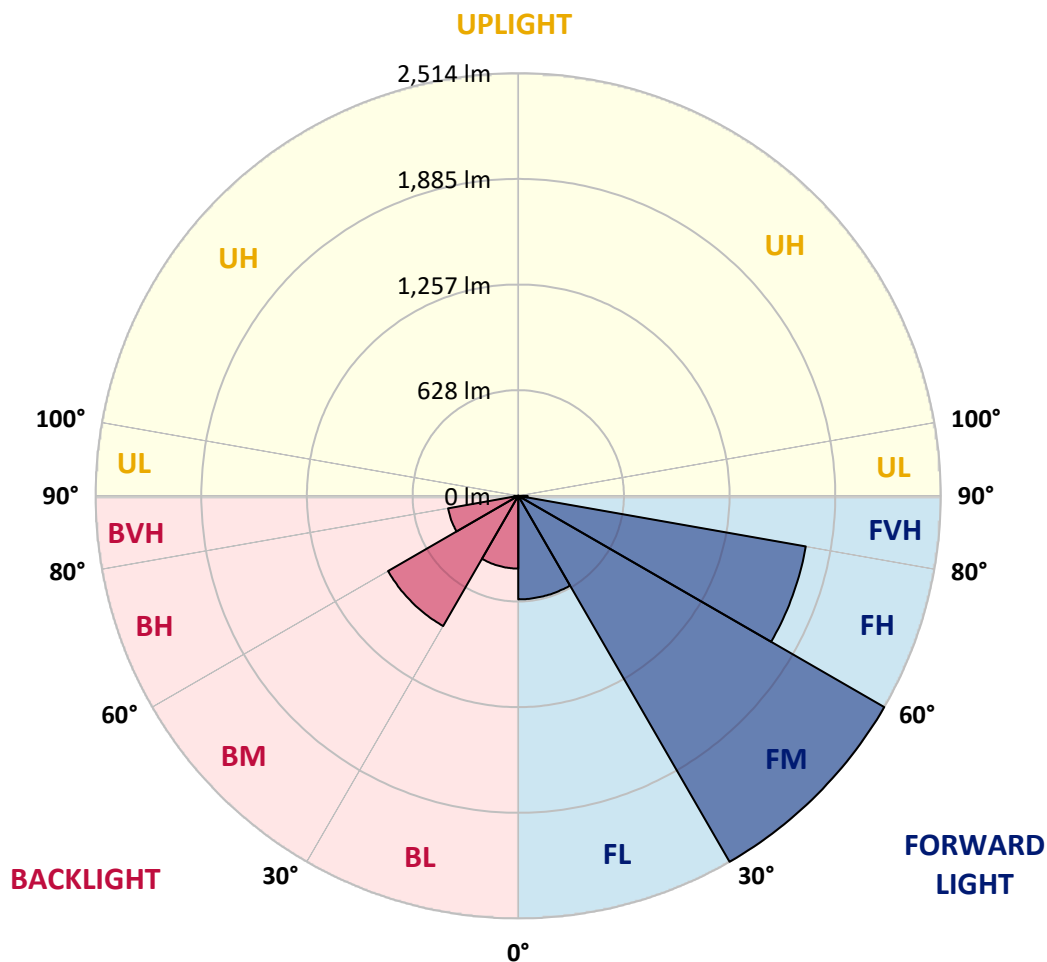


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 CATALOG NUMBER: ARCH4-40-722-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.9	9.2			
FM (30°-60°)	2513.6	37.5			
FH (60°-80°)	1736.6	25.9			G1/1800
FVH (80°-90°)	55.7	0.8			G1/100
BL (0°-30°)	432.5	6.5	B1/500		
BM (30°-60°)	894.4	13.4	B1/1000		
BH (60°-80°)	423.8	6.3	B1/500		G1/500
BVH (80°-90°)	23.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1252.9	1250.9	1249.9	1246.0	1237.1	1241.1	1232.2	1226.2	1225.3	1211.4	1203.5
5°	1304.2	1303.3	1301.3	1295.4	1281.5	1283.5	1268.7	1257.8	1254.9	1233.2	1216.4
7.5°	1347.7	1345.7	1344.7	1336.8	1322.0	1321.0	1303.3	1287.5	1282.5	1252.9	1227.2
10°	1381.3	1378.3	1380.3	1372.4	1356.6	1353.6	1330.9	1310.2	1305.2	1267.7	1232.2
12.5°	1409.9	1407.9	1410.9	1404.0	1391.1	1388.2	1365.5	1338.8	1332.9	1289.4	1243.0
15°	1441.5	1434.6	1440.5	1437.5	1428.6	1427.7	1406.9	1377.3	1369.4	1317.1	1259.8
17.5°	1458.3	1454.3	1461.2	1462.2	1458.3	1465.2	1445.4	1409.9	1403.0	1342.8	1274.6
20°	1470.1	1464.2	1472.1	1478.0	1481.0	1494.8	1479.0	1444.4	1436.5	1367.4	1288.4
22.5°	1510.6	1497.8	1498.7	1502.7	1504.7	1524.4	1514.5	1481.0	1473.1	1398.0	1305.2
25°	1612.3	1586.6	1569.8	1558.0	1544.2	1560.9	1555.0	1522.4	1515.5	1434.6	1326.0
27.5°	1770.3	1737.7	1704.1	1669.6	1615.2	1608.3	1598.5	1568.8	1560.9	1471.1	1346.7
30°	1950.0	1917.4	1877.9	1822.6	1720.9	1667.6	1644.9	1612.3	1603.4	1503.7	1366.4
32.5°	2128.7	2100.0	2060.5	1993.4	1848.3	1739.7	1691.3	1657.7	1648.8	1539.2	1390.1
35°	2267.9	2250.1	2224.4	2140.5	1974.6	1824.6	1758.4	1717.9	1708.1	1595.5	1433.6
37.5°	2380.4	2367.6	2345.9	2258.0	2066.5	1909.5	1835.4	1789.0	1778.2	1656.7	1480.0
40°	2546.3	2512.7	2494.9	2367.6	2146.4	1986.5	1922.3	1873.9	1862.1	1721.9	1517.5
42.5°	2687.5	2662.8	2641.1	2465.3	2222.4	2052.6	2004.3	1959.8	1944.0	1786.1	1558.0
45°	2711.2	2721.0	2710.2	2513.7	2342.9	2117.8	2087.2	2058.6	2043.7	1872.9	1619.2
47.5°	2712.2	2712.2	2648.0	2541.4	2492.0	2190.9	2176.0	2185.9	2170.1	1983.5	1692.3
50°	2641.1	2653.9	2620.3	2548.3	2531.5	2263.9	2284.7	2338.0	2322.2	2101.0	1771.2
52.5°	2494.0	2536.4	2535.4	2537.4	2474.2	2326.1	2399.2	2520.6	2494.0	2233.3	1855.2
55°	2234.3	2319.2	2395.2	2460.4	2424.8	2363.6	2539.4	2715.1	2687.5	2381.4	1940.1
57.5°	2012.2	2066.5	2161.2	2345.9	2366.6	2396.2	2670.7	2918.5	2893.8	2545.3	2028.9
60°	1758.4	1833.4	1928.2	2190.9	2295.5	2438.7	2814.8	3117.0	3093.3	2711.2	2114.8
62.5°	1368.4	1465.2	1654.7	1952.9	2191.8	2465.3	2928.4	3291.7	3280.9	2868.2	2191.8
65°	953.7	1039.6	1305.2	1660.7	2027.0	2453.5	3019.2	3447.7	3437.8	2996.5	2246.1
67.5°	556.8	656.6	956.7	1336.8	1735.7	2371.5	3048.8	3539.5	3539.5	3074.5	2261.0
70°	317.9	364.3	630.9	974.5	1330.9	2145.4	2965.9	3538.5	3555.3	3056.7	2199.7
72.5°	222.1	242.9	424.5	655.6	902.4	1735.7	2748.7	3367.7	3390.4	2888.9	1990.4
75°	172.8	187.6	299.2	447.3	568.7	1178.9	2273.8	2839.5	2899.7	2462.4	1609.3
77.5°	131.3	142.2	174.8	279.4	364.3	677.3	1500.7	1862.1	1866.0	1507.6	862.9
80°	95.8	106.6	116.5	170.8	193.5	316.9	566.7	778.0	756.3	729.6	467.0
82.5°	57.3	68.1	71.1	92.8	94.8	135.3	198.5	250.8	240.9	320.9	219.2
85°	24.7	34.6	36.5	42.5	40.5	55.3	79.0	66.2	59.2	68.1	47.4
87.5°	5.9	9.9	9.9	10.9	8.9	13.8	14.8	10.9	9.9	11.8	11.8
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: P842374  
 CATALOG NUMBER: ARCH4-40-722-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1201.6	1198.6	1199.6	1182.8	1177.9	1172.9	1170.0	1168.0	1166.0	1169.0	1171.9
5°	1210.5	1203.5	1195.6	1171.0	1161.1	1150.2	1142.3	1135.4	1132.5	1132.5	1135.4
7.5°	1217.4	1205.5	1188.7	1156.1	1138.4	1123.6	1110.7	1101.8	1096.9	1096.9	1099.9
10°	1218.3	1201.6	1174.9	1135.4	1111.7	1090.0	1075.2	1065.3	1058.4	1058.4	1060.4
12.5°	1224.3	1201.6	1167.0	1119.6	1090.0	1063.3	1045.6	1030.8	1027.8	1027.8	1029.8
15°	1234.1	1206.5	1162.1	1105.8	1070.3	1039.6	1019.9	1004.1	998.2	1002.1	1003.1
17.5°	1243.0	1209.5	1153.2	1088.0	1045.6	1012.0	990.3	976.5	968.6	977.4	977.4
20°	1249.0	1209.5	1140.4	1065.3	1018.9	981.4	960.7	943.9	938.0	948.8	949.8
22.5°	1257.8	1208.5	1126.5	1042.6	990.3	950.8	930.1	917.2	914.3	926.1	930.1
25°	1267.7	1210.5	1111.7	1016.9	958.7	920.2	904.4	898.5	900.4	915.2	920.2
27.5°	1278.6	1214.4	1096.9	988.3	924.1	889.6	880.7	883.6	891.5	910.3	916.2
30°	1288.4	1215.4	1076.2	954.7	884.6	852.1	856.0	868.8	880.7	899.4	906.4
32.5°	1301.3	1216.4	1054.5	918.2	842.2	818.5	836.3	857.0	868.8	886.6	894.5
35°	1332.9	1233.2	1037.7	882.7	802.7	789.9	819.5	846.1	853.0	868.8	875.7
37.5°	1369.4	1260.8	1028.8	846.1	764.2	761.2	798.7	825.4	827.4	837.2	844.2
40°	1392.1	1272.7	1018.9	815.5	729.6	731.6	770.1	790.8	786.9	793.8	798.7
42.5°	1414.8	1276.6	998.2	789.9	697.0	699.0	728.6	743.4	745.4	760.2	767.1
45°	1453.3	1287.5	975.5	766.2	667.4	660.5	678.3	698.0	723.7	752.3	760.2
47.5°	1504.7	1310.2	951.8	737.5	638.8	616.1	623.0	657.6	684.2	710.9	715.8
50°	1557.0	1332.9	930.1	703.0	610.2	568.7	571.7	603.3	625.0	645.7	648.7
52.5°	1608.3	1352.6	911.3	670.4	577.6	512.4	524.3	556.8	571.7	581.5	584.5
55°	1659.7	1369.4	894.5	642.7	540.1	468.0	478.8	509.5	524.3	529.2	531.2
57.5°	1713.0	1389.2	881.7	619.0	497.6	428.5	435.4	457.1	471.0	476.9	474.9
60°	1757.4	1405.9	874.8	594.4	455.2	392.0	390.0	409.7	429.5	435.4	433.4
62.5°	1792.0	1416.8	863.9	562.8	417.6	355.4	345.6	371.2	392.0	395.9	398.9
65°	1810.7	1417.8	837.2	522.3	379.1	315.9	309.0	334.7	347.5	351.5	351.5
67.5°	1807.8	1402.0	784.9	468.0	343.6	280.4	274.5	290.3	309.0	312.0	309.0
70°	1746.6	1336.8	701.0	410.7	301.1	248.8	237.9	253.7	271.5	260.7	255.7
72.5°	1572.8	1168.0	577.6	347.5	253.7	209.3	204.4	220.2	221.2	223.1	218.2
75°	1241.1	869.8	432.4	270.5	205.4	175.7	174.8	171.8	175.7	183.6	177.7
77.5°	651.6	434.4	234.0	165.9	149.1	141.2	134.3	133.3	145.1	150.1	144.1
80°	353.5	243.9	134.3	99.7	90.8	91.8	100.7	98.7	111.6	114.5	109.6
82.5°	154.0	115.5	66.2	60.2	60.2	59.2	62.2	69.1	82.9	82.9	66.2
85°	33.6	28.6	25.7	29.6	33.6	33.6	33.6	33.6	23.7	12.8	8.9
87.5°	10.9	10.9	10.9	11.8	12.8	12.8	10.9	7.9	4.9	1.0	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)