

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: P799113

Luminaire Tested: **ARCH1-60-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6546 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

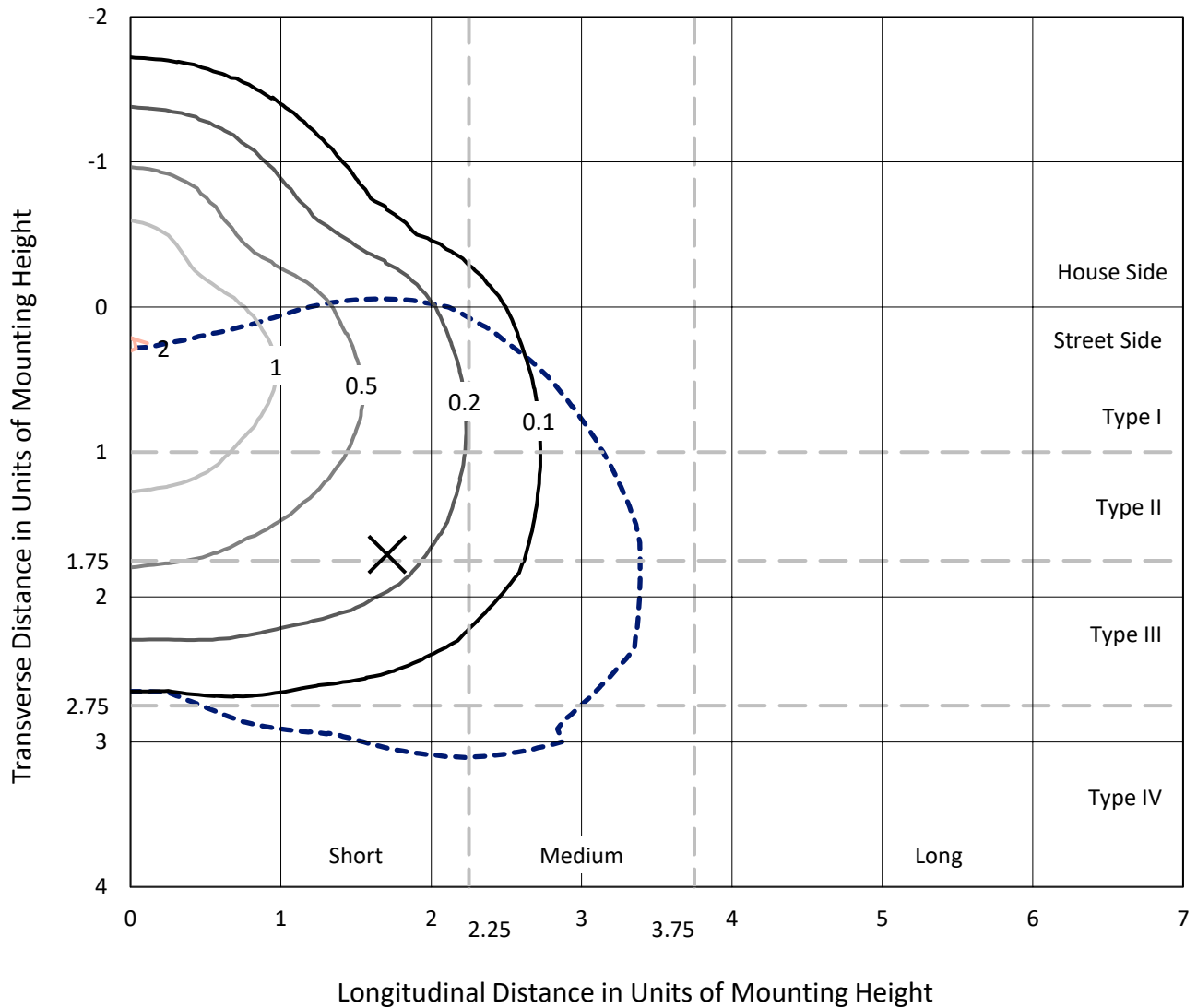
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

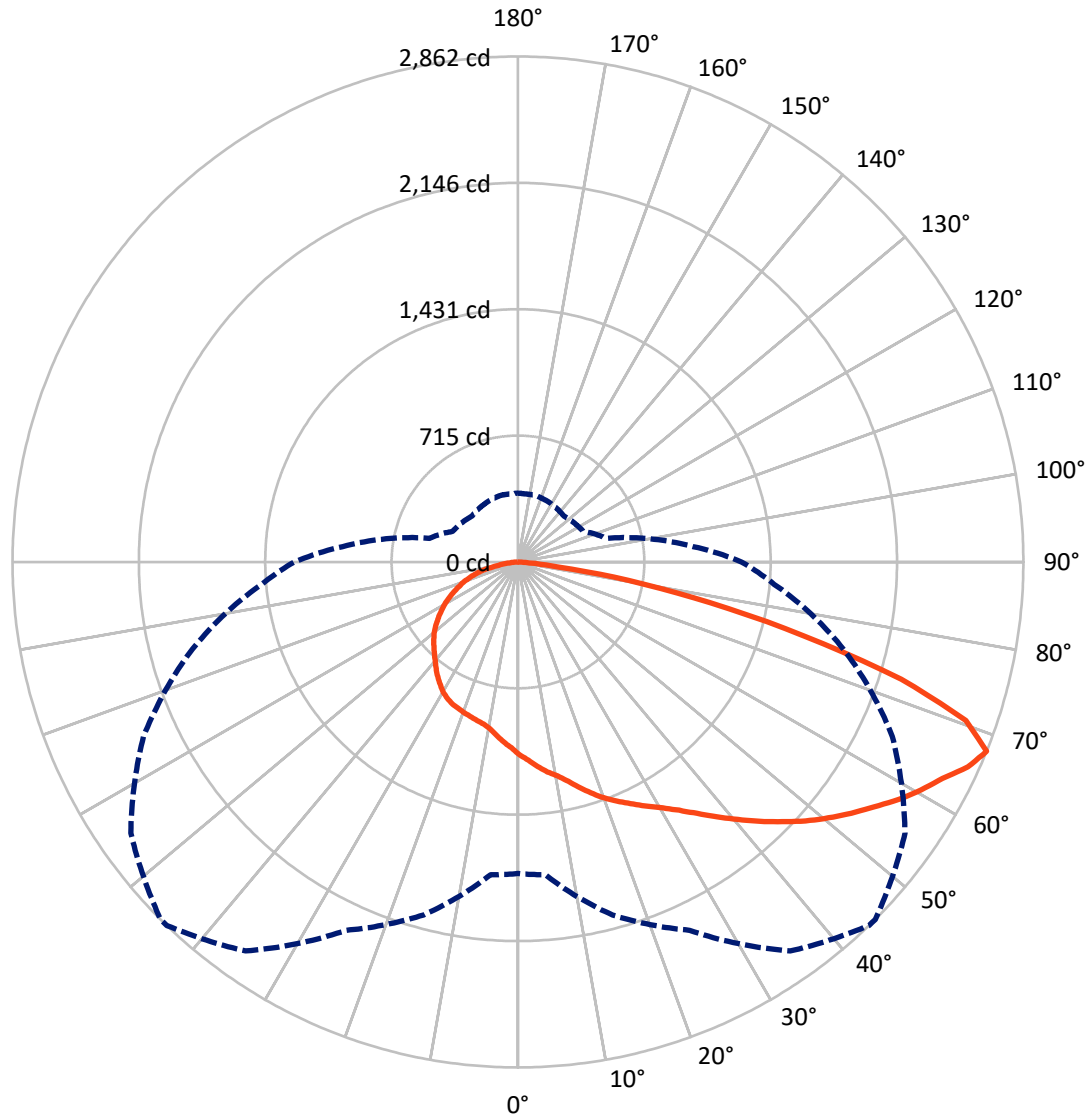
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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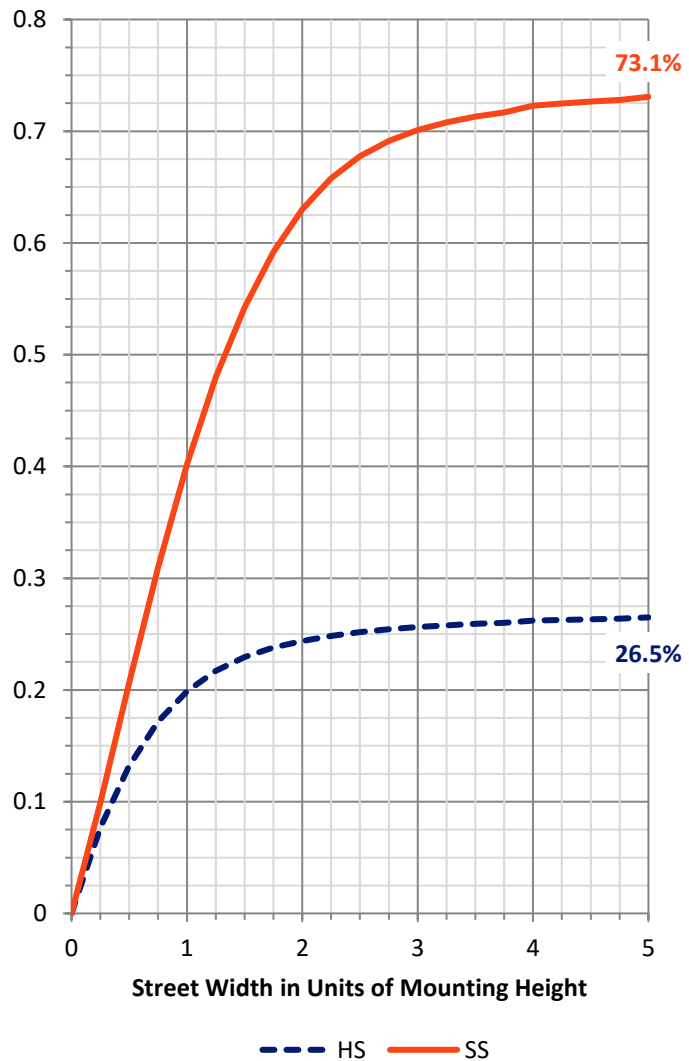
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.8	0.0	1748.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4797.2	0.0	4797.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	6546.0	0.0	6546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.6
10°-20°	322.9	4.9
20°-30°	557.4	8.5
30°-40°	821.9	12.6
40°-50°	1113.6	17.0
50°-60°	1361.0	20.8
60°-70°	1403.7	21.4
70°-80°	768.9	11.7
80°-90°	92.2	1.4
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°	6546.0	100.0
0°-180°	6546.0	100.0

Coefficient of Utilization



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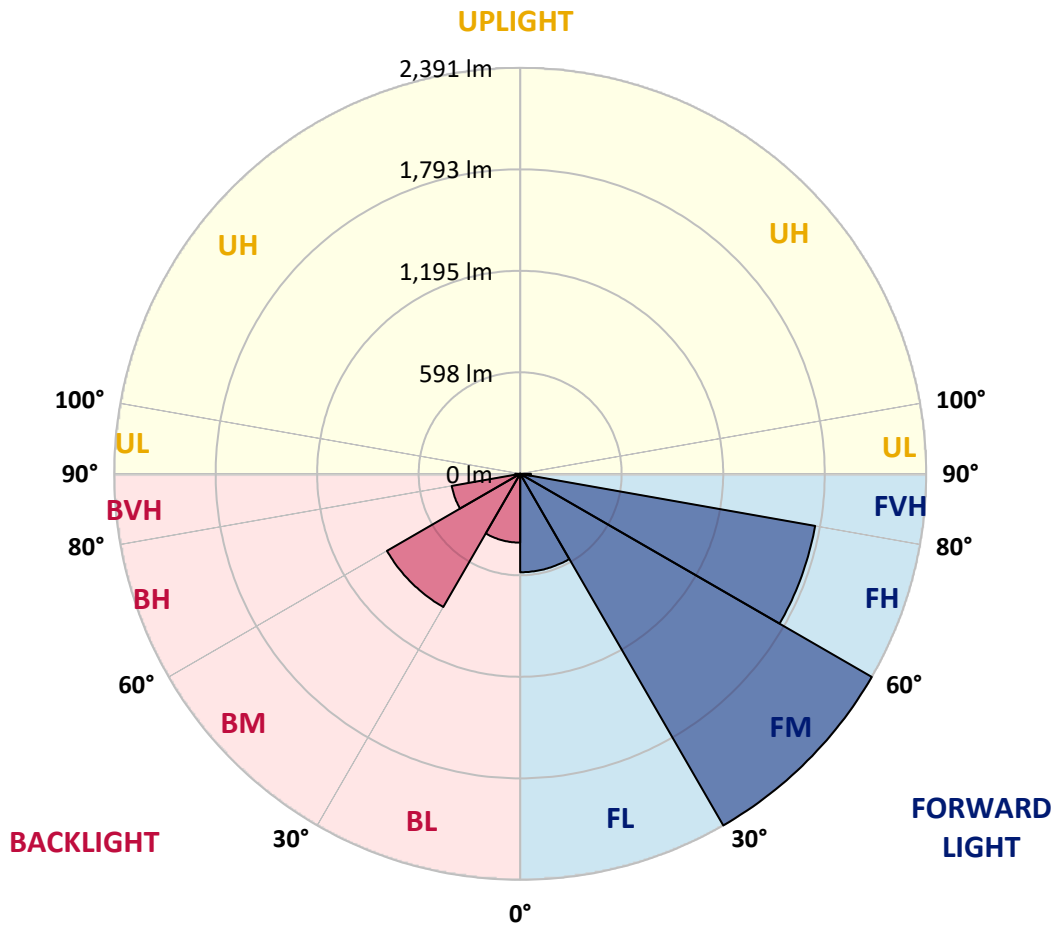
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.5	8.9			
FM (30°-60°)	2390.7	36.5			
FH (60°-80°)	1763.6	26.9			G1/1800
FVH (80°-90°)	63.5	1.0			G1/100
BL (0°-30°)	405.3	6.2	B1/500		
BM (30°-60°)	905.8	13.8	B1/1000		
BH (60°-80°)	409.0	6.2	B1/500		G1/500
BVH (80°-90°)	28.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1139.6	1138.6	1140.6	1133.6	1124.6	1123.6	1123.6	1117.6	1110.7	1096.7	1085.8
5°	1193.4	1191.4	1192.4	1182.4	1170.4	1164.5	1163.5	1150.5	1134.6	1112.7	1092.7
7.5°	1243.2	1241.2	1240.2	1229.2	1211.3	1201.3	1200.3	1181.4	1162.5	1128.6	1099.7
10°	1290.0	1288.0	1286.0	1271.1	1249.1	1234.2	1232.2	1208.3	1184.4	1142.6	1105.7
12.5°	1349.7	1345.8	1343.8	1325.8	1294.0	1278.0	1275.0	1243.2	1213.3	1162.5	1117.6
15°	1412.5	1409.5	1406.5	1389.6	1353.7	1332.8	1327.8	1288.0	1247.1	1188.4	1135.6
17.5°	1459.3	1456.3	1456.3	1441.4	1408.5	1384.6	1380.6	1332.8	1282.0	1212.3	1149.5
20°	1488.2	1485.2	1488.2	1479.2	1454.3	1434.4	1430.4	1377.6	1316.9	1234.2	1161.5
22.5°	1509.1	1506.1	1511.1	1507.1	1489.2	1477.2	1474.3	1422.5	1352.7	1257.1	1173.4
25°	1546.0	1546.0	1546.0	1539.0	1522.1	1518.1	1518.1	1473.3	1398.6	1287.0	1191.4
27.5°	1619.7	1615.7	1610.7	1590.8	1561.9	1560.9	1566.9	1525.1	1451.3	1325.8	1213.3
30°	1728.3	1726.3	1707.4	1665.5	1616.7	1611.7	1615.7	1580.8	1508.1	1366.7	1238.2
32.5°	1868.7	1861.8	1822.9	1760.1	1690.4	1667.5	1675.5	1638.6	1567.9	1408.5	1262.1
35°	1968.3	1970.3	1942.4	1885.7	1803.0	1742.2	1748.2	1703.4	1632.6	1455.3	1292.0
37.5°	2082.9	2089.9	2048.0	2005.2	1928.5	1824.9	1830.9	1770.1	1697.4	1514.1	1323.8
40°	2241.3	2227.3	2156.6	2105.8	2021.1	1911.6	1916.5	1844.8	1772.1	1569.9	1360.7
42.5°	2373.8	2348.9	2263.2	2198.4	2096.8	2003.2	2008.2	1925.5	1847.8	1631.6	1401.5
45°	2564.0	2495.3	2371.8	2339.9	2174.5	2092.9	2097.8	2011.2	1927.5	1697.4	1445.4
47.5°	2674.6	2565.0	2486.3	2469.4	2260.2	2185.5	2191.5	2101.8	2013.2	1772.1	1491.2
50°	2667.6	2596.9	2574.0	2532.1	2335.9	2272.2	2278.1	2195.5	2099.8	1845.8	1535.0
52.5°	2621.8	2634.7	2622.8	2553.1	2411.6	2355.8	2362.8	2288.1	2188.5	1914.5	1575.9
55°	2692.5	2701.5	2678.6	2586.9	2495.3	2439.5	2447.5	2385.7	2276.1	1975.3	1610.7
57.5°	2777.2	2745.3	2722.4	2646.7	2581.9	2530.1	2539.1	2485.3	2351.8	2024.1	1637.6
60°	2773.2	2706.5	2729.4	2650.7	2640.7	2613.8	2621.8	2567.0	2409.6	2060.0	1648.6
62.5°	2569.0	2533.1	2648.7	2621.8	2688.5	2688.5	2698.5	2616.8	2444.5	2074.9	1642.6
65°	2214.4	2216.4	2419.6	2531.1	2745.3	2791.1	2799.1	2647.7	2424.6	2031.1	1586.8
67.5°	1764.1	1777.1	2068.9	2301.0	2688.5	2860.9	2861.9	2675.6	2338.9	1907.6	1457.3
70°	1291.0	1300.9	1645.6	1927.5	2420.6	2706.5	2690.5	2596.9	2152.6	1692.4	1255.1
72.5°	872.6	881.6	1236.2	1480.2	1986.3	2305.0	2270.2	2295.1	1834.9	1390.6	1009.1
75°	586.7	597.7	879.6	1058.9	1461.3	1750.2	1672.5	1738.2	1419.5	1052.9	736.1
77.5°	369.6	376.5	558.8	694.3	998.1	1191.4	1113.7	1114.7	817.8	566.8	395.5
80°	235.1	237.1	338.7	400.4	577.8	716.2	633.5	515.0	368.6	300.8	236.1
82.5°	136.5	133.5	202.2	226.1	274.9	271.9	225.1	213.2	161.4	150.4	120.5
85°	54.8	50.8	88.7	82.7	83.7	88.7	65.7	65.7	52.8	40.8	29.9
87.5°	11.0	11.0	12.0	11.0	11.0	12.0	9.0	9.0	8.0	8.0	8.0
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°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1083.8	1081.8	1076.8	1063.9	1056.9	1052.9	1046.9	1044.9	1043.9	1044.9	1047.9
5°	1086.8	1079.8	1065.8	1044.9	1031.0	1022.0	1012.1	1008.1	1005.1	1005.1	1008.1
7.5°	1088.8	1077.8	1053.9	1023.0	1003.1	989.1	977.2	972.2	971.2	974.2	975.2
10°	1089.8	1073.8	1040.0	1001.1	975.2	957.3	945.3	942.3	945.3	951.3	952.3
12.5°	1096.7	1074.8	1032.0	986.2	955.3	937.3	928.4	928.4	936.4	947.3	948.3
15°	1108.7	1081.8	1028.0	974.2	942.3	926.4	923.4	928.4	940.3	957.3	959.3
17.5°	1117.6	1085.8	1019.0	958.3	925.4	915.4	920.4	932.4	949.3	972.2	974.2
20°	1123.6	1085.8	1006.1	939.3	908.5	906.5	920.4	939.3	957.3	984.2	987.2
22.5°	1129.6	1083.8	991.1	916.4	889.5	895.5	921.4	945.3	963.2	992.1	997.1
25°	1140.6	1086.8	976.2	893.5	869.6	886.5	920.4	949.3	968.2	998.1	1006.1
27.5°	1155.5	1093.7	965.2	872.6	849.7	872.6	913.4	948.3	968.2	997.1	1006.1
30°	1171.4	1101.7	952.3	849.7	826.8	852.7	898.5	937.3	960.3	987.2	998.1
32.5°	1188.4	1110.7	941.3	824.8	798.9	825.8	876.6	920.4	945.3	970.2	982.2
35°	1211.3	1126.6	935.4	804.9	774.0	797.9	848.7	898.5	925.4	948.3	962.3
37.5°	1239.2	1146.5	932.4	784.9	747.1	767.0	818.8	871.6	900.5	919.4	932.4
40°	1271.1	1171.4	931.4	766.0	720.2	735.1	787.9	840.7	868.6	883.6	894.5
42.5°	1306.9	1199.3	929.4	747.1	693.3	705.3	758.0	809.8	833.8	846.7	856.7
45°	1344.8	1227.2	925.4	724.2	664.4	678.4	727.2	773.0	797.9	808.9	819.8
47.5°	1382.6	1255.1	917.4	698.3	638.5	651.5	694.3	734.1	754.1	764.0	775.0
50°	1419.5	1280.0	898.5	668.4	611.6	623.6	656.4	683.3	698.3	706.2	717.2
52.5°	1452.3	1296.9	871.6	633.5	584.7	590.7	612.6	635.5	647.5	648.5	658.4
55°	1480.2	1305.9	832.8	597.7	555.8	556.8	568.8	586.7	591.7	587.7	594.7
57.5°	1496.2	1300.9	789.9	560.8	526.0	522.0	530.9	539.9	540.9	530.9	537.9
60°	1500.2	1278.0	734.1	524.0	496.1	485.1	488.1	486.1	484.1	480.1	486.1
62.5°	1480.2	1229.2	672.4	488.1	464.2	447.3	446.3	445.3	448.3	449.3	450.2
65°	1407.5	1137.6	598.7	451.2	430.3	407.4	406.4	418.4	422.4	416.4	418.4
67.5°	1267.1	997.1	518.0	408.4	387.5	367.6	375.5	382.5	389.5	387.5	389.5
70°	1067.8	818.8	444.3	360.6	340.7	329.7	338.7	344.7	345.7	343.7	345.7
72.5°	839.7	639.5	375.5	311.8	293.9	288.9	299.8	304.8	313.8	317.8	318.8
75°	606.6	472.2	307.8	259.0	244.0	244.0	254.0	263.0	270.9	266.0	263.0
77.5°	338.7	281.9	221.1	178.3	181.3	195.2	199.2	209.2	217.2	216.2	214.2
80°	205.2	176.3	149.4	115.6	114.6	125.5	151.4	168.3	172.3	163.4	162.4
82.5°	106.6	92.6	79.7	64.7	71.7	83.7	87.7	105.6	116.5	112.6	117.5
85°	26.9	25.9	28.9	29.9	36.9	40.8	44.8	52.8	34.9	16.9	16.9
87.5°	8.0	8.0	10.0	10.0	12.9	15.9	14.9	14.9	8.0	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)