

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: P842376

Luminaire Tested: **ARCH4-40-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6528 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

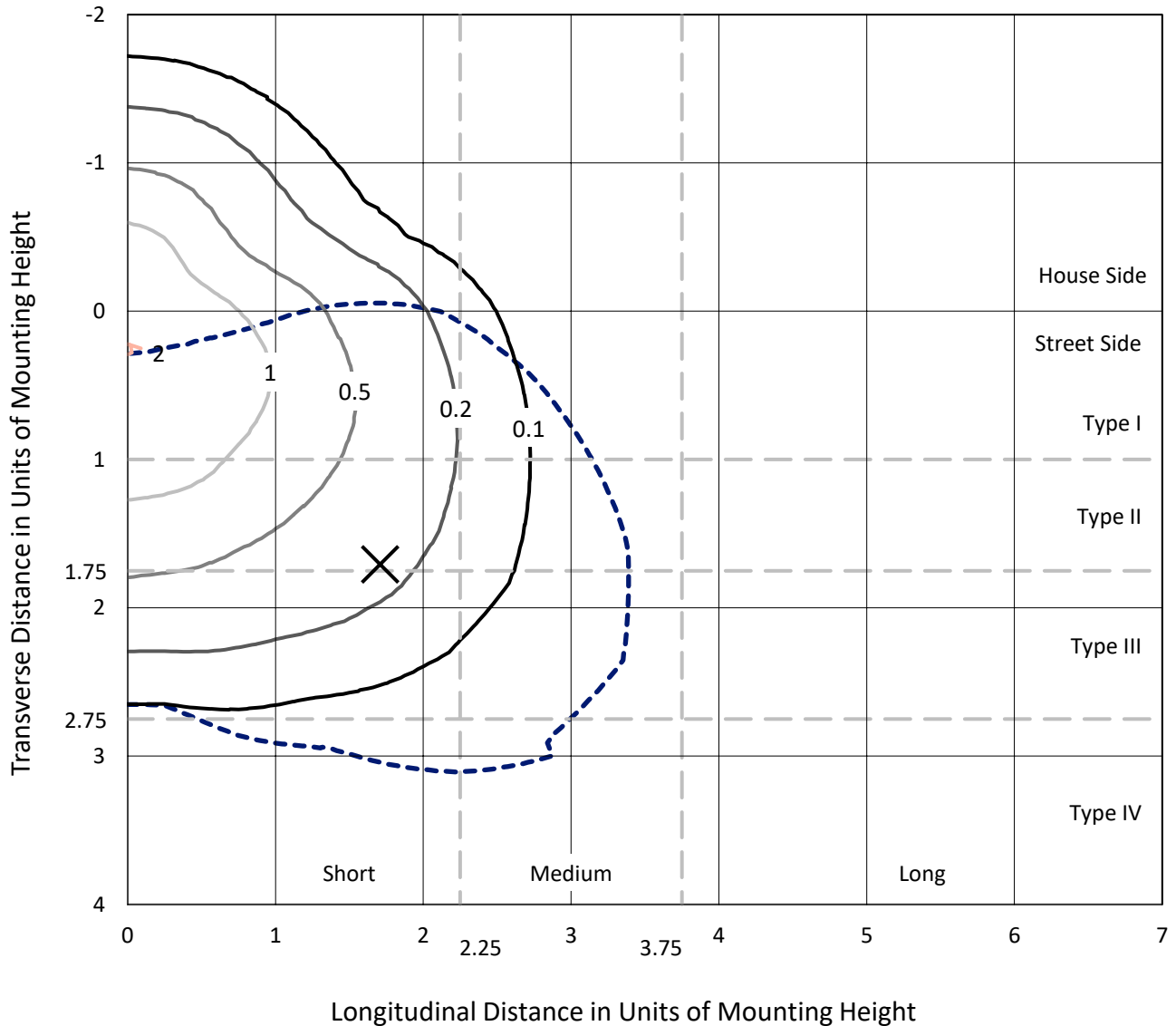
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

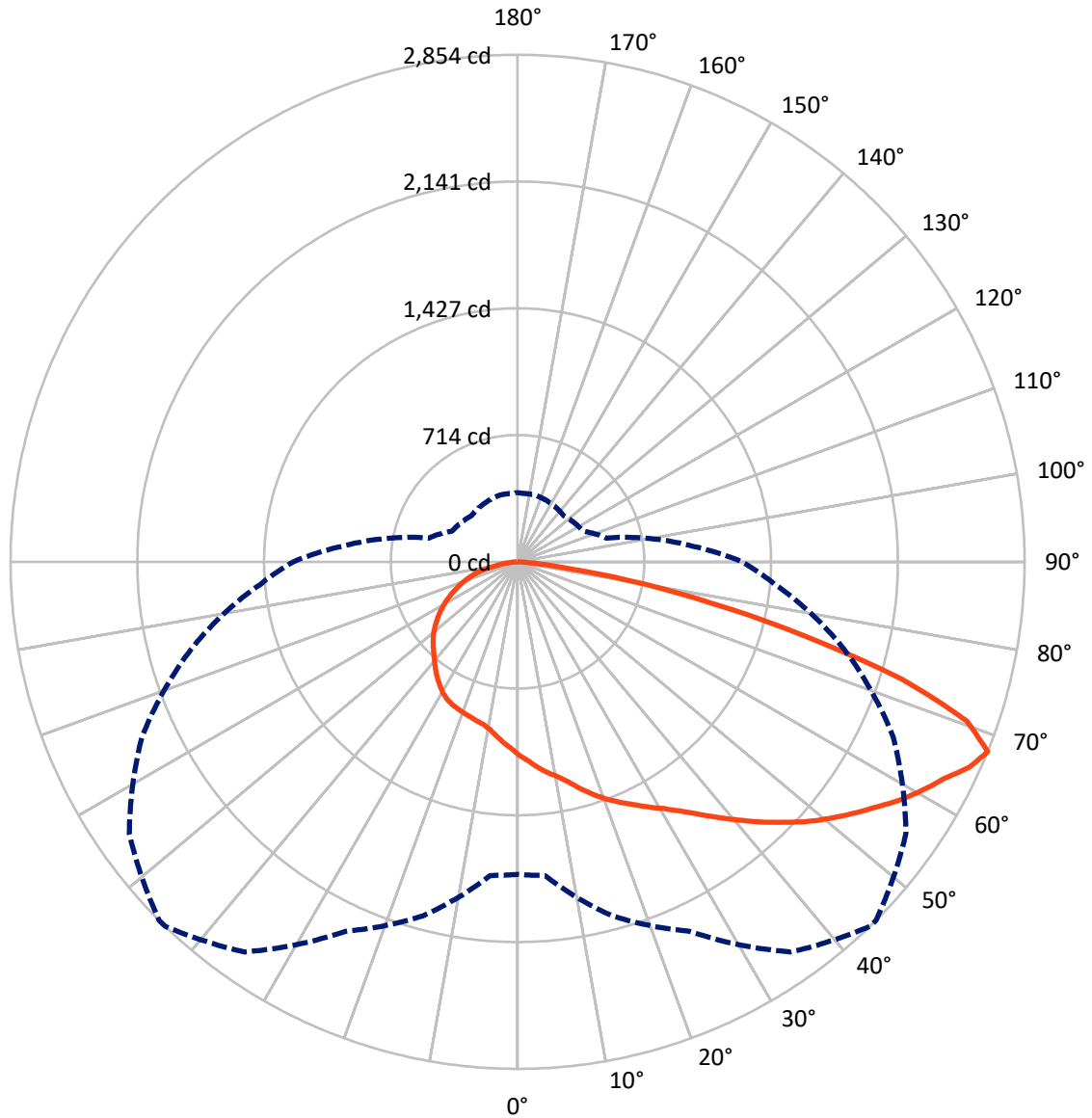
✕ Max cd
 - - - 1/2 Max cd



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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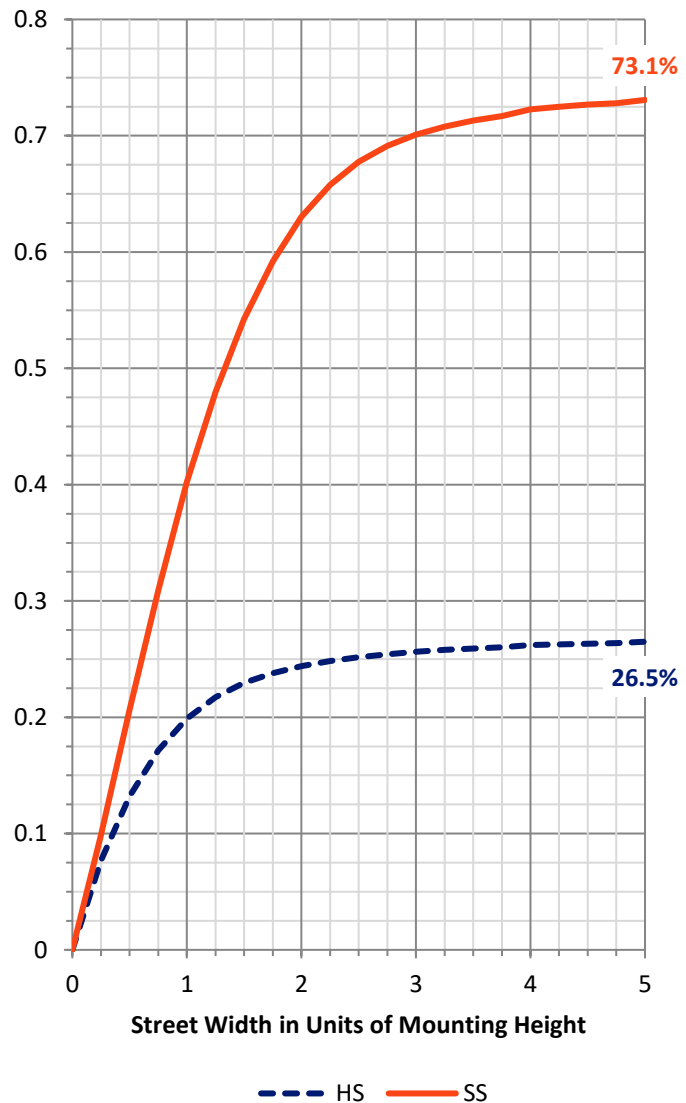
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1744.0	0.0	1744.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4784.0	0.0	4784.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	6528.0	0.0	6528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.6
10°-20°	322.0	4.9
20°-30°	555.8	8.5
30°-40°	819.7	12.6
40°-50°	1110.5	17.0
50°-60°	1357.3	20.8
60°-70°	1399.8	21.4
70°-80°	766.7	11.7
80°-90°	91.9	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°	6528.0	100.0
0°-180°	6528.0	100.0

Coefficient of Utilization

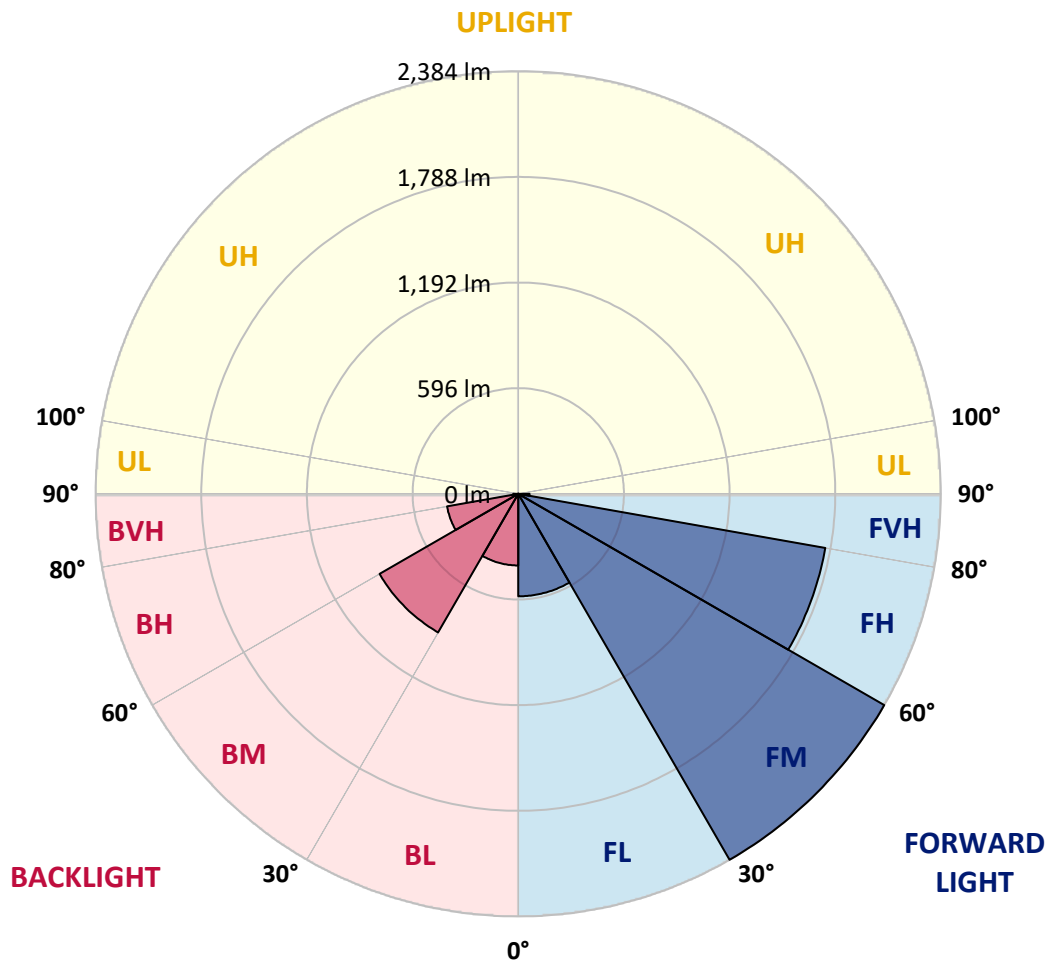


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.9	8.9			
FM (30°-60°)	2384.1	36.5			
FH (60°-80°)	1758.7	26.9			G1/1800
FVH (80°-90°)	63.3	1.0			G1/100
BL (0°-30°)	404.2	6.2	B1/500		
BM (30°-60°)	903.3	13.8	B1/1000		
BH (60°-80°)	407.8	6.2	B1/500		G1/500
BVH (80°-90°)	28.6	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°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1136.4	1135.4	1137.4	1130.5	1121.5	1120.5	1120.5	1114.6	1107.6	1093.7	1082.8
5°	1190.1	1188.1	1189.1	1179.1	1167.2	1161.3	1160.3	1147.4	1131.5	1109.6	1089.7
7.5°	1239.7	1237.8	1236.8	1225.8	1208.0	1198.0	1197.0	1178.2	1159.3	1125.5	1096.7
10°	1286.4	1284.4	1282.5	1267.6	1245.7	1230.8	1228.8	1205.0	1181.1	1139.4	1102.7
12.5°	1346.0	1342.1	1340.1	1322.2	1290.4	1274.5	1271.5	1239.7	1209.9	1159.3	1114.6
15°	1408.6	1405.6	1402.7	1385.8	1350.0	1329.1	1324.2	1284.4	1243.7	1185.1	1132.5
17.5°	1455.3	1452.3	1452.3	1437.4	1404.6	1380.8	1376.8	1329.1	1278.5	1208.9	1146.4
20°	1484.1	1481.1	1484.1	1475.2	1450.3	1430.5	1426.5	1373.8	1313.3	1230.8	1158.3
22.5°	1505.0	1502.0	1507.0	1503.0	1485.1	1473.2	1470.2	1418.5	1349.0	1253.6	1170.2
25°	1541.7	1541.7	1541.7	1534.8	1517.9	1513.9	1513.9	1469.2	1394.7	1283.4	1188.1
27.5°	1615.2	1611.3	1606.3	1586.4	1557.6	1556.6	1562.6	1520.9	1447.4	1322.2	1209.9
30°	1723.5	1721.5	1702.7	1660.9	1612.3	1607.3	1611.3	1576.5	1504.0	1362.9	1234.8
32.5°	1863.6	1856.6	1817.9	1755.3	1685.8	1662.9	1670.9	1634.1	1563.6	1404.6	1258.6
35°	1962.9	1964.9	1937.1	1880.5	1798.0	1737.4	1743.4	1698.7	1628.2	1451.3	1288.4
37.5°	2077.2	2084.1	2042.4	1999.7	1923.2	1819.9	1825.8	1765.2	1692.7	1509.9	1320.2
40°	2235.1	2221.2	2150.7	2100.0	2015.6	1906.3	1911.3	1839.7	1767.2	1565.6	1357.0
42.5°	2367.2	2342.4	2257.0	2192.4	2091.1	1997.7	2002.7	1920.2	1842.7	1627.2	1397.7
45°	2557.0	2488.4	2365.2	2333.5	2168.6	2087.1	2092.1	2005.6	1922.2	1692.7	1441.4
47.5°	2667.2	2558.0	2479.5	2462.6	2254.0	2179.5	2185.4	2096.0	2007.6	1767.2	1487.1
50°	2660.3	2589.7	2566.9	2525.2	2329.5	2265.9	2271.9	2189.4	2094.0	1840.7	1530.8
52.5°	2614.6	2627.5	2615.6	2546.0	2405.0	2349.3	2356.3	2281.8	2182.5	1909.3	1571.5
55°	2685.1	2694.1	2671.2	2579.8	2488.4	2432.8	2440.7	2379.1	2269.9	1969.9	1606.3
57.5°	2769.5	2737.8	2714.9	2639.4	2574.8	2523.2	2532.1	2478.5	2345.4	2018.6	1633.1
60°	2765.6	2699.0	2721.9	2643.4	2633.5	2606.6	2614.6	2559.9	2403.0	2054.3	1644.0
62.5°	2561.9	2526.2	2641.4	2614.6	2681.1	2681.1	2691.1	2609.6	2437.8	2069.2	1638.1
65°	2208.3	2210.3	2412.9	2524.2	2737.8	2783.5	2791.4	2640.4	2417.9	2025.5	1582.5
67.5°	1759.3	1772.2	2063.3	2294.7	2681.1	2853.0	2854.0	2668.2	2332.5	1902.3	1453.3
70°	1287.4	1297.4	1641.1	1922.2	2413.9	2699.0	2683.1	2589.7	2146.7	1687.8	1251.7
72.5°	870.2	879.1	1232.8	1476.2	1980.8	2298.7	2263.9	2288.8	1829.8	1386.8	1006.3
75°	585.1	596.0	877.2	1056.0	1457.3	1745.4	1667.9	1733.5	1415.6	1050.0	734.1
77.5°	368.5	375.5	557.3	692.4	995.4	1188.1	1110.6	1111.6	815.6	565.2	394.4
80°	234.4	236.4	337.7	399.3	576.2	714.2	631.8	513.6	367.6	300.0	235.4
82.5°	136.1	133.1	201.7	225.5	274.2	271.2	224.5	212.6	160.9	150.0	120.2
85°	54.6	50.7	88.4	82.5	83.4	88.4	65.6	65.6	52.6	40.7	29.8
87.5°	10.9	10.9	11.9	10.9	10.9	11.9	8.9	8.9	7.9	7.9	7.9
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°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1080.8	1078.8	1073.8	1060.9	1054.0	1050.0	1044.0	1042.1	1041.1	1042.1	1045.0
5°	1083.8	1076.8	1062.9	1042.1	1028.2	1019.2	1009.3	1005.3	1002.3	1002.3	1005.3
7.5°	1085.8	1074.8	1051.0	1020.2	1000.3	986.4	974.5	969.5	968.5	971.5	972.5
10°	1086.8	1070.9	1037.1	998.3	972.5	954.6	942.7	939.7	942.7	948.7	949.7
12.5°	1093.7	1071.9	1029.1	983.4	952.7	934.8	925.8	925.8	933.8	944.7	945.7
15°	1105.6	1078.8	1025.2	971.5	939.7	923.8	920.9	925.8	937.8	954.6	956.6
17.5°	1114.6	1082.8	1016.2	955.6	922.9	912.9	917.9	929.8	946.7	969.5	971.5
20°	1120.5	1082.8	1003.3	936.8	906.0	904.0	917.9	936.8	954.6	981.5	984.4
22.5°	1126.5	1080.8	988.4	913.9	887.1	893.1	918.9	942.7	960.6	989.4	994.4
25°	1137.4	1083.8	973.5	891.1	867.2	884.1	917.9	946.7	965.6	995.4	1003.3
27.5°	1152.3	1090.7	962.6	870.2	847.4	870.2	910.9	945.7	965.6	994.4	1003.3
30°	1168.2	1098.7	949.7	847.4	824.5	850.3	896.0	934.8	957.6	984.4	995.4
32.5°	1185.1	1107.6	938.7	822.5	796.7	823.5	874.2	917.9	942.7	967.6	979.5
35°	1208.0	1123.5	932.8	802.7	771.9	795.7	846.4	896.0	922.9	945.7	959.6
37.5°	1235.8	1143.4	929.8	782.8	745.0	764.9	816.6	869.2	898.0	916.9	929.8
40°	1267.6	1168.2	928.8	763.9	718.2	733.1	785.8	838.4	866.2	881.1	892.1
42.5°	1303.3	1196.0	926.8	745.0	691.4	703.3	756.0	807.6	831.5	844.4	854.3
45°	1341.1	1223.8	922.9	722.2	662.6	676.5	725.2	770.9	795.7	806.6	817.6
47.5°	1378.8	1251.7	914.9	696.4	636.8	649.7	692.4	732.1	752.0	761.9	772.9
50°	1415.6	1276.5	896.0	666.6	609.9	621.9	654.6	681.5	696.4	704.3	715.2
52.5°	1448.4	1293.4	869.2	631.8	583.1	589.1	610.9	633.8	645.7	646.7	656.6
55°	1476.2	1302.3	830.5	596.0	554.3	555.3	567.2	585.1	590.1	586.1	593.0
57.5°	1492.1	1297.4	787.8	559.3	524.5	520.5	529.5	538.4	539.4	529.5	536.4
60°	1496.0	1274.5	732.1	522.5	494.7	483.8	486.8	484.8	482.8	478.8	484.8
62.5°	1476.2	1225.8	670.5	486.8	462.9	446.0	445.0	444.0	447.0	448.0	449.0
65°	1403.6	1134.4	597.0	450.0	429.1	406.3	405.3	417.2	421.2	415.2	417.2
67.5°	1263.6	994.4	516.6	407.3	386.4	366.6	374.5	381.5	388.4	386.4	388.4
70°	1064.9	816.6	443.0	359.6	339.7	328.8	337.7	343.7	344.7	342.7	344.7
72.5°	837.4	637.8	374.5	310.9	293.0	288.1	299.0	304.0	312.9	316.9	317.9
75°	605.0	470.9	307.0	258.3	243.4	243.4	253.3	262.3	270.2	265.2	262.3
77.5°	337.7	281.1	220.5	177.8	180.8	194.7	198.7	208.6	216.6	215.6	213.6
80°	204.6	175.8	149.0	115.2	114.2	125.2	151.0	167.9	171.9	162.9	161.9
82.5°	106.3	92.4	79.5	64.6	71.5	83.4	87.4	105.3	116.2	112.3	117.2
85°	26.8	25.8	28.8	29.8	36.8	40.7	44.7	52.6	34.8	16.9	16.9
87.5°	7.9	7.9	9.9	9.9	12.9	15.9	14.9	14.9	7.9	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)