

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: P799737

Luminaire Tested: **ARCH2-50-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799737
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: ARCH2-50-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6497 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

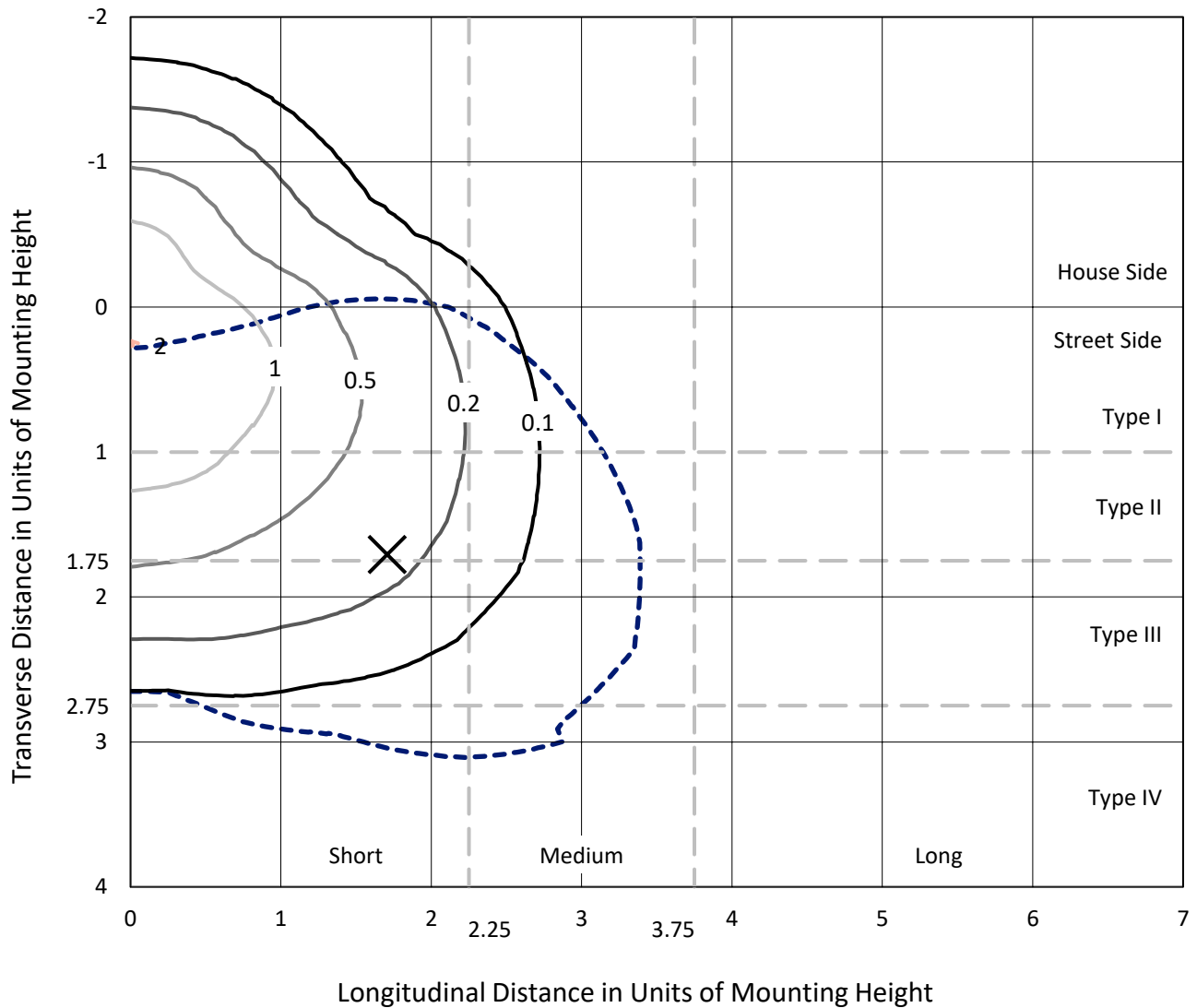
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

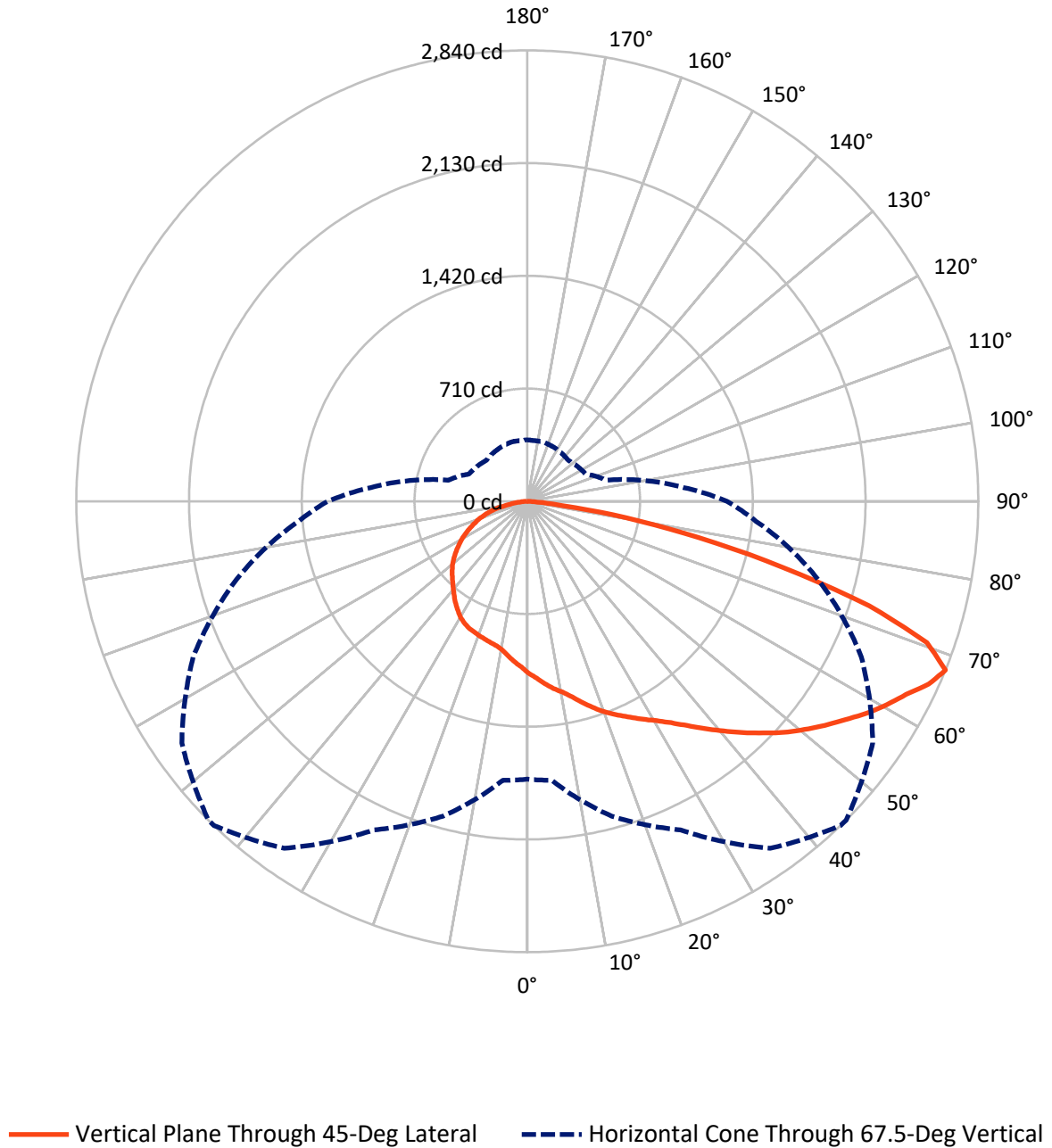
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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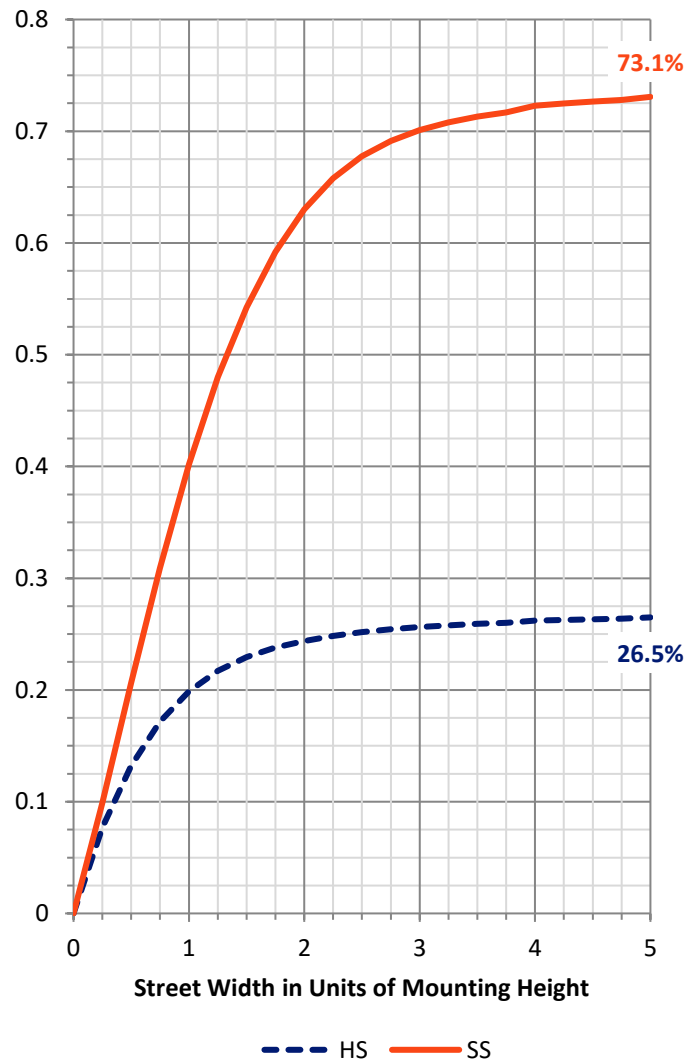
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.7	0.0	1735.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4761.3	0.0	4761.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	6497.0	0.0	6497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.6
10°-20°	320.5	4.9
20°-30°	553.2	8.5
30°-40°	815.8	12.6
40°-50°	1105.2	17.0
50°-60°	1350.8	20.8
60°-70°	1393.2	21.4
70°-80°	763.1	11.7
80°-90°	91.5	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°	6497.0	100.0
0°-180°	6497.0	100.0

Coefficient of Utilization



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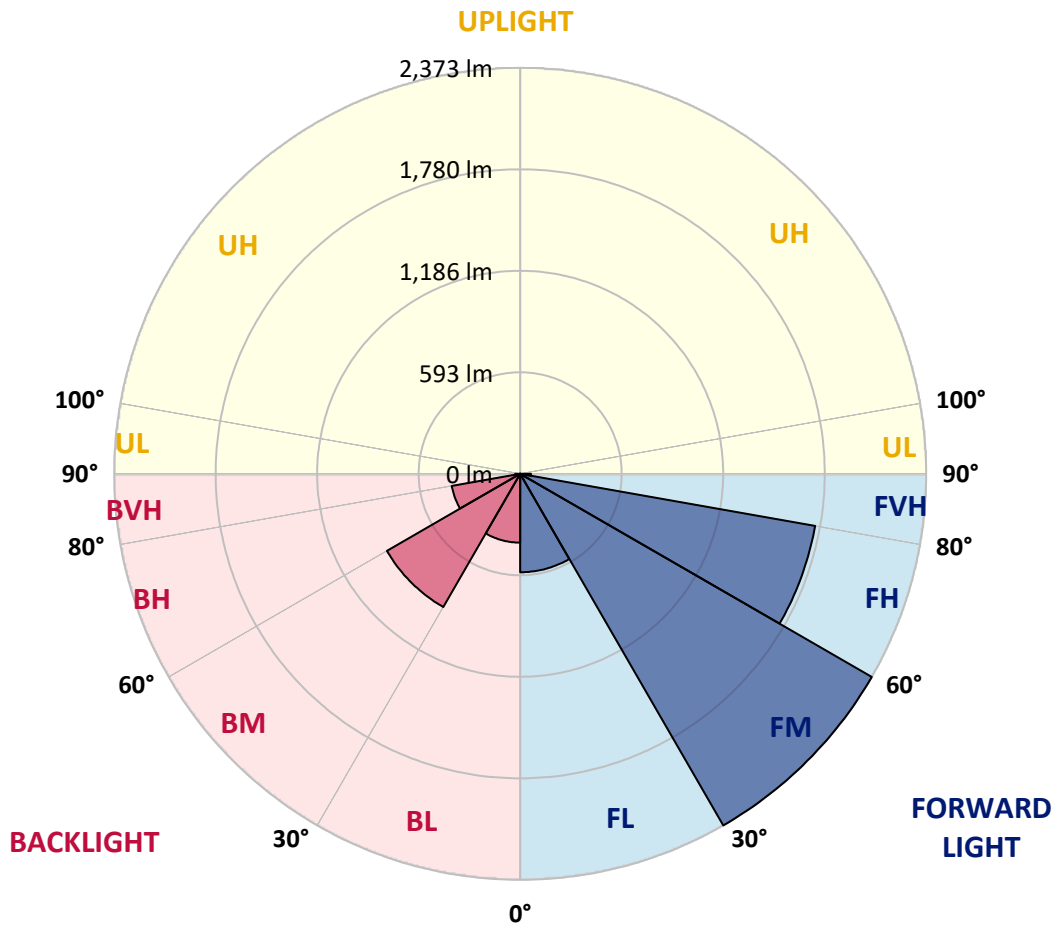
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.2	8.9			
FM (30°-60°)	2372.8	36.5			
FH (60°-80°)	1750.4	26.9			G1/1800
FVH (80°-90°)	63.0	1.0			G1/100
BL (0°-30°)	402.3	6.2	B1/500		
BM (30°-60°)	899.1	13.8	B1/1000		
BH (60°-80°)	405.9	6.2	B1/500		G1/500
BVH (80°-90°)	28.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6
2.5°	1131.0	1130.0	1132.0	1125.1	1116.2	1115.2	1115.2	1109.3	1102.4	1088.5	1077.6
5°	1184.4	1182.4	1183.4	1173.5	1161.7	1155.7	1154.8	1141.9	1126.1	1104.3	1084.6
7.5°	1233.9	1231.9	1230.9	1220.0	1202.2	1192.3	1191.3	1172.6	1153.8	1120.2	1091.5
10°	1280.3	1278.3	1276.4	1261.5	1239.8	1225.0	1223.0	1199.3	1175.5	1134.0	1097.4
12.5°	1339.6	1335.7	1333.7	1315.9	1284.3	1268.5	1265.5	1233.9	1204.2	1153.8	1109.3
15°	1401.9	1399.0	1396.0	1379.2	1343.6	1322.8	1317.9	1278.3	1237.8	1179.5	1127.1
17.5°	1448.4	1445.4	1445.4	1430.6	1398.0	1374.2	1370.3	1322.8	1272.4	1203.2	1140.9
20°	1477.1	1474.1	1477.1	1468.2	1443.5	1423.7	1419.7	1367.3	1307.0	1225.0	1152.8
22.5°	1497.8	1494.9	1499.8	1495.8	1478.1	1466.2	1463.2	1411.8	1342.6	1247.7	1164.6
25°	1534.4	1534.4	1534.4	1527.5	1510.7	1506.7	1506.7	1462.2	1388.1	1277.4	1182.4
27.5°	1607.6	1603.6	1598.7	1578.9	1550.2	1549.2	1555.2	1513.6	1440.5	1315.9	1204.2
30°	1715.3	1713.4	1694.6	1653.0	1604.6	1599.7	1603.6	1569.0	1496.8	1356.4	1228.9
32.5°	1854.7	1847.8	1809.3	1747.0	1677.8	1655.0	1662.9	1626.4	1556.2	1398.0	1252.6
35°	1953.6	1955.6	1927.9	1871.5	1789.5	1729.2	1735.1	1690.6	1620.4	1444.4	1282.3
37.5°	2067.3	2074.2	2032.7	1990.2	1914.1	1811.2	1817.2	1756.9	1684.7	1502.8	1313.9
40°	2224.5	2210.7	2140.5	2090.0	2006.0	1897.2	1902.2	1831.0	1758.8	1558.1	1350.5
42.5°	2356.0	2331.3	2246.2	2182.0	2081.1	1988.2	1993.1	1911.1	1834.0	1619.4	1391.1
45°	2544.8	2476.6	2354.0	2322.4	2158.3	2077.2	2082.1	1996.1	1913.1	1684.7	1434.6
47.5°	2654.6	2545.8	2467.7	2450.9	2243.3	2169.1	2175.1	2086.1	1998.1	1758.8	1480.0
50°	2647.6	2577.4	2554.7	2513.2	2318.4	2255.1	2261.1	2179.0	2084.1	1832.0	1523.5
52.5°	2602.2	2615.0	2603.2	2533.9	2393.6	2338.2	2345.1	2271.0	2172.1	1900.2	1564.1
55°	2672.4	2681.3	2658.5	2567.6	2476.6	2421.2	2429.1	2367.9	2259.1	1960.5	1598.7
57.5°	2756.4	2724.8	2702.0	2626.9	2562.6	2511.2	2520.1	2466.7	2334.2	2009.0	1625.4
60°	2752.4	2686.2	2708.9	2630.8	2620.9	2594.3	2602.2	2547.8	2391.6	2044.6	1636.2
62.5°	2549.8	2514.2	2628.9	2602.2	2668.4	2668.4	2678.3	2597.2	2426.2	2059.4	1630.3
65°	2197.8	2199.8	2401.5	2512.2	2724.8	2770.2	2778.1	2627.9	2406.4	2015.9	1574.9
67.5°	1750.9	1763.8	2053.5	2283.8	2668.4	2839.4	2840.4	2655.6	2321.4	1893.3	1446.4
70°	1281.3	1291.2	1633.3	1913.1	2402.5	2686.2	2670.4	2577.4	2136.5	1679.7	1245.7
72.5°	866.1	875.0	1226.9	1469.2	1971.4	2287.8	2253.2	2277.9	1821.1	1380.2	1001.5
75°	582.3	593.2	873.0	1051.0	1450.4	1737.1	1660.0	1725.2	1408.8	1045.0	730.6
77.5°	366.8	373.7	554.6	689.1	990.6	1182.4	1105.3	1106.3	811.7	562.6	392.5
80°	233.3	235.3	336.1	397.4	573.4	710.8	628.8	511.1	365.8	298.6	234.3
82.5°	135.4	132.5	200.7	224.4	272.9	269.9	223.4	211.6	160.2	149.3	119.6
85°	54.4	50.4	88.0	82.1	83.0	88.0	65.3	65.3	52.4	40.5	29.7
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°	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6
2.5°	1075.7	1073.7	1068.7	1055.9	1049.0	1045.0	1039.1	1037.1	1036.1	1037.1	1040.1
5°	1078.6	1071.7	1057.9	1037.1	1023.3	1014.4	1004.5	1000.5	997.6	997.6	1000.5
7.5°	1080.6	1069.7	1046.0	1015.4	995.6	981.7	969.9	964.9	963.9	966.9	967.9
10°	1081.6	1065.8	1032.2	993.6	967.9	950.1	938.2	935.3	938.2	944.2	945.2
12.5°	1088.5	1066.8	1024.3	978.8	948.1	930.3	921.4	921.4	929.3	940.2	941.2
15°	1100.4	1073.7	1020.3	966.9	935.3	919.5	916.5	921.4	933.3	950.1	952.1
17.5°	1109.3	1077.6	1011.4	951.1	918.5	908.6	913.5	925.4	942.2	964.9	966.9
20°	1115.2	1077.6	998.6	932.3	901.7	899.7	913.5	932.3	950.1	976.8	979.8
22.5°	1121.1	1075.7	983.7	909.6	882.9	888.8	914.5	938.2	956.0	984.7	989.7
25°	1132.0	1078.6	968.9	886.8	863.1	879.9	913.5	942.2	961.0	990.6	998.6
27.5°	1146.9	1085.6	958.0	866.1	843.3	866.1	906.6	941.2	961.0	989.7	998.6
30°	1162.7	1093.5	945.2	843.3	820.6	846.3	891.8	930.3	953.1	979.8	990.6
32.5°	1179.5	1102.4	934.3	818.6	792.9	819.6	870.0	913.5	938.2	963.0	974.8
35°	1202.2	1118.2	928.4	798.8	768.2	791.9	842.3	891.8	918.5	941.2	955.0
37.5°	1229.9	1138.0	925.4	779.1	741.5	761.3	812.7	865.1	893.8	912.5	925.4
40°	1261.5	1162.7	924.4	760.3	714.8	729.6	782.0	834.4	862.1	876.9	887.8
42.5°	1297.1	1190.4	922.4	741.5	688.1	700.0	752.4	803.8	827.5	840.4	850.3
45°	1334.7	1218.0	918.5	718.8	659.4	673.3	721.7	767.2	791.9	802.8	813.7
47.5°	1372.3	1245.7	910.6	693.1	633.7	646.6	689.1	728.6	748.4	758.3	769.2
50°	1408.8	1270.4	891.8	663.4	607.0	618.9	651.5	678.2	693.1	701.0	711.8
52.5°	1441.5	1287.2	865.1	628.8	580.3	586.3	608.0	630.8	642.6	643.6	653.5
55°	1469.2	1296.1	826.5	593.2	551.7	552.7	564.5	582.3	587.3	583.3	590.2
57.5°	1485.0	1291.2	784.0	556.6	522.0	518.1	527.0	535.9	536.8	527.0	533.9
60°	1488.9	1268.5	728.6	520.0	492.4	481.5	484.4	482.5	480.5	476.5	482.5
62.5°	1469.2	1220.0	667.3	484.4	460.7	443.9	442.9	441.9	444.9	445.9	446.9
65°	1397.0	1129.1	594.2	447.9	427.1	404.4	403.4	415.2	419.2	413.3	415.2
67.5°	1257.6	989.7	514.1	405.4	384.6	364.8	372.7	379.6	386.6	384.6	386.6
70°	1059.8	812.7	440.9	357.9	338.1	327.2	336.1	342.1	343.1	341.1	343.1
72.5°	833.4	634.7	372.7	309.5	291.7	286.7	297.6	302.5	311.4	315.4	316.4
75°	602.1	468.6	305.5	257.1	242.2	242.2	252.1	261.0	268.9	264.0	261.0
77.5°	336.1	279.8	219.5	177.0	179.9	193.8	197.7	207.6	215.5	214.5	212.6
80°	203.7	175.0	148.3	114.7	113.7	124.6	150.3	167.1	171.0	162.1	161.2
82.5°	105.8	91.9	79.1	64.3	71.2	83.0	87.0	104.8	115.7	111.7	116.7
85°	26.7	25.7	28.7	29.7	36.6	40.5	44.5	52.4	34.6	16.8	16.8
87.5°	7.9	7.9	9.9	9.9	12.9	15.8	14.8	14.8	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)