

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: P799493

Luminaire Tested: **ARCH2-30-727-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799493
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: ARCH2-30-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4950 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

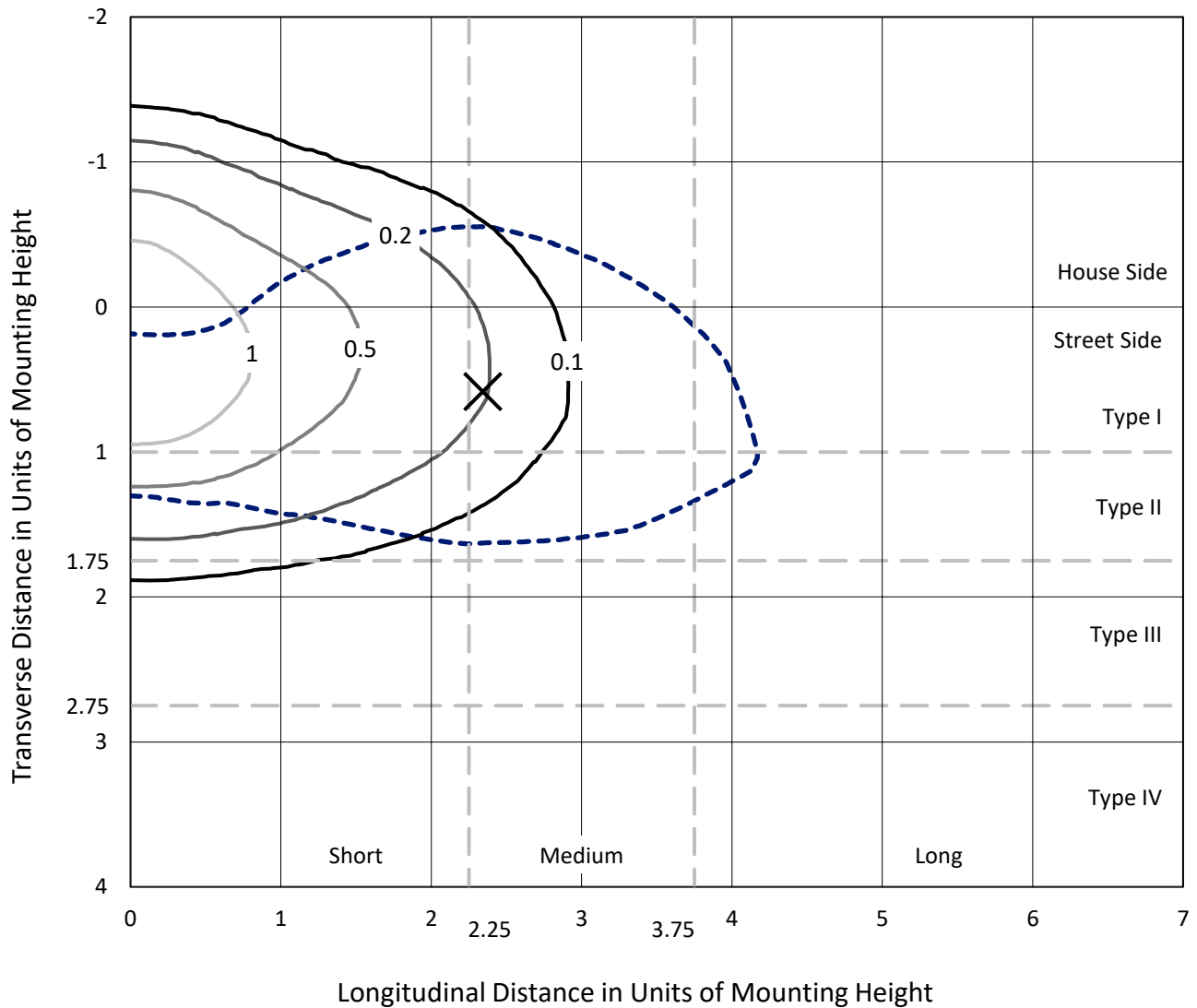
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

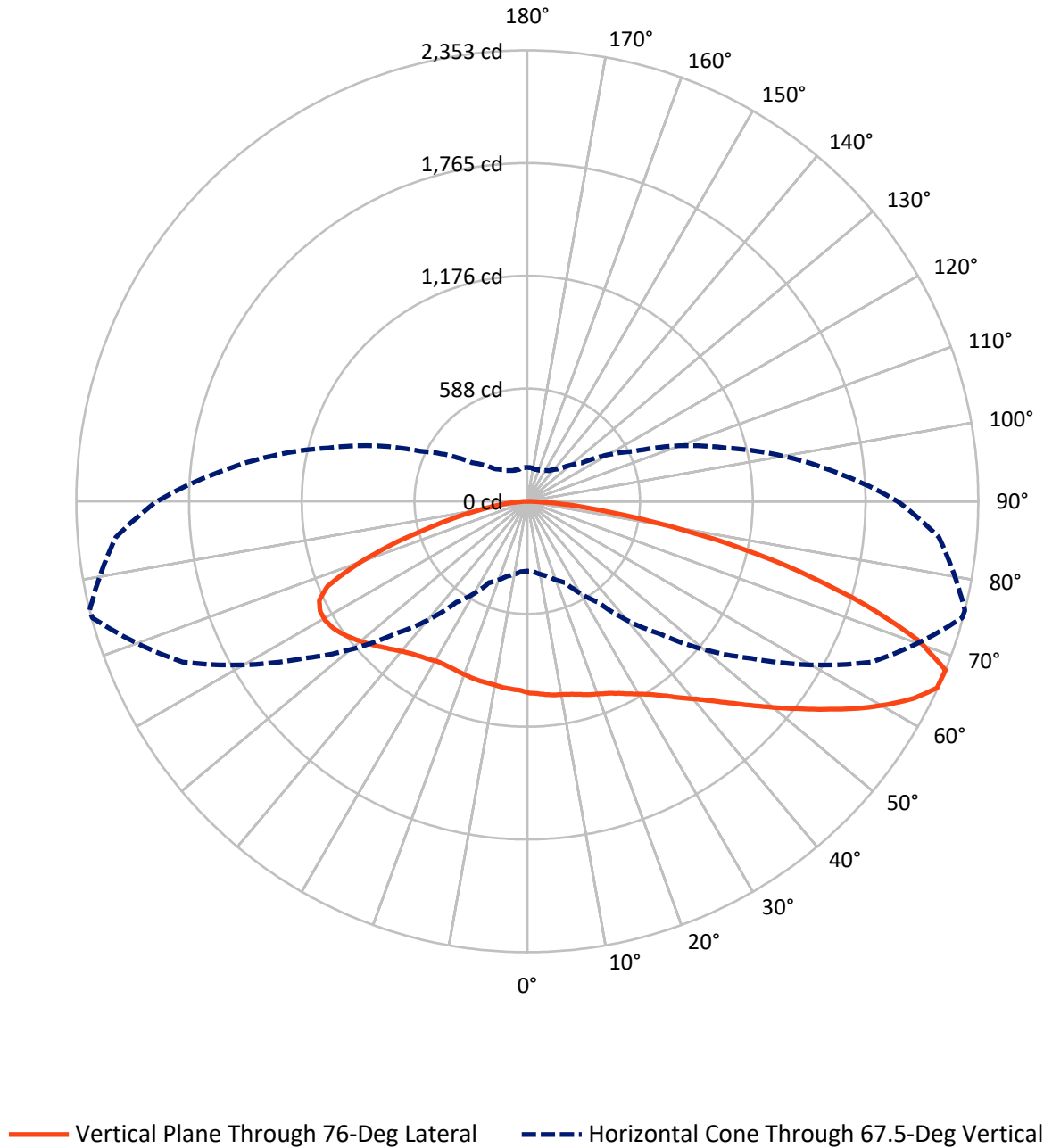
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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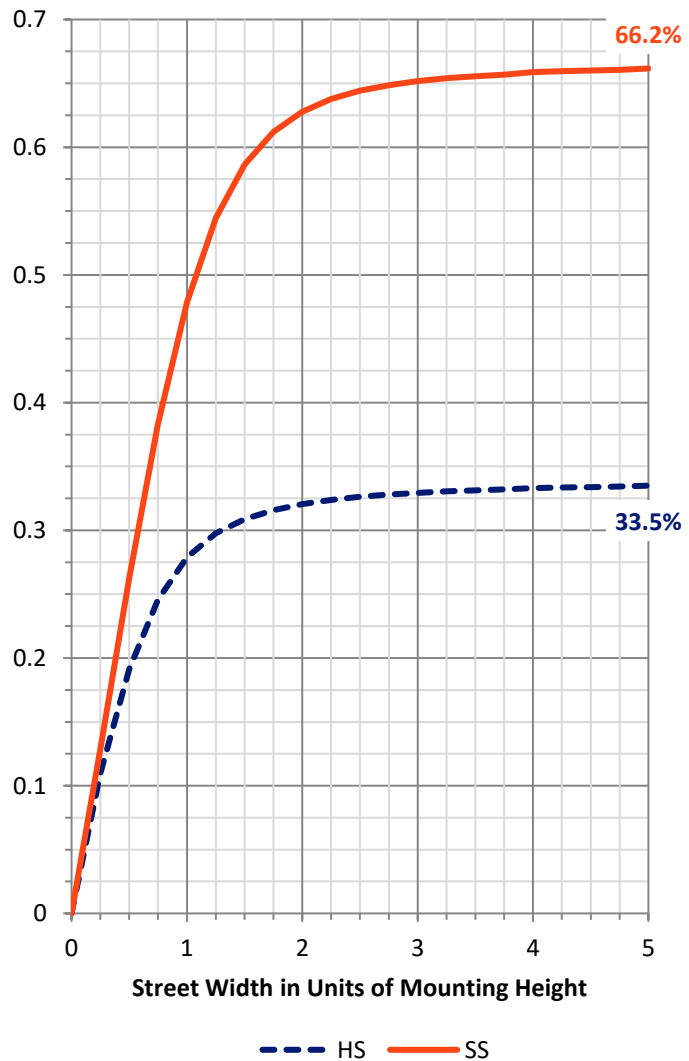
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1672.6	0.0	1672.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	3277.4	0.0	3277.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	4950.0	0.0	4950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	1.9
10°-20°	294.8	6.0
20°-30°	500.8	10.1
30°-40°	712.6	14.4
40°-50°	900.0	18.2
50°-60°	974.4	19.7
60°-70°	906.3	18.3
70°-80°	486.8	9.8
80°-90°	78.0	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°	4950.0	100.0
0°-180°	4950.0	100.0

Coefficient of Utilization



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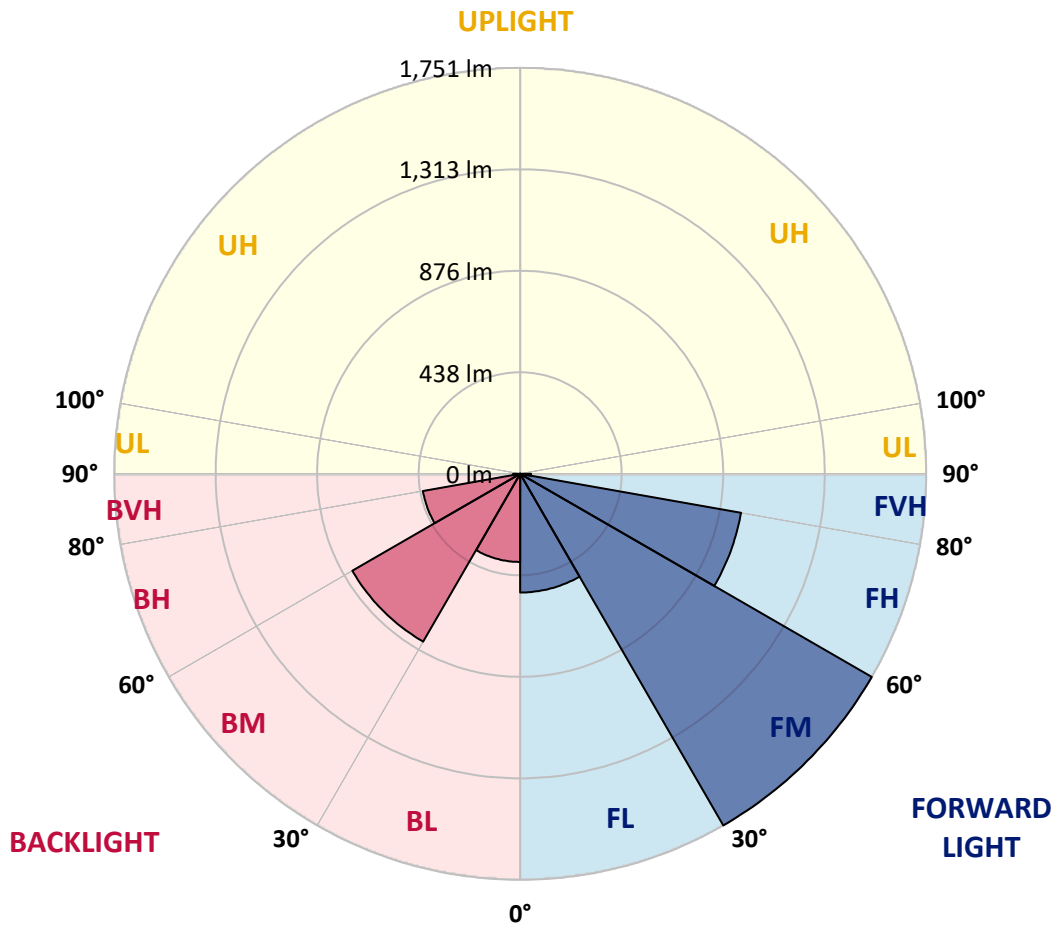
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.9	10.3			
FM (30°-60°)	1751.1	35.4			
FH (60°-80°)	967.2	19.5			G1/1800
FVH (80°-90°)	47.2	1.0			G1/100
BL (0°-30°)	380.1	7.7	B1/500		
BM (30°-60°)	835.8	16.9	B1/1000		
BH (60°-80°)	425.9	8.6	B1/500		G1/500
BVH (80°-90°)	30.8	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9
2.5°	1030.2	1028.4	1021.0	1021.9	1021.9	1021.0	1010.0	1005.4	1005.4	1004.5	994.4
5°	1067.0	1064.2	1055.9	1054.1	1050.4	1045.8	1028.4	1018.3	1013.7	1012.8	999.0
7.5°	1110.2	1106.5	1096.4	1090.9	1081.7	1069.7	1047.7	1032.1	1021.0	1020.1	1000.8
10°	1153.4	1149.7	1137.7	1127.6	1114.8	1095.5	1067.0	1044.0	1026.5	1024.7	1001.7
12.5°	1204.8	1201.2	1186.4	1173.6	1154.3	1128.6	1090.9	1059.6	1035.7	1033.0	1004.5
15°	1259.1	1253.5	1238.8	1224.1	1200.2	1167.1	1122.1	1080.8	1050.4	1045.8	1012.8
17.5°	1304.1	1296.7	1284.8	1270.1	1243.4	1204.8	1153.4	1101.9	1064.2	1060.5	1021.0
20°	1342.7	1337.2	1324.3	1310.5	1282.0	1239.8	1182.8	1123.0	1077.1	1072.5	1027.5
22.5°	1379.4	1372.1	1364.7	1354.6	1323.4	1276.5	1216.8	1148.8	1093.6	1088.1	1035.7
25°	1421.7	1413.4	1410.7	1405.2	1368.4	1320.6	1258.1	1180.9	1116.6	1110.2	1050.4
27.5°	1474.1	1464.9	1459.4	1459.4	1415.3	1365.7	1302.2	1218.6	1143.3	1137.7	1068.8
30°	1529.2	1518.2	1509.9	1509.9	1460.3	1410.7	1345.4	1256.3	1173.6	1167.1	1092.7
32.5°	1577.9	1566.9	1557.7	1556.8	1505.3	1455.7	1390.5	1297.7	1210.3	1202.1	1122.1
35°	1615.6	1605.5	1597.2	1599.1	1550.4	1501.7	1441.0	1352.8	1256.3	1247.1	1160.7
37.5°	1638.6	1634.9	1630.3	1636.8	1591.7	1545.8	1493.4	1406.1	1308.7	1300.4	1208.5
40°	1650.6	1647.8	1666.2	1674.4	1626.7	1585.3	1545.8	1461.2	1365.7	1356.5	1263.6
42.5°	1668.0	1691.0	1698.3	1696.5	1652.4	1615.6	1593.6	1521.0	1432.7	1424.5	1329.8
45°	1605.5	1600.0	1640.4	1662.5	1654.2	1634.9	1638.6	1592.7	1510.9	1502.6	1406.1
47.5°	1521.9	1514.5	1537.5	1591.7	1623.9	1642.3	1679.0	1667.1	1600.9	1593.6	1495.2
50°	1345.4	1355.5	1441.0	1513.6	1577.0	1640.4	1713.0	1747.0	1700.2	1692.8	1590.8
52.5°	1149.7	1159.8	1248.9	1416.2	1520.1	1626.7	1737.9	1827.0	1807.7	1799.4	1692.8
55°	1007.2	1029.3	1130.4	1251.7	1439.2	1583.5	1752.6	1908.8	1923.5	1916.1	1804.0
57.5°	865.7	882.3	958.5	1066.1	1328.9	1508.1	1751.6	1985.1	2044.8	2037.5	1917.1
60°	699.4	720.5	781.2	897.0	1181.9	1418.0	1725.9	2044.8	2161.5	2156.0	2026.4
62.5°	585.4	591.8	635.0	735.2	992.5	1304.1	1668.0	2077.0	2267.2	2263.5	2124.8
65°	471.5	472.4	511.9	595.5	809.7	1162.6	1569.7	2065.0	2347.2	2349.0	2195.5
67.5°	363.9	368.5	404.4	467.8	643.3	978.8	1429.1	1984.2	2348.1	2352.7	2155.1
70°	251.8	255.5	309.7	371.3	497.2	780.2	1238.8	1770.0	2155.1	2158.8	1931.8
72.5°	177.4	179.2	237.1	296.8	388.7	588.2	934.6	1464.0	1837.1	1839.9	1624.8
75°	132.3	134.2	167.3	225.2	297.8	407.1	638.7	1121.2	1467.7	1467.7	1282.9
77.5°	93.7	94.7	108.4	155.3	198.5	274.8	384.1	734.3	1077.1	1078.9	934.6
80°	63.4	64.3	70.8	104.8	124.1	148.9	208.6	385.1	679.2	681.9	593.7
82.5°	33.1	34.9	39.5	53.3	62.5	82.7	107.5	195.8	375.9	383.2	356.6
85°	12.9	12.9	14.7	17.5	23.0	32.2	49.6	74.4	170.0	175.5	157.2
87.5°	4.6	4.6	5.5	5.5	6.4	7.4	8.3	11.0	19.3	19.3	18.4
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°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9
2.5°	990.7	990.7	986.1	987.9	987.0	985.2	983.3	986.1	983.3	976.9	976.0
5°	992.5	990.7	983.3	982.4	979.7	976.0	971.4	973.2	968.6	963.1	962.2
7.5°	993.5	989.8	979.7	976.0	970.5	963.1	955.8	955.8	949.3	943.8	942.9
10°	991.6	987.0	973.2	965.9	955.8	944.7	934.6	931.9	924.5	918.1	918.1
12.5°	992.5	986.1	968.6	956.7	942.9	929.1	916.3	912.6	906.1	899.7	898.8
15°	998.1	988.9	966.8	951.2	931.0	915.3	901.6	898.8	893.3	888.7	888.7
17.5°	1003.6	991.6	964.0	942.0	917.2	899.7	886.9	886.9	883.2	880.4	880.4
20°	1006.3	992.5	958.5	929.1	900.6	882.3	870.3	872.1	871.2	870.3	870.3
22.5°	1012.8	994.4	953.9	917.2	883.2	863.9	852.8	855.6	854.7	854.7	855.6
25°	1022.9	999.0	950.3	906.1	866.6	845.5	833.5	835.4	835.4	835.4	835.4
27.5°	1036.6	1008.2	949.3	896.0	850.1	826.2	811.5	811.5	807.8	808.7	809.7
30°	1057.8	1025.6	951.2	886.9	832.6	802.3	784.8	782.1	781.2	783.0	783.9
32.5°	1083.5	1049.5	962.2	880.4	814.2	775.6	753.6	752.7	749.9	749.9	749.9
35°	1115.7	1072.5	972.3	879.5	795.9	747.2	723.3	720.5	714.1	711.3	711.3
37.5°	1157.0	1108.3	984.3	873.1	780.2	719.6	691.1	681.9	674.6	673.6	673.6
40°	1207.6	1148.8	1001.7	865.7	763.7	691.1	653.4	637.8	638.7	642.4	642.4
42.5°	1267.3	1198.4	1023.8	862.0	739.8	661.7	609.3	590.9	597.4	601.0	602.0
45°	1337.2	1257.2	1048.6	857.4	717.8	628.6	562.4	539.5	542.2	543.1	544.1
47.5°	1418.0	1322.5	1074.3	853.8	692.9	587.3	511.0	480.6	479.7	474.2	476.1
50°	1502.6	1391.4	1101.0	847.3	662.6	538.5	456.8	420.9	413.6	405.3	406.2
52.5°	1592.7	1462.2	1125.8	837.2	624.9	488.9	405.3	366.7	352.0	342.8	344.6
55°	1691.9	1534.8	1149.7	821.6	585.4	439.3	359.3	319.8	301.4	294.1	295.0
57.5°	1782.9	1604.6	1167.1	802.3	542.2	394.3	318.9	280.3	268.4	267.4	268.4
60°	1871.1	1663.4	1174.5	775.6	498.1	352.9	281.2	251.8	243.5	248.1	249.1
62.5°	1945.6	1701.1	1170.8	739.8	453.1	313.4	250.9	229.8	224.2	233.4	234.3
65°	1988.7	1713.0	1145.1	688.3	404.4	274.8	222.4	199.4	196.7	202.2	204.9
67.5°	1931.8	1638.6	1075.2	617.6	350.1	238.9	194.8	176.5	171.9	176.5	176.5
70°	1712.1	1419.9	909.8	505.5	290.4	204.0	169.1	156.2	152.6	156.2	155.3
72.5°	1426.3	1180.9	716.8	394.3	228.8	171.9	147.0	135.1	131.4	127.7	125.9
75°	1106.5	897.0	520.2	289.5	172.8	137.9	123.1	112.1	102.9	106.6	104.8
77.5°	810.6	629.5	368.5	200.3	124.1	106.6	96.5	88.2	81.8	89.1	88.2
80°	522.0	407.1	246.3	134.2	85.5	74.4	70.8	66.2	72.6	94.7	96.5
82.5°	318.9	258.2	147.0	87.3	56.1	49.6	46.0	46.0	74.4	81.8	82.7
85°	142.4	136.9	80.0	45.0	31.2	28.5	25.7	33.1	30.3	22.1	23.0
87.5°	23.0	23.9	17.5	15.6	11.9	11.9	9.2	6.4	4.6	2.8	2.8
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)