

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: P798789

Luminaire Tested: **ARCH1-30-750-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798789
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: ARCH1-30-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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



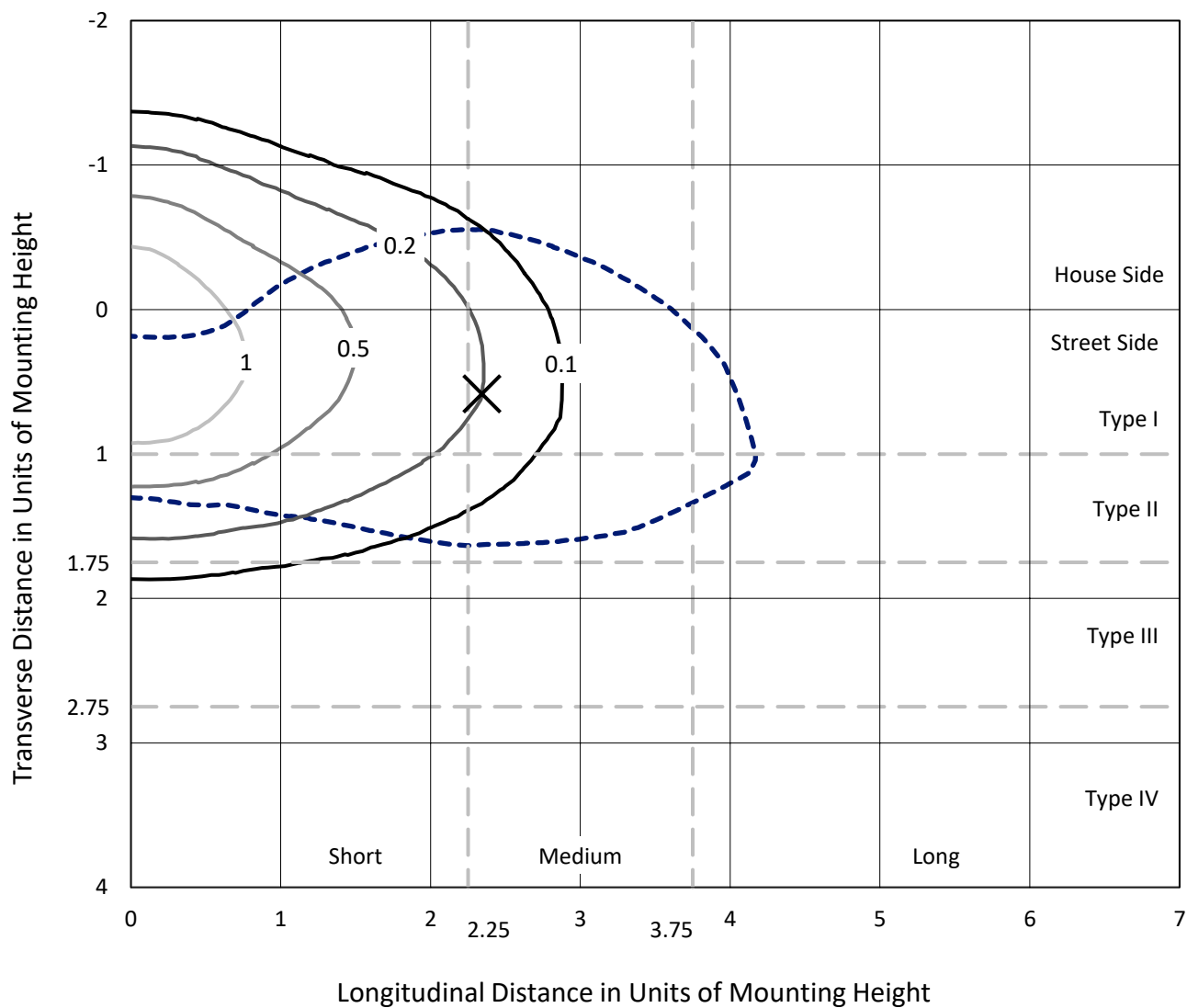
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

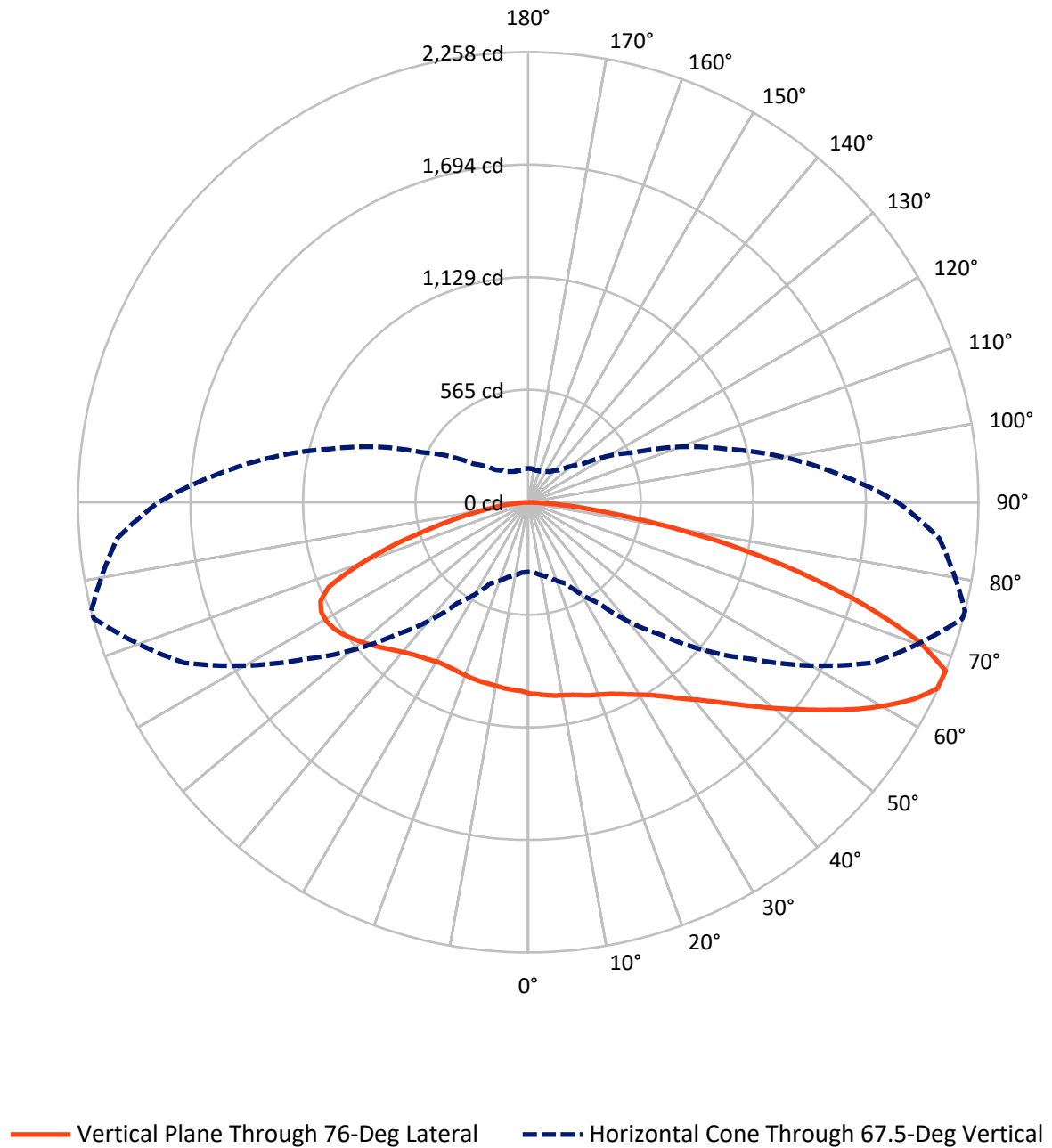


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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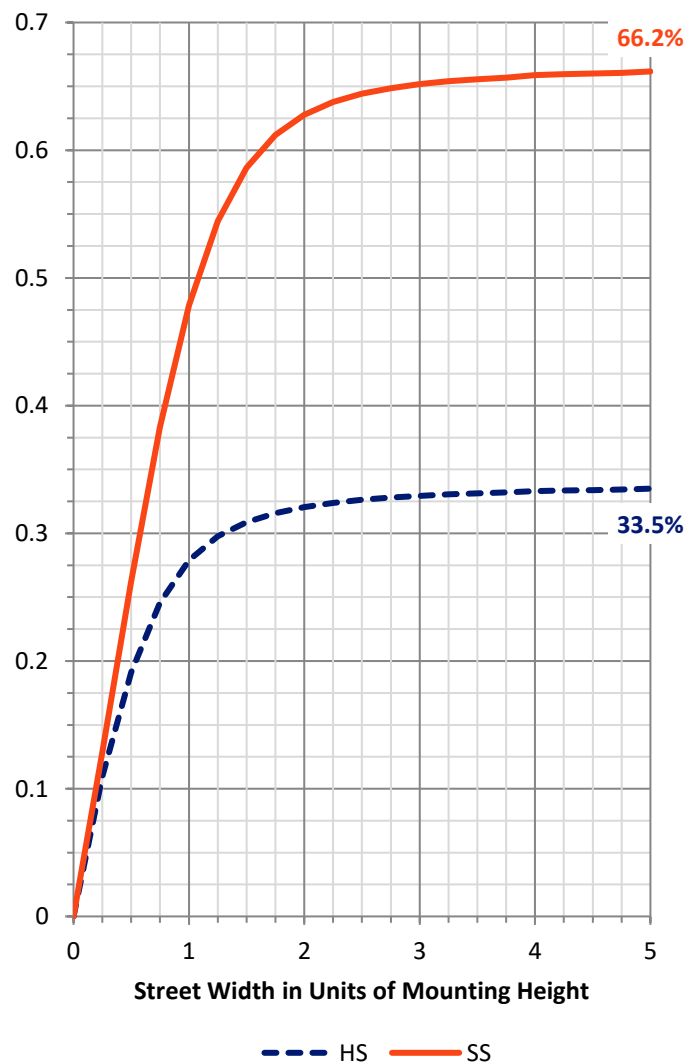
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1605.4	0.0	1605.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	3145.6	0.0	3145.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	4751.0	0.0	4751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.9
10°-20°	282.9	6.0
20°-30°	480.7	10.1
30°-40°	683.9	14.4
40°-50°	863.8	18.2
50°-60°	935.2	19.7
60°-70°	869.9	18.3
70°-80°	467.2	9.8
80°-90°	74.9	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°	4751.0	100.0
0°-180°	4751.0	100.0

Coefficient of Utilization



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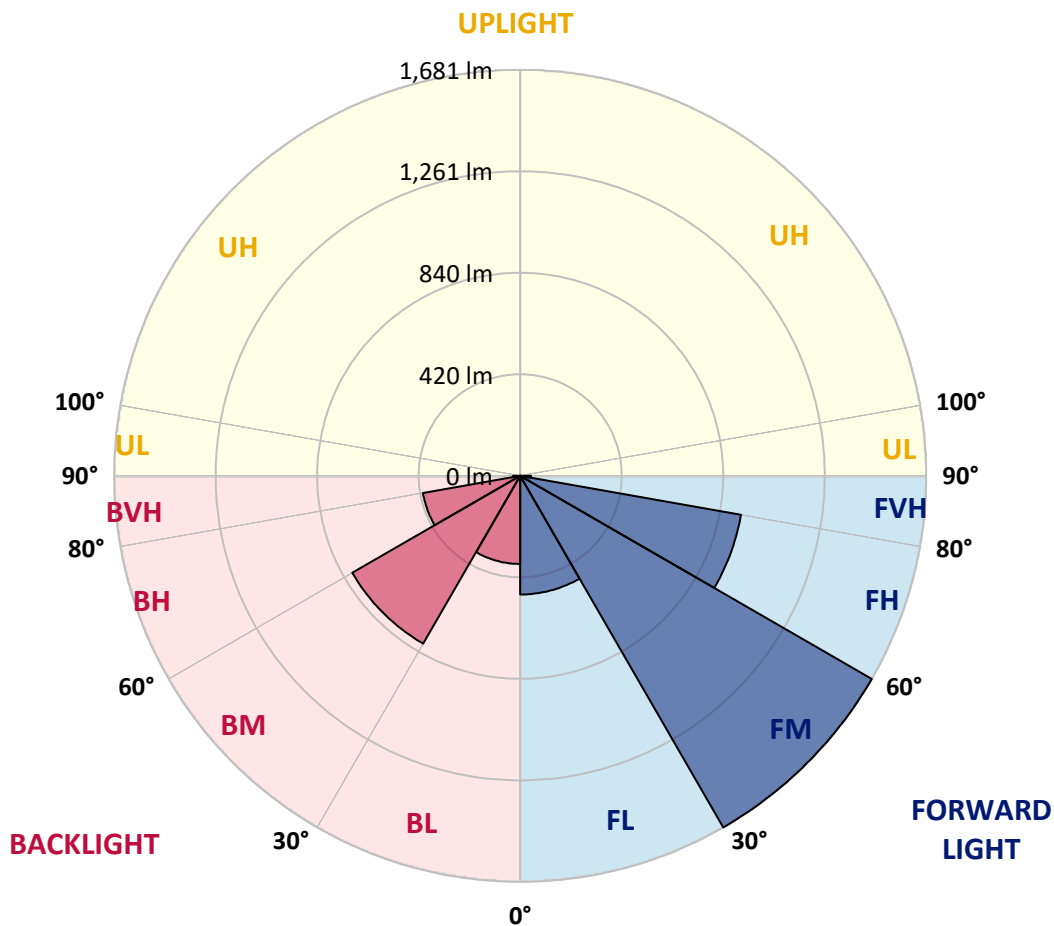
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.3	10.3			
FM	(30°-60°)	1680.7	35.4			
FH	(60°-80°)	928.3	19.5			G1/1800
FVH	(80°-90°)	45.3	1.0			G1/100
BL	(0°-30°)	364.8	7.7	B1/500		
BM	(30°-60°)	802.2	16.9	B1/1000		
BH	(60°-80°)	408.7	8.6	B1/500		G1/500
BVH	(80°-90°)	29.6	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°	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7
2.5°	988.8	987.0	980.0	980.9	980.9	980.0	969.4	965.0	965.0	964.1	954.4
5°	1024.1	1021.4	1013.5	1011.7	1008.2	1003.8	987.0	977.3	972.9	972.0	958.8
7.5°	1065.5	1062.0	1052.3	1047.0	1038.2	1026.7	1005.6	990.6	980.0	979.1	960.6
10°	1107.0	1103.5	1092.0	1082.3	1070.0	1051.4	1024.1	1002.0	985.3	983.5	961.5
12.5°	1156.4	1152.9	1138.8	1126.4	1107.9	1083.2	1047.0	1017.0	994.1	991.4	964.1
15°	1208.4	1203.1	1189.0	1174.9	1152.0	1120.2	1077.0	1037.3	1008.2	1003.8	972.0
17.5°	1251.7	1244.6	1233.1	1219.0	1193.4	1156.4	1107.0	1057.6	1021.4	1017.9	980.0
20°	1288.7	1283.4	1271.1	1257.8	1230.5	1189.9	1135.2	1077.9	1033.8	1029.4	986.2
22.5°	1324.0	1316.9	1309.9	1300.2	1270.2	1225.2	1167.9	1102.6	1049.7	1044.4	994.1
25°	1364.6	1356.6	1354.0	1348.7	1313.4	1267.5	1207.6	1133.5	1071.7	1065.5	1008.2
27.5°	1414.8	1406.0	1400.7	1400.7	1358.4	1310.8	1249.9	1169.6	1097.3	1092.0	1025.8
30°	1467.8	1457.2	1449.2	1449.2	1401.6	1354.0	1291.3	1205.8	1126.4	1120.2	1048.8
32.5°	1514.5	1503.9	1495.1	1494.2	1444.8	1397.2	1334.6	1245.5	1161.7	1153.7	1077.0
35°	1550.7	1541.0	1533.0	1534.8	1488.1	1441.3	1383.1	1298.4	1205.8	1197.0	1114.1
37.5°	1572.7	1569.2	1564.8	1571.0	1527.7	1483.6	1433.4	1349.6	1256.1	1248.1	1159.9
40°	1584.2	1581.6	1599.2	1607.1	1561.3	1521.6	1483.6	1402.5	1310.8	1301.9	1212.8
42.5°	1601.0	1623.0	1630.1	1628.3	1586.0	1550.7	1529.5	1459.8	1375.1	1367.2	1276.4
45°	1541.0	1535.7	1574.5	1595.7	1587.7	1569.2	1572.7	1528.6	1450.1	1442.2	1349.6
47.5°	1460.7	1453.7	1475.7	1527.7	1558.6	1576.3	1611.5	1600.1	1536.6	1529.5	1435.1
50°	1291.3	1301.1	1383.1	1452.8	1513.6	1574.5	1644.2	1676.8	1631.8	1624.8	1526.9
52.5°	1103.5	1113.2	1198.7	1359.3	1458.9	1561.3	1668.0	1753.6	1735.0	1727.1	1624.8
55°	966.7	987.9	1084.9	1201.4	1381.3	1519.8	1682.1	1832.1	1846.2	1839.1	1731.5
57.5°	830.9	846.8	920.0	1023.2	1275.5	1447.5	1681.2	1905.3	1962.6	1955.5	1840.0
60°	671.3	691.5	749.8	860.9	1134.3	1361.0	1656.5	1962.6	2074.6	2069.3	1945.0
62.5°	561.9	568.1	609.5	705.7	952.6	1251.7	1601.0	1993.5	2176.1	2172.5	2039.3
65°	452.5	453.4	491.3	571.6	777.1	1115.8	1506.6	1982.0	2252.8	2254.6	2107.3
67.5°	349.3	353.7	388.1	449.0	617.4	939.4	1371.6	1904.4	2253.7	2258.1	2068.5
70°	241.7	245.2	297.3	356.4	477.2	748.9	1189.0	1698.9	2068.5	2072.0	1854.1
72.5°	170.2	172.0	227.6	284.9	373.1	564.5	897.1	1405.1	1763.3	1765.9	1559.5
75°	127.0	128.8	160.5	216.1	285.8	390.8	613.0	1076.1	1408.7	1408.7	1231.4
77.5°	90.0	90.9	104.1	149.1	190.5	263.7	368.7	704.8	1033.8	1035.5	897.1
80°	60.9	61.7	67.9	100.6	119.1	142.9	200.2	369.6	651.8	654.5	569.8
82.5°	31.8	33.5	37.9	51.2	60.0	79.4	103.2	187.9	360.8	367.8	342.2
85°	12.3	12.3	14.1	16.8	22.1	30.9	47.6	71.4	163.2	168.5	150.8
87.5°	4.4	4.4	5.3	5.3	6.2	7.1	7.9	10.6	18.5	18.5	17.6
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°	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7
2.5°	950.9	950.9	946.5	948.2	947.3	945.6	943.8	946.5	943.8	937.6	936.8
5°	952.6	950.9	943.8	942.9	940.3	936.8	932.3	934.1	929.7	924.4	923.5
7.5°	953.5	950.0	940.3	936.8	931.5	924.4	917.4	917.4	911.2	905.9	905.0
10°	951.8	947.3	934.1	927.1	917.4	906.8	897.1	894.4	887.4	881.2	881.2
12.5°	952.6	946.5	929.7	918.2	905.0	891.8	879.4	875.9	869.7	863.5	862.7
15°	957.9	949.1	927.9	912.9	893.5	878.5	865.3	862.7	857.4	853.0	853.0
17.5°	963.2	951.8	925.3	904.1	880.3	863.5	851.2	851.2	847.7	845.0	845.0
20°	965.9	952.6	920.0	891.8	864.4	846.8	835.3	837.1	836.2	835.3	835.3
22.5°	972.0	954.4	915.6	880.3	847.7	829.1	818.6	821.2	820.3	820.3	821.2
25°	981.7	958.8	912.1	869.7	831.8	811.5	800.0	801.8	801.8	801.8	801.8
27.5°	995.0	967.6	911.2	860.0	815.9	793.0	778.9	778.9	775.3	776.2	777.1
30°	1015.3	984.4	912.9	851.2	799.2	770.0	753.3	750.6	749.8	751.5	752.4
32.5°	1040.0	1007.3	923.5	845.0	781.5	744.5	723.3	722.4	719.8	719.8	719.8
35°	1070.8	1029.4	933.2	844.1	763.9	717.1	694.2	691.5	685.4	682.7	682.7
37.5°	1110.5	1063.8	944.7	838.0	748.9	690.7	663.3	654.5	647.4	646.6	646.6
40°	1159.0	1102.6	961.5	830.9	733.0	663.3	627.2	612.2	613.0	616.6	616.6
42.5°	1216.4	1150.2	982.6	827.4	710.1	635.1	584.8	567.2	573.3	576.9	577.8
45°	1283.4	1206.7	1006.4	823.0	688.9	603.3	539.8	517.8	520.4	521.3	522.2
47.5°	1361.0	1269.3	1031.1	819.4	665.1	563.6	490.4	461.3	460.4	455.1	456.9
50°	1442.2	1335.5	1056.7	813.3	636.0	516.9	438.4	404.0	396.9	389.0	389.9
52.5°	1528.6	1403.4	1080.5	803.6	599.8	469.3	389.0	351.9	337.8	329.0	330.8
55°	1623.9	1473.1	1103.5	788.6	561.9	421.6	344.9	307.0	289.3	282.3	283.1
57.5°	1711.2	1540.1	1120.2	770.0	520.4	378.4	306.1	269.0	257.6	256.7	257.6
60°	1795.9	1596.5	1127.3	744.5	478.1	338.7	269.9	241.7	233.7	238.2	239.0
62.5°	1867.3	1632.7	1123.8	710.1	434.9	300.8	240.8	220.5	215.2	224.0	224.9
65°	1908.8	1644.2	1099.1	660.7	388.1	263.7	213.5	191.4	188.8	194.1	196.7
67.5°	1854.1	1572.7	1032.0	592.8	336.1	229.3	187.0	169.4	164.9	169.4	169.4
70°	1643.3	1362.8	873.2	485.1	278.7	195.8	162.3	150.0	146.4	150.0	149.1
72.5°	1369.0	1133.5	688.0	378.4	219.6	164.9	141.1	129.7	126.1	122.6	120.8
75°	1062.0	860.9	499.3	277.9	165.8	132.3	118.2	107.6	98.8	102.3	100.6
77.5°	778.0	604.2	353.7	192.3	119.1	102.3	92.6	84.7	78.5	85.6	84.7
80°	501.0	390.8	236.4	128.8	82.0	71.4	67.9	63.5	69.7	90.9	92.6
82.5°	306.1	247.9	141.1	83.8	53.8	47.6	44.1	44.1	71.4	78.5	79.4
85°	136.7	131.4	76.7	43.2	30.0	27.3	24.7	31.8	29.1	21.2	22.1
87.5°	22.1	22.9	16.8	15.0	11.5	11.5	8.8	6.2	4.4	2.6	2.6
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)