

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: P148094

Luminaire Tested: **AVS-F02-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148094
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-F02-LED-E-U-5WQ-7030
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4801.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

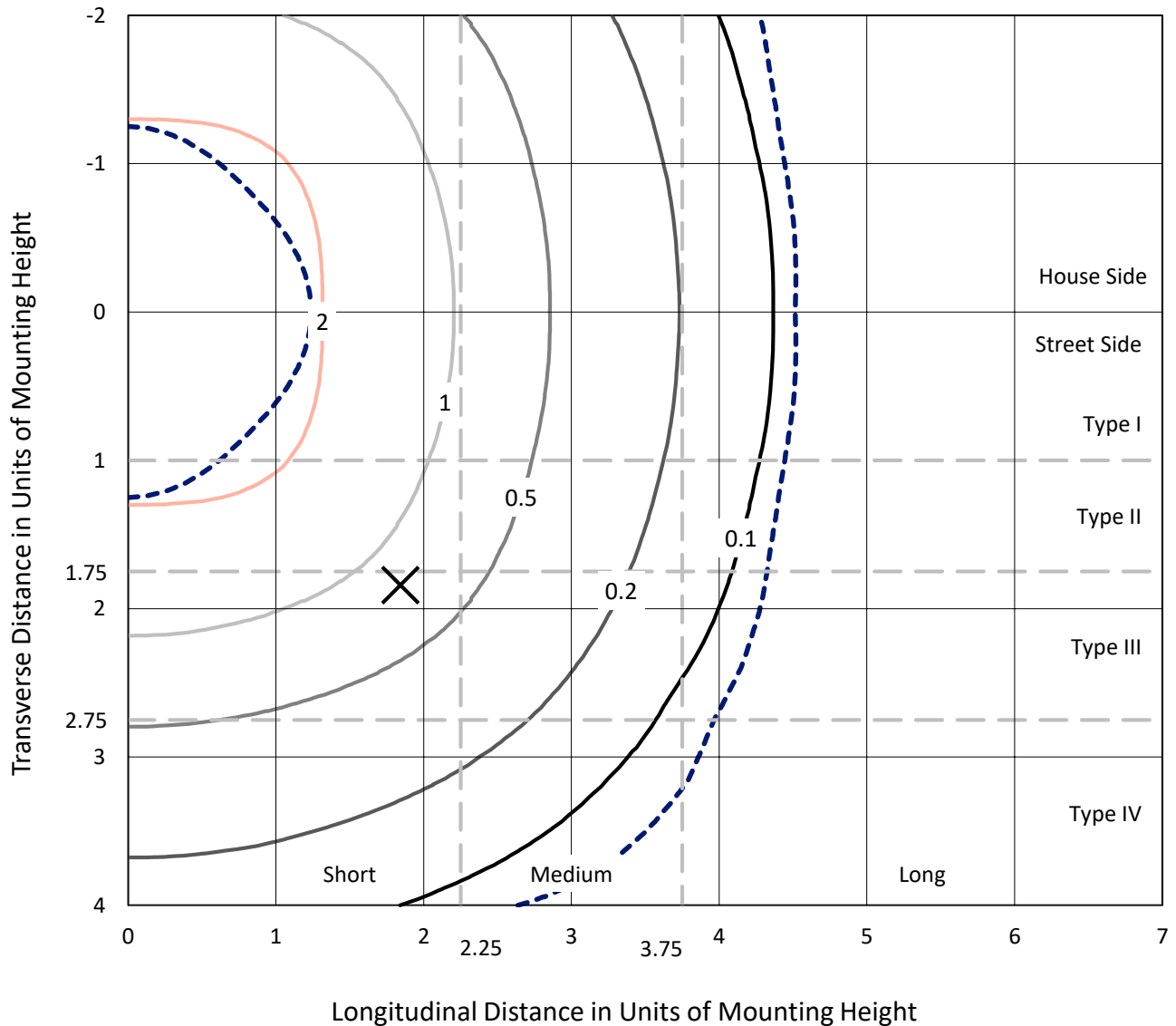
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P148094
 CATALOG NUMBER: AVS-F02-LED-E-U-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

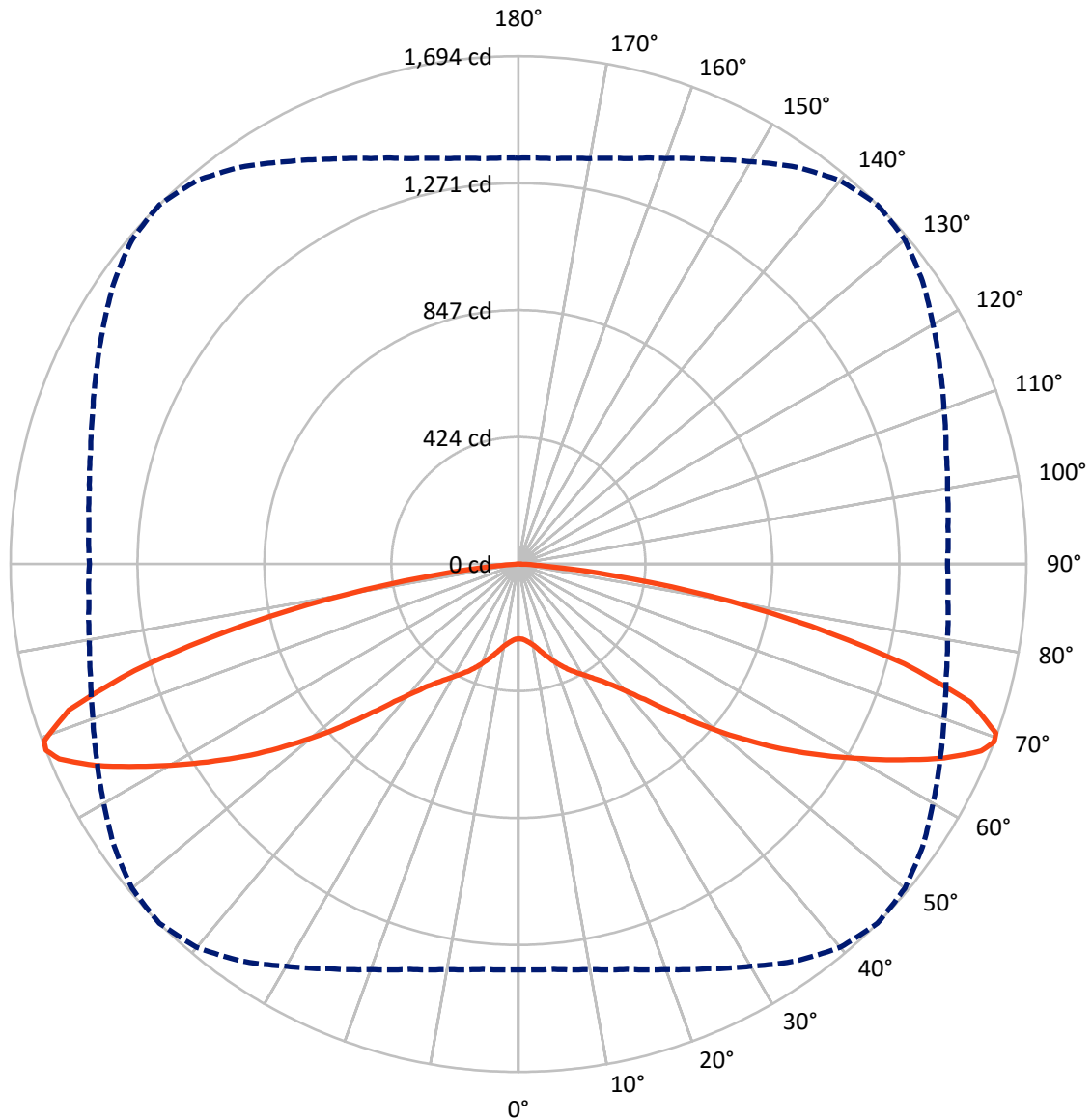
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P148094
CATALOG NUMBER: AVS-F02-LED-E-U-5WQ-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P148094

CATALOG NUMBER: AVS-F02-LED-E-U-5WQ-7030

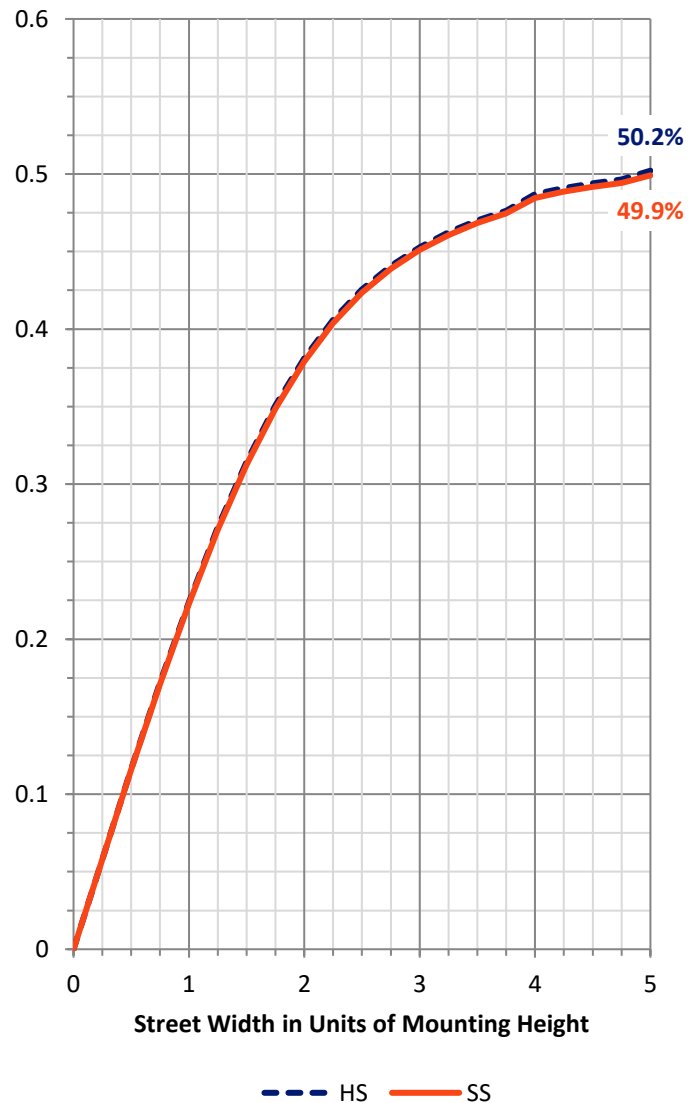
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2400.6	0.0	2400.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2400.6	0.0	2400.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4801.1	0.0	4801.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	0.5
10°-20°	88.4	1.8
20°-30°	179.0	3.7
30°-40°	300.1	6.3
40°-50°	529.4	11.0
50°-60°	933.5	19.4
60°-70°	1425.3	29.7
70°-80°	1191.0	24.8
80°-90°	129.4	2.7
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°	4801.1	100.0
0°-180°	4801.1	100.0



REPORT NUMBER: P148094

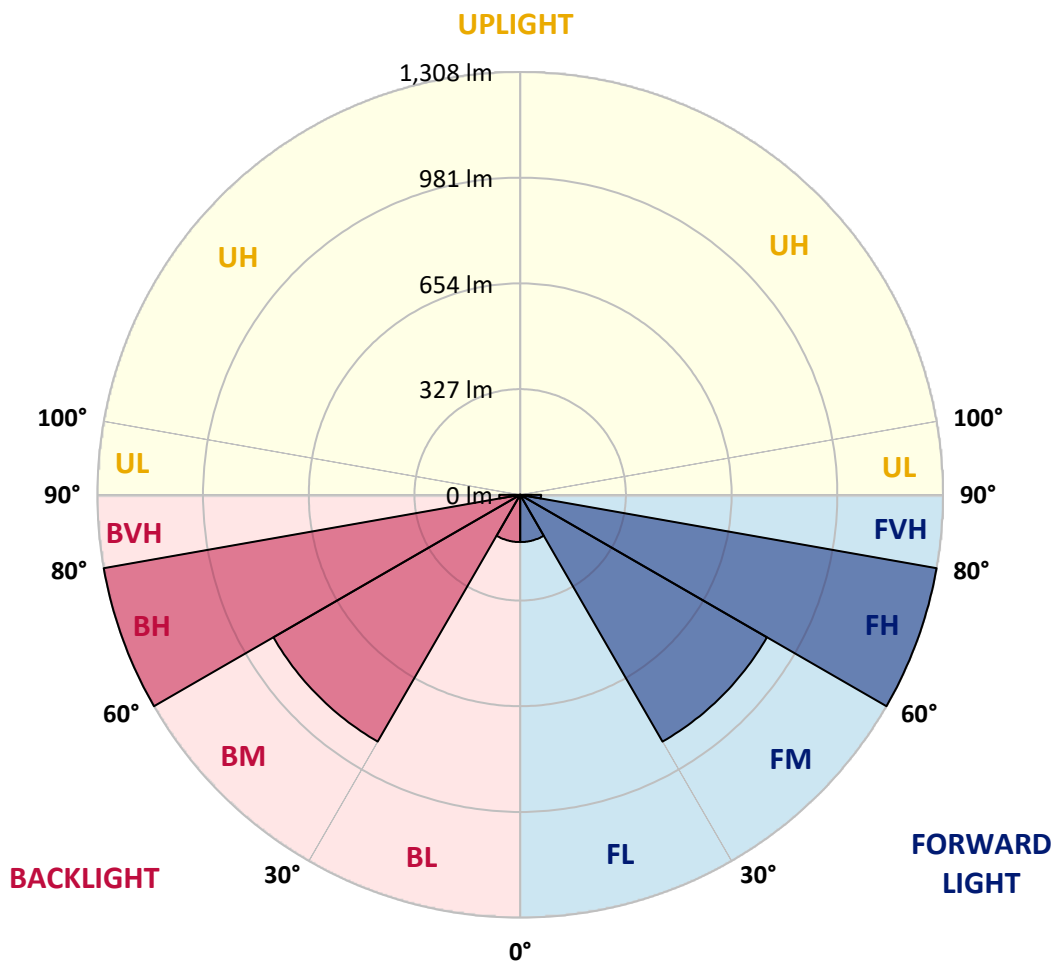
CATALOG NUMBER: AVS-F02-LED-E-U-5WQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.2	3.0			
FM	(30°-60°)	881.5	18.4			
FH	(60°-80°)	1308.1	27.2			G1/1800
FVH	(80°-90°)	64.7	1.3			G1/100
BL	(0°-30°)	146.2	3.0	B1/500		
BM	(30°-60°)	881.5	18.4	B1/1000		
BH	(60°-80°)	1308.1	27.2	B3/2500		G1/1800
BVH	(80°-90°)	64.7	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P148094

CATALOG NUMBER: AVS-F02-LED-E-U-5WQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3
2.5°	251.3	251.8	251.3	251.3	251.3	251.3	251.3	250.8	250.8	250.8	251.3
5°	256.4	256.9	256.4	256.9	256.9	256.9	256.9	256.4	256.4	256.4	256.4
7.5°	264.4	264.4	264.4	264.9	264.4	264.4	264.9	264.4	264.4	264.4	264.4
10°	276.0	275.4	275.4	275.4	275.4	275.4	276.0	276.0	276.0	275.4	275.4
12.5°	290.1	289.5	290.1	290.1	290.6	290.6	290.6	290.6	290.6	290.6	290.1
15°	307.2	307.2	307.2	307.7	308.6	308.6	308.1	308.6	308.6	308.6	308.6
17.5°	326.2	327.3	326.2	326.7	327.3	326.7	327.8	328.3	328.7	328.3	326.7
20°	345.8	346.3	346.3	346.3	346.3	347.4	347.9	347.9	349.3	348.8	348.4
22.5°	364.5	365.4	365.4	365.9	365.9	367.5	367.5	367.5	368.5	369.4	368.5
25°	384.0	383.5	383.5	384.6	385.1	387.0	387.0	388.1	389.5	390.1	389.0
27.5°	401.7	401.1	401.1	402.6	403.1	405.7	405.7	407.7	408.7	409.1	408.2
30°	420.2	420.2	419.7	421.2	422.7	424.8	425.8	427.8	429.2	429.7	428.8
32.5°	442.4	441.3	441.9	442.8	443.8	445.9	447.4	449.8	451.9	452.4	451.4
35°	467.5	466.0	466.4	467.5	469.0	472.0	474.5	476.1	479.1	480.0	478.0
37.5°	495.1	495.6	495.1	497.6	500.1	503.6	506.6	508.7	511.7	513.3	511.7
40°	534.3	532.8	534.3	536.9	540.8	545.4	551.4	553.0	556.0	559.0	555.4
42.5°	585.1	584.1	587.6	589.6	594.2	599.2	606.7	610.8	615.2	617.3	614.3
45°	651.4	651.4	655.4	656.0	663.0	669.5	680.1	685.1	693.7	693.7	693.7
47.5°	724.9	727.9	730.4	735.4	740.4	752.4	763.0	774.1	782.2	783.1	781.7
50°	800.7	803.7	811.3	818.3	829.4	844.5	856.1	870.6	877.6	883.7	881.7
52.5°	884.7	885.2	894.2	903.3	919.4	936.0	954.5	969.6	982.2	987.8	983.2
55°	976.7	977.7	985.7	995.2	1013.4	1032.4	1055.5	1071.2	1087.3	1097.3	1089.7
57.5°	1076.2	1076.7	1084.8	1096.3	1117.9	1137.0	1159.2	1181.2	1196.4	1205.4	1200.3
60°	1186.3	1188.8	1194.8	1209.4	1230.1	1250.2	1272.2	1291.8	1309.4	1319.0	1314.0
62.5°	1303.9	1306.4	1314.9	1326.5	1344.7	1366.7	1387.9	1413.0	1427.6	1438.1	1430.6
65°	1382.8	1387.4	1400.9	1416.5	1443.1	1471.8	1496.5	1530.6	1548.2	1560.7	1553.7
67.5°	1387.9	1390.4	1406.9	1430.6	1466.2	1509.5	1559.8	1613.1	1647.8	1664.4	1652.2
69°	1353.7	1357.2	1373.3	1399.9	1439.6	1489.8	1549.7	1616.1	1669.3	1694.0	1682.4
70°	1314.9	1322.5	1340.1	1369.2	1408.0	1460.7	1522.6	1593.5	1655.8	1689.4	1680.9
72.5°	1233.6	1235.5	1247.2	1270.3	1299.9	1343.6	1402.0	1468.8	1528.1	1576.4	1583.4
75°	1094.8	1101.3	1109.8	1125.5	1140.5	1172.2	1211.4	1257.2	1291.8	1329.0	1330.6
77.5°	827.4	846.9	853.5	857.0	863.5	888.7	922.9	962.6	991.3	997.3	996.3
80°	371.5	397.6	403.6	432.3	449.8	491.6	543.8	604.7	645.4	649.9	638.9
82.5°	72.8	77.9	91.0	113.6	154.8	179.5	213.7	256.4	295.5	318.1	304.7
85°	24.1	25.6	29.6	32.6	37.7	42.7	51.8	64.4	79.9	88.5	79.0
87.5°	9.5	9.5	11.1	12.0	13.1	13.1	13.1	12.0	11.6	9.5	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P148094

CATALOG NUMBER: AVS-F02-LED-E-U-5WQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3
2.5°	250.8	250.8	250.8	250.8	250.8	250.8	250.8	250.8
5°	256.4	255.9	255.9	255.3	255.3	255.3	255.3	255.3
7.5°	263.9	263.4	262.9	263.4	262.9	262.9	262.9	262.9
10°	275.4	274.4	274.0	273.5	273.5	273.5	273.0	273.0
12.5°	289.0	289.0	288.5	288.0	287.0	287.6	287.0	286.0
15°	307.7	306.6	306.1	305.6	304.7	304.7	304.7	304.1
17.5°	326.2	325.2	325.2	323.7	323.2	323.2	323.2	323.7
20°	346.8	345.3	344.4	343.3	342.3	342.8	341.8	342.8
22.5°	367.5	365.4	364.5	362.9	361.5	361.5	360.9	359.9
25°	387.6	385.1	384.0	382.5	380.5	380.5	379.5	378.5
27.5°	406.6	404.1	403.1	400.1	398.1	397.6	396.6	396.1
30°	427.8	424.8	423.2	420.2	417.2	416.7	415.2	415.2
32.5°	449.8	446.8	445.9	441.3	438.9	438.9	437.8	436.8
35°	477.5	473.1	472.0	467.5	463.9	463.9	462.9	463.4
37.5°	510.2	506.6	503.2	499.7	495.6	495.1	494.1	493.2
40°	553.9	549.9	545.9	540.8	537.3	536.4	534.8	534.3
42.5°	612.2	608.2	600.2	596.2	592.6	589.6	589.1	588.6
45°	686.6	681.7	676.1	668.5	664.0	657.5	656.5	654.0
47.5°	776.1	766.5	757.0	750.5	743.4	735.9	734.4	730.4
50°	871.1	863.5	847.5	836.9	825.9	818.3	813.3	811.8
52.5°	973.2	959.1	943.0	928.9	912.8	902.8	893.8	891.2
55°	1079.7	1059.6	1039.5	1022.9	1006.8	994.8	986.2	982.2
57.5°	1186.3	1164.1	1142.1	1123.9	1110.4	1094.8	1086.2	1084.2
60°	1297.4	1276.3	1253.7	1235.5	1219.0	1205.4	1200.3	1190.8
62.5°	1415.0	1392.8	1371.8	1354.2	1333.1	1323.5	1314.9	1309.4
65°	1530.6	1505.0	1478.3	1459.7	1438.7	1425.1	1414.5	1406.9
67.5°	1620.1	1581.3	1545.7	1514.5	1485.9	1464.8	1451.2	1444.1
69°	1645.2	1597.0	1551.2	1510.5	1476.8	1453.2	1438.1	1431.1
70°	1642.2	1588.9	1538.7	1493.9	1457.2	1432.1	1417.5	1404.5
72.5°	1549.2	1500.4	1444.7	1395.9	1362.7	1338.5	1324.0	1317.0
75°	1322.0	1289.3	1249.1	1211.4	1187.3	1173.3	1155.1	1155.6
77.5°	962.6	963.6	936.5	897.7	870.6	865.6	857.5	849.5
80°	597.2	549.4	518.2	476.5	445.9	419.2	407.7	382.5
82.5°	275.4	215.1	166.8	126.2	97.0	75.9	66.3	54.3
85°	61.3	46.7	38.8	31.2	26.6	24.7	20.1	18.5
87.5°	8.5	7.6	7.0	6.5	5.5	4.0	3.0	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)