

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: P507601

Luminaire Tested: **VERD-S-CA1-50-750-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-750-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 940mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7571 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.5
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

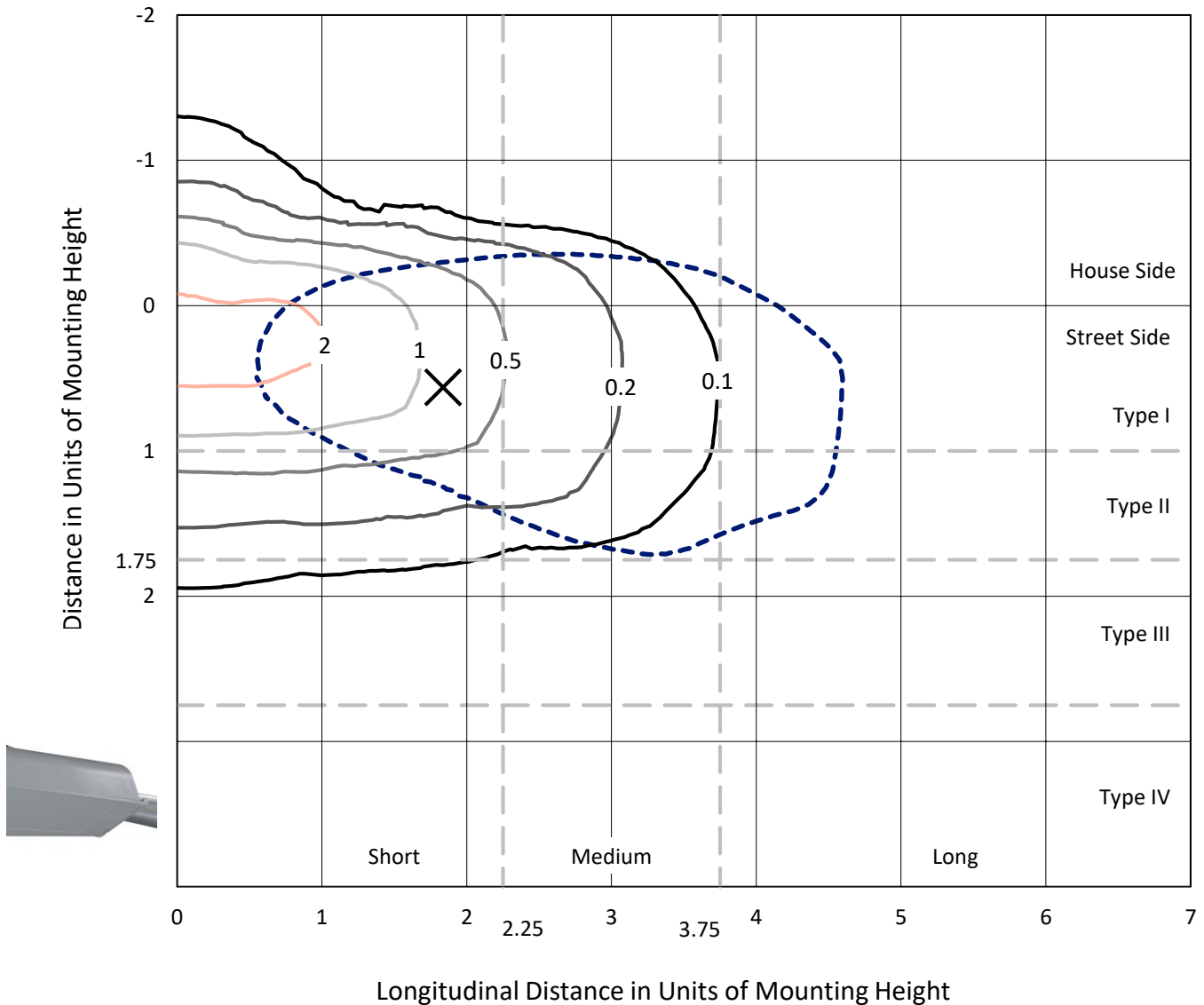


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Iso-Footcandle Lines of Horizontal Illumination

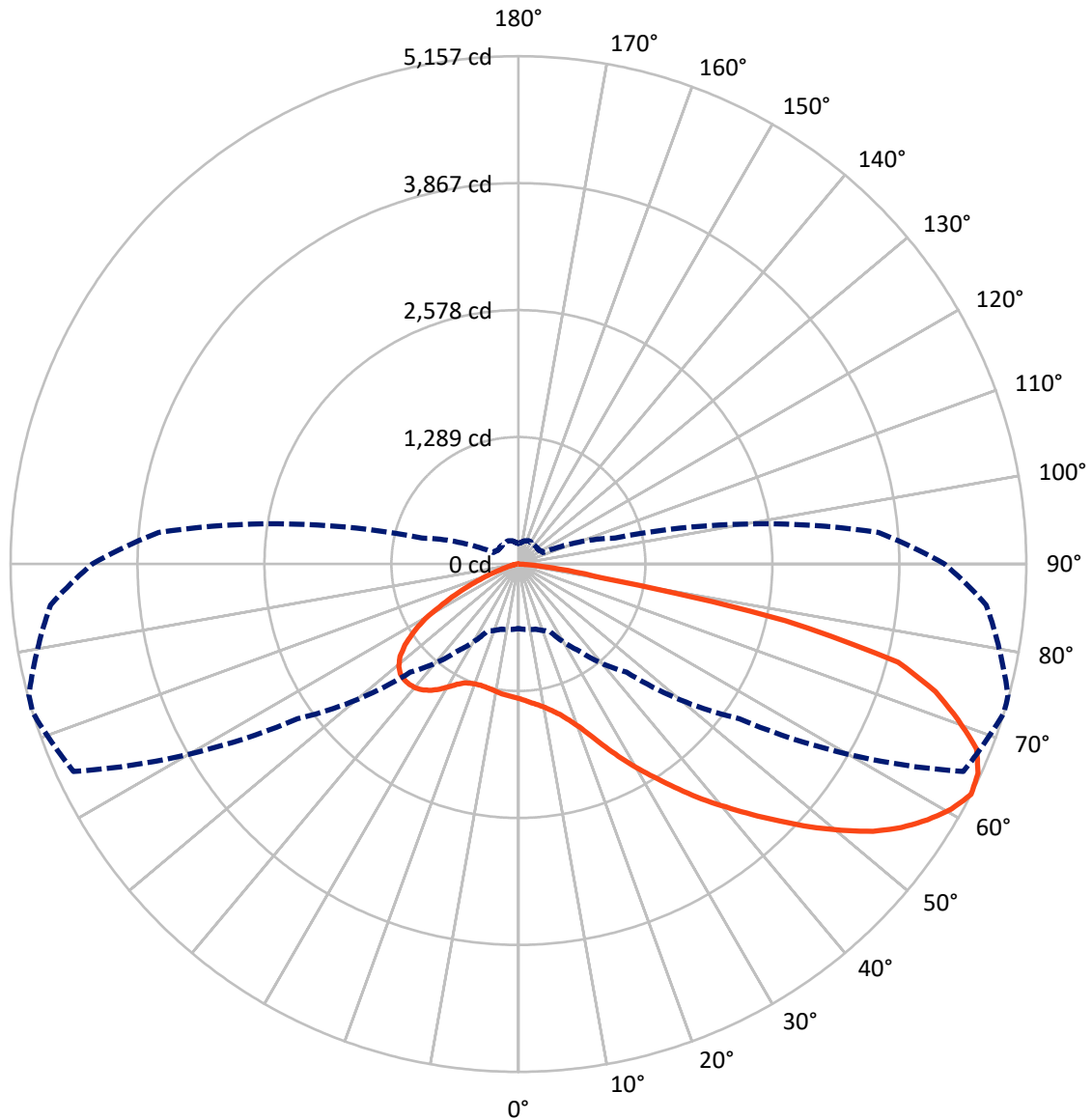
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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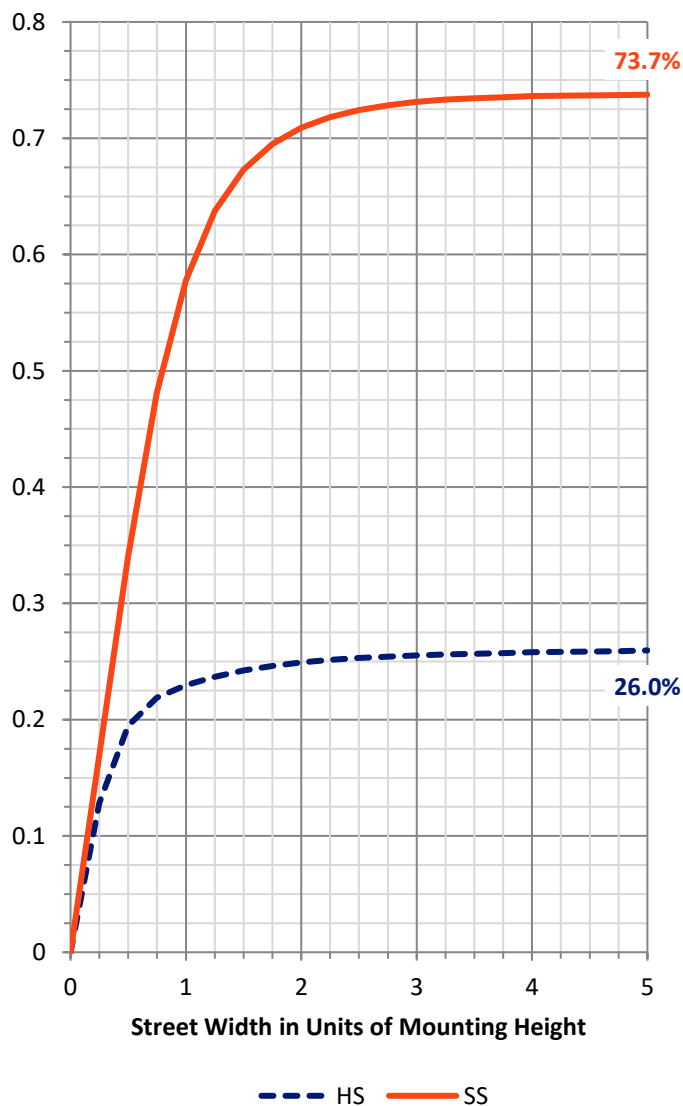
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.3	0.0	1994.3
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	5576.7	0.0	5576.7
	% Fixture	73.7	0.0	73.7
Total	Lumens	7571.0	0.0	7571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	1.7
10°-20°	404.0	5.3
20°-30°	699.3	9.2
30°-40°	1012.7	13.4
40°-50°	1297.1	17.1
50°-60°	1501.8	19.8
60°-70°	1512.3	20.0
70°-80°	924.6	12.2
80°-90°	87.1	1.1
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°	7571.0	100.0
0°-180°	7571.0	100.0

Coefficient of Utilization



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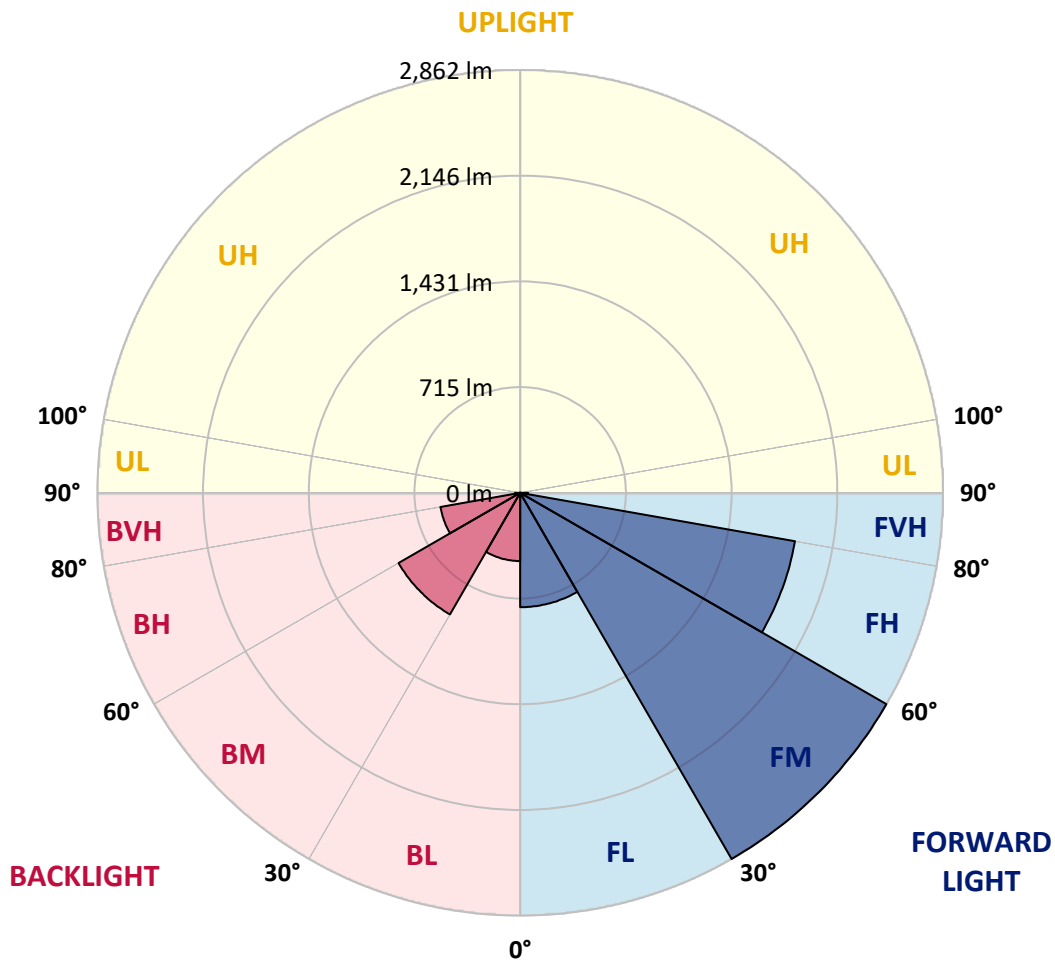
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.8	10.2			
FM (30°-60°)	2861.6	37.8			
FH (60°-80°)	1888.7	24.9			G2/5000
FVH (80°-90°)	52.6	0.7			G1/100
BL (0°-30°)	461.6	6.1	B1/500		
BM (30°-60°)	950.0	12.5	B1/1000		
BH (60°-80°)	548.2	7.2	B2/1000		G2/1000
BVH (80°-90°)	34.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5
2.5°	1437.9	1435.8	1431.5	1429.4	1425.1	1414.5	1408.1	1397.4	1388.9	1386.7	1373.9
5°	1508.3	1510.5	1508.3	1501.9	1493.4	1478.5	1457.1	1429.4	1416.6	1412.3	1391.0
7.5°	1574.5	1574.5	1572.4	1563.8	1555.3	1536.1	1506.2	1474.2	1444.3	1435.8	1408.1
10°	1638.5	1638.5	1632.1	1623.6	1610.8	1587.3	1557.4	1516.9	1480.6	1467.8	1420.9
12.5°	1706.8	1704.6	1696.1	1683.3	1666.2	1647.0	1615.0	1570.2	1529.7	1514.7	1448.6
15°	1760.1	1760.1	1753.7	1745.2	1730.2	1706.8	1676.9	1638.5	1585.2	1572.4	1487.0
17.5°	1807.0	1809.2	1804.9	1804.9	1792.1	1775.0	1749.4	1717.4	1666.2	1647.0	1544.6
20°	1845.4	1843.3	1851.8	1858.2	1862.5	1851.8	1836.9	1815.6	1764.4	1745.2	1619.3
22.5°	1862.5	1866.8	1892.4	1924.4	1943.6	1945.7	1943.6	1941.4	1896.6	1871.0	1721.7
25°	1871.0	1877.4	1915.8	1971.3	2014.0	2046.0	2080.1	2101.4	2060.9	2041.7	1875.3
27.5°	1879.6	1886.0	1930.8	1999.0	2080.1	2156.9	2225.2	2265.7	2235.9	2212.4	2033.2
30°	1864.6	1871.0	1922.2	2018.2	2133.4	2267.9	2363.9	2421.5	2417.2	2402.3	2214.5
32.5°	1832.6	1839.0	1896.6	2016.1	2188.9	2380.9	2487.6	2583.6	2602.8	2587.9	2395.9
35°	1775.0	1783.6	1849.7	1990.5	2214.5	2474.8	2617.7	2758.5	2807.6	2809.8	2594.3
37.5°	1696.1	1700.4	1781.4	1941.4	2223.1	2540.9	2726.5	2927.1	3027.4	3029.5	2797.0
40°	1589.4	1600.1	1700.4	1879.6	2203.9	2587.9	2835.4	3110.6	3242.8	3227.9	3016.7
42.5°	1467.8	1476.3	1574.5	1781.4	2159.0	2615.6	2935.6	3302.6	3477.5	3469.0	3223.6
45°	1359.0	1371.8	1446.5	1644.9	2073.7	2622.0	3023.1	3494.6	3720.7	3710.1	3434.9
47.5°	1213.9	1245.9	1346.2	1523.3	1945.7	2594.3	3102.0	3754.9	3989.5	3974.6	3656.7
50°	934.5	945.1	1156.3	1420.9	1800.6	2526.0	3170.3	3995.9	4249.8	4239.2	3889.3
52.5°	842.7	851.2	919.5	1303.5	1655.6	2404.4	3210.8	4305.3	4510.1	4480.2	4098.4
55°	791.5	800.0	838.4	1041.1	1529.7	2220.9	3219.4	4567.7	4721.3	4693.6	4294.6
57.5°	744.6	751.0	787.2	891.8	1384.6	1967.0	3174.6	4778.9	4900.5	4872.8	4471.7
60°	695.5	701.9	740.3	810.7	1205.4	1734.5	3027.4	4943.2	5052.0	5024.3	4631.7
62.5°	655.0	665.6	684.8	751.0	1077.4	1553.2	2739.3	4983.7	5156.5	5145.9	4768.3
65°	605.9	610.2	640.0	693.4	951.5	1427.3	2430.0	4866.4	5128.8	5148.0	4849.3
67.5°	550.4	552.6	580.3	618.7	795.8	1303.5	2154.8	4708.5	5017.9	5049.9	4789.6
70°	475.8	477.9	503.5	544.0	659.2	1130.7	1871.0	4476.0	4734.1	4764.0	4559.2
72.5°	396.8	396.8	418.2	463.0	544.0	936.6	1497.7	3966.1	4429.0	4478.1	4183.7
75°	172.8	179.2	215.5	258.1	352.0	689.1	1021.9	3070.0	3981.0	4015.1	3667.4
77.5°	46.9	46.9	55.5	72.5	102.4	307.2	324.3	1350.5	2773.5	2861.0	2711.6
80°	38.4	38.4	42.7	55.5	70.4	151.5	108.8	435.2	857.6	1130.7	1405.9
82.5°	21.3	21.3	25.6	32.0	38.4	38.4	38.4	221.9	422.4	450.2	588.8
85°	10.7	12.8	12.8	14.9	14.9	12.8	12.8	44.8	81.1	91.7	140.8
87.5°	4.3	4.3	4.3	4.3	2.1	2.1	4.3	6.4	6.4	8.5	10.7
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°	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5	1367.5
2.5°	1369.7	1363.3	1354.7	1348.3	1335.5	1322.7	1314.2	1307.8	1305.7	1303.5	1303.5
5°	1378.2	1367.5	1344.1	1320.6	1301.4	1284.3	1269.4	1258.7	1254.5	1252.3	1252.3
7.5°	1391.0	1376.1	1337.7	1303.5	1269.4	1243.8	1220.3	1205.4	1196.9	1199.0	1205.4
10°	1397.4	1373.9	1322.7	1288.6	1243.8	1203.3	1175.5	1158.5	1152.1	1152.1	1149.9
12.5°	1414.5	1380.3	1312.1	1258.7	1220.3	1164.9	1132.9	1117.9	1109.4	1096.6	1092.3
15°	1440.1	1397.4	1307.8	1237.4	1177.7	1128.6	1085.9	1064.6	1058.2	1041.1	1041.1
17.5°	1487.0	1427.3	1307.8	1213.9	1137.1	1090.2	1034.7	1004.9	1000.6	989.9	987.8
20°	1542.5	1467.8	1318.5	1190.5	1094.5	1032.6	970.7	940.9	930.2	919.5	919.5
22.5°	1630.0	1529.7	1337.7	1173.4	1049.7	972.9	904.6	861.9	844.8	842.7	838.4
25°	1764.4	1627.8	1367.5	1156.3	1004.9	906.7	838.4	783.0	755.2	751.0	748.8
27.5°	1911.6	1762.2	1427.3	1141.4	955.8	832.0	751.0	691.2	657.1	652.8	650.7
30°	2069.4	1900.9	1506.2	1128.6	893.9	746.7	655.0	597.4	565.4	556.8	559.0
32.5°	2242.3	2050.2	1591.6	1117.9	827.8	635.8	550.4	512.0	477.9	463.0	465.1
35°	2410.8	2182.5	1666.2	1109.4	740.3	535.5	469.4	428.8	394.7	375.5	375.5
37.5°	2600.7	2338.3	1728.1	1092.3	646.4	467.2	403.2	362.7	337.1	320.0	320.0
40°	2786.3	2494.0	1777.2	1060.3	541.9	411.8	332.8	309.3	292.3	281.6	277.3
42.5°	2967.6	2649.7	1809.2	1007.0	454.4	345.6	277.3	275.2	277.3	266.7	264.5
45°	3155.4	2803.4	1832.6	921.6	392.6	285.9	247.5	262.4	277.3	273.1	273.1
47.5°	3360.2	2952.7	1851.8	783.0	332.8	251.7	245.3	260.3	279.5	281.6	281.6
50°	3556.5	3104.2	1845.4	605.9	292.3	249.6	247.5	251.7	277.3	283.7	279.5
52.5°	3739.9	3234.3	1794.2	441.6	273.1	253.9	253.9	249.6	270.9	275.2	277.3
55°	3925.5	3355.9	1679.0	349.9	262.4	253.9	264.5	253.9	260.3	262.4	266.7
57.5°	4094.1	3479.7	1508.3	313.6	260.3	253.9	264.5	258.1	258.1	249.6	247.5
60°	4224.2	3582.1	1301.4	298.7	253.9	256.0	260.3	260.3	253.9	234.7	228.3
62.5°	4326.6	3667.4	1017.7	279.5	249.6	251.7	249.6	258.1	243.2	215.5	209.1
65°	4384.2	3682.3	778.7	258.1	238.9	247.5	241.1	238.9	226.1	196.3	183.5
67.5°	4320.2	3577.8	544.0	236.8	226.1	241.1	230.4	221.9	206.9	179.2	162.1
70°	4072.8	3274.8	358.4	209.1	209.1	226.1	217.6	204.8	185.6	164.3	145.1
72.5°	3607.7	2822.6	215.5	172.8	185.6	206.9	202.7	185.6	130.1	100.3	87.5
75°	3050.8	2319.1	138.7	130.1	151.5	185.6	187.7	166.4	110.9	89.6	89.6
77.5°	2216.7	1523.3	81.1	72.5	100.3	149.3	160.0	121.6	119.5	166.4	121.6
80°	1137.1	738.2	61.9	44.8	53.3	110.9	89.6	91.7	181.3	134.4	85.3
82.5°	492.8	292.3	38.4	32.0	34.1	55.5	57.6	151.5	140.8	78.9	53.3
85°	104.5	55.5	21.3	21.3	21.3	25.6	32.0	164.3	87.5	40.5	17.1
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	8.5	8.5	8.5	6.4	6.4
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)