

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: P507725

Luminaire Tested: **VERD-S-CA1-80-727-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-727-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1500mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9108 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1  
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

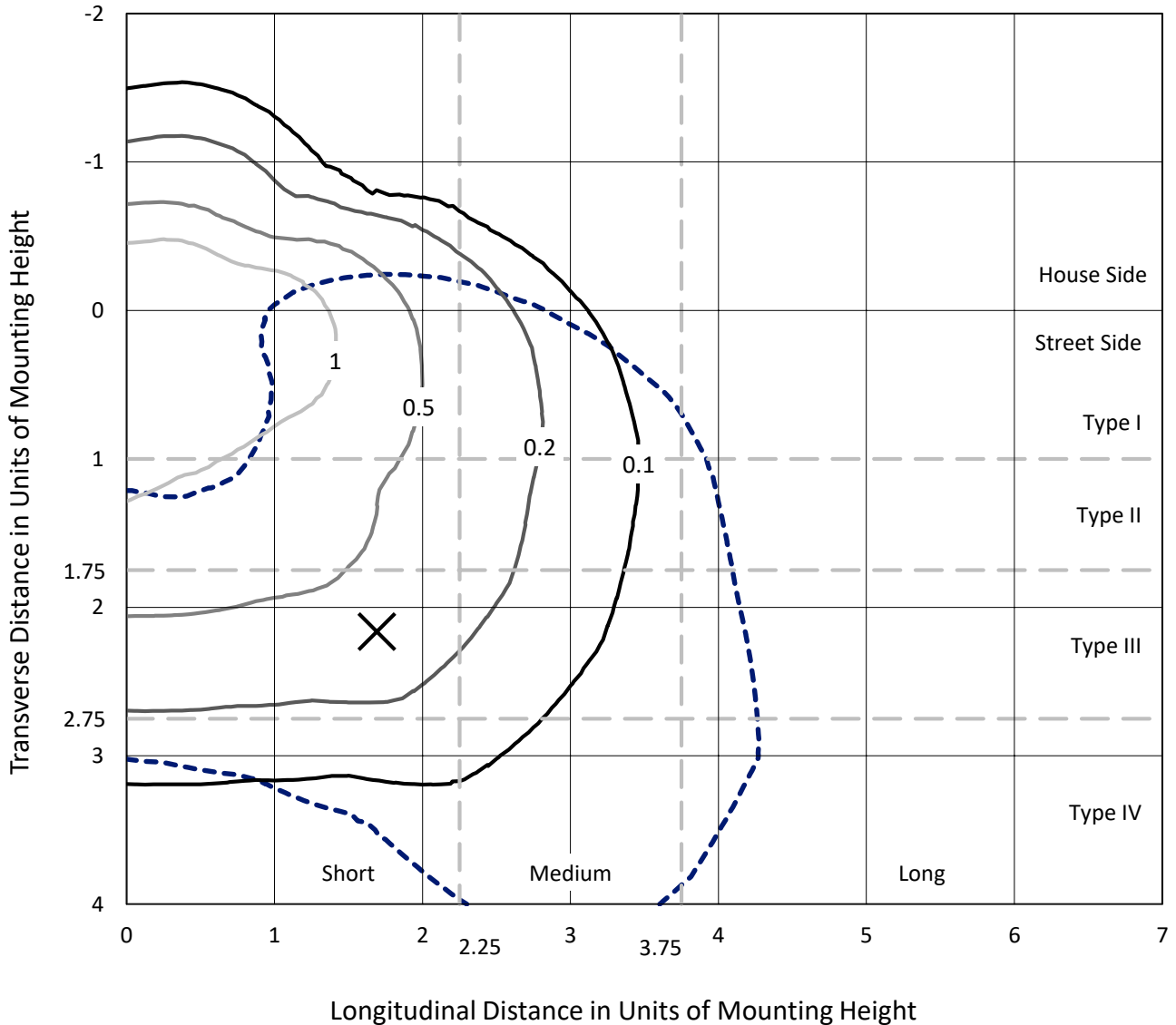


REPORT NUMBER: P507725

CATALOG NUMBER: VERD-S-CA1-80-727-U-T4

### Iso-Footcandle Lines of Horizontal Illumination

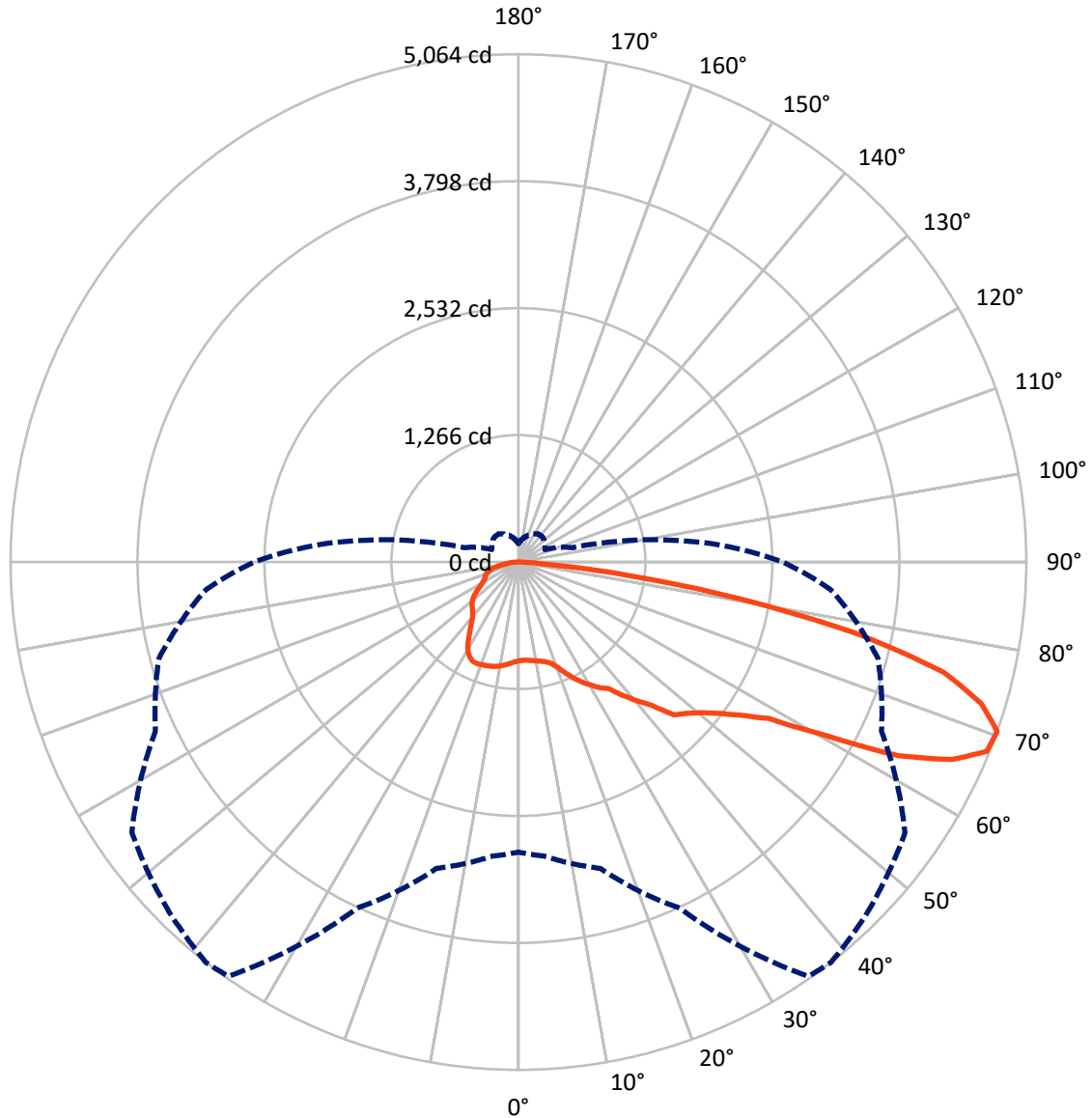
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P507725  
CATALOG NUMBER: VERD-S-CA1-80-727-U-T4

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P507725

CATALOG NUMBER: VERD-S-CA1-80-727-U-T4

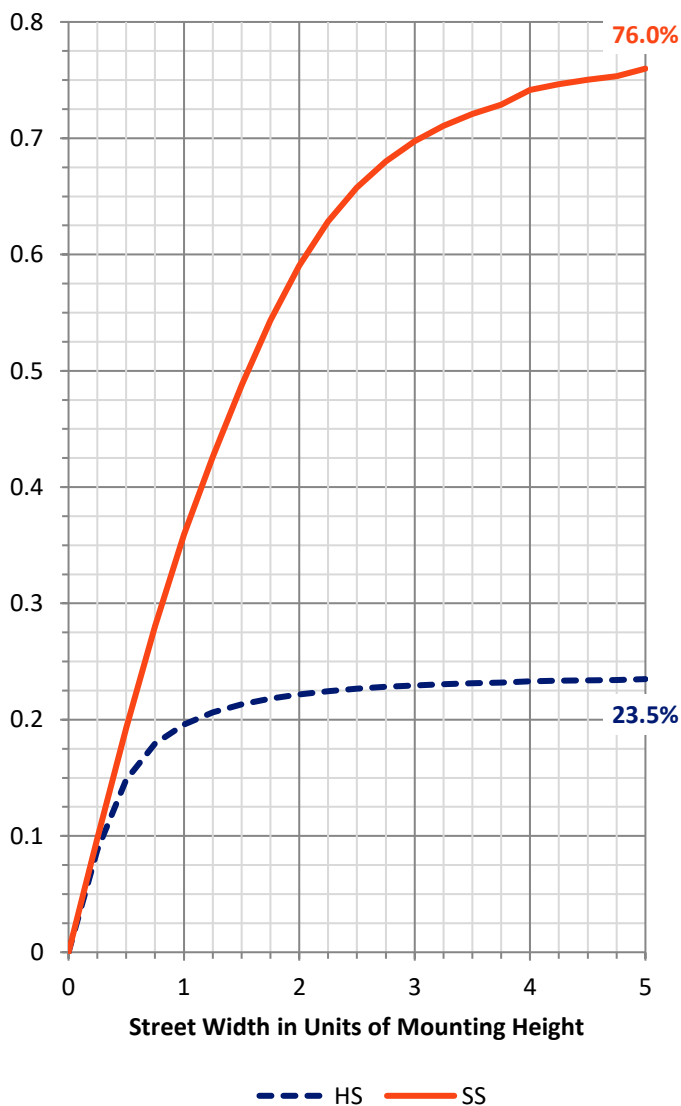
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2163.2	0.0	2163.2
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	6944.8	0.0	6944.8
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	9108.0	0.0	9108.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	1.1
10°-20°	302.4	3.3
20°-30°	561.1	6.2
30°-40°	868.6	9.5
40°-50°	1287.1	14.1
50°-60°	1793.4	19.7
60°-70°	2303.2	25.3
70°-80°	1685.1	18.5
80°-90°	211.1	2.3
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°	9108.0	100.0
0°-180°	9108.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507725

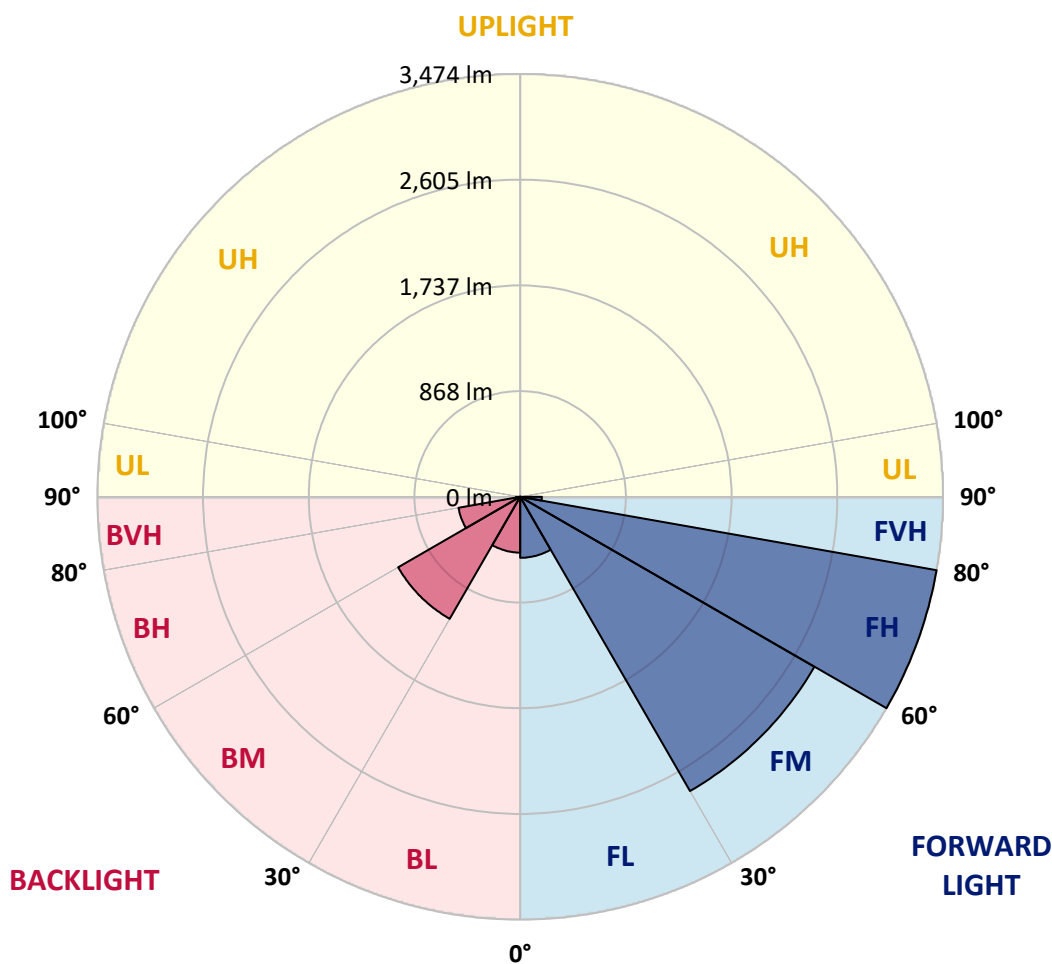
CATALOG NUMBER: VERD-S-CA1-80-727-U-T4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.2	5.5			
FM (30°-60°)	2791.4	30.6			
FH (60°-80°)	3473.9	38.1			G2/5000
FVH (80°-90°)	178.4	2.0			G2/225
BL (0°-30°)	458.3	5.0	B1/500		
BM (30°-60°)	1157.9	12.7	B2/2500		
BH (60°-80°)	514.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	32.7	0.4			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 IV Short





REPORT NUMBER: P507725

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2
2.5°	981.6	981.6	981.6	979.0	979.0	979.0	976.4	976.4	979.0	981.6	981.6
5°	989.3	989.3	986.8	986.8	984.2	984.2	984.2	981.6	981.6	981.6	986.8
7.5°	991.9	991.9	991.9	991.9	991.9	991.9	994.5	991.9	991.9	991.9	997.1
10°	991.9	991.9	994.5	994.5	999.7	1002.3	1004.9	1010.1	1010.1	1010.1	1012.7
12.5°	997.1	997.1	999.7	1002.3	1010.1	1015.3	1020.5	1028.3	1030.9	1030.9	1033.5
15°	1007.5	1007.5	1010.1	1017.9	1028.3	1030.9	1038.7	1049.1	1059.5	1062.1	1064.7
17.5°	1049.1	1049.1	1049.1	1049.1	1059.5	1062.1	1072.4	1088.0	1098.4	1103.6	1111.4
20°	1132.2	1134.8	1129.6	1127.0	1121.8	1121.8	1121.8	1129.6	1142.6	1160.7	1173.7
22.5°	1238.6	1238.6	1238.6	1217.9	1204.9	1202.3	1202.3	1199.7	1210.1	1228.2	1246.4
25°	1321.7	1324.3	1321.7	1303.6	1288.0	1282.8	1282.8	1290.6	1290.6	1306.1	1326.9
27.5°	1389.2	1394.4	1386.6	1371.1	1358.1	1355.5	1358.1	1381.5	1394.4	1404.8	1430.8
30°	1462.0	1464.5	1446.4	1436.0	1428.2	1423.0	1425.6	1459.4	1503.5	1516.5	1560.6
32.5°	1597.0	1597.0	1571.0	1511.3	1490.5	1493.1	1493.1	1537.3	1597.0	1656.7	1713.8
35°	1724.2	1721.6	1698.3	1646.3	1568.4	1550.2	1560.6	1607.4	1700.8	1802.1	1903.4
37.5°	1874.8	1869.6	1848.9	1776.2	1711.2	1682.7	1625.5	1687.9	1802.1	2002.1	2105.9
40°	2043.6	2035.8	1989.1	1916.4	1830.7	1817.7	1768.4	1778.7	1929.4	2212.4	2331.8
42.5°	2137.1	2131.9	2100.7	2041.0	1978.7	1952.7	1911.2	1898.2	2100.7	2485.1	2544.8
45°	2225.4	2235.8	2235.8	2207.2	2181.2	2176.0	2147.5	2157.9	2321.5	2708.4	2731.7
47.5°	2279.9	2290.3	2256.5	2251.4	2251.4	2253.9	2282.5	2352.6	2521.4	2918.7	2895.3
50°	2443.5	2435.7	2300.7	2321.5	2344.8	2360.4	2422.7	2534.4	2799.3	3108.3	3038.2
52.5°	2739.5	2669.4	2508.4	2461.7	2474.7	2505.8	2588.9	2734.3	3082.3	3277.1	3162.8
55°	3105.7	3064.1	2918.7	2711.0	2643.5	2695.4	2783.7	2931.7	3300.4	3435.5	3261.5
57.5°	3352.4	3367.9	3386.1	3243.3	2929.1	2942.1	3001.8	3126.4	3518.5	3588.7	3339.4
60°	3601.6	3619.8	3721.1	3684.7	3612.0	3492.6	3274.5	3334.2	3682.1	3689.9	3396.5
62.5°	3799.0	3812.0	3962.6	4045.7	4235.2	4250.8	3910.7	3596.4	3853.5	3770.4	3419.9
65°	3700.3	3723.7	3949.6	4180.7	4702.7	4746.8	4635.1	3934.0	3986.0	3801.6	3401.7
67.5°	3367.9	3401.7	3640.6	4131.4	5001.3	5035.0	4926.0	4570.2	4032.7	3788.6	3313.4
70°	2892.7	2942.1	3162.8	3806.8	5042.8	5063.6	4928.6	4705.2	3993.7	3710.7	3123.8
72.5°	2352.6	2391.6	2614.9	3264.1	4790.9	4824.7	4783.1	4593.6	3910.7	3560.1	2742.1
75°	1802.1	1804.7	2041.0	2557.8	4240.4	4375.5	4445.6	4378.1	3684.7	3131.6	2111.1
77.5°	1137.4	1171.1	1412.6	1937.1	3331.6	3469.2	3500.4	3417.3	2578.5	1921.6	908.9
80°	511.6	563.5	810.2	1308.7	2266.9	2261.7	2279.9	2074.8	1373.7	610.2	101.3
82.5°	184.4	194.8	340.2	657.0	1098.4	1127.0	1114.0	958.2	371.3	85.7	62.3
85°	77.9	83.1	111.7	176.6	249.3	264.9	228.5	174.0	59.7	49.3	41.5
87.5°	5.2	5.2	5.2	5.2	5.2	7.8	7.8	7.8	7.8	10.4	13.0
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: P507725  
 CATALOG NUMBER: VERD-S-CA1-80-727-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2	984.2
2.5°	981.6	984.2	986.8	991.9	991.9	994.5	997.1	999.7	999.7	999.7	999.7
5°	989.3	991.9	994.5	1002.3	1007.5	1010.1	1015.3	1017.9	1020.5	1020.5	1020.5
7.5°	999.7	1002.3	1007.5	1015.3	1023.1	1028.3	1033.5	1036.1	1038.7	1038.7	1038.7
10°	1015.3	1020.5	1028.3	1038.7	1046.5	1046.5	1049.1	1051.7	1054.3	1054.3	1054.3
12.5°	1036.1	1041.3	1054.3	1067.2	1069.8	1067.2	1062.1	1062.1	1059.5	1056.9	1056.9
15°	1069.8	1072.4	1090.6	1101.0	1093.2	1080.2	1069.8	1059.5	1051.7	1046.5	1046.5
17.5°	1116.6	1124.4	1142.6	1142.6	1121.8	1098.4	1072.4	1046.5	1025.7	1017.9	1015.3
20°	1184.1	1194.5	1210.1	1194.5	1160.7	1119.2	1072.4	1030.9	989.3	963.4	955.6
22.5°	1259.4	1272.4	1277.6	1243.8	1194.5	1137.4	1075.0	1010.1	942.6	885.5	869.9
25°	1347.7	1355.5	1337.3	1282.8	1215.3	1142.6	1067.2	981.6	877.7	802.4	794.6
27.5°	1451.6	1443.8	1394.4	1311.3	1220.5	1132.2	1038.7	924.4	794.6	737.5	729.7
30°	1563.2	1534.7	1443.8	1326.9	1204.9	1101.0	989.3	838.7	732.3	685.5	680.3
32.5°	1695.7	1638.5	1490.5	1329.5	1176.3	1046.5	908.9	768.6	690.7	638.8	633.6
35°	1843.7	1755.4	1532.1	1313.9	1119.2	971.2	812.8	716.7	646.6	597.2	586.9
37.5°	2043.6	1913.8	1584.0	1280.2	1046.5	875.1	742.7	662.2	602.4	547.9	540.1
40°	2248.8	2095.5	1656.7	1241.2	966.0	797.2	682.9	623.2	571.3	509.0	496.0
42.5°	2453.9	2277.3	1755.4	1194.5	885.5	737.5	657.0	618.0	555.7	490.8	477.8
45°	2622.7	2433.1	1848.9	1140.0	805.0	682.9	641.4	607.6	545.3	475.2	459.6
47.5°	2768.1	2563.0	1929.4	1090.6	727.1	641.4	628.4	589.5	529.7	459.6	444.0
50°	2890.1	2666.8	1994.3	1049.1	662.2	612.8	602.4	555.7	493.4	433.7	423.3
52.5°	2996.6	2742.1	2022.8	1036.1	597.2	579.1	560.9	514.1	457.0	402.5	386.9
55°	3066.7	2799.3	2017.6	1036.1	534.9	532.3	511.6	475.2	433.7	389.5	373.9
57.5°	3121.3	2825.2	1978.7	885.5	483.0	472.6	459.6	444.0	418.1	368.7	353.2
60°	3147.2	2809.6	1895.6	644.0	431.1	412.9	423.3	418.1	392.1	324.6	314.2
62.5°	3131.6	2762.9	1708.6	470.0	376.5	373.9	389.5	379.1	329.8	270.1	264.9
65°	3071.9	2646.1	1469.7	353.2	345.4	363.5	371.3	350.6	303.8	249.3	228.5
67.5°	2918.7	2420.1	1069.8	316.8	335.0	355.7	360.9	332.4	285.6	233.7	207.7
70°	2635.7	1994.3	555.7	293.4	319.4	345.4	342.8	306.4	259.7	212.9	181.8
72.5°	2137.1	1415.2	210.3	262.3	296.0	322.0	316.8	275.3	184.4	132.4	119.4
75°	1386.6	677.7	181.8	225.9	264.9	288.2	290.8	249.3	161.0	111.7	96.1
77.5°	475.2	124.6	148.0	187.0	228.5	259.7	251.9	199.9	124.6	83.1	75.3
80°	80.5	83.1	114.3	132.4	158.4	207.7	176.6	142.8	98.7	59.7	49.3
82.5°	57.1	70.1	80.5	77.9	109.1	137.6	119.4	96.1	64.9	46.7	41.5
85°	41.5	46.7	44.1	46.7	62.3	90.9	83.1	67.5	46.7	33.8	28.6
87.5°	15.6	15.6	20.8	26.0	39.0	57.1	49.3	20.8	18.2	15.6	15.6
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)