

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: P507645

Luminaire Tested: **VERD-S-CA1-60-740-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507645  
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-CA1-60-740-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1150mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8631 lumens  
Efficiency: N/A  
Efficacy: 136.4 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

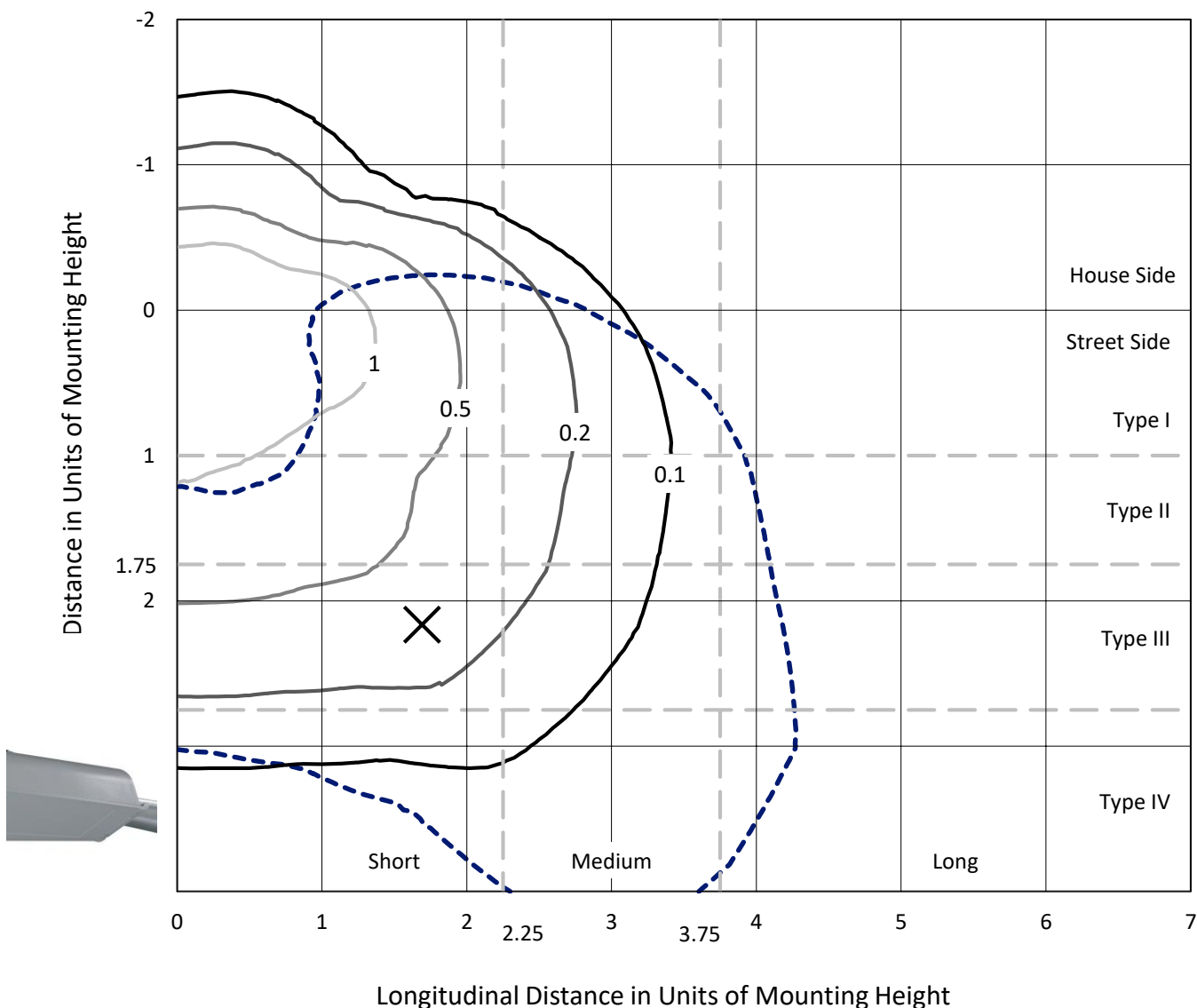
Input Watts (W): 63.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

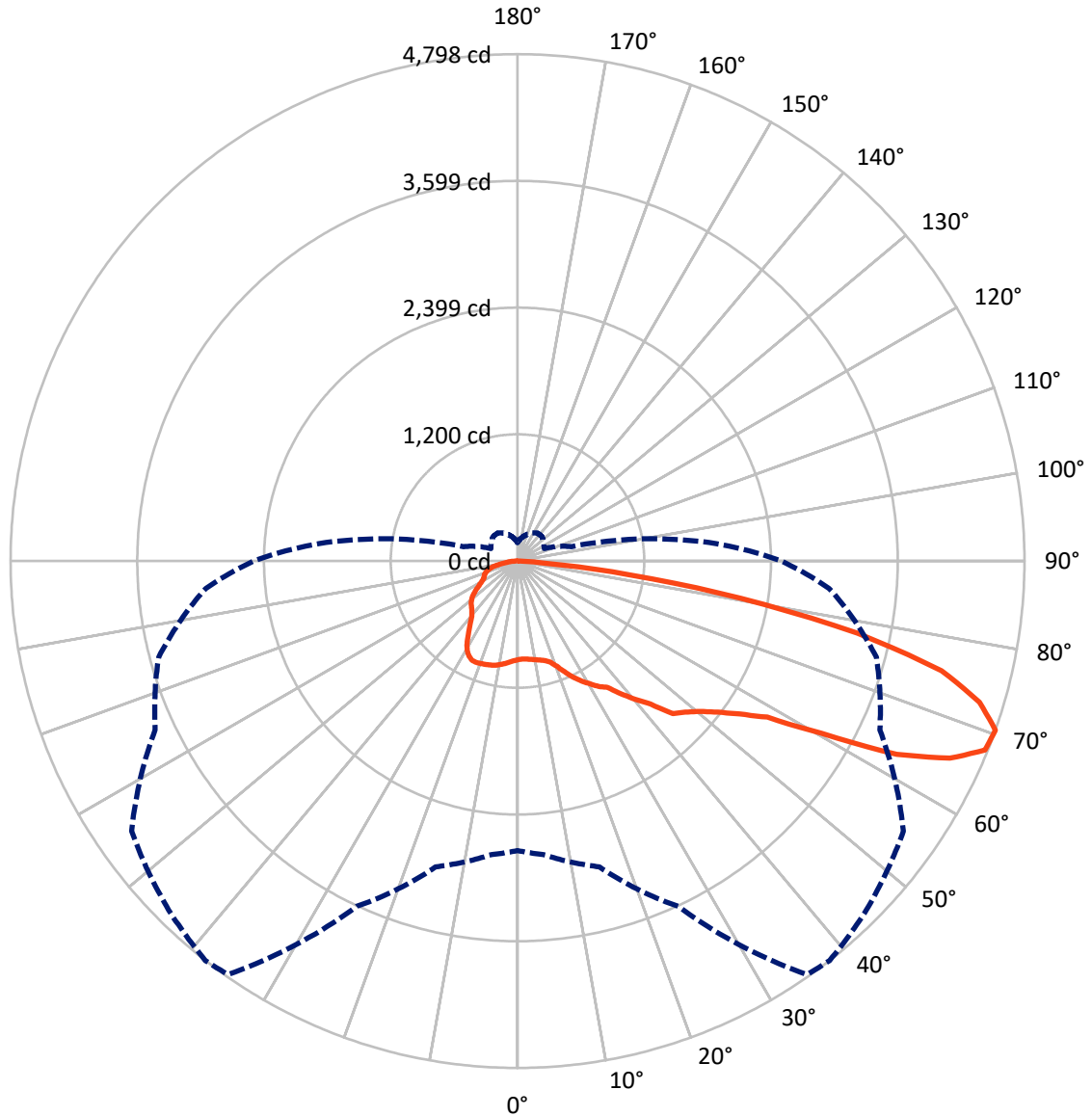
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P507645  
CATALOG NUMBER: VERD-S-CA1-60-740-U-T4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P507645

CATALOG NUMBER: VERD-S-CA1-60-740-U-T4

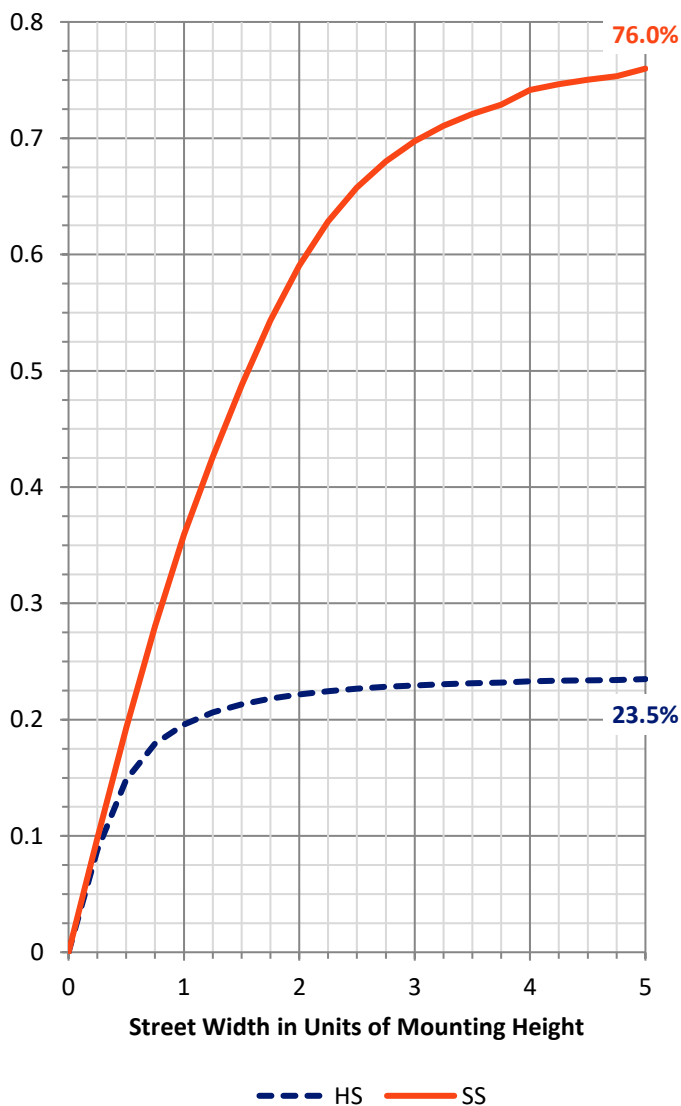
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2049.9	0.0	2049.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	6581.1	0.0	6581.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	8631.0	0.0	8631.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.9	1.1
10°-20°	286.5	3.3
20°-30°	531.7	6.2
30°-40°	823.1	9.5
40°-50°	1219.7	14.1
50°-60°	1699.5	19.7
60°-70°	2182.6	25.3
70°-80°	1596.8	18.5
80°-90°	200.0	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°	8631.0	100.0
0°-180°	8631.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507645

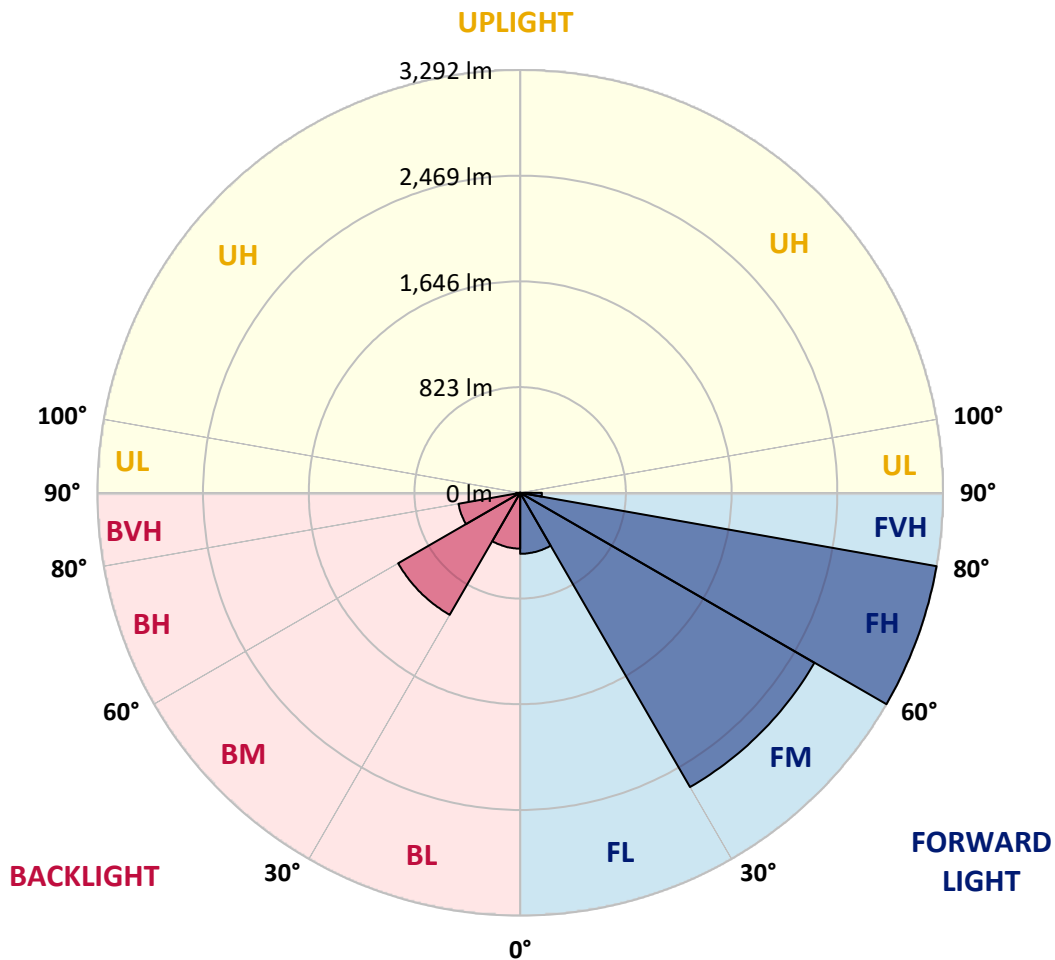
CATALOG NUMBER: VERD-S-CA1-60-740-U-T4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.9	5.5			
FM (30°-60°)	2645.2	30.6			
FH (60°-80°)	3291.9	38.1			G2/5000
FVH (80°-90°)	169.0	2.0			G2/225
BL (0°-30°)	434.3	5.0	B1/500		
BM (30°-60°)	1097.2	12.7	B2/2500		
BH (60°-80°)	487.5	5.6	B1/500		G1/500
BVH (80°-90°)	31.0	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: P507645

CATALOG NUMBER: VERD-S-CA1-60-740-U-T4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6
2.5°	930.2	930.2	930.2	927.7	927.7	927.7	925.2	925.2	927.7	930.2	930.2
5°	937.5	937.5	935.1	935.1	932.6	932.6	932.6	930.2	930.2	930.2	935.1
7.5°	940.0	940.0	940.0	940.0	940.0	940.0	942.5	940.0	940.0	940.0	944.9
10°	940.0	940.0	942.5	942.5	947.4	949.8	952.3	957.2	957.2	957.2	959.7
12.5°	944.9	944.9	947.4	949.8	957.2	962.1	967.1	974.4	976.9	976.9	979.4
15°	954.8	954.8	957.2	964.6	974.4	976.9	984.3	994.1	1004.0	1006.4	1008.9
17.5°	994.1	994.1	994.1	994.1	1004.0	1006.4	1016.3	1031.0	1040.9	1045.8	1053.2
20°	1072.9	1075.3	1070.4	1068.0	1063.0	1063.0	1063.0	1070.4	1082.7	1099.9	1112.2
22.5°	1173.8	1173.8	1173.8	1154.1	1141.8	1139.3	1139.3	1136.9	1146.7	1163.9	1181.1
25°	1252.5	1255.0	1252.5	1235.3	1220.5	1215.6	1215.6	1223.0	1223.0	1237.7	1257.4
27.5°	1316.5	1321.4	1314.0	1299.3	1287.0	1284.5	1287.0	1309.1	1321.4	1331.2	1355.9
30°	1385.4	1387.8	1370.6	1360.8	1353.4	1348.5	1350.9	1382.9	1424.8	1437.1	1478.9
32.5°	1513.3	1513.3	1488.7	1432.1	1412.5	1414.9	1414.9	1456.7	1513.3	1569.9	1624.1
35°	1633.9	1631.5	1609.3	1560.1	1486.3	1469.1	1478.9	1523.2	1611.8	1707.7	1803.7
37.5°	1776.6	1771.7	1752.0	1683.1	1621.6	1594.5	1540.4	1599.5	1707.7	1897.2	1995.6
40°	1936.6	1929.2	1884.9	1816.0	1734.8	1722.5	1675.8	1685.6	1828.3	2096.5	2209.7
42.5°	2025.2	2020.3	1990.7	1934.1	1875.1	1850.5	1811.1	1798.8	1990.7	2354.9	2411.5
45°	2108.8	2118.7	2118.7	2091.6	2067.0	2062.1	2035.0	2044.9	2199.9	2566.5	2588.7
47.5°	2160.5	2170.4	2138.4	2133.4	2133.4	2135.9	2163.0	2229.4	2389.4	2765.9	2743.7
50°	2315.5	2308.2	2180.2	2199.9	2222.0	2236.8	2295.9	2401.7	2652.7	2945.5	2879.0
52.5°	2596.1	2529.6	2377.1	2332.8	2345.1	2374.6	2453.3	2591.1	2920.9	3105.4	2997.2
55°	2943.0	2903.7	2765.9	2569.0	2505.0	2554.2	2637.9	2778.2	3127.6	3255.5	3090.7
57.5°	3176.8	3191.6	3208.8	3073.4	2775.7	2788.0	2844.6	2962.7	3334.3	3400.7	3164.5
60°	3413.0	3430.2	3526.2	3491.8	3422.9	3309.7	3103.0	3159.6	3489.3	3496.7	3218.6
62.5°	3600.0	3612.3	3755.1	3833.8	4013.4	4028.2	3705.8	3408.1	3651.7	3573.0	3240.8
65°	3506.5	3528.7	3742.8	3961.8	4456.4	4498.2	4392.4	3728.0	3777.2	3602.5	3223.5
67.5°	3191.6	3223.5	3449.9	3915.0	4739.3	4771.3	4668.0	4330.9	3821.5	3590.2	3139.9
70°	2741.2	2788.0	2997.2	3607.4	4778.7	4798.4	4670.4	4458.8	3784.6	3516.4	2960.2
72.5°	2229.4	2266.3	2477.9	3093.1	4540.0	4572.0	4532.6	4353.0	3705.8	3373.6	2598.5
75°	1707.7	1710.2	1934.1	2423.8	4018.4	4146.3	4212.8	4148.8	3491.8	2967.6	2000.6
77.5°	1077.8	1109.8	1338.6	1835.7	3157.1	3287.5	3317.1	3238.3	2443.5	1820.9	861.3
80°	484.8	534.0	767.7	1240.2	2148.2	2143.3	2160.5	1966.1	1301.7	578.3	96.0
82.5°	174.7	184.6	322.4	622.6	1040.9	1068.0	1055.6	908.0	351.9	81.2	59.1
85°	73.8	78.7	105.8	167.3	236.2	251.0	216.5	164.9	56.6	46.8	39.4
87.5°	4.9	4.9	4.9	4.9	4.9	7.4	7.4	7.4	7.4	9.8	12.3
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: P507645  
 CATALOG NUMBER: VERD-S-CA1-60-740-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6
2.5°	930.2	932.6	935.1	940.0	940.0	942.5	944.9	947.4	947.4	947.4	947.4
5°	937.5	940.0	942.5	949.8	954.8	957.2	962.1	964.6	967.1	967.1	967.1
7.5°	947.4	949.8	954.8	962.1	969.5	974.4	979.4	981.8	984.3	984.3	984.3
10°	962.1	967.1	974.4	984.3	991.7	991.7	994.1	996.6	999.1	999.1	999.1
12.5°	981.8	986.7	999.1	1011.4	1013.8	1011.4	1006.4	1006.4	1004.0	1001.5	1001.5
15°	1013.8	1016.3	1033.5	1043.3	1036.0	1023.7	1013.8	1004.0	996.6	991.7	991.7
17.5°	1058.1	1065.5	1082.7	1082.7	1063.0	1040.9	1016.3	991.7	972.0	964.6	962.1
20°	1122.1	1131.9	1146.7	1131.9	1099.9	1060.6	1016.3	976.9	937.5	912.9	905.5
22.5°	1193.4	1205.8	1210.7	1178.7	1131.9	1077.8	1018.7	957.2	893.2	839.1	824.3
25°	1277.1	1284.5	1267.3	1215.6	1151.6	1082.7	1011.4	930.2	831.7	760.4	753.0
27.5°	1375.5	1368.2	1321.4	1242.7	1156.5	1072.9	984.3	876.0	753.0	698.8	691.5
30°	1481.4	1454.3	1368.2	1257.4	1141.8	1043.3	937.5	794.8	693.9	649.6	644.7
32.5°	1606.9	1552.7	1412.5	1259.9	1114.7	991.7	861.3	728.4	654.6	605.3	600.4
35°	1747.1	1663.4	1451.8	1245.1	1060.6	920.3	770.2	679.2	612.7	566.0	556.1
37.5°	1936.6	1813.6	1501.0	1213.1	991.7	829.3	703.8	627.5	570.9	519.2	511.8
40°	2131.0	1985.8	1569.9	1176.2	915.4	755.4	647.2	590.6	541.4	482.3	470.0
42.5°	2325.4	2158.1	1663.4	1131.9	839.1	698.8	622.6	585.7	526.6	465.1	452.8
45°	2485.3	2305.7	1752.0	1080.3	762.8	647.2	607.8	575.8	516.8	450.3	435.5
47.5°	2623.1	2428.7	1828.3	1033.5	689.0	607.8	595.5	558.6	502.0	435.5	420.8
50°	2738.8	2527.2	1889.8	994.1	627.5	580.7	570.9	526.6	467.5	410.9	401.1
52.5°	2839.7	2598.5	1916.9	981.8	566.0	548.7	531.5	487.2	433.1	381.4	366.6
55°	2906.1	2652.7	1912.0	981.8	506.9	504.4	484.8	450.3	410.9	369.1	354.3
57.5°	2957.8	2677.3	1875.1	839.1	457.7	447.9	435.5	420.8	396.2	349.4	334.7
60°	2982.4	2662.5	1796.3	610.3	408.5	391.3	401.1	396.2	371.6	307.6	297.7
62.5°	2967.6	2618.2	1619.2	445.4	356.8	354.3	369.1	359.3	312.5	255.9	251.0
65°	2911.0	2507.5	1392.8	334.7	327.3	344.5	351.9	332.2	287.9	236.2	216.5
67.5°	2765.9	2293.4	1013.8	300.2	317.4	337.1	342.0	315.0	270.7	221.5	196.9
70°	2497.6	1889.8	526.6	278.1	302.7	327.3	324.8	290.4	246.1	201.8	172.3
72.5°	2025.2	1341.1	199.3	248.5	280.5	305.1	300.2	260.8	174.7	125.5	113.2
75°	1314.0	642.2	172.3	214.1	251.0	273.1	275.6	236.2	152.6	105.8	91.0
77.5°	450.3	118.1	140.3	177.2	216.5	246.1	238.7	189.5	118.1	78.7	71.4
80°	76.3	78.7	108.3	125.5	150.1	196.9	167.3	135.3	93.5	56.6	46.8
82.5°	54.1	66.4	76.3	73.8	103.4	130.4	113.2	91.0	61.5	44.3	39.4
85°	39.4	44.3	41.8	44.3	59.1	86.1	78.7	64.0	44.3	32.0	27.1
87.5°	14.8	14.8	19.7	24.6	36.9	54.1	46.8	19.7	17.2	14.8	14.8
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)