

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: P509293

Luminaire Tested: **VERD-CA2-70-722-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-70-722-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 980mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8522 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

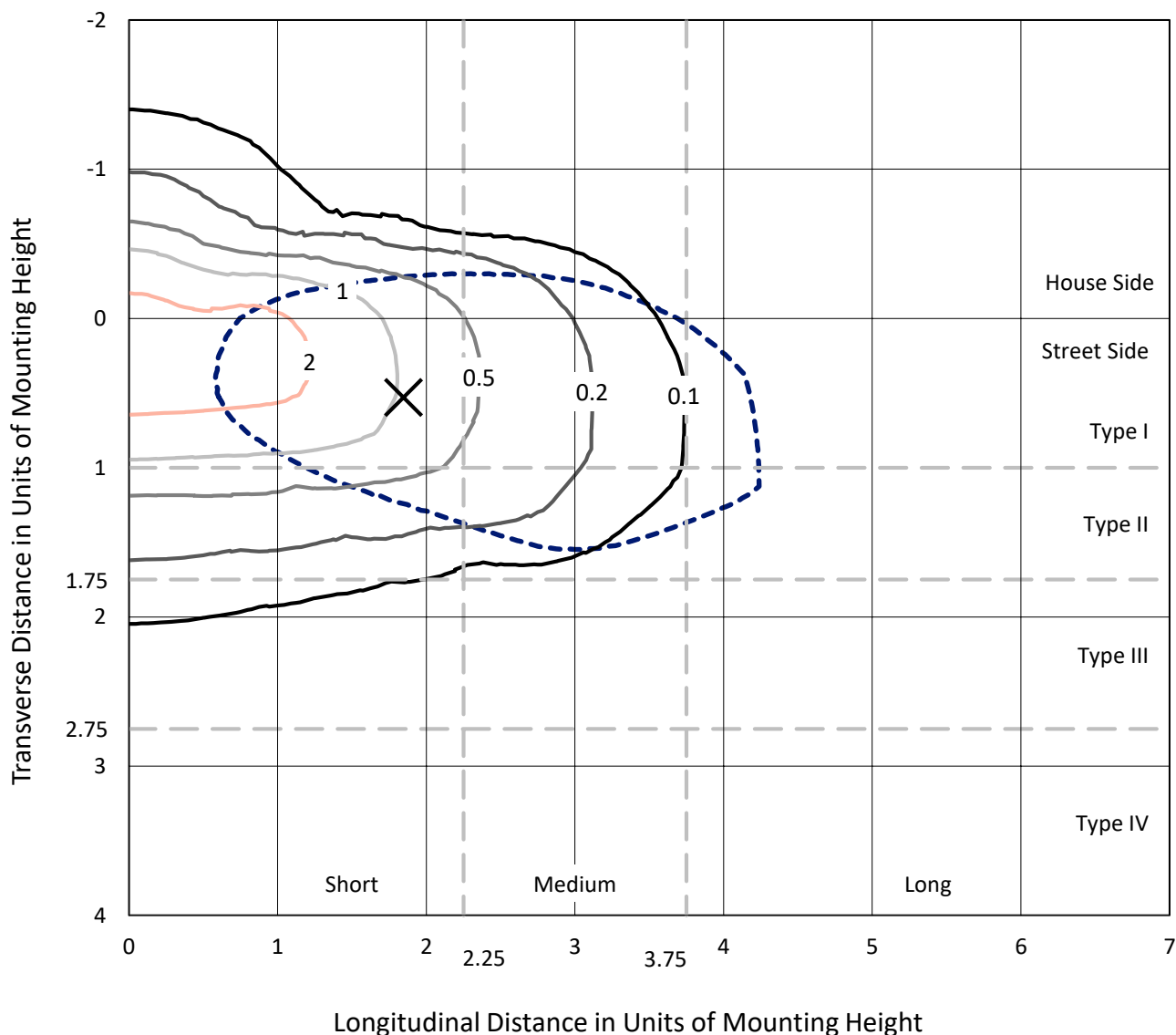
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

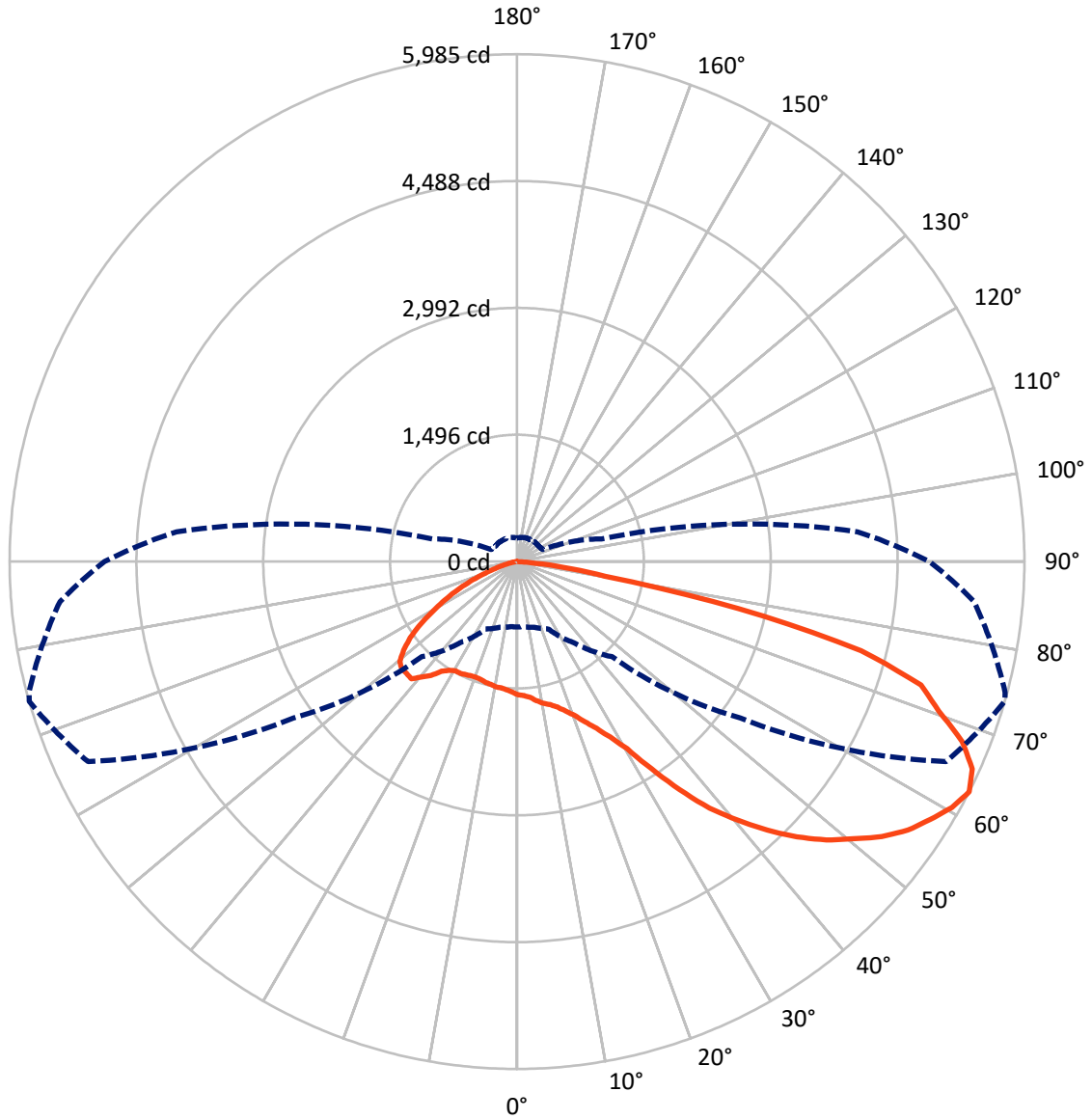
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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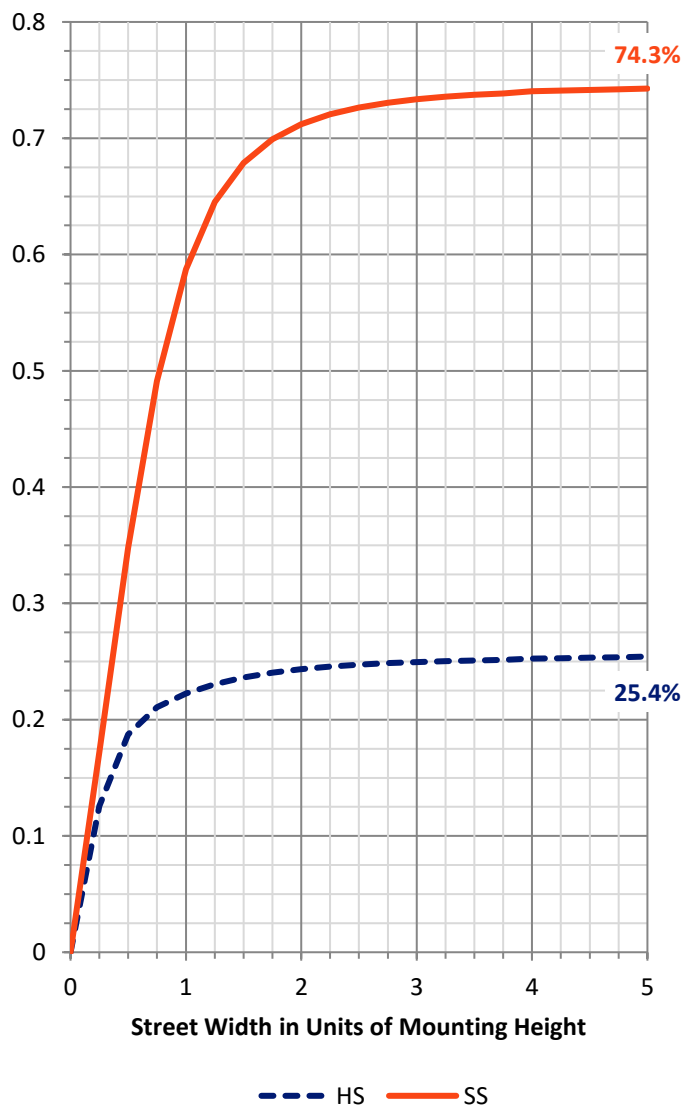
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2200.4	0.0	2200.4
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	6321.5	0.0	6321.5
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	8522.0	0.0	8522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	1.8
10°-20°	460.4	5.4
20°-30°	776.3	9.1
30°-40°	1134.2	13.3
40°-50°	1510.2	17.7
50°-60°	1738.0	20.4
60°-70°	1679.4	19.7
70°-80°	966.8	11.3
80°-90°	105.8	1.2
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°	8522.0	100.0
0°-180°	8522.0	100.0

**Coefficient of Utilization**



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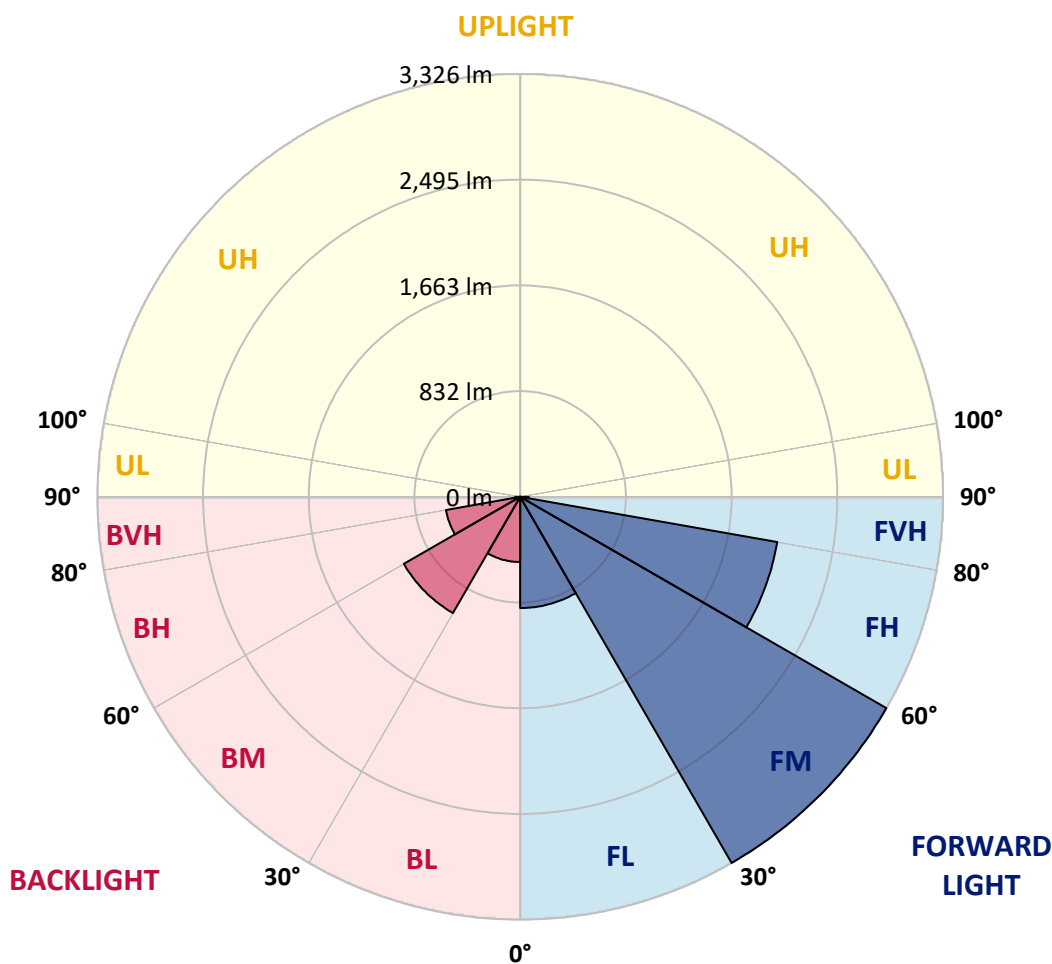
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.6	10.3			
FM (30°-60°)	3326.1	39.0			
FH (60°-80°)	2053.9	24.1			G2/5000
FVH (80°-90°)	66.9	0.8			G1/100
BL (0°-30°)	513.0	6.0	B2/1000		
BM (30°-60°)	1056.2	12.4	B2/2500		
BH (60°-80°)	592.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	38.9	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°	74°	75°	85°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1682.0	1669.9	1662.5	1654.1	1643.9	1640.2	1617.9	1598.4	1582.6	1583.5	1573.3
5°	1743.3	1730.3	1713.6	1710.8	1697.8	1695.0	1673.6	1643.0	1608.6	1603.9	1573.3
7.5°	1812.1	1804.7	1794.4	1781.4	1760.1	1746.1	1715.5	1691.3	1656.0	1651.3	1590.9
10°	1895.7	1890.2	1882.7	1882.7	1854.8	1825.1	1787.9	1727.5	1699.7	1695.0	1621.6
12.5°	1994.2	1977.5	1953.3	1939.4	1913.4	1894.8	1854.8	1790.7	1730.3	1728.5	1650.4
15°	2058.4	2044.4	2028.6	2023.0	1989.6	1958.9	1916.2	1865.1	1780.5	1774.0	1685.7
17.5°	2129.9	2116.9	2098.3	2088.1	2066.7	2031.4	1993.3	1926.4	1851.1	1844.6	1725.7
20°	2169.9	2155.9	2150.4	2152.2	2144.8	2127.1	2081.6	2021.2	1934.8	1926.4	1780.5
22.5°	2214.5	2205.2	2207.0	2221.0	2234.9	2228.4	2193.1	2126.2	2051.8	2038.8	1868.8
25°	2215.4	2208.0	2233.1	2287.0	2316.7	2331.6	2313.0	2258.1	2179.2	2167.1	1981.2
27.5°	2231.2	2220.0	2247.0	2303.7	2393.8	2424.5	2431.0	2410.6	2342.7	2327.8	2116.0
30°	2190.3	2182.9	2223.8	2322.3	2428.2	2530.4	2567.6	2599.2	2561.1	2562.0	2324.1
32.5°	2119.7	2106.7	2168.9	2289.7	2486.8	2626.1	2724.6	2852.0	2910.5	2904.9	2686.5
35°	1984.9	1992.4	2076.0	2260.9	2488.6	2723.7	2917.0	3144.7	3303.6	3299.9	3062.0
37.5°	1889.2	1885.5	1984.0	2180.1	2487.7	2810.1	3103.8	3482.9	3688.3	3682.7	3384.4
40°	1774.0	1774.9	1873.4	2079.7	2444.0	2864.0	3297.1	3803.5	4012.6	4004.3	3693.0
42.5°	1650.4	1654.1	1746.1	1957.1	2383.6	2904.9	3469.9	4127.9	4330.4	4337.9	3940.1
45°	1539.8	1541.7	1632.7	1826.0	2276.7	2909.6	3625.1	4434.5	4631.5	4613.9	4199.4
47.5°	1377.2	1379.1	1513.8	1701.5	2135.5	2871.5	3753.4	4726.3	4906.6	4869.4	4418.7
50°	1078.9	1082.6	1242.4	1572.3	1963.6	2784.1	3854.7	5000.5	5139.8	5124.0	4643.6
52.5°	996.2	993.4	1060.3	1418.1	1809.3	2626.1	3918.8	5246.7	5388.0	5386.1	4829.5
55°	954.4	951.6	973.9	1149.5	1657.8	2392.0	3916.9	5438.1	5593.3	5555.2	4999.5
57.5°	880.0	874.5	932.1	1018.5	1488.7	2100.2	3824.0	5610.1	5742.0	5730.9	5152.9
60°	827.1	822.4	861.4	941.4	1308.4	1803.7	3585.2	5699.3	5891.6	5896.3	5282.0
62.5°	772.2	769.4	802.9	877.2	1167.2	1587.2	3217.2	5582.2	5984.6	5959.5	5411.2
65°	710.0	708.1	739.7	800.1	1026.9	1422.7	2856.6	5373.1	5900.9	5929.7	5427.9
67.5°	635.6	634.7	665.4	707.2	873.5	1257.3	2304.6	5126.8	5662.1	5630.5	5213.3
70°	544.6	540.8	578.9	618.0	731.3	1069.6	1793.5	4689.1	5273.7	5388.0	4785.8
72.5°	458.1	456.3	492.5	521.3	605.9	873.5	1308.4	4055.4	4982.8	4818.3	4311.9
75°	358.7	349.4	387.5	414.5	477.6	695.1	892.1	2708.9	4193.8	4159.5	3622.3
77.5°	145.0	168.2	200.7	224.9	266.7	394.0	466.5	1285.2	2675.4	2793.4	2519.3
80°	55.8	59.5	143.1	161.7	179.4	226.7	179.4	541.8	1055.7	1151.4	1459.0
82.5°	31.6	35.3	70.6	67.8	66.9	57.6	66.9	265.8	551.1	604.0	704.4
85°	17.7	19.5	28.8	31.6	26.9	23.2	20.4	69.7	137.5	130.1	145.9
87.5°	2.8	3.7	4.6	4.6	2.8	2.8	2.8	3.7	3.7	3.7	4.6
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°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1563.0	1552.8	1542.6	1530.5	1515.7	1506.4	1502.6	1507.3	1520.3	1504.5	1491.5
5°	1557.5	1543.5	1520.3	1497.1	1478.5	1462.7	1441.3	1439.5	1443.2	1436.7	1419.9
7.5°	1569.6	1549.1	1501.7	1485.9	1446.9	1409.7	1397.6	1393.0	1381.8	1368.8	1353.0
10°	1593.7	1551.9	1503.6	1457.1	1420.9	1380.9	1334.4	1335.4	1330.7	1315.9	1301.0
12.5°	1605.8	1556.5	1485.9	1436.7	1380.9	1331.7	1286.1	1265.7	1274.0	1262.0	1246.2
15°	1628.1	1576.1	1479.4	1406.9	1330.7	1275.0	1240.6	1210.9	1192.3	1195.1	1185.8
17.5°	1669.9	1593.7	1462.7	1374.4	1291.7	1225.7	1159.7	1157.0	1129.1	1113.3	1099.3
20°	1713.6	1625.3	1460.8	1339.1	1228.5	1146.7	1093.8	1064.0	1047.3	1034.3	1024.1
22.5°	1770.3	1669.0	1467.3	1318.6	1171.8	1079.8	1012.0	972.0	945.1	935.8	928.4
25°	1850.2	1723.8	1485.0	1282.4	1112.3	1006.4	914.4	872.6	841.9	834.5	828.9
27.5°	1959.9	1793.5	1502.6	1243.4	1042.7	903.3	805.7	764.8	730.4	729.5	719.3
30°	2132.7	1900.4	1509.2	1209.0	968.3	792.7	695.1	657.0	631.0	620.8	628.2
32.5°	2455.2	2136.4	1550.0	1156.0	874.5	684.9	602.2	571.5	542.7	531.5	539.0
35°	2803.6	2418.9	1618.8	1119.8	771.3	582.7	526.0	489.7	454.4	448.8	446.1
37.5°	3059.2	2676.3	1748.9	1060.3	673.7	520.4	446.1	416.3	395.9	384.7	394.9
40°	3349.1	2890.1	1847.4	997.1	574.3	454.4	371.7	362.4	353.1	345.7	356.8
42.5°	3578.7	3110.3	1964.5	913.5	494.4	385.7	330.8	338.3	342.9	339.2	340.1
45°	3789.6	3273.9	1971.9	786.2	421.9	334.5	318.7	333.6	344.8	342.9	342.0
47.5°	3995.9	3469.0	1989.6	651.4	369.9	321.5	319.7	330.8	345.7	348.5	348.5
50°	4208.7	3617.7	1962.6	524.1	350.3	323.4	322.5	321.5	340.1	341.0	343.8
52.5°	4368.5	3738.5	1835.3	433.0	349.4	329.0	327.1	317.8	326.2	332.7	328.0
55°	4537.7	3889.0	1674.6	398.7	347.6	330.8	338.3	322.5	316.9	311.3	316.9
57.5°	4698.4	3994.0	1463.6	378.2	340.1	328.0	342.9	321.5	309.5	293.7	288.1
60°	4822.0	4018.2	1228.5	356.8	330.8	321.5	322.5	315.0	299.2	279.7	271.3
62.5°	4863.9	4032.1	1033.4	336.4	312.2	311.3	303.9	301.1	294.6	282.5	278.8
65°	4828.5	3874.2	825.2	311.3	296.4	297.4	286.2	276.9	262.1	242.5	240.7
67.5°	4586.0	3596.3	632.8	279.7	272.3	281.6	269.5	253.7	237.0	224.0	225.8
70°	4170.6	3267.3	444.2	236.0	244.4	261.1	256.5	236.0	217.5	206.3	208.2
72.5°	3708.8	2768.3	302.0	184.0	198.9	234.2	234.2	220.2	201.7	186.8	183.1
75°	2925.4	2174.5	195.1	121.7	131.0	191.4	207.2	185.9	165.4	156.1	152.4
77.5°	1985.9	1416.2	124.5	69.7	87.4	125.5	163.6	166.3	196.1	197.0	188.6
80°	1167.2	810.3	76.2	40.9	43.7	72.5	131.0	164.5	208.2	146.8	134.7
82.5°	580.8	345.7	34.4	25.1	26.0	36.2	70.6	188.6	160.8	92.0	88.3
85°	129.2	56.7	13.9	13.0	14.9	18.6	36.2	156.1	98.5	74.3	72.5
87.5°	4.6	3.7	3.7	3.7	2.8	2.8	7.4	51.1	39.0	32.5	30.7
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)