

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: P507673

Luminaire Tested: **VERD-S-CA1-70-727-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507673
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-CA1-70-727-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1330mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8371 lumens
Efficiency: N/A
Efficacy: 113.9 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): 73.5
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

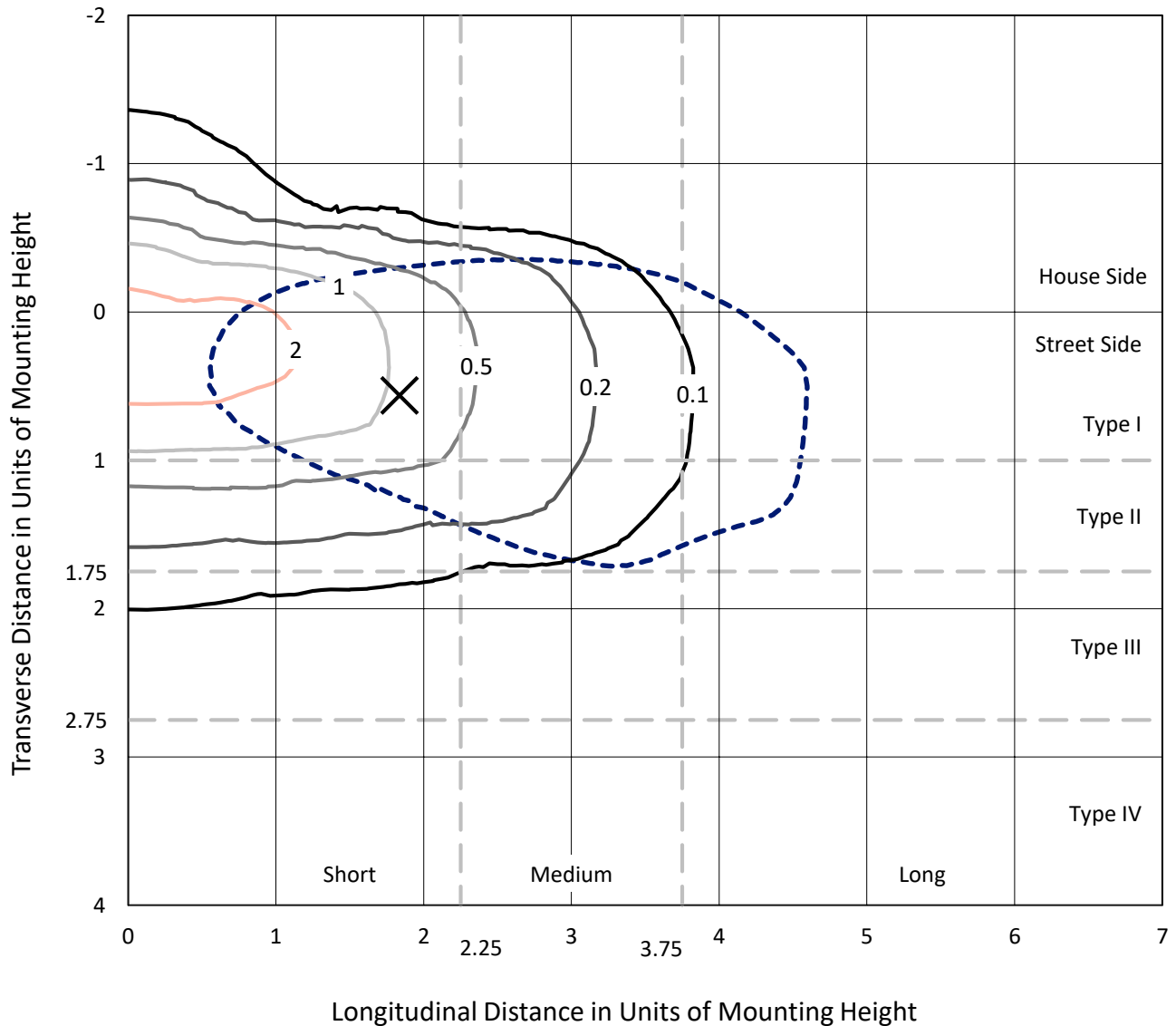


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Iso-Footcandle Lines of Horizontal Illumination

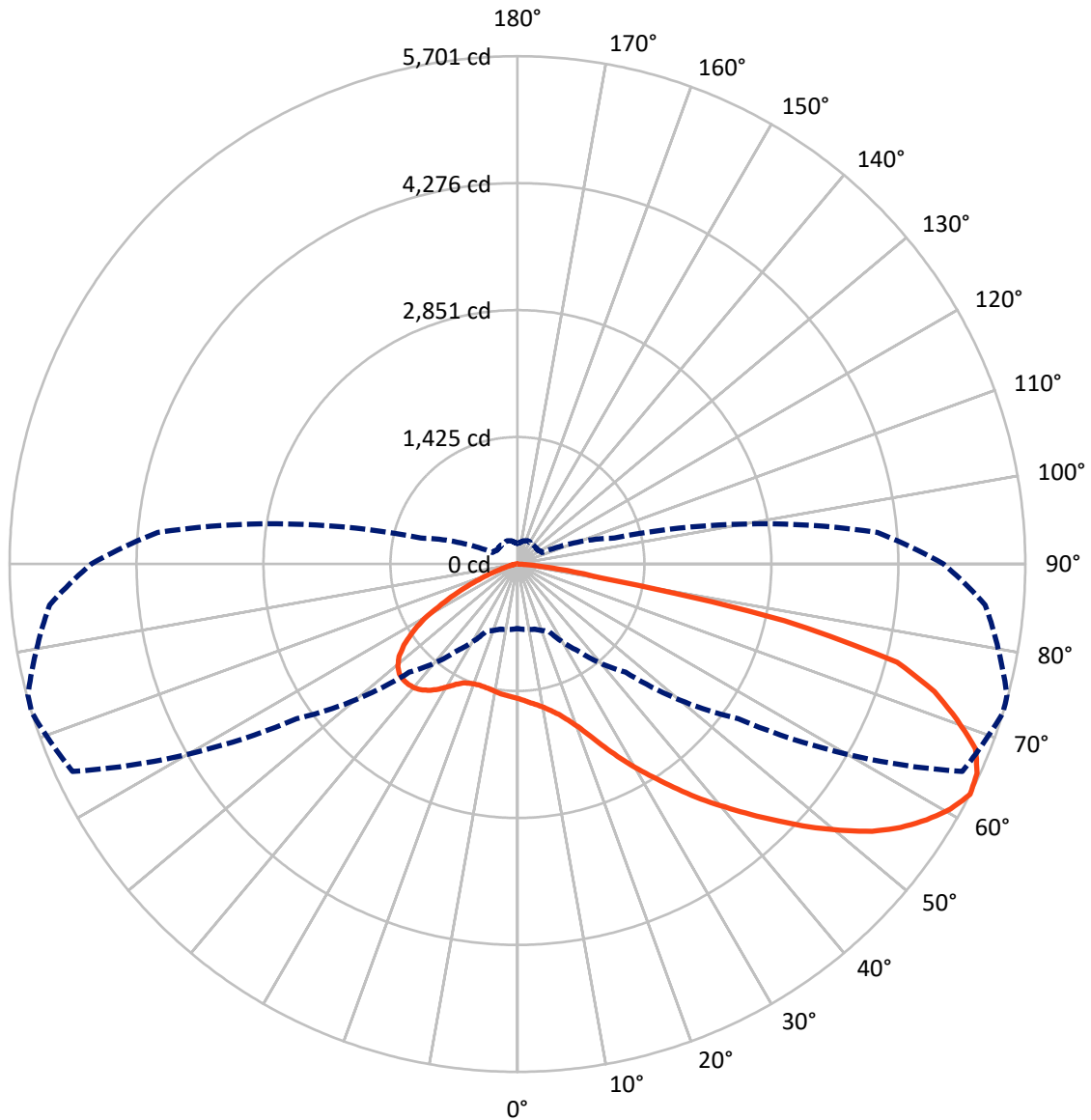
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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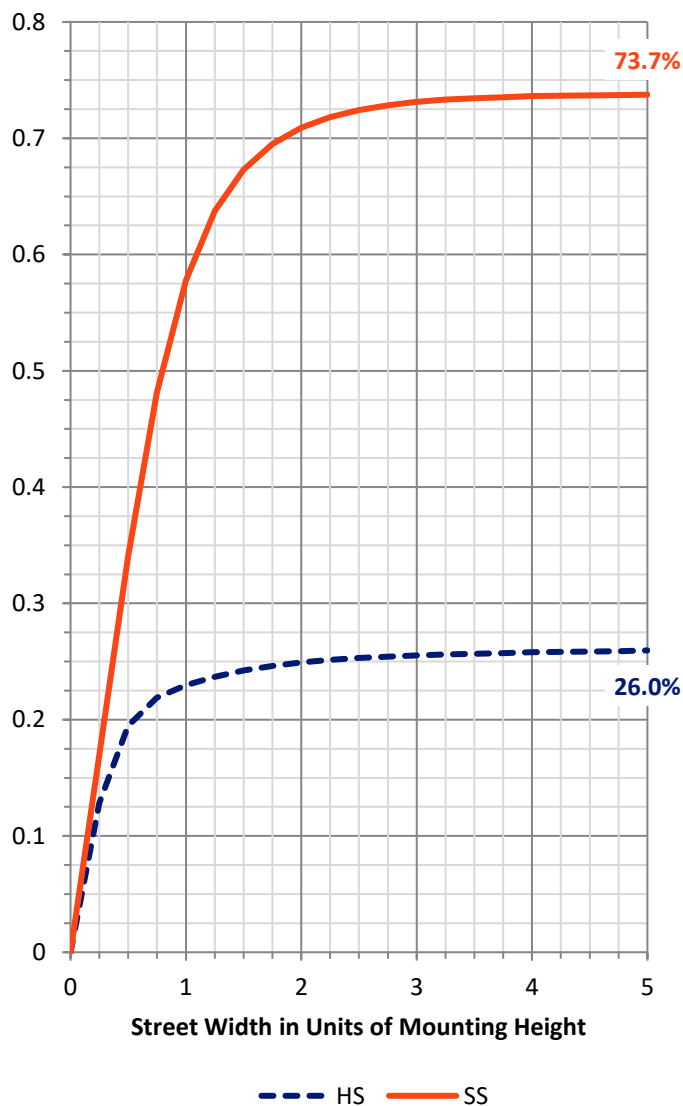
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2205.0	0.0	2205.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	6165.9	0.0	6165.9
	% Fixture	73.7	0.0	73.7
Total	Lumens	8371.0	0.0	8371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	1.7
10°-20°	446.7	5.3
20°-30°	773.2	9.2
30°-40°	1119.7	13.4
40°-50°	1434.2	17.1
50°-60°	1660.5	19.8
60°-70°	1672.1	20.0
70°-80°	1022.3	12.2
80°-90°	96.3	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°	8371.0	100.0
0°-180°	8371.0	100.0

Coefficient of Utilization



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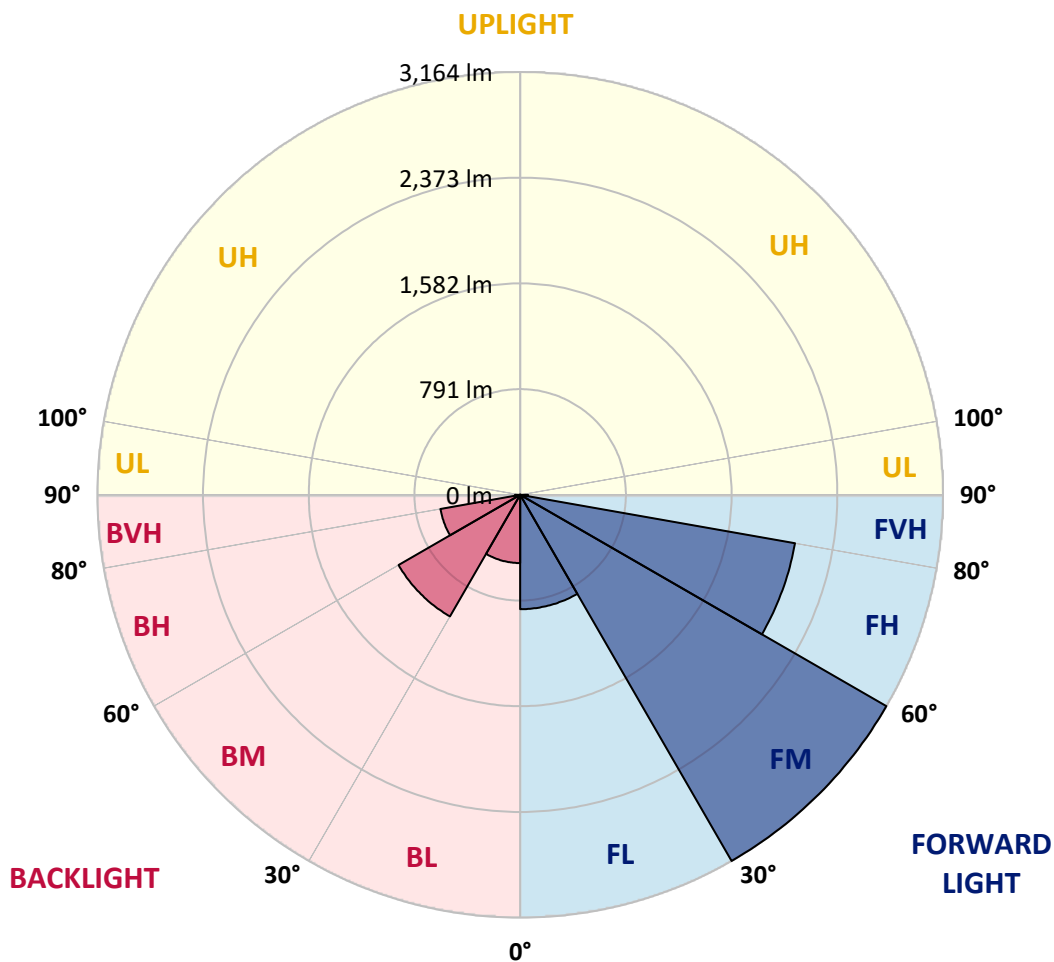
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.6	10.2			
FM (30°-60°)	3164.0	37.8			
FH (60°-80°)	2088.3	24.9			G2/5000
FVH (80°-90°)	58.2	0.7			G1/100
BL (0°-30°)	510.4	6.1	B2/1000		
BM (30°-60°)	1050.4	12.5	B2/2500		
BH (60°-80°)	606.1	7.2	B2/1000		G2/1000
BVH (80°-90°)	38.1	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°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1589.9	1587.5	1582.8	1580.5	1575.7	1563.9	1556.9	1545.1	1535.6	1533.3	1519.1
5°	1667.7	1670.1	1667.7	1660.7	1651.2	1634.7	1611.1	1580.5	1566.3	1561.6	1538.0
7.5°	1740.9	1740.9	1738.5	1729.1	1719.6	1698.4	1665.4	1630.0	1597.0	1587.5	1556.9
10°	1811.6	1811.6	1804.5	1795.1	1781.0	1755.0	1722.0	1677.2	1637.1	1622.9	1571.0
12.5°	1887.1	1884.7	1875.3	1861.2	1842.3	1821.1	1785.7	1736.1	1691.3	1674.8	1601.7
15°	1946.1	1946.1	1939.0	1929.6	1913.1	1887.1	1854.1	1811.6	1752.6	1738.5	1644.1
17.5°	1998.0	2000.3	1995.6	1995.6	1981.5	1962.6	1934.3	1898.9	1842.3	1821.1	1707.8
20°	2040.4	2038.1	2047.5	2054.6	2059.3	2047.5	2031.0	2007.4	1950.8	1929.6	1790.4
22.5°	2059.3	2064.0	2092.3	2127.7	2148.9	2151.3	2148.9	2146.6	2097.0	2068.7	1903.6
25°	2068.7	2075.8	2118.3	2179.6	2226.8	2262.2	2299.9	2323.5	2278.7	2257.5	2073.5
27.5°	2078.2	2085.3	2134.8	2210.3	2299.9	2384.8	2460.3	2505.1	2472.1	2446.2	2248.0
30°	2061.7	2068.7	2125.4	2231.5	2358.9	2507.5	2613.6	2677.3	2672.6	2656.1	2448.5
32.5°	2026.3	2033.4	2097.0	2229.1	2420.2	2632.5	2750.5	2856.6	2877.8	2861.3	2649.0
35°	1962.6	1972.0	2045.2	2200.8	2448.5	2736.3	2894.3	3050.0	3104.3	3106.6	2868.4
37.5°	1875.3	1880.0	1969.7	2146.6	2458.0	2809.4	3014.7	3236.4	3347.3	3349.6	3092.5
40°	1757.4	1769.2	1880.0	2078.2	2436.7	2861.3	3135.0	3439.2	3585.5	3569.0	3335.5
42.5°	1622.9	1632.3	1740.9	1969.7	2387.2	2892.0	3245.8	3651.5	3845.0	3835.5	3564.3
45°	1502.6	1516.8	1599.3	1818.7	2292.8	2899.1	3342.5	3863.8	4113.9	4102.1	3797.8
47.5°	1342.2	1377.6	1488.5	1684.2	2151.3	2868.4	3429.8	4151.6	4411.1	4394.6	4043.1
50°	1033.2	1045.0	1278.5	1571.0	1990.9	2792.9	3505.3	4418.2	4698.9	4687.1	4300.2
52.5°	931.8	941.2	1016.7	1441.3	1830.5	2658.5	3550.1	4760.2	4986.7	4953.7	4531.4
55°	875.1	884.6	927.0	1151.1	1691.3	2455.6	3559.6	5050.4	5220.2	5189.5	4748.4
57.5°	823.2	830.3	870.4	986.0	1530.9	2174.9	3510.0	5283.9	5418.4	5387.7	4944.2
60°	769.0	776.1	818.5	896.4	1332.8	1917.8	3347.3	5465.5	5585.8	5555.2	5121.1
62.5°	724.2	736.0	757.2	830.3	1191.2	1717.3	3028.8	5510.3	5701.4	5689.6	5272.1
65°	669.9	674.6	707.7	766.6	1052.1	1578.1	2686.8	5380.6	5670.8	5692.0	5361.7
67.5°	608.6	611.0	641.6	684.1	879.9	1441.3	2382.5	5206.1	5548.1	5583.5	5295.7
70°	526.0	528.4	556.7	601.5	728.9	1250.2	2068.7	4948.9	5234.4	5267.4	5040.9
72.5°	438.8	438.8	462.3	511.9	601.5	1035.5	1655.9	4385.2	4897.0	4951.3	4625.8
75°	191.1	198.1	238.2	285.4	389.2	761.9	1129.9	3394.4	4401.7	4439.4	4054.9
77.5°	51.9	51.9	61.3	80.2	113.2	339.7	358.6	1493.2	3066.5	3163.3	2998.1
80°	42.5	42.5	47.2	61.3	77.8	167.5	120.3	481.2	948.3	1250.2	1554.5
82.5°	23.6	23.6	28.3	35.4	42.5	42.5	42.5	245.3	467.1	497.7	651.1
85°	11.8	14.2	14.2	16.5	16.5	14.2	14.2	49.5	89.6	101.4	155.7
87.5°	4.7	4.7	4.7	4.7	2.4	2.4	4.7	7.1	7.1	9.4	11.8
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°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1514.4	1507.3	1497.9	1490.8	1476.7	1462.5	1453.1	1446.0	1443.6	1441.3	1441.3
5°	1523.8	1512.0	1486.1	1460.1	1438.9	1420.0	1403.5	1391.7	1387.0	1384.7	1384.7
7.5°	1538.0	1521.5	1479.0	1441.3	1403.5	1375.2	1349.3	1332.8	1323.3	1325.7	1332.8
10°	1545.1	1519.1	1462.5	1424.8	1375.2	1330.4	1299.7	1280.9	1273.8	1273.8	1271.4
12.5°	1563.9	1526.2	1450.7	1391.7	1349.3	1287.9	1252.6	1236.1	1226.6	1212.5	1207.7
15°	1592.2	1545.1	1446.0	1368.2	1302.1	1247.8	1200.7	1177.1	1170.0	1151.1	1151.1
17.5°	1644.1	1578.1	1446.0	1342.2	1257.3	1205.4	1144.1	1111.0	1106.3	1094.5	1092.2
20°	1705.5	1622.9	1457.8	1316.3	1210.1	1141.7	1073.3	1040.3	1028.5	1016.7	1016.7
22.5°	1802.2	1691.3	1479.0	1297.4	1160.6	1075.7	1000.2	953.0	934.1	931.8	927.0
25°	1950.8	1799.8	1512.0	1278.5	1111.0	1002.5	927.0	865.7	835.0	830.3	828.0
27.5°	2113.6	1948.4	1578.1	1262.0	1056.8	920.0	830.3	764.3	726.5	721.8	719.5
30°	2288.1	2101.8	1665.4	1247.8	988.4	825.6	724.2	660.5	625.1	615.7	618.0
32.5°	2479.2	2266.9	1759.7	1236.1	915.2	702.9	608.6	566.1	528.4	511.9	514.2
35°	2665.5	2413.1	1842.3	1226.6	818.5	592.1	519.0	474.1	436.4	415.2	415.2
37.5°	2875.5	2585.3	1910.7	1207.7	714.7	516.6	445.8	401.0	372.7	353.8	353.8
40°	3080.7	2757.5	1964.9	1172.4	599.2	455.3	368.0	342.0	323.2	311.4	306.7
42.5°	3281.2	2929.7	2000.3	1113.4	502.4	382.1	306.7	304.3	306.7	294.9	292.5
45°	3488.8	3099.6	2026.3	1019.0	434.0	316.1	273.6	290.1	306.7	301.9	301.9
47.5°	3715.2	3264.7	2047.5	865.7	368.0	278.3	271.3	287.8	309.0	311.4	311.4
50°	3932.3	3432.2	2040.4	669.9	323.2	276.0	273.6	278.3	306.7	313.7	309.0
52.5°	4135.1	3576.1	1983.8	488.3	301.9	280.7	280.7	276.0	299.6	304.3	306.7
55°	4340.3	3710.5	1856.4	386.9	290.1	280.7	292.5	280.7	287.8	290.1	294.9
57.5°	4526.7	3847.3	1667.7	346.8	287.8	280.7	292.5	285.4	285.4	276.0	273.6
60°	4670.6	3960.6	1438.9	330.2	280.7	283.1	287.8	287.8	280.7	259.5	252.4
62.5°	4783.8	4054.9	1125.2	309.0	276.0	278.3	276.0	285.4	268.9	238.2	231.2
65°	4847.5	4071.4	861.0	285.4	264.2	273.6	266.6	264.2	250.0	217.0	202.9
67.5°	4776.7	3955.8	601.5	261.8	250.0	266.6	254.8	245.3	228.8	198.1	179.3
70°	4503.1	3620.9	396.3	231.2	231.2	250.0	240.6	226.5	205.2	181.6	160.4
72.5°	3988.9	3120.8	238.2	191.1	205.2	228.8	224.1	205.2	143.9	110.9	96.7
75°	3373.2	2564.1	153.3	143.9	167.5	205.2	207.6	184.0	122.7	99.1	99.1
77.5°	2450.9	1684.2	89.6	80.2	110.9	165.1	176.9	134.5	132.1	184.0	134.5
80°	1257.3	816.2	68.4	49.5	59.0	122.7	99.1	101.4	200.5	148.6	94.4
82.5°	544.9	323.2	42.5	35.4	37.7	61.3	63.7	167.5	155.7	87.3	59.0
85°	115.6	61.3	23.6	23.6	23.6	28.3	35.4	181.6	96.7	44.8	18.9
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	9.4	9.4	9.4	7.1	7.1
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)