

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: P509201

Luminaire Tested: **VERD-CA2-130-722-U-T4**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-130-722-U-T4  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1180mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14957 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

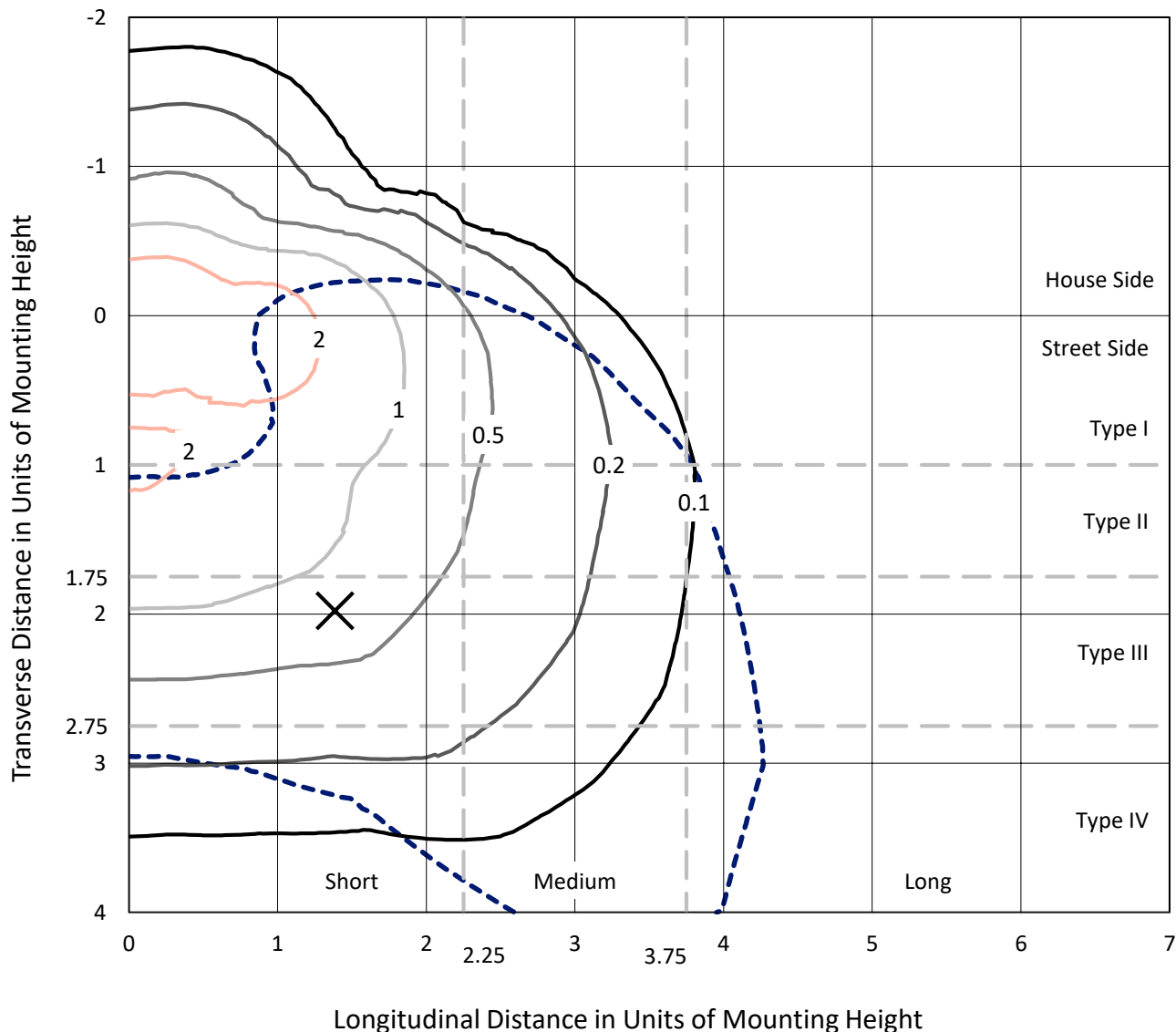
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509201  
 CATALOG NUMBER: VERD-CA2-130-722-U-T4

### Iso-Footcandle Lines of Horizontal Illumination

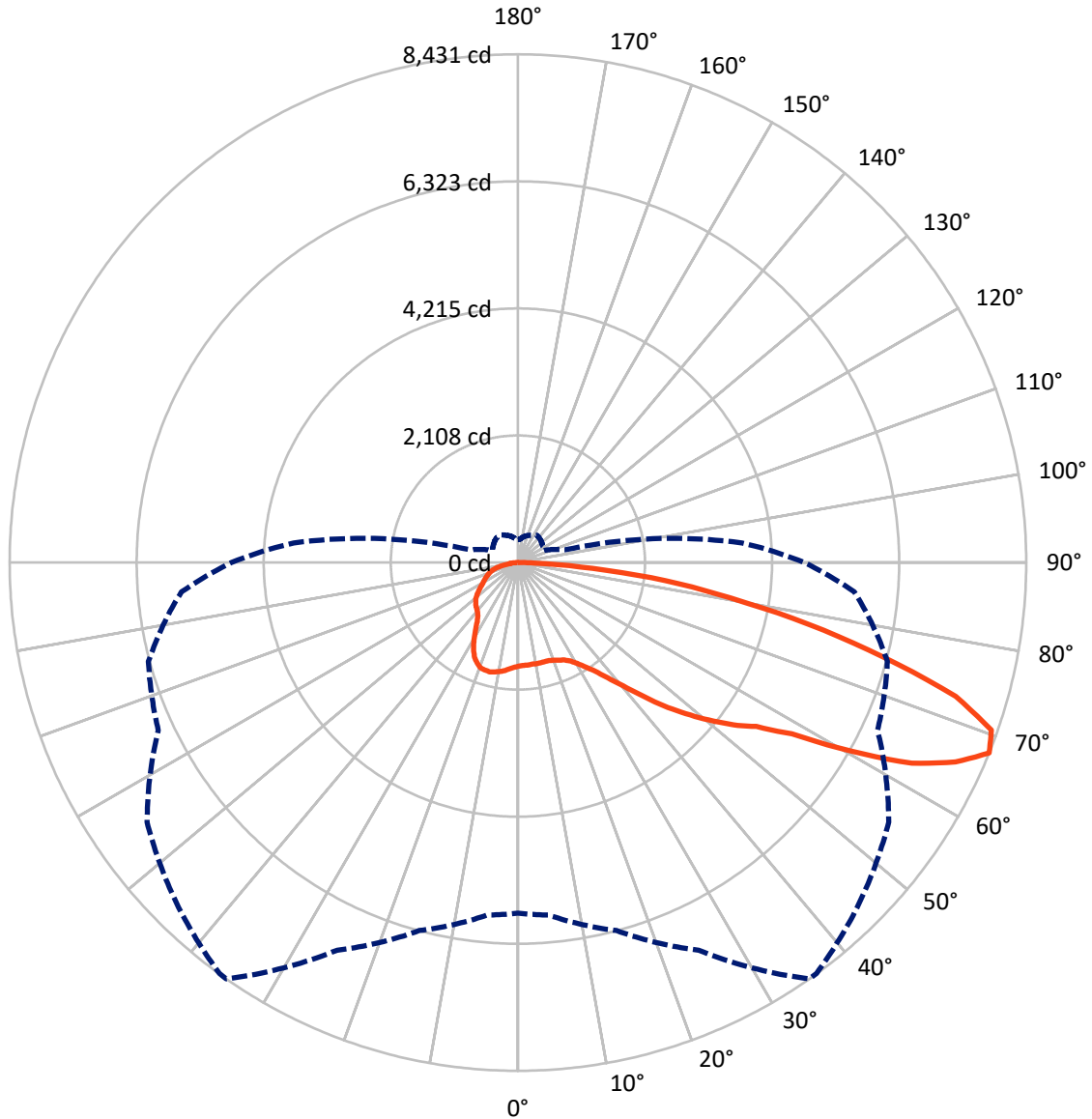
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P509201  
CATALOG NUMBER: VERD-CA2-130-722-U-T4

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509201

CATALOG NUMBER: VERD-CA2-130-722-U-T4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3407.5	0.0	3407.5
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	11549.5	0.0	11549.5
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	14957.0	0.0	14957.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	1.1
10°-20°	510.2	3.4
20°-30°	851.5	5.7
30°-40°	1310.1	8.8
40°-50°	2159.0	14.4
50°-60°	3083.8	20.6
60°-70°	3839.5	25.7
70°-80°	2591.1	17.3
80°-90°	445.4	3.0
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°	14957.0	100.0
0°-180°	14957.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509201

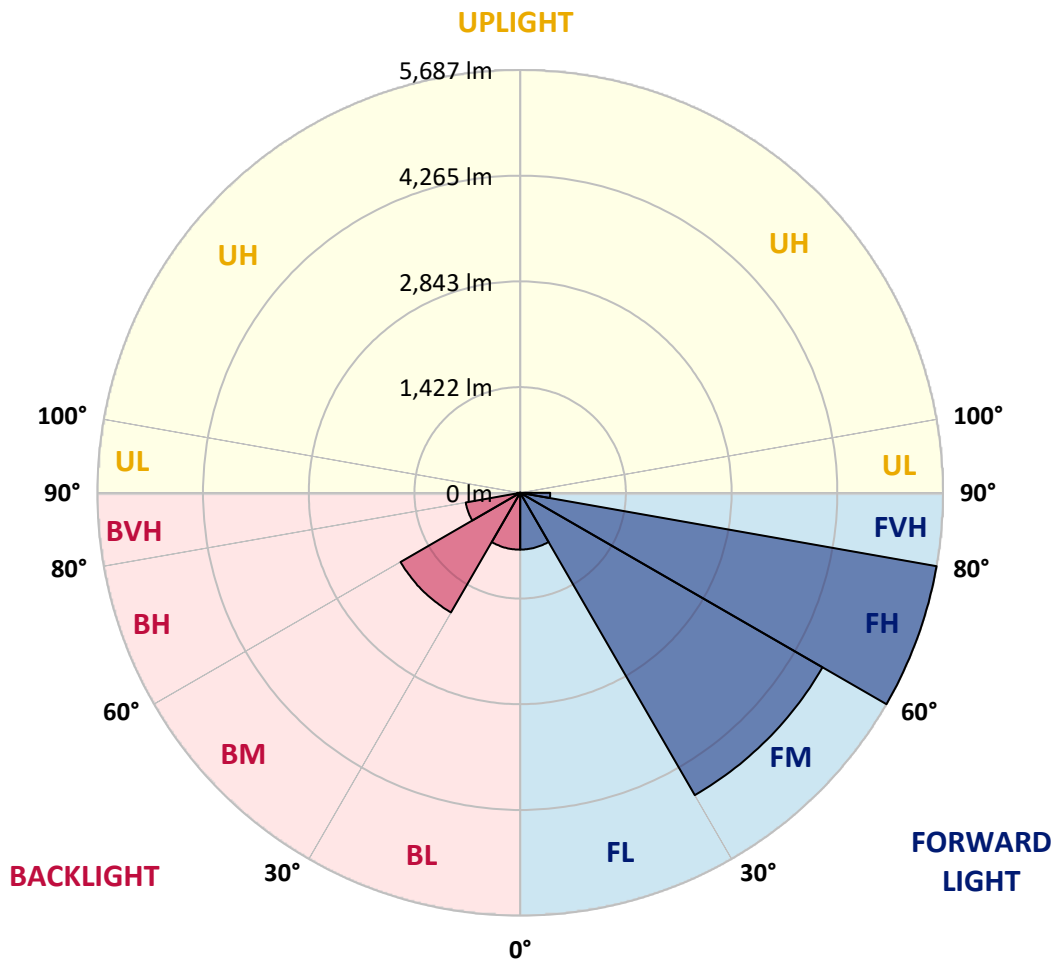
CATALOG NUMBER: VERD-CA2-130-722-U-T4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.3	5.1			
FM	(30°-60°)	4695.2	31.4			
FH	(60°-80°)	5686.7	38.0			G3/7500
FVH	(80°-90°)	404.3	2.7			G3/500
BL	(0°-30°)	764.8	5.1	B2/1000		
BM	(30°-60°)	1857.8	12.4	B2/2500		
BH	(60°-80°)	743.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	41.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





REPORT NUMBER: P509201  
 CATALOG NUMBER: VERD-CA2-130-722-U-T4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8
2.5°	1694.6	1710.7	1709.1	1705.9	1707.5	1709.1	1701.0	1696.2	1702.6	1704.2	1712.3
5°	1693.0	1705.9	1704.2	1704.2	1709.1	1707.5	1694.6	1684.9	1696.2	1704.2	1712.3
7.5°	1691.3	1702.6	1702.6	1697.8	1701.0	1701.0	1694.6	1701.0	1701.0	1713.9	1723.6
10°	1689.7	1699.4	1699.4	1701.0	1705.9	1707.5	1707.5	1712.3	1730.0	1734.9	1754.2
12.5°	1670.4	1678.4	1684.9	1694.6	1704.2	1707.5	1715.5	1730.0	1752.6	1763.9	1786.5
15°	1654.3	1665.5	1676.8	1686.5	1701.0	1704.2	1722.0	1746.2	1770.3	1794.5	1828.4
17.5°	1660.7	1675.2	1688.1	1696.2	1707.5	1710.7	1728.4	1760.7	1799.4	1834.8	1881.6
20°	1675.2	1691.3	1704.2	1713.9	1728.4	1731.6	1746.2	1776.8	1826.8	1881.6	1934.8
22.5°	1710.7	1722.0	1736.5	1741.3	1757.4	1760.7	1770.3	1801.0	1865.5	1934.8	2002.5
25°	1742.9	1755.8	1767.1	1772.0	1789.7	1792.9	1810.7	1836.5	1912.2	1991.2	2089.6
27.5°	1784.9	1797.8	1812.3	1817.1	1847.7	1851.0	1859.0	1897.7	1973.5	2065.4	2187.9
30°	1865.5	1873.5	1889.7	1909.0	1939.6	1942.9	1960.6	2000.9	2055.7	2168.6	2331.4
32.5°	1988.0	1999.3	1992.8	2018.6	2063.8	2063.8	2125.1	2192.8	2260.5	2339.5	2555.6
35°	2223.4	2217.0	2210.5	2187.9	2215.4	2225.0	2310.5	2425.0	2613.6	2836.1	3048.9
37.5°	2515.2	2513.6	2479.8	2428.2	2426.6	2429.8	2507.2	2700.7	3000.6	3495.5	3724.5
40°	2963.5	2976.4	2857.1	2750.6	2691.0	2678.1	2739.4	2982.8	3385.9	4045.4	4201.7
42.5°	3411.7	3384.3	3287.6	3115.0	3015.1	3007.0	3018.3	3231.1	3760.0	4490.4	4546.8
45°	3808.3	3829.3	3677.7	3572.9	3389.1	3392.4	3342.4	3537.5	4130.8	4804.8	4814.4
47.5°	4213.0	4229.2	4040.5	3921.2	3745.5	3745.5	3666.5	3821.2	4461.3	5104.7	5085.3
50°	4645.1	4682.2	4445.2	4264.6	4103.4	4096.9	4072.8	4169.5	4787.0	5357.8	5280.4
52.5°	5228.8	5101.4	4877.3	4632.2	4472.6	4453.3	4430.7	4500.0	5161.1	5564.2	5406.2
55°	5831.8	5659.3	5430.4	5101.4	4799.9	4827.3	4770.9	4849.9	5504.5	5810.9	5570.6
57.5°	6197.8	6262.3	6138.2	5856.0	5359.4	5354.6	5141.7	5183.7	5812.5	6018.9	5744.8
60°	6583.2	6673.5	6757.3	6589.6	6354.2	6247.8	5701.2	5538.4	6159.1	6170.4	5725.4
62.5°	6784.7	6767.0	7131.4	7150.7	7332.9	7345.8	6812.1	5997.9	6363.9	6297.8	5793.1
65°	6425.2	6434.8	7034.6	7347.4	7974.6	8011.7	7816.6	6805.7	6536.4	6357.4	5715.7
67.5°	5815.7	5870.5	6320.4	7094.3	8430.9	8424.5	8002.0	7508.7	6581.6	6344.5	5602.9
70°	4756.4	4814.4	5275.6	6399.4	8330.9	8277.7	7923.0	7565.1	6542.9	6228.5	5040.2
72.5°	3648.7	3640.7	4117.9	5111.1	7595.7	7647.3	7518.3	7166.8	6357.4	5731.9	4129.2
75°	2571.7	2531.4	2955.4	3874.4	6263.9	6454.2	6894.4	6797.6	5656.1	4717.7	2760.3
77.5°	1688.1	1749.4	2088.0	2865.1	4925.7	5085.3	5693.2	5501.3	4185.6	3010.2	996.4
80°	1072.2	1127.0	1401.1	2046.1	3581.0	3653.6	4150.2	3498.8	2236.3	993.2	138.7
82.5°	651.4	659.4	902.9	1383.4	2470.1	2470.1	2613.6	1955.8	875.5	129.0	90.3
85°	346.7	366.0	486.9	746.5	1244.7	1338.2	1185.1	746.5	169.3	70.9	54.8
87.5°	109.6	111.3	159.6	288.6	267.6	275.7	91.9	38.7	19.3	12.9	11.3
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: P509201  
 CATALOG NUMBER: VERD-CA2-130-722-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8	1718.8
2.5°	1715.5	1717.1	1726.8	1731.6	1733.3	1728.4	1739.7	1755.8	1751.0	1768.7	1762.3
5°	1715.5	1723.6	1736.5	1734.9	1747.8	1754.2	1767.1	1783.2	1778.4	1804.2	1794.5
7.5°	1728.4	1741.3	1751.0	1770.3	1780.0	1776.8	1805.8	1818.7	1812.3	1831.6	1821.9
10°	1760.7	1775.2	1788.1	1809.0	1823.6	1817.1	1833.2	1841.3	1830.0	1849.4	1844.5
12.5°	1797.8	1813.9	1839.7	1854.2	1865.5	1854.2	1854.2	1849.4	1833.2	1851.0	1839.7
15°	1839.7	1860.6	1896.1	1912.2	1909.0	1889.7	1871.9	1838.1	1794.5	1802.6	1786.5
17.5°	1896.1	1921.9	1962.2	1971.9	1959.0	1912.2	1865.5	1804.2	1726.8	1707.5	1694.6
20°	1957.4	1986.4	2042.8	2038.0	2009.0	1926.7	1852.6	1757.4	1636.5	1581.7	1555.9
22.5°	2041.2	2070.2	2123.4	2094.4	2034.8	1926.7	1801.0	1668.8	1525.3	1444.7	1426.9
25°	2133.1	2173.4	2196.0	2131.5	2028.3	1883.2	1731.6	1557.5	1373.7	1286.6	1268.9
27.5°	2246.0	2273.4	2250.8	2136.3	1996.1	1810.7	1618.8	1409.2	1233.4	1159.3	1133.5
30°	2378.2	2381.4	2292.7	2126.7	1923.5	1707.5	1480.1	1259.2	1123.8	1054.5	1038.3
32.5°	2553.9	2521.7	2329.8	2081.5	1825.2	1565.6	1325.3	1159.3	1046.4	959.3	936.8
35°	3011.8	2865.1	2412.1	2029.9	1705.9	1407.6	1191.5	1069.0	973.9	875.5	857.8
37.5°	3605.2	3345.6	2557.2	1976.7	1570.4	1262.5	1102.8	1015.8	935.2	825.5	801.3
40°	4050.2	3750.3	2781.3	1918.7	1446.3	1159.3	1054.5	994.8	906.1	806.2	780.4
42.5°	4390.4	4087.3	3011.8	1854.2	1330.2	1078.7	1020.6	980.3	894.8	801.3	780.4
45°	4625.8	4322.7	3210.2	1778.4	1181.8	1009.3	994.8	956.1	873.9	783.6	762.6
47.5°	4864.4	4488.7	3321.4	1699.4	1057.7	970.6	957.7	914.2	838.4	753.0	736.8
50°	5072.4	4677.4	3416.5	1618.8	959.3	923.9	915.8	857.8	785.2	704.6	683.6
52.5°	5132.1	4722.5	3377.8	1613.9	870.7	873.9	857.8	811.0	743.3	656.2	635.3
55°	5267.5	4848.3	3284.3	1465.6	785.2	796.5	793.3	769.1	706.2	625.6	609.5
57.5°	5325.5	4753.2	3148.9	1089.9	696.5	706.2	733.6	733.6	678.8	606.2	591.7
60°	5317.5	4756.4	2907.0	762.6	609.5	635.3	674.0	674.0	630.4	559.5	541.7
62.5°	5256.2	4633.9	2505.6	582.1	554.6	591.7	636.9	607.9	569.2	490.2	477.3
65°	5154.6	4296.9	1736.5	511.1	524.0	567.5	590.1	554.6	507.9	436.9	428.9
67.5°	4748.3	3732.6	807.8	467.6	498.2	532.1	551.4	501.4	453.1	388.6	378.9
70°	4042.1	2731.3	348.3	433.7	467.6	491.8	511.1	459.5	407.9	351.5	348.3
72.5°	2939.3	1457.6	290.2	380.5	416.0	441.8	466.0	414.4	364.4	298.3	298.3
75°	1415.6	241.9	249.9	316.0	348.3	399.9	411.1	338.6	282.2	227.3	222.5
77.5°	174.1	156.4	216.1	251.5	278.9	306.3	333.8	293.4	243.5	187.0	177.4
80°	109.6	109.6	170.9	175.7	190.3	219.3	245.1	229.0	191.9	108.0	100.0
82.5°	80.6	87.1	112.9	83.8	100.0	125.8	143.5	162.8	138.7	75.8	70.9
85°	51.6	56.4	53.2	41.9	54.8	83.8	114.5	112.9	93.5	56.4	53.2
87.5°	11.3	11.3	11.3	9.7	11.3	14.5	27.4	53.2	38.7	30.6	29.0
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)