

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: P509391

Luminaire Tested: **VERD-CA2-90-722-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-90-722-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1250mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10568 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

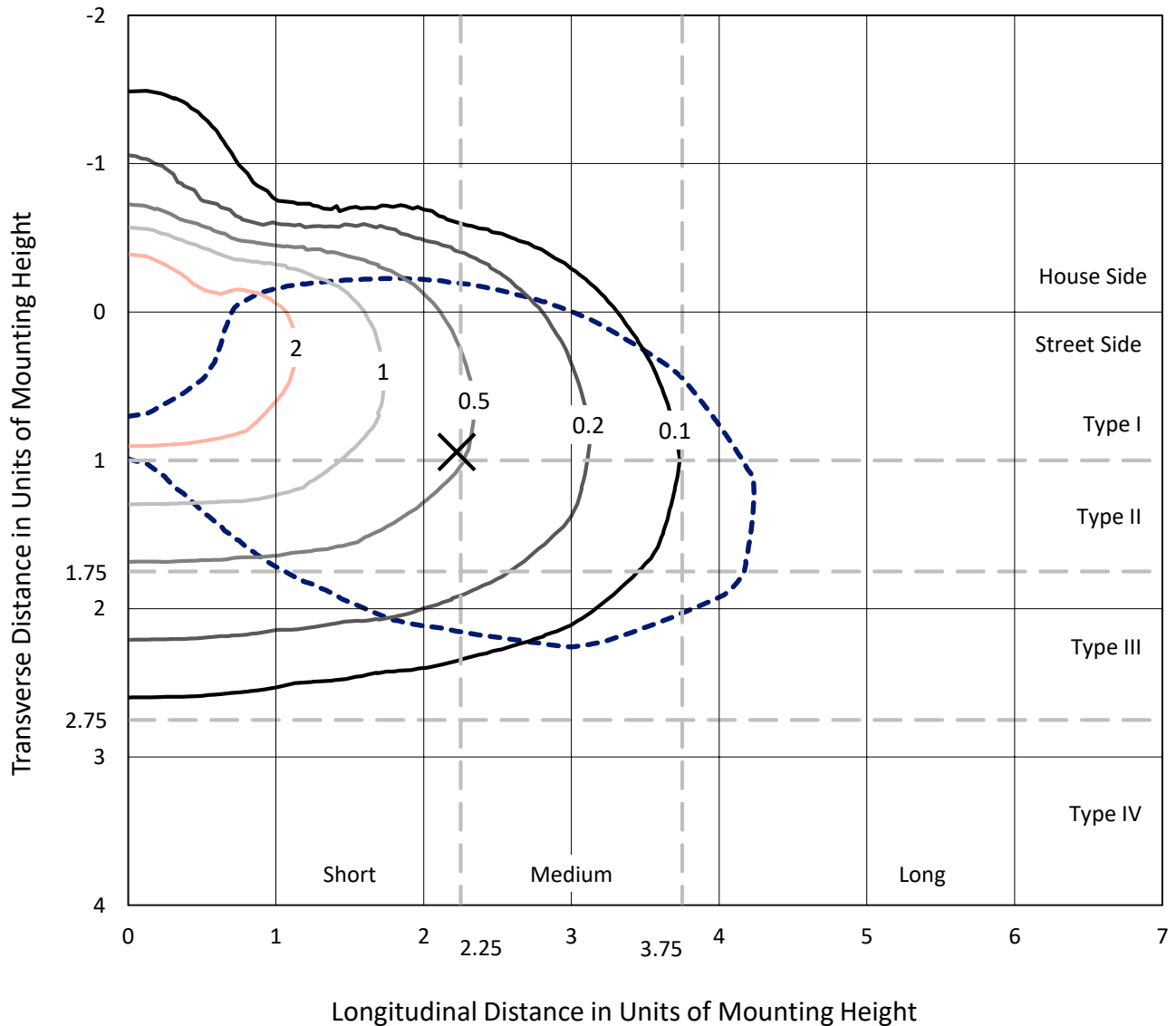
Input Watts (W): 94.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

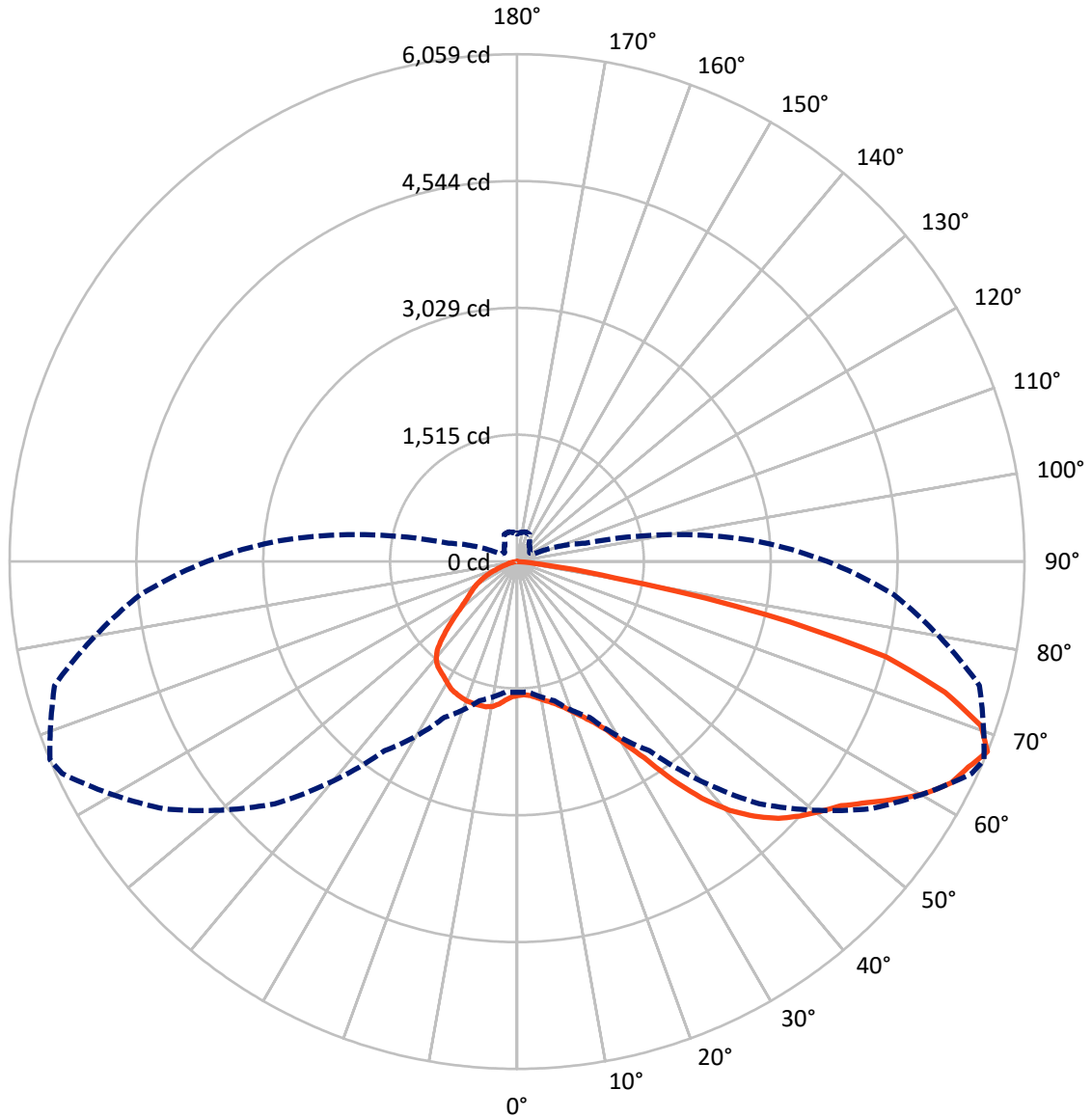
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2416.4	0.0	2416.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8151.6	0.0	8151.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10568.0	0.0	10568.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.9	1.5
10°-20°	518.2	4.9
20°-30°	895.4	8.5
30°-40°	1359.1	12.9
40°-50°	1846.8	17.5
50°-60°	2196.3	20.8
60°-70°	2259.7	21.4
70°-80°	1232.7	11.7
80°-90°	97.9	0.9
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°	10568.0	100.0
0°-180°	10568.0	100.0

**Coefficient of Utilization**



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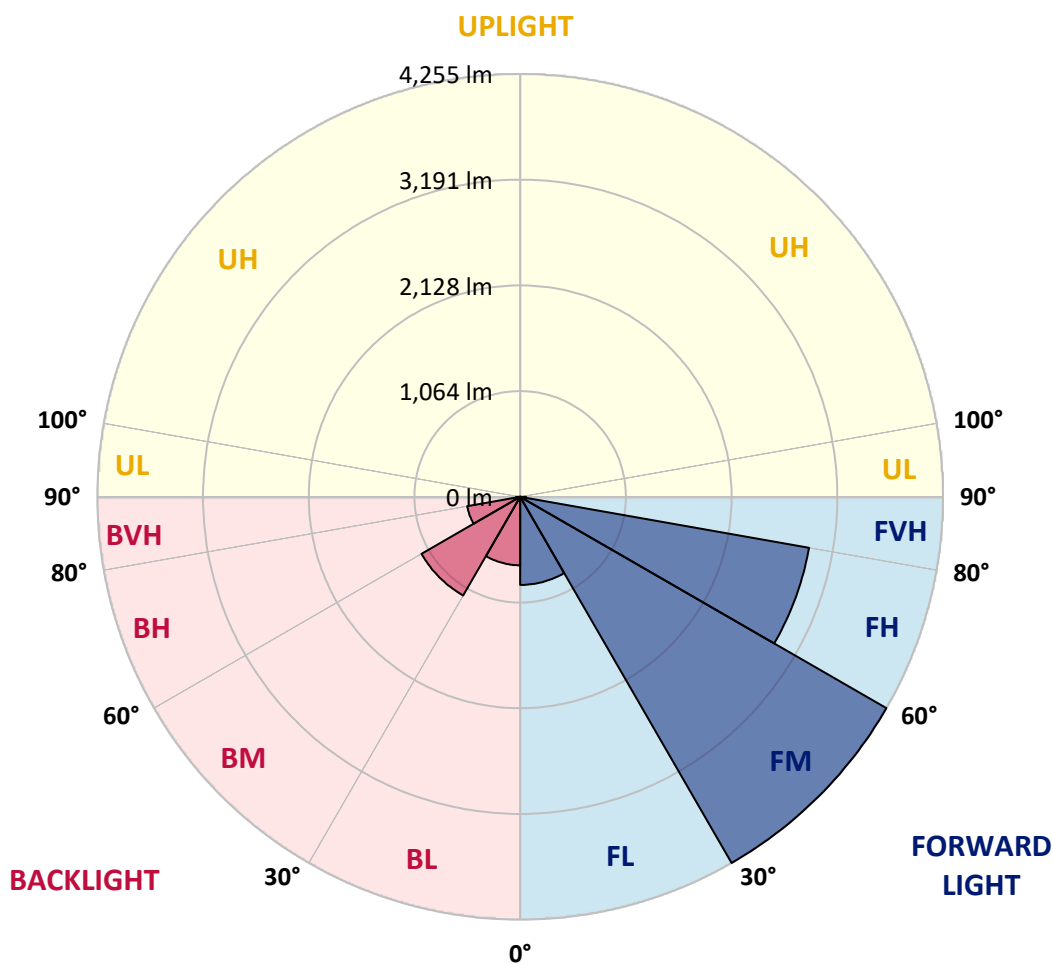
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.4	8.4			
FM (30°-60°)	4255.1	40.3			
FH (60°-80°)	2951.4	27.9			G2/5000
FVH (80°-90°)	58.6	0.6			G1/100
BL (0°-30°)	689.0	6.5	B2/1000		
BM (30°-60°)	1147.1	10.9	B2/2500		
BH (60°-80°)	541.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	39.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1607.9	1601.1	1591.9	1595.3	1588.5	1599.9	1595.3	1593.0	1593.0	1594.2	1599.9
5°	1644.5	1637.7	1630.8	1629.7	1615.9	1620.5	1613.6	1606.8	1606.8	1605.6	1607.9
7.5°	1708.6	1699.5	1691.5	1690.3	1673.2	1670.9	1650.3	1636.5	1636.5	1635.4	1638.8
10°	1793.3	1789.9	1773.9	1763.6	1743.0	1729.2	1704.1	1682.3	1677.7	1670.9	1680.0
12.5°	1874.6	1873.4	1858.5	1847.1	1818.5	1794.5	1753.3	1723.5	1717.8	1709.8	1716.6
15°	1976.4	1966.1	1950.1	1943.2	1902.0	1865.4	1818.5	1773.9	1768.1	1759.0	1764.7
17.5°	2088.6	2082.9	2057.7	2049.7	1998.2	1955.8	1897.5	1840.2	1831.1	1818.5	1817.4
20°	2223.6	2213.3	2193.9	2171.0	2120.6	2060.0	1992.4	1927.2	1919.2	1908.9	1887.2
22.5°	2369.0	2357.5	2338.1	2314.0	2249.9	2185.9	2101.2	2018.8	2014.2	2007.3	1967.3
25°	2507.4	2488.0	2490.3	2467.4	2410.2	2328.9	2229.3	2130.9	2128.6	2127.5	2063.4
27.5°	2655.1	2634.5	2627.6	2619.6	2565.8	2489.1	2377.0	2283.1	2275.1	2276.3	2179.0
30°	2793.5	2784.4	2778.7	2772.9	2746.6	2678.0	2570.4	2486.8	2512.0	2509.7	2375.8
32.5°	2901.1	2894.3	2918.3	2945.8	2938.9	2881.7	2807.3	2769.5	2794.7	2875.9	2759.2
35°	2996.1	2992.7	3038.5	3096.8	3138.0	3096.8	3088.8	3147.2	3205.5	3340.6	3273.1
37.5°	3099.1	3094.5	3133.4	3233.0	3305.1	3317.7	3378.3	3528.3	3584.3	3719.4	3577.5
40°	3098.0	3103.7	3197.5	3324.6	3456.2	3562.6	3687.3	3832.7	3904.8	3968.9	3749.1
42.5°	3047.6	3051.0	3168.9	3410.4	3601.5	3810.9	3922.0	4108.5	4157.7	4170.3	3951.7
45°	2996.1	2998.4	3126.6	3397.8	3722.8	4043.3	4166.9	4337.4	4375.1	4331.7	4089.0
47.5°	2921.7	2936.6	3075.1	3385.2	3827.0	4257.3	4356.8	4526.2	4541.1	4486.2	4203.5
50°	2833.6	2841.6	3000.7	3344.0	3895.6	4390.0	4507.9	4661.3	4689.9	4628.1	4345.4
52.5°	2726.0	2732.9	2905.7	3289.1	3933.4	4491.9	4623.5	4806.6	4845.5	4818.0	4470.1
55°	2602.4	2605.9	2782.1	3199.8	3923.1	4536.5	4724.2	5012.6	5077.8	5010.3	4574.3
57.5°	2447.9	2460.5	2660.8	3065.9	3845.3	4592.6	4906.2	5266.7	5350.2	5206.0	4652.1
60°	2288.9	2301.4	2483.4	2910.3	3714.8	4617.8	5093.8	5540.2	5613.4	5391.4	4700.2
62.5°	2110.3	2127.5	2278.6	2675.7	3481.3	4584.6	5232.3	5779.4	5820.6	5502.4	4687.6
65°	1850.5	1859.7	2024.5	2393.0	3176.9	4411.8	5226.6	5907.5	5921.3	5624.9	4632.6
67.5°	1562.1	1563.3	1718.9	2052.0	2758.1	4089.0	5146.5	5991.1	6058.6	5715.3	4512.5
70°	1187.9	1203.9	1325.2	1572.4	2254.5	3537.4	4882.1	5908.7	5876.6	5468.1	4168.0
72.5°	848.0	838.9	900.7	1067.8	1578.2	2729.5	4209.2	5338.8	5345.6	4980.5	3626.7
75°	450.9	453.2	505.8	646.6	805.7	1776.2	3366.9	4510.2	4551.4	4271.0	2838.2
77.5°	100.7	114.4	174.0	247.2	350.2	568.8	1826.5	2958.3	3036.2	2810.7	1555.3
80°	77.8	79.0	114.4	140.8	154.5	272.4	580.2	1073.5	1191.3	1125.0	584.8
82.5°	51.5	52.6	75.5	77.8	74.4	124.7	263.2	321.6	353.6	309.0	217.4
85°	27.5	28.6	34.3	37.8	29.8	36.6	34.3	27.5	28.6	25.2	25.2
87.5°	5.7	3.4	4.6	3.4	3.4	2.3	3.4	3.4	3.4	3.4	3.4
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°	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1599.9	1602.2	1607.9	1617.1	1621.7	1632.0	1638.8	1656.0	1680.0	1672.0	1661.7
5°	1609.1	1615.9	1635.4	1659.4	1677.7	1705.2	1718.9	1752.1	1779.6	1777.3	1759.0
7.5°	1643.4	1658.3	1682.3	1717.8	1748.7	1776.2	1795.6	1831.1	1856.3	1846.0	1828.8
10°	1686.9	1701.8	1728.1	1760.1	1783.0	1812.8	1825.4	1854.0	1870.0	1857.4	1842.5
12.5°	1726.9	1735.0	1753.3	1777.3	1789.9	1809.3	1815.1	1835.7	1850.5	1844.8	1826.5
15°	1765.9	1764.7	1768.1	1775.0	1779.6	1784.2	1785.3	1800.2	1810.5	1799.0	1786.5
17.5°	1809.3	1797.9	1783.0	1771.6	1754.4	1746.4	1731.5	1738.4	1737.2	1728.1	1717.8
20°	1864.3	1843.7	1797.9	1762.4	1717.8	1682.3	1651.4	1645.7	1645.7	1620.5	1619.4
22.5°	1929.5	1895.2	1818.5	1740.7	1668.6	1612.5	1555.3	1522.1	1498.1	1479.7	1471.7
25°	2014.2	1951.2	1836.8	1710.9	1604.5	1502.6	1416.8	1371.0	1325.2	1295.5	1290.9
27.5°	2104.6	2035.9	1848.3	1684.6	1516.4	1376.7	1257.7	1163.9	1121.5	1102.1	1083.8
30°	2252.2	2130.9	1868.8	1628.5	1405.4	1222.2	1064.3	954.5	913.3	899.5	888.1
32.5°	2610.4	2377.0	1888.3	1571.3	1286.3	1051.7	843.4	750.7	715.3	729.0	733.6
35°	3059.1	2743.2	1981.0	1504.9	1162.7	858.3	648.9	587.1	589.4	610.0	616.8
37.5°	3363.5	3065.9	2169.8	1421.4	985.4	636.3	502.4	482.9	500.1	518.4	521.9
40°	3542.0	3213.6	2302.6	1318.4	775.9	476.1	377.7	363.9	400.5	441.7	466.9
42.5°	3732.0	3339.4	2371.3	1184.5	544.7	344.5	289.5	299.8	358.2	393.7	409.7
45°	3833.8	3437.9	2340.4	993.4	370.8	267.8	259.8	288.4	346.8	378.8	383.4
47.5°	3943.7	3536.3	2266.0	794.2	283.8	254.1	255.2	289.5	349.1	383.4	383.4
50°	4038.7	3617.5	2133.2	622.6	270.1	244.9	256.4	295.3	352.5	382.2	381.1
52.5°	4148.5	3654.2	1944.4	503.5	256.4	236.9	257.5	299.8	346.8	363.9	361.6
55°	4182.9	3627.8	1854.0	421.1	246.1	232.3	262.1	306.7	344.5	347.9	342.2
57.5°	4182.9	3556.9	1751.0	359.4	236.9	232.3	264.4	305.6	357.1	378.8	376.5
60°	4164.6	3482.5	1593.0	321.6	224.3	230.0	265.5	322.7	424.6	448.6	447.5
62.5°	4106.2	3362.3	1398.5	283.8	211.7	231.2	262.1	346.8	485.2	474.9	449.8
65°	3967.7	3135.7	1134.1	249.5	198.0	231.2	257.5	381.1	431.4	412.0	402.8
67.5°	3706.8	2850.8	843.4	214.0	182.0	216.3	250.6	357.1	366.2	344.5	330.7
70°	3362.3	2414.7	541.3	180.8	164.8	203.7	246.1	335.3	353.6	327.3	310.1
72.5°	2801.6	1918.1	313.6	147.6	139.6	187.7	236.9	325.0	347.9	312.4	288.4
75°	1976.4	1210.8	206.0	108.7	112.2	160.2	219.7	304.4	326.2	282.7	248.3
77.5°	1007.1	454.3	146.5	80.1	75.5	122.5	190.0	280.4	321.6	285.0	243.8
80°	355.9	228.9	96.1	52.6	49.2	75.5	145.3	238.0	302.1	278.1	270.1
82.5°	152.2	114.4	52.6	33.2	29.8	37.8	82.4	187.7	265.5	251.8	304.4
85°	21.7	19.5	14.9	12.6	12.6	17.2	26.3	92.7	179.7	204.9	248.3
87.5°	3.4	3.4	3.4	2.3	2.3	2.3	1.1	13.7	59.5	89.3	123.6
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)