

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: P509537

Luminaire Tested: **VERD-G-CA2-120-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-722-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14378 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

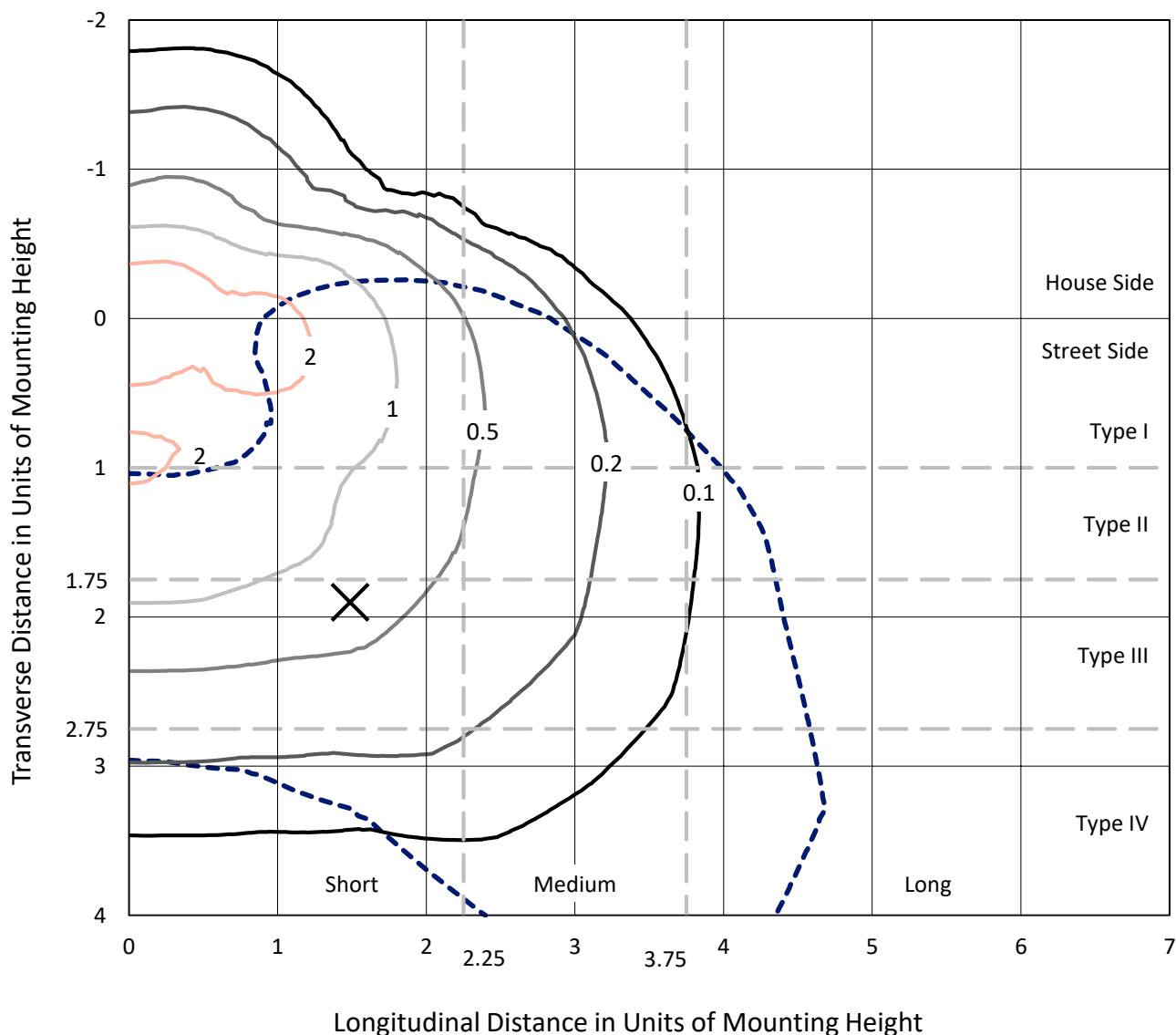
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

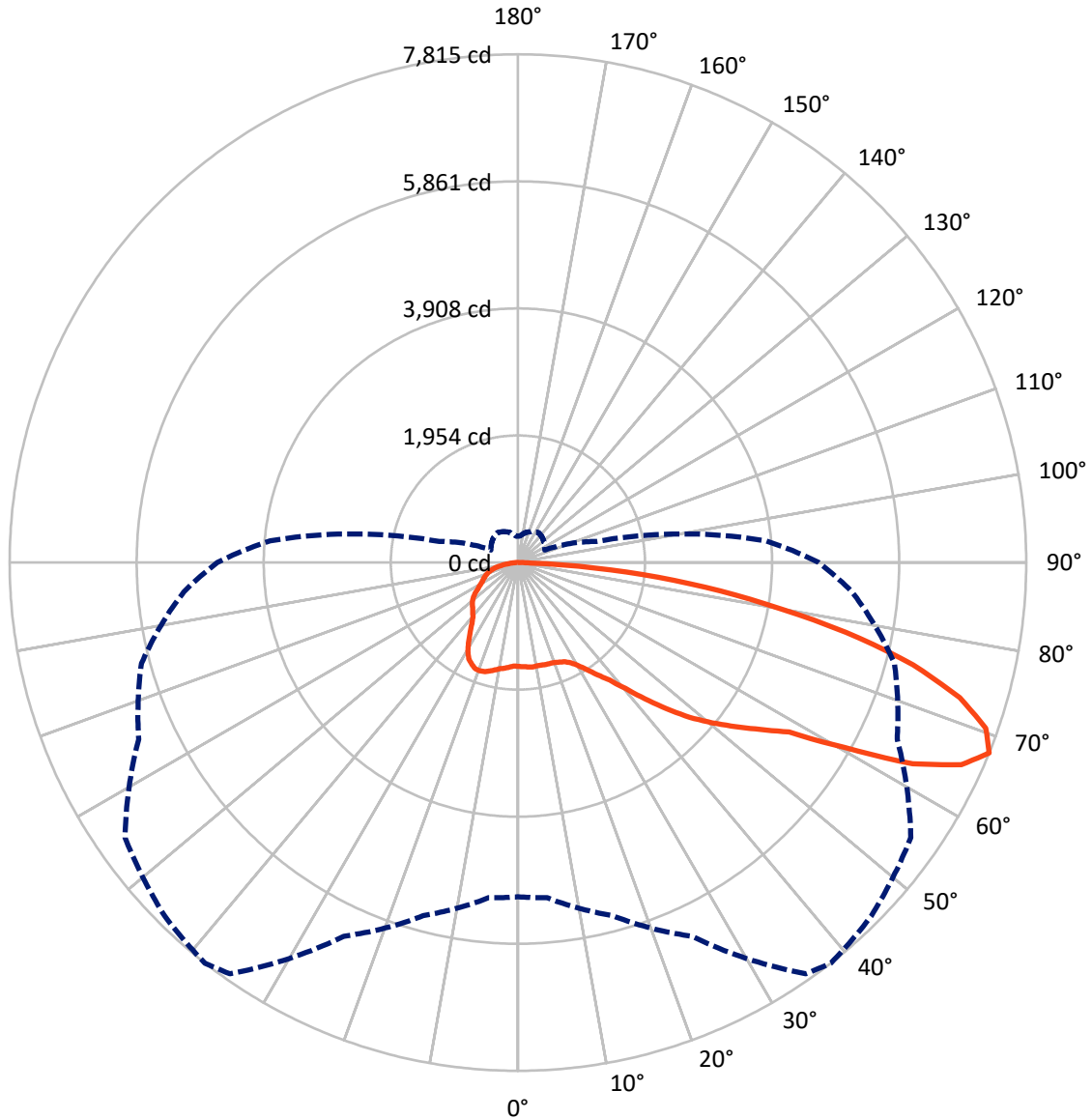
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3336.1	0.0	3336.1
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11041.9	0.0	11041.9
	% Fixture	76.8	0.0	76.8
Total	Lumens	14378.0	0.0	14378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	1.1
10°-20°	478.0	3.3
20°-30°	810.1	5.6
30°-40°	1241.5	8.6
40°-50°	2045.6	14.2
50°-60°	2923.8	20.3
60°-70°	3642.3	25.3
70°-80°	2595.5	18.1
80°-90°	486.2	3.4
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°	14378.0	100.0
0°-180°	14378.0	100.0

Coefficient of Utilization



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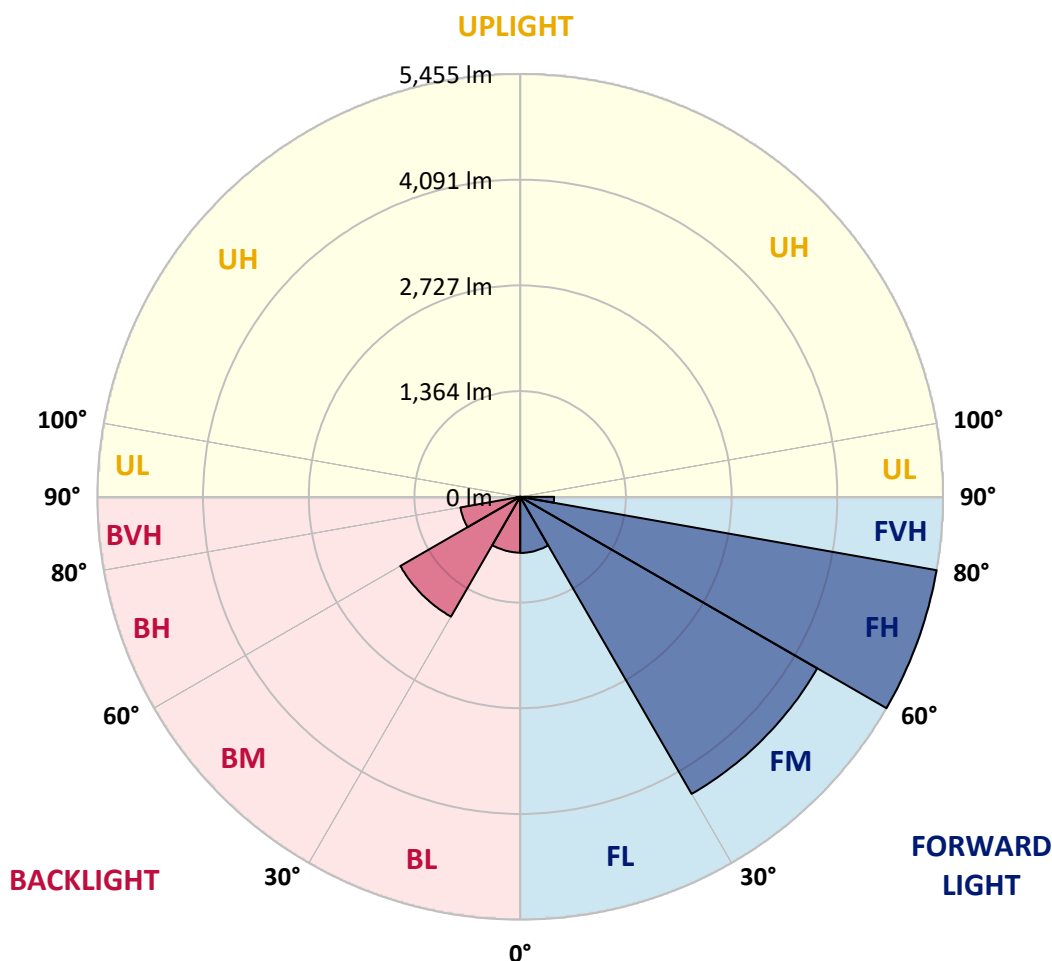
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.7	5.0			
FM (30°-60°)	4425.2	30.8			
FH (60°-80°)	5454.7	37.9			G3/7500
FVH (80°-90°)	438.3	3.0			G3/500
BL (0°-30°)	719.4	5.0	B2/1000		
BM (30°-60°)	1785.7	12.4	B2/2500		
BH (60°-80°)	783.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	47.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1627.0	1633.7	1621.3	1619.4	1611.8	1602.2	1604.1	1596.5	1586.9	1590.7	1592.6
5°	1636.6	1636.6	1627.0	1617.5	1613.7	1611.8	1613.7	1605.1	1603.2	1609.8	1604.1
7.5°	1628.0	1633.7	1617.5	1617.5	1610.8	1622.3	1623.2	1612.7	1620.4	1620.4	1619.4
10°	1626.1	1628.0	1621.3	1607.9	1607.0	1613.7	1627.0	1630.9	1634.7	1633.7	1637.6
12.5°	1604.1	1602.2	1588.8	1592.6	1610.8	1617.5	1640.4	1650.9	1665.3	1669.1	1671.0
15°	1576.4	1584.0	1585.0	1596.5	1615.6	1626.1	1649.0	1670.0	1701.6	1709.2	1708.3
17.5°	1579.3	1582.1	1586.9	1593.6	1623.2	1628.0	1665.3	1688.2	1727.4	1754.1	1767.5
20°	1597.4	1591.7	1601.2	1618.4	1634.7	1638.5	1677.7	1713.0	1766.5	1801.9	1817.2
22.5°	1628.0	1629.0	1633.7	1633.7	1645.2	1662.4	1698.7	1726.4	1792.3	1842.0	1868.8
25°	1656.7	1658.6	1664.3	1662.4	1681.5	1689.1	1723.5	1765.6	1841.1	1899.3	1950.9
27.5°	1699.7	1705.4	1701.6	1702.5	1739.8	1747.4	1762.7	1819.1	1896.5	1974.8	2066.5
30°	1779.9	1779.9	1776.1	1779.9	1820.0	1839.1	1843.9	1899.3	1962.4	2057.0	2195.5
32.5°	1895.5	1896.5	1872.6	1891.7	1936.6	1970.0	1984.4	2072.3	2143.0	2188.8	2367.5
35°	2143.0	2132.4	2107.6	2052.2	2080.9	2121.9	2167.8	2279.6	2435.3	2606.3	2785.9
37.5°	2522.2	2521.3	2433.4	2322.6	2272.9	2293.9	2357.9	2525.1	2768.7	3195.8	3354.4
40°	2943.6	2954.1	2827.0	2688.5	2542.3	2544.2	2560.5	2769.7	3122.2	3739.4	3822.5
42.5°	3364.0	3346.8	3206.3	3073.5	2874.8	2862.4	2819.4	3017.1	3492.0	4174.1	4185.6
45°	3738.5	3729.9	3574.1	3439.4	3252.2	3204.4	3155.7	3281.8	3844.5	4525.7	4450.2
47.5°	4090.1	4101.5	3886.6	3765.2	3579.9	3556.0	3499.6	3579.9	4193.2	4801.8	4665.2
50°	4490.4	4495.1	4238.1	4088.1	3904.7	3874.1	3852.2	3954.4	4553.4	5065.5	4884.0
52.5°	4938.5	4844.8	4594.5	4388.1	4212.3	4189.4	4177.0	4284.0	4948.0	5296.7	5028.3
55°	5502.1	5377.0	5120.9	4778.9	4522.9	4526.7	4483.7	4608.8	5280.5	5456.3	5168.7
57.5°	5748.6	5777.3	5729.5	5418.1	4969.0	4913.6	4807.6	4904.1	5596.7	5643.5	5279.5
60°	6213.0	6323.8	6220.6	6046.7	5913.9	5768.7	5250.9	5287.2	5885.2	5850.9	5291.9
62.5°	6244.5	6282.7	6608.5	6636.2	6765.2	6813.9	6384.9	5721.9	6147.0	5955.0	5334.0
65°	5934.9	5977.9	6370.6	6715.5	7425.4	7492.2	7356.6	6517.7	6359.1	6011.4	5300.5
67.5°	5139.1	5174.4	5620.6	6341.0	7718.7	7815.2	7683.3	7373.8	6433.6	5992.3	5153.4
70°	4395.8	4415.8	4786.5	5794.5	7517.1	7630.8	7578.2	7406.2	6430.8	5879.5	4828.6
72.5°	3452.8	3511.1	3810.1	4805.7	7007.8	7103.4	7118.7	7206.6	6267.4	5508.8	4102.5
75°	2504.1	2535.6	2874.8	3733.7	6048.6	6277.0	6545.4	6877.0	5653.1	4676.7	3033.4
77.5°	1764.6	1795.2	2114.3	2830.8	4895.5	5155.3	5640.7	5835.6	4586.9	3505.4	1596.5
80°	1161.8	1157.9	1461.8	2095.2	3673.5	3856.0	4216.2	3955.3	2661.7	1523.9	173.9
82.5°	682.2	720.4	936.3	1439.8	2567.2	2668.4	2658.9	2082.8	1056.7	157.6	88.9
85°	393.6	408.0	552.2	853.2	1414.9	1429.3	1280.2	808.3	261.8	70.7	52.5
87.5°	175.8	169.1	219.7	281.8	258.0	192.0	119.4	33.4	20.1	13.4	8.6
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°	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1585.0	1580.2	1604.1	1590.7	1602.2	1595.5	1589.8	1597.4	1611.8	1624.2	1616.5
5°	1597.4	1600.3	1619.4	1603.2	1618.4	1615.6	1607.9	1616.5	1639.5	1650.9	1650.0
7.5°	1611.8	1613.7	1633.7	1627.0	1633.7	1628.0	1640.4	1634.7	1654.7	1662.4	1657.6
10°	1629.0	1631.8	1650.0	1650.9	1653.8	1650.0	1655.7	1658.6	1670.0	1685.3	1675.8
12.5°	1666.2	1672.9	1686.3	1700.6	1698.7	1683.4	1688.2	1672.9	1683.4	1688.2	1695.8
15°	1717.8	1734.0	1741.7	1761.8	1743.6	1735.0	1716.8	1686.3	1676.7	1671.9	1664.3
17.5°	1773.2	1788.5	1802.8	1828.6	1799.0	1776.1	1744.6	1687.2	1644.2	1629.0	1622.3
20°	1835.3	1849.6	1875.4	1892.6	1848.7	1799.0	1748.4	1664.3	1579.3	1521.0	1527.7
22.5°	1905.1	1936.6	1953.8	1949.0	1886.9	1819.1	1732.1	1604.1	1495.2	1408.3	1402.5
25°	2001.6	2019.7	2026.4	1982.5	1907.9	1804.7	1677.7	1532.5	1380.5	1283.1	1268.8
27.5°	2102.8	2121.9	2086.6	2004.4	1901.2	1771.3	1616.5	1410.2	1247.7	1154.1	1143.6
30°	2232.8	2228.0	2127.7	1997.7	1863.0	1691.1	1504.8	1285.0	1135.0	1048.1	1043.3
32.5°	2374.2	2338.8	2161.1	1965.3	1790.4	1586.0	1362.4	1166.5	1050.9	964.0	960.2
35°	2708.6	2546.1	2209.8	1924.2	1683.4	1440.7	1230.6	1077.7	984.1	885.7	866.5
37.5°	3199.6	2937.8	2310.2	1882.1	1561.1	1297.4	1120.7	1011.8	922.9	817.8	799.7
40°	3657.3	3336.2	2485.9	1850.6	1451.2	1181.8	1045.2	965.9	879.9	774.8	751.9
42.5°	3982.1	3645.8	2697.1	1799.0	1341.4	1090.1	1013.7	948.7	868.5	771.0	752.9
45°	4243.9	3913.3	2906.3	1740.7	1212.4	1011.8	981.2	934.4	854.1	759.5	738.5
47.5°	4428.3	4081.5	3051.5	1674.8	1089.2	964.0	953.5	911.4	832.2	743.3	729.9
50°	4618.4	4269.7	3150.9	1607.0	978.3	927.7	915.3	859.9	787.2	707.9	693.6
52.5°	4742.6	4361.4	3208.2	1593.6	883.7	878.0	862.7	810.2	741.4	655.4	638.2
55°	4837.2	4442.6	3199.6	1515.3	798.7	813.0	803.5	764.3	704.1	620.1	608.6
57.5°	4860.1	4455.0	3121.3	1272.6	718.5	726.1	730.9	738.5	680.2	610.5	591.4
60°	4926.0	4396.7	2982.8	915.3	623.9	643.0	681.2	687.9	647.8	568.5	557.0
62.5°	4884.0	4357.6	2681.8	644.9	557.0	596.2	632.5	632.5	577.1	503.5	495.9
65°	4810.4	4202.8	2098.1	508.3	521.6	561.8	595.2	572.3	524.5	455.7	450.9
67.5°	4623.2	3825.4	1252.5	457.6	496.8	535.0	558.9	524.5	479.6	411.8	404.1
70°	4085.3	3048.7	476.7	433.8	472.0	498.7	514.0	478.7	434.7	366.9	360.2
72.5°	3243.6	1907.0	302.9	404.1	440.4	464.3	473.9	432.8	363.1	285.7	278.0
75°	1951.9	544.6	262.7	349.7	387.9	429.0	412.7	359.2	306.7	239.8	235.0
77.5°	493.9	165.3	234.1	281.8	315.3	364.0	363.1	323.9	267.5	195.9	188.2
80°	118.5	115.6	190.1	208.3	237.9	279.0	275.2	269.4	212.1	135.7	111.8
82.5°	75.5	80.3	129.0	116.6	135.7	162.4	184.4	173.9	158.6	83.1	74.5
85°	50.6	64.0	63.1	43.9	61.1	91.7	119.4	108.9	89.8	51.6	45.9
87.5°	7.6	8.6	11.5	17.2	26.8	44.9	59.2	58.3	43.9	32.5	30.6
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)