

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: P509161

Luminaire Tested: **VERD-CA2-120-727-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509161
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-CA2-120-727-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14605 lumens
Efficiency: N/A
Efficacy: 119.0 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

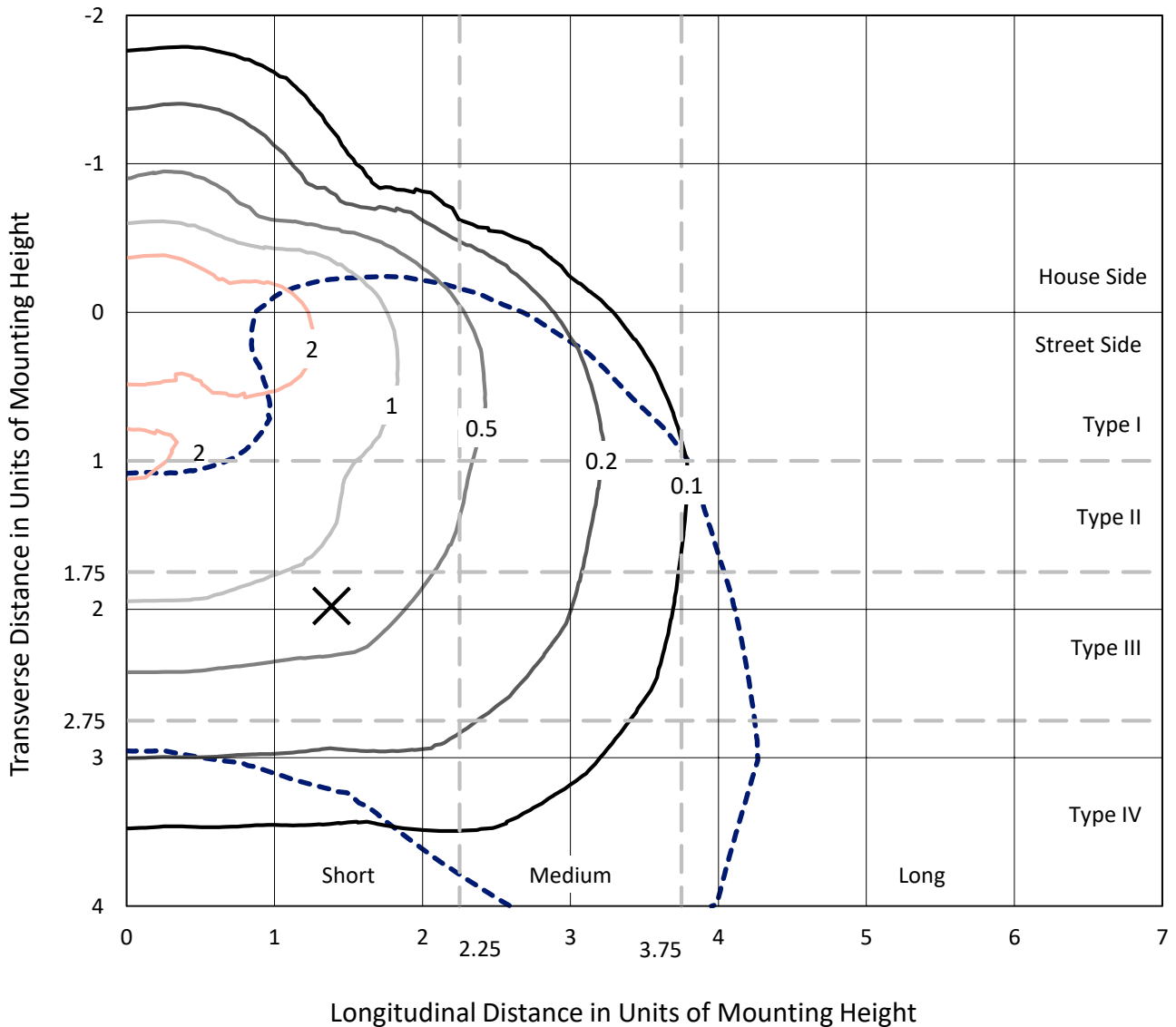
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

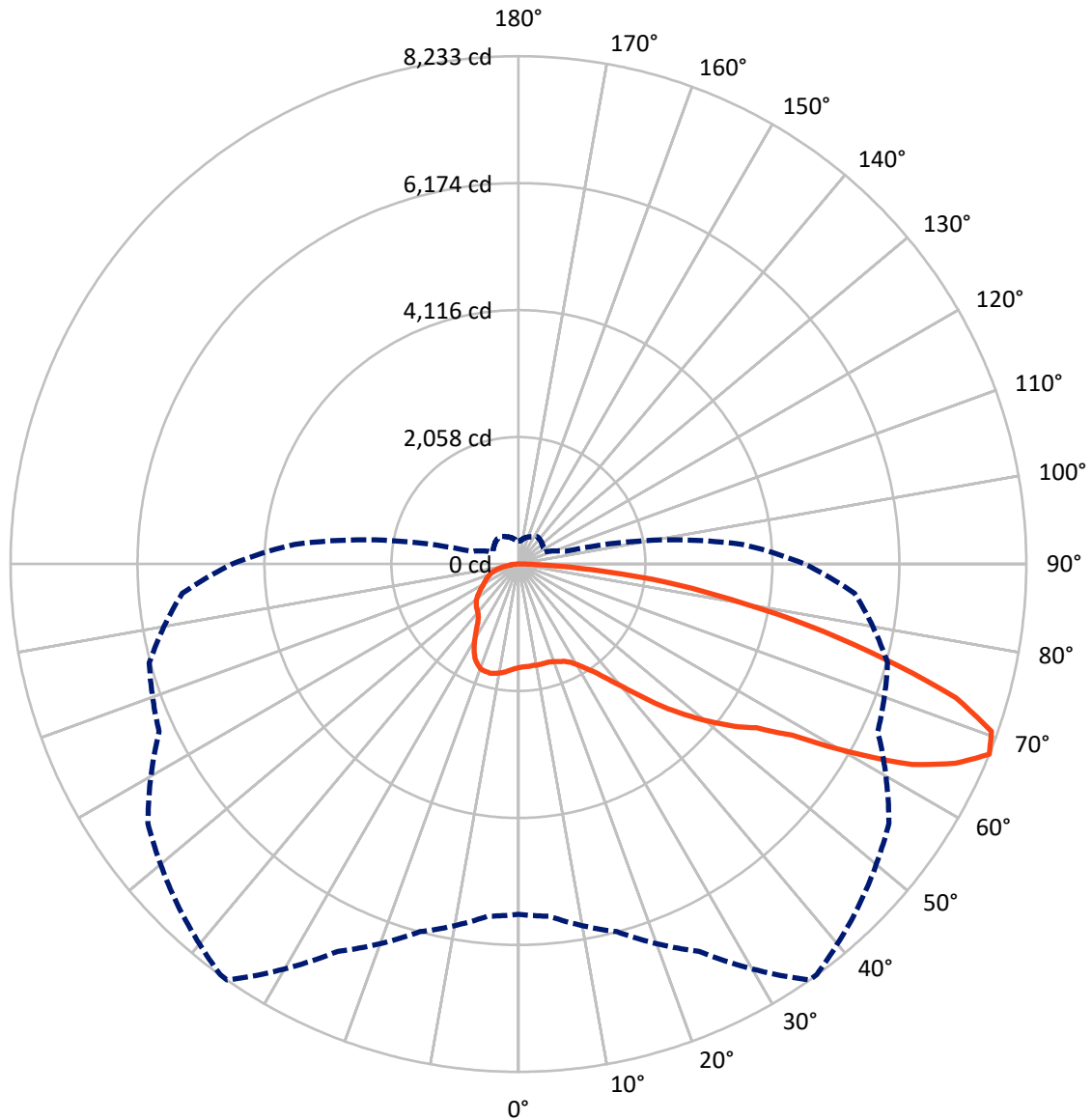
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3327.3	0.0	3327.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11277.7	0.0	11277.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	14605.0	0.0	14605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.1
10°-20°	498.2	3.4
20°-30°	831.5	5.7
30°-40°	1279.3	8.8
40°-50°	2108.2	14.4
50°-60°	3011.2	20.6
60°-70°	3749.2	25.7
70°-80°	2530.1	17.3
80°-90°	434.9	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°	14605.0	100.0
0°-180°	14605.0	100.0

Coefficient of Utilization



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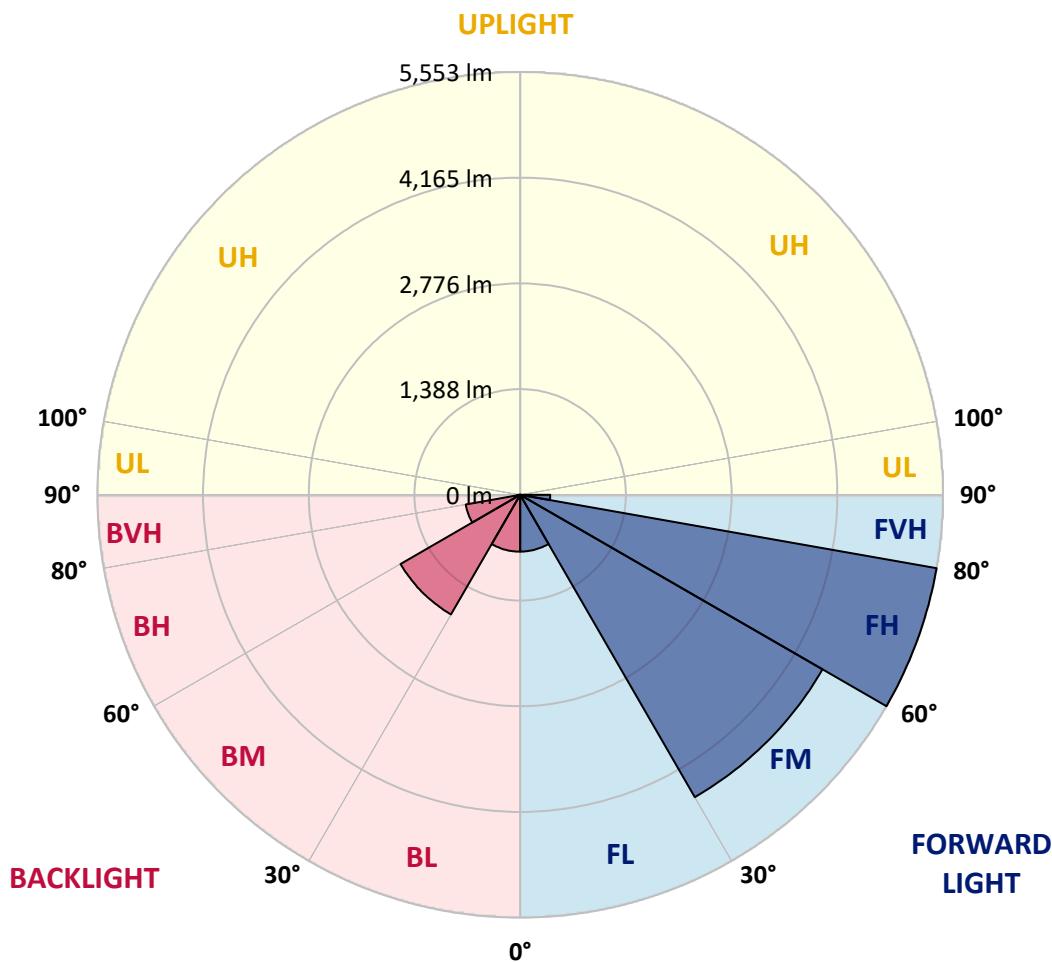
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	745.3	5.1			
FM	(30°-60°)	4584.7	31.4			
FH	(60°-80°)	5552.9	38.0			G3/7500
FVH	(80°-90°)	394.8	2.7			G3/500
BL	(0°-30°)	746.8	5.1	B2/1000		
BM	(30°-60°)	1814.1	12.4	B2/2500		
BH	(60°-80°)	726.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	40.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1654.7	1670.4	1668.9	1665.7	1667.3	1668.9	1661.0	1656.3	1662.6	1664.1	1672.0
5°	1653.1	1665.7	1664.1	1664.1	1668.9	1667.3	1654.7	1645.2	1656.3	1664.1	1672.0
7.5°	1651.5	1662.6	1662.6	1657.8	1661.0	1661.0	1654.7	1661.0	1661.0	1673.6	1683.0
10°	1650.0	1659.4	1659.4	1661.0	1665.7	1667.3	1667.3	1672.0	1689.3	1694.0	1712.9
12.5°	1631.1	1638.9	1645.2	1654.7	1664.1	1667.3	1675.2	1689.3	1711.4	1722.4	1744.4
15°	1615.3	1626.3	1637.4	1646.8	1661.0	1664.1	1681.5	1705.1	1728.7	1752.3	1785.4
17.5°	1621.6	1635.8	1648.4	1656.3	1667.3	1670.4	1687.7	1719.2	1757.0	1791.7	1837.3
20°	1635.8	1651.5	1664.1	1673.6	1687.7	1690.9	1705.1	1735.0	1783.8	1837.3	1889.3
22.5°	1670.4	1681.5	1695.6	1700.3	1716.1	1719.2	1728.7	1758.6	1821.6	1889.3	1955.4
25°	1701.9	1714.5	1725.5	1730.3	1747.6	1750.7	1768.0	1793.2	1867.2	1944.4	2040.4
27.5°	1742.9	1755.4	1769.6	1774.3	1804.3	1807.4	1815.3	1853.1	1927.1	2016.8	2136.4
30°	1821.6	1829.4	1845.2	1864.1	1894.0	1897.1	1914.5	1953.8	2007.3	2117.6	2276.6
32.5°	1941.2	1952.2	1945.9	1971.1	2015.2	2015.2	2075.0	2141.2	2207.3	2284.4	2495.4
35°	2171.1	2164.8	2158.5	2136.4	2163.2	2172.7	2256.1	2367.9	2552.1	2769.4	2977.2
37.5°	2456.1	2454.5	2421.4	2371.0	2369.5	2372.6	2448.2	2637.1	2929.9	3413.3	3636.8
40°	2893.7	2906.3	2789.8	2685.9	2627.7	2615.1	2674.9	2912.6	3306.2	3950.1	4102.9
42.5°	3331.4	3304.6	3210.2	3041.7	2944.1	2936.2	2947.3	3155.1	3671.5	4384.7	4439.8
45°	3718.7	3739.2	3591.2	3488.9	3309.4	3312.5	3263.7	3454.2	4033.6	4691.7	4701.1
47.5°	4113.9	4129.6	3945.4	3828.9	3657.3	3657.3	3580.2	3731.3	4356.3	4984.5	4965.6
50°	4535.8	4572.0	4340.6	4164.3	4006.8	4000.5	3976.9	4071.4	4674.4	5231.7	5156.1
52.5°	5105.8	4981.4	4762.5	4523.2	4367.4	4348.5	4326.4	4394.1	5039.6	5433.2	5278.9
55°	5694.6	5526.1	5302.6	4981.4	4687.0	4713.7	4658.6	4735.8	5375.0	5674.1	5439.5
57.5°	6052.0	6114.9	5993.7	5718.2	5233.3	5228.6	5020.7	5061.7	5675.7	5877.2	5609.6
60°	6428.2	6516.4	6598.3	6434.5	6204.7	6100.8	5567.0	5408.0	6014.2	6025.2	5590.7
62.5°	6625.0	6607.7	6963.5	6982.4	7160.3	7172.9	6651.8	5856.7	6214.1	6149.6	5656.8
65°	6274.0	6283.4	6869.1	7174.5	7786.9	7823.2	7632.7	6645.5	6382.6	6207.8	5581.2
67.5°	5678.8	5732.4	6171.6	6927.3	8232.5	8226.2	7813.7	7331.9	6426.7	6195.2	5471.0
70°	4644.5	4701.1	5151.4	6248.8	8134.9	8082.9	7736.6	7387.0	6388.9	6081.9	4921.5
72.5°	3562.8	3555.0	4021.0	4990.8	7417.0	7467.3	7341.4	6998.2	6207.8	5597.0	4032.0
75°	2511.2	2471.8	2885.9	3783.3	6116.5	6302.3	6732.1	6637.6	5523.0	4606.7	2695.4
77.5°	1648.4	1708.2	2038.8	2797.7	4809.8	4965.6	5559.2	5371.8	4087.1	2939.4	973.0
80°	1047.0	1100.5	1368.1	1997.9	3496.7	3567.6	4052.5	3416.4	2183.7	969.8	135.4
82.5°	636.1	643.9	881.7	1350.8	2412.0	2412.0	2552.1	1909.7	854.9	126.0	88.2
85°	338.5	357.4	475.5	728.9	1215.4	1306.7	1157.2	728.9	165.3	69.3	53.5
87.5°	107.1	108.6	155.9	281.8	261.3	269.2	89.7	37.8	18.9	12.6	11.0
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°	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1675.2	1676.7	1686.2	1690.9	1692.5	1687.7	1698.8	1714.5	1709.8	1727.1	1720.8
5°	1675.2	1683.0	1695.6	1694.0	1706.6	1712.9	1725.5	1741.3	1736.6	1761.7	1752.3
7.5°	1687.7	1700.3	1709.8	1728.7	1738.1	1735.0	1763.3	1775.9	1769.6	1788.5	1779.1
10°	1719.2	1733.4	1746.0	1766.5	1780.6	1774.3	1790.1	1798.0	1786.9	1805.8	1801.1
12.5°	1755.4	1771.2	1796.4	1810.6	1821.6	1810.6	1810.6	1805.8	1790.1	1807.4	1796.4
15°	1796.4	1816.8	1851.5	1867.2	1864.1	1845.2	1827.9	1794.8	1752.3	1760.2	1744.4
17.5°	1851.5	1876.7	1916.0	1925.5	1912.9	1867.2	1821.6	1761.7	1686.2	1667.3	1654.7
20°	1911.3	1939.7	1994.8	1990.0	1961.7	1881.4	1809.0	1716.1	1598.0	1544.5	1519.3
22.5°	1993.2	2021.5	2073.5	2045.1	1986.9	1881.4	1758.6	1629.5	1489.4	1410.7	1393.3
25°	2082.9	2122.3	2144.3	2081.3	1980.6	1838.9	1690.9	1520.9	1341.4	1256.4	1239.0
27.5°	2193.1	2219.9	2197.9	2086.1	1949.1	1768.0	1580.7	1376.0	1204.4	1132.0	1106.8
30°	2322.2	2325.4	2238.8	2076.6	1878.2	1667.3	1445.3	1229.6	1097.4	1029.7	1013.9
32.5°	2493.8	2462.3	2275.0	2032.5	1782.2	1528.7	1294.2	1132.0	1021.8	936.8	914.7
35°	2941.0	2797.7	2355.3	1982.2	1665.7	1374.4	1163.5	1043.8	950.9	854.9	837.6
37.5°	3520.3	3266.9	2497.0	1930.2	1533.5	1232.7	1076.9	991.9	913.1	806.1	782.5
40°	3954.9	3662.0	2715.8	1873.5	1412.2	1132.0	1029.7	971.4	884.8	787.2	762.0
42.5°	4287.1	3991.1	2941.0	1810.6	1298.9	1053.3	996.6	957.2	873.8	782.5	762.0
45°	4516.9	4220.9	3134.6	1736.6	1154.0	985.6	971.4	933.6	853.3	765.2	744.7
47.5°	4749.9	4383.1	3243.2	1659.4	1032.8	947.8	935.2	892.7	818.7	735.2	719.5
50°	4953.0	4567.3	3336.1	1580.7	936.8	902.1	894.3	837.6	766.7	688.0	667.5
52.5°	5011.3	4611.4	3298.4	1576.0	850.2	853.3	837.6	791.9	725.8	640.8	620.3
55°	5143.5	4734.2	3207.0	1431.1	766.7	777.7	774.6	751.0	689.6	610.9	595.1
57.5°	5200.2	4641.3	3074.8	1064.3	680.1	689.6	716.3	716.3	662.8	592.0	577.8
60°	5192.3	4644.5	2838.6	744.7	595.1	620.3	658.1	658.1	615.6	546.3	529.0
62.5°	5132.5	4524.8	2446.6	568.4	541.6	577.8	621.9	593.5	555.8	478.6	466.0
65°	5033.3	4195.8	1695.6	499.1	511.7	554.2	576.2	541.6	495.9	426.7	418.8
67.5°	4636.6	3644.7	788.8	456.6	486.5	519.5	538.4	489.6	442.4	379.4	370.0
70°	3947.0	2667.0	340.1	423.5	456.6	480.2	499.1	448.7	398.3	343.2	340.1
72.5°	2870.1	1423.3	283.4	371.6	406.2	431.4	455.0	404.6	355.8	291.3	291.3
75°	1382.3	236.2	244.0	308.6	340.1	390.4	401.5	330.6	275.5	222.0	217.3
77.5°	170.0	152.7	211.0	245.6	272.4	299.1	325.9	286.5	237.7	182.6	173.2
80°	107.1	107.1	166.9	171.6	185.8	214.1	239.3	223.6	187.4	105.5	97.6
82.5°	78.7	85.0	110.2	81.9	97.6	122.8	140.1	159.0	135.4	74.0	69.3
85°	50.4	55.1	52.0	40.9	53.5	81.9	111.8	110.2	91.3	55.1	52.0
87.5°	11.0	11.0	11.0	9.4	11.0	14.2	26.8	52.0	37.8	29.9	28.3
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)