

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: P509089

Luminaire Tested: **VERD-CA2-100-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509089
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-CA2-100-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1370mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14279 lumens
Efficiency: N/A
Efficacy: 138.1 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

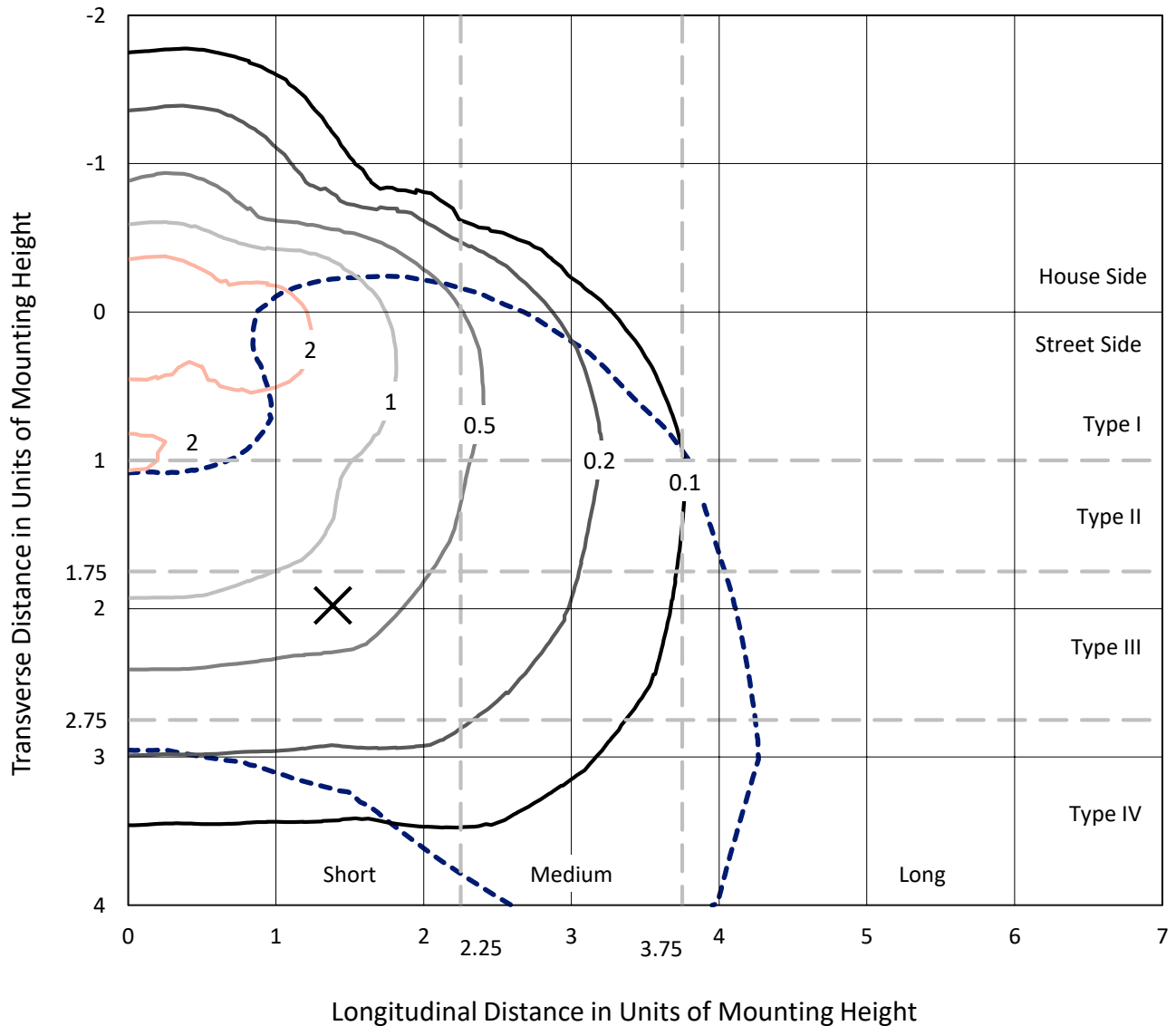
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

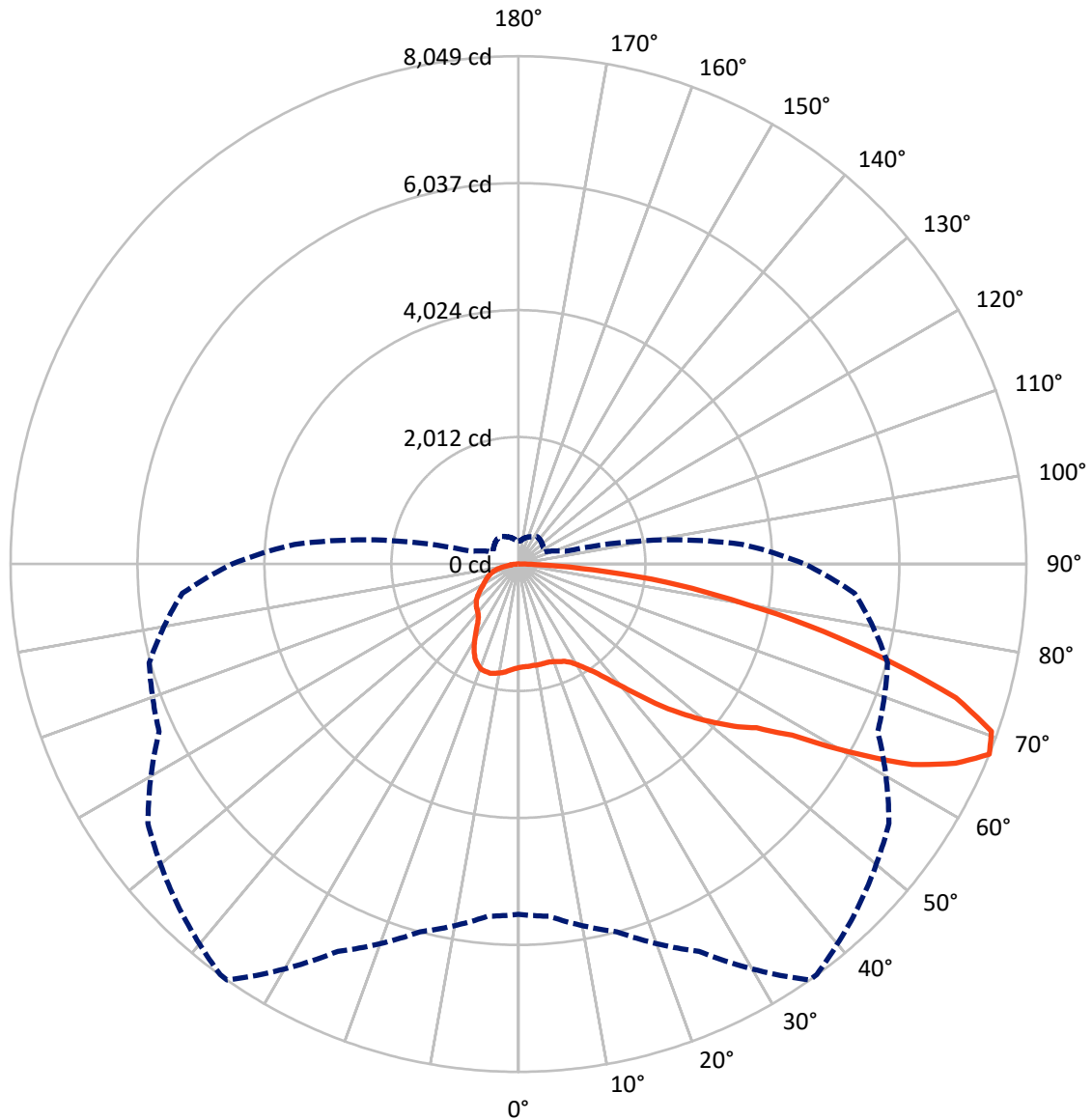
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type 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	3253.1	0.0	3253.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11025.9	0.0	11025.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	14279.0	0.0	14279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	1.1
10°-20°	487.1	3.4
20°-30°	812.9	5.7
30°-40°	1250.7	8.8
40°-50°	2061.2	14.4
50°-60°	2944.0	20.6
60°-70°	3665.5	25.7
70°-80°	2473.6	17.3
80°-90°	425.2	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°	14279.0	100.0
0°-180°	14279.0	100.0

Coefficient of Utilization



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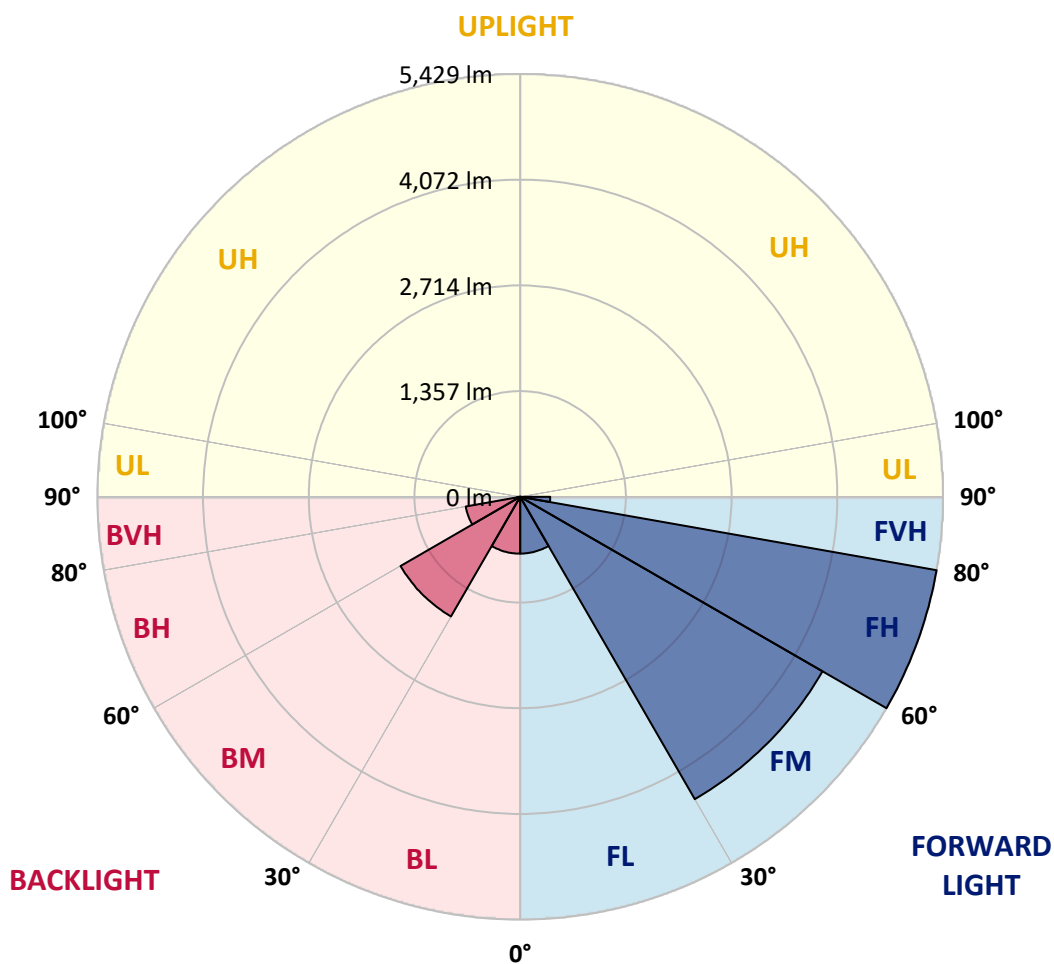
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.7	5.1			
FM	(30°-60°)	4482.3	31.4			
FH	(60°-80°)	5429.0	38.0			G3/7500
FVH	(80°-90°)	386.0	2.7			G3/500
BL	(0°-30°)	730.1	5.1	B2/1000		
BM	(30°-60°)	1773.6	12.4	B2/2500		
BH	(60°-80°)	710.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	39.2	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°	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8
2.5°	1617.8	1633.1	1631.6	1628.5	1630.1	1631.6	1623.9	1619.3	1625.4	1627.0	1634.7
5°	1616.2	1628.5	1627.0	1627.0	1631.6	1630.1	1617.8	1608.5	1619.3	1627.0	1634.7
7.5°	1614.7	1625.4	1625.4	1620.8	1623.9	1623.9	1617.8	1623.9	1623.9	1636.2	1645.5
10°	1613.1	1622.4	1622.4	1623.9	1628.5	1630.1	1630.1	1634.7	1651.6	1656.2	1674.7
12.5°	1594.7	1602.4	1608.5	1617.8	1627.0	1630.1	1637.8	1651.6	1673.2	1683.9	1705.5
15°	1579.3	1590.0	1600.8	1610.1	1623.9	1627.0	1643.9	1667.0	1690.1	1713.2	1745.5
17.5°	1585.4	1599.3	1611.6	1619.3	1630.1	1633.1	1650.1	1680.9	1717.8	1751.7	1796.3
20°	1599.3	1614.7	1627.0	1636.2	1650.1	1653.2	1667.0	1696.3	1744.0	1796.3	1847.1
22.5°	1633.1	1643.9	1657.8	1662.4	1677.8	1680.9	1690.1	1719.3	1780.9	1847.1	1911.7
25°	1663.9	1676.2	1687.0	1691.6	1708.6	1711.6	1728.6	1753.2	1825.6	1901.0	1994.9
27.5°	1703.9	1716.3	1730.1	1734.7	1764.0	1767.1	1774.8	1811.7	1884.0	1971.8	2088.8
30°	1780.9	1788.6	1804.0	1822.5	1851.7	1854.8	1871.7	1910.2	1962.5	2070.3	2225.8
32.5°	1897.9	1908.7	1902.5	1927.1	1970.2	1970.2	2028.7	2093.4	2158.0	2233.5	2439.7
35°	2122.6	2116.5	2110.3	2088.8	2114.9	2124.2	2205.7	2315.0	2495.1	2707.5	2910.7
37.5°	2401.2	2399.7	2367.4	2318.1	2316.6	2319.6	2393.5	2578.2	2864.5	3337.1	3555.7
40°	2829.1	2841.5	2727.6	2626.0	2569.0	2556.7	2615.2	2847.6	3232.4	3862.0	4011.3
42.5°	3257.1	3230.9	3138.5	2973.8	2878.4	2870.7	2881.5	3084.7	3589.5	4286.8	4340.7
45°	3635.7	3655.7	3511.0	3411.0	3235.5	3238.6	3190.9	3377.1	3943.6	4587.0	4596.2
47.5°	4022.1	4037.5	3857.4	3743.5	3575.7	3575.7	3500.3	3648.0	4259.1	4873.3	4854.8
50°	4434.6	4470.0	4243.7	4071.3	3917.4	3911.2	3888.1	3980.5	4570.0	5114.9	5041.0
52.5°	4991.8	4870.2	4656.2	4422.3	4269.9	4251.4	4229.9	4296.0	4927.1	5312.0	5161.1
55°	5567.5	5402.8	5184.2	4870.2	4582.3	4608.5	4554.6	4630.1	5255.0	5547.5	5318.1
57.5°	5916.9	5978.4	5859.9	5590.6	5116.5	5111.8	4908.7	4948.7	5549.0	5746.0	5484.3
60°	6284.8	6371.0	6451.0	6290.9	6066.2	5964.6	5442.8	5287.3	5879.9	5890.7	5465.9
62.5°	6477.2	6460.2	6808.1	6826.6	7000.5	7012.8	6503.3	5726.0	6075.4	6012.3	5530.5
65°	6133.9	6143.1	6715.7	7014.4	7613.1	7648.5	7462.3	6497.2	6240.1	6069.3	5456.6
67.5°	5552.1	5604.4	6033.9	6772.7	8048.7	8042.6	7639.3	7168.3	6283.2	6056.9	5348.9
70°	4540.8	4596.2	5036.4	6109.3	7953.3	7902.5	7563.9	7222.2	6246.3	5946.1	4811.7
72.5°	3483.3	3475.6	3931.2	4879.4	7251.4	7300.7	7177.5	6842.0	6069.3	5472.0	3942.0
75°	2455.1	2416.6	2821.4	3698.8	5980.0	6161.6	6581.8	6489.5	5399.7	4503.8	2635.2
77.5°	1611.6	1670.1	1993.3	2735.2	4702.4	4854.8	5435.1	5251.9	3995.9	2873.8	951.3
80°	1023.6	1075.9	1337.6	1953.3	3418.7	3487.9	3962.0	3340.2	2134.9	948.2	132.4
82.5°	621.9	629.6	862.0	1320.7	2358.1	2358.1	2495.1	1867.1	835.8	123.1	86.2
85°	330.9	349.4	464.9	712.7	1188.3	1277.6	1131.3	712.7	161.6	67.7	52.3
87.5°	104.7	106.2	152.4	275.5	255.5	263.2	87.7	36.9	18.5	12.3	10.8
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°	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8	1640.8
2.5°	1637.8	1639.3	1648.5	1653.2	1654.7	1650.1	1660.9	1676.2	1671.6	1688.6	1682.4
5°	1637.8	1645.5	1657.8	1656.2	1668.5	1674.7	1687.0	1702.4	1697.8	1722.4	1713.2
7.5°	1650.1	1662.4	1671.6	1690.1	1699.3	1696.3	1724.0	1736.3	1730.1	1748.6	1739.4
10°	1680.9	1694.7	1707.0	1727.0	1740.9	1734.7	1750.1	1757.8	1747.0	1765.5	1760.9
12.5°	1716.3	1731.7	1756.3	1770.1	1780.9	1770.1	1770.1	1765.5	1750.1	1767.1	1756.3
15°	1756.3	1776.3	1810.2	1825.6	1822.5	1804.0	1787.1	1754.7	1713.2	1720.9	1705.5
17.5°	1810.2	1834.8	1873.3	1882.5	1870.2	1825.6	1780.9	1722.4	1648.5	1630.1	1617.8
20°	1868.6	1896.4	1950.2	1945.6	1917.9	1839.4	1768.6	1677.8	1562.3	1510.0	1485.4
22.5°	1948.7	1976.4	2027.2	1999.5	1942.5	1839.4	1719.3	1593.1	1456.1	1379.2	1362.2
25°	2036.4	2074.9	2096.5	2034.9	1936.4	1797.8	1653.2	1486.9	1311.4	1228.3	1211.4
27.5°	2144.2	2170.3	2148.8	2039.5	1905.6	1728.6	1545.4	1345.3	1177.5	1106.7	1082.1
30°	2270.4	2273.5	2188.8	2030.3	1836.3	1630.1	1413.0	1202.2	1072.9	1006.7	991.3
32.5°	2438.2	2407.4	2224.2	1987.2	1742.4	1494.6	1265.3	1106.7	999.0	915.9	894.3
35°	2875.3	2735.2	2302.7	1937.9	1628.5	1343.8	1137.5	1020.5	929.7	835.8	818.9
37.5°	3441.8	3193.9	2441.2	1887.1	1499.2	1205.2	1052.8	969.7	892.8	788.1	765.0
40°	3866.6	3580.3	2655.2	1831.7	1380.7	1106.7	1006.7	949.7	865.1	769.6	745.0
42.5°	4191.4	3902.0	2875.3	1770.1	1269.9	1029.8	974.3	935.9	854.3	765.0	745.0
45°	4416.1	4126.7	3064.6	1697.8	1128.3	963.6	949.7	912.8	834.3	748.1	728.1
47.5°	4643.9	4285.3	3170.9	1622.4	1009.7	926.6	914.3	872.8	800.4	718.8	703.4
50°	4842.5	4465.4	3261.7	1545.4	915.9	882.0	874.3	818.9	749.6	672.7	652.6
52.5°	4899.4	4508.5	3224.7	1540.8	831.2	834.3	818.9	774.2	709.6	626.5	606.5
55°	5028.7	4628.5	3135.5	1399.2	749.6	760.4	757.3	734.2	674.2	597.2	581.8
57.5°	5084.1	4537.7	3006.2	1040.5	665.0	674.2	700.4	700.4	648.0	578.8	564.9
60°	5076.4	4540.8	2775.3	728.1	581.8	606.5	643.4	643.4	601.8	534.1	517.2
62.5°	5018.0	4423.8	2392.0	555.7	529.5	564.9	608.0	580.3	543.4	467.9	455.6
65°	4921.0	4102.1	1657.8	487.9	500.3	541.8	563.4	529.5	484.9	417.1	409.4
67.5°	4533.1	3563.4	771.2	446.4	475.6	508.0	526.4	478.7	432.5	371.0	361.7
70°	3858.9	2607.5	332.5	414.1	446.4	469.5	487.9	438.7	389.4	335.6	332.5
72.5°	2806.1	1391.5	277.1	363.3	397.1	421.8	444.8	395.6	347.9	284.8	284.8
75°	1351.5	230.9	238.6	301.7	332.5	381.7	392.5	323.2	269.4	217.0	212.4
77.5°	166.2	149.3	206.3	240.1	266.3	292.5	318.6	280.1	232.4	178.6	169.3
80°	104.7	104.7	163.2	167.8	181.6	209.3	234.0	218.6	183.2	103.1	95.4
82.5°	77.0	83.1	107.7	80.0	95.4	120.1	137.0	155.5	132.4	72.3	67.7
85°	49.3	53.9	50.8	40.0	52.3	80.0	109.3	107.7	89.3	53.9	50.8
87.5°	10.8	10.8	10.8	9.2	10.8	13.9	26.2	50.8	36.9	29.2	27.7
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)