

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: P509489

Luminaire Tested: **VERD-G-CA2-110-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509489
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-CA2-110-722-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13333 lumens
Efficiency: N/A
Efficacy: 117.8 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

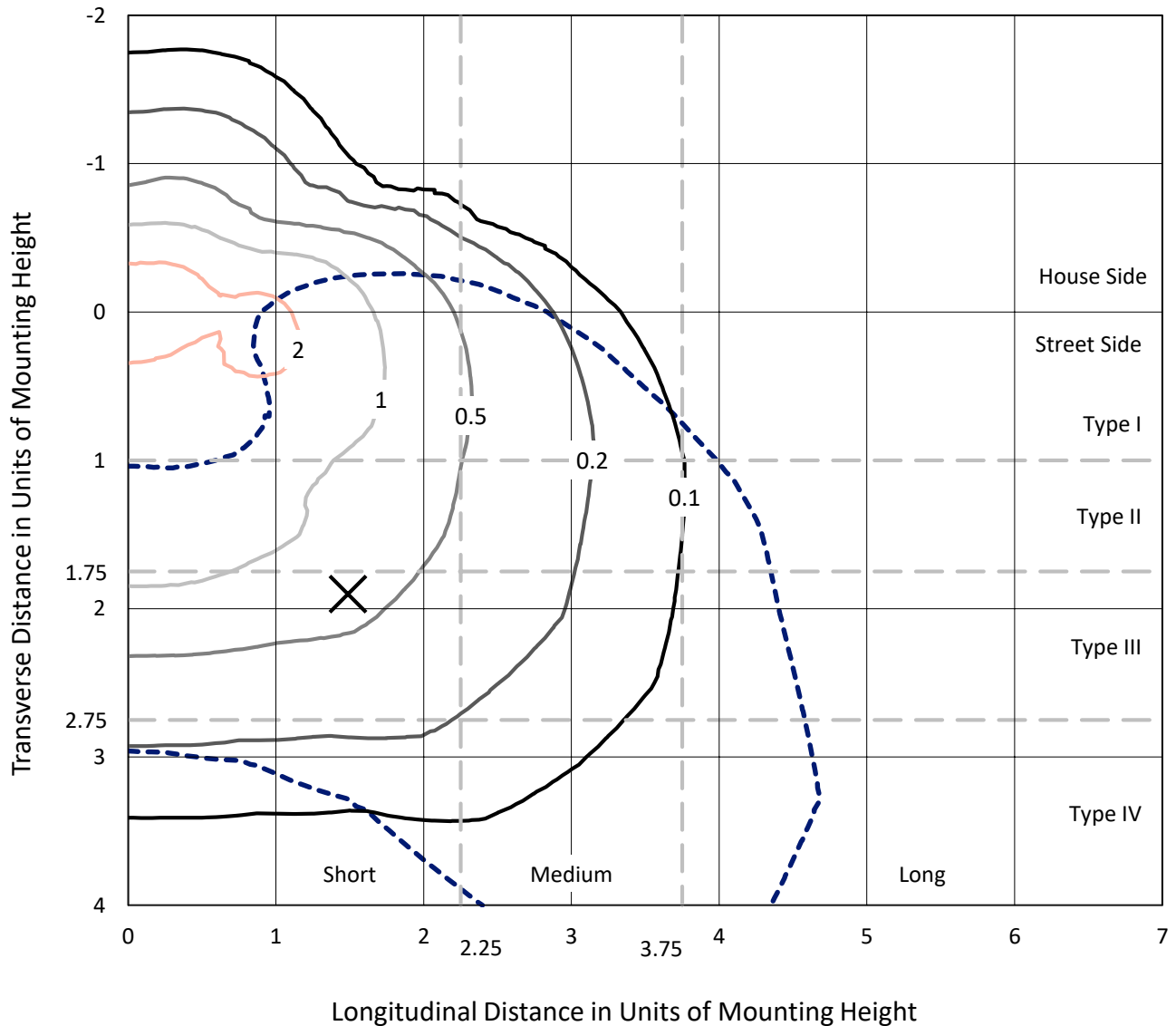
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

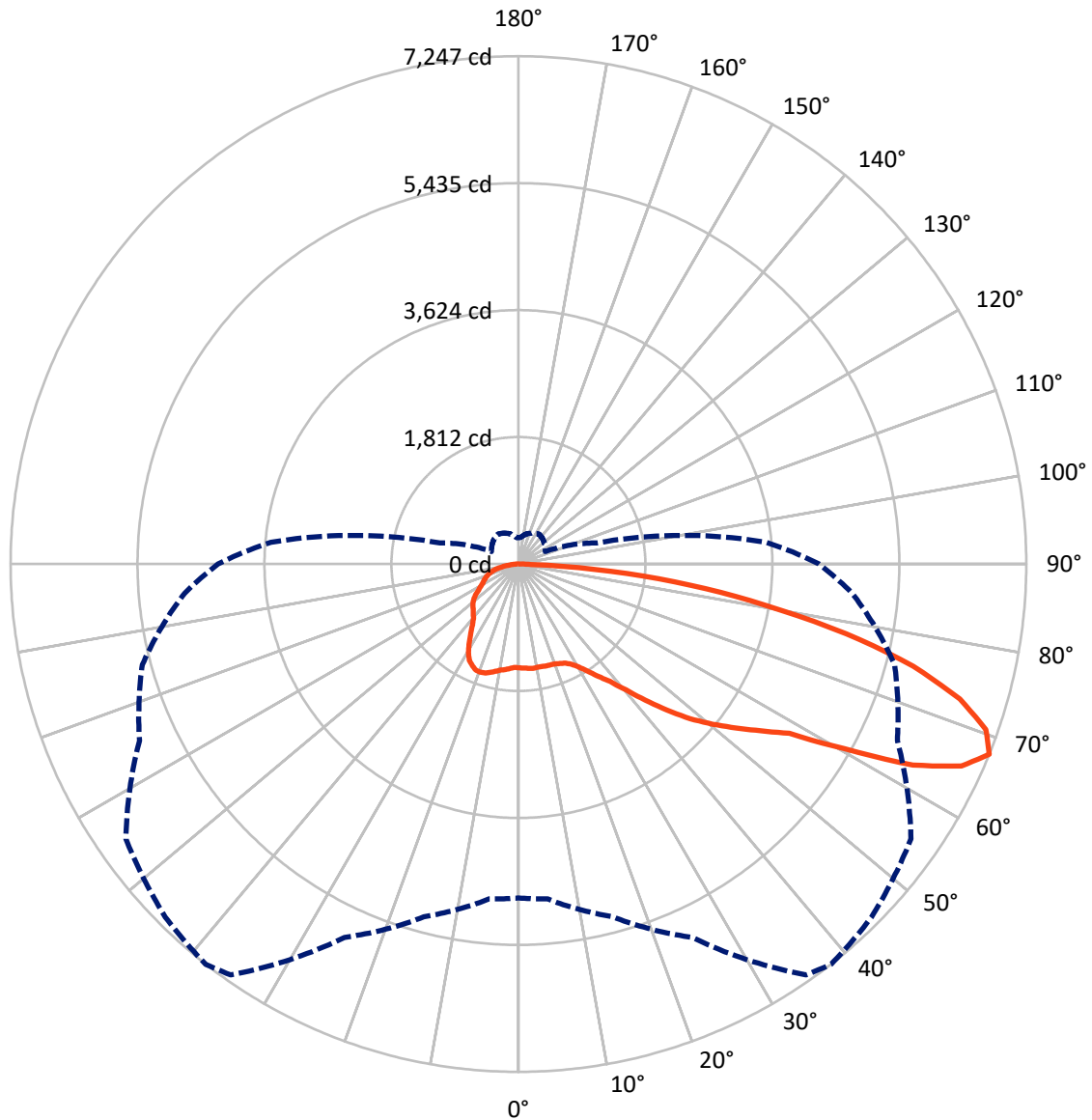
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	3093.6	0.0	3093.6
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	10239.4	0.0	10239.4
	% Fixture	76.8	0.0	76.8
Total	Lumens	13333.0	0.0	13333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.1
10°-20°	443.2	3.3
20°-30°	751.2	5.6
30°-40°	1151.2	8.6
40°-50°	1897.0	14.2
50°-60°	2711.3	20.3
60°-70°	3377.6	25.3
70°-80°	2406.9	18.1
80°-90°	450.9	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°	13333.0	100.0
0°-180°	13333.0	100.0

Coefficient of Utilization



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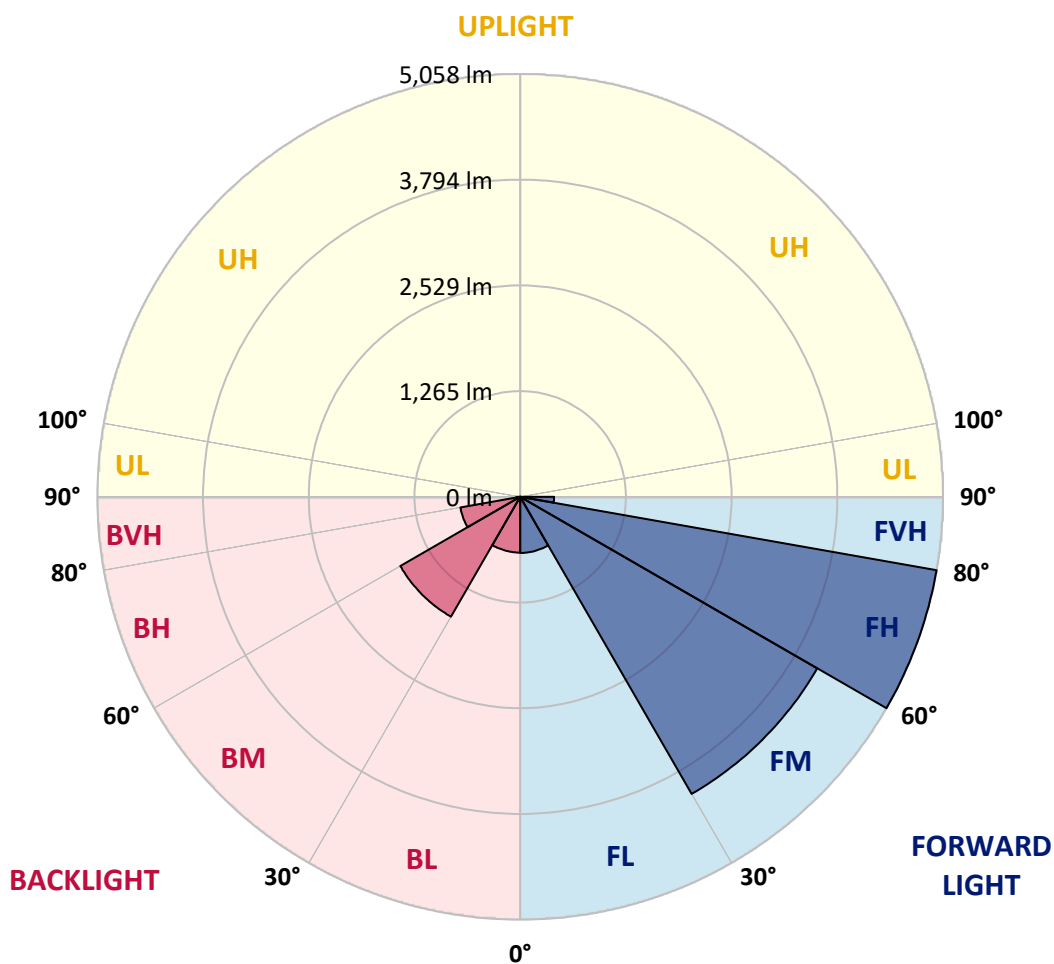
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.1	5.0			
FM (30°-60°)	4103.6	30.8			
FH (60°-80°)	5058.2	37.9			G3/7500
FVH (80°-90°)	406.4	3.0			G3/500
BL (0°-30°)	667.1	5.0	B2/1000		
BM (30°-60°)	1655.9	12.4	B2/2500		
BH (60°-80°)	726.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	44.4	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°	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3
2.5°	1508.8	1515.0	1503.5	1501.7	1494.6	1485.8	1487.5	1480.4	1471.6	1475.1	1476.9
5°	1517.6	1517.6	1508.8	1499.9	1496.4	1494.6	1496.4	1488.4	1486.6	1492.8	1487.5
7.5°	1509.7	1515.0	1499.9	1499.9	1493.7	1504.4	1505.2	1495.5	1502.6	1502.6	1501.7
10°	1507.9	1509.7	1503.5	1491.1	1490.2	1496.4	1508.8	1512.3	1515.9	1515.0	1518.5
12.5°	1487.5	1485.8	1473.3	1476.9	1493.7	1499.9	1521.2	1530.9	1544.2	1547.8	1549.5
15°	1461.8	1468.9	1469.8	1480.4	1498.2	1507.9	1529.2	1548.7	1577.9	1585.0	1584.1
17.5°	1464.5	1467.1	1471.6	1477.8	1505.2	1509.7	1544.2	1565.5	1601.8	1626.6	1639.0
20°	1481.3	1476.0	1484.9	1500.8	1515.9	1519.4	1555.7	1588.5	1638.1	1670.9	1685.1
22.5°	1509.7	1510.6	1515.0	1515.0	1525.6	1541.6	1575.2	1600.9	1662.1	1708.1	1732.9
25°	1536.3	1538.0	1543.3	1541.6	1559.3	1566.4	1598.3	1637.3	1707.2	1761.3	1809.1
27.5°	1576.1	1581.4	1577.9	1578.8	1613.3	1620.4	1634.6	1686.9	1758.6	1831.3	1916.3
30°	1650.5	1650.5	1647.0	1650.5	1687.8	1705.5	1709.9	1761.3	1819.8	1907.5	2035.9
32.5°	1757.7	1758.6	1736.5	1754.2	1795.8	1826.8	1840.1	1921.6	1987.2	2029.7	2195.4
35°	1987.2	1977.5	1954.4	1903.0	1929.6	1967.7	2010.2	2113.9	2258.3	2416.9	2583.5
37.5°	2338.9	2338.0	2256.5	2153.8	2107.7	2127.2	2186.5	2341.6	2567.5	2963.5	3110.6
40°	2729.6	2739.4	2621.6	2493.1	2357.5	2359.3	2374.4	2568.4	2895.3	3467.6	3544.7
42.5°	3119.5	3103.5	2973.3	2850.1	2665.9	2654.3	2614.5	2797.9	3238.2	3870.8	3881.4
45°	3466.8	3458.8	3314.4	3189.5	3015.8	2971.5	2926.3	3043.3	3565.1	4196.8	4126.8
47.5°	3792.8	3803.4	3604.1	3491.6	3319.7	3297.5	3245.3	3319.7	3888.5	4452.8	4326.1
50°	4164.0	4168.4	3930.1	3791.0	3620.9	3592.6	3572.2	3667.0	4222.5	4697.4	4529.0
52.5°	4579.5	4492.7	4260.6	4069.2	3906.2	3884.9	3873.4	3972.6	4588.4	4911.8	4662.8
55°	5102.2	4986.2	4748.7	4431.6	4194.1	4197.7	4157.8	4273.9	4896.7	5059.7	4793.0
57.5°	5330.8	5357.4	5313.1	5024.3	4607.9	4556.5	4458.1	4547.6	5189.9	5233.4	4895.8
60°	5761.4	5864.2	5768.5	5607.2	5484.1	5349.4	4869.2	4902.9	5457.5	5425.6	4907.3
62.5°	5790.6	5826.1	6128.2	6153.9	6273.5	6318.7	5920.9	5306.0	5700.3	5522.2	4946.3
65°	5503.6	5543.4	5907.6	6227.4	6885.7	6947.7	6821.9	6044.0	5896.9	5574.5	4915.3
67.5°	4765.6	4798.4	5212.1	5880.1	7157.7	7247.1	7124.9	6837.8	5966.0	5556.7	4778.9
70°	4076.3	4094.9	4438.7	5373.3	6970.7	7076.2	7027.4	6868.0	5963.4	5452.2	4477.6
72.5°	3201.9	3255.9	3533.2	4456.4	6498.5	6587.1	6601.3	6682.8	5811.9	5108.4	3804.3
75°	2322.1	2351.3	2665.9	3462.3	5609.0	5820.8	6069.7	6377.1	5242.2	4336.8	2812.9
77.5°	1636.4	1664.7	1960.6	2625.1	4539.7	4780.6	5230.7	5411.4	4253.5	3250.6	1480.4
80°	1077.3	1073.8	1355.5	1942.9	3406.5	3575.7	3909.7	3667.9	2468.3	1413.1	161.2
82.5°	632.6	668.0	868.2	1335.1	2380.6	2474.5	2465.6	1931.4	979.9	146.2	82.4
85°	365.0	378.3	512.1	791.2	1312.1	1325.4	1187.2	749.5	242.8	65.6	48.7
87.5°	163.0	156.8	203.8	261.4	239.2	178.1	110.7	31.0	18.6	12.4	8.0
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°	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3
2.5°	1469.8	1465.4	1487.5	1475.1	1485.8	1479.6	1474.2	1481.3	1494.6	1506.1	1499.0
5°	1481.3	1484.0	1501.7	1486.6	1500.8	1498.2	1491.1	1499.0	1520.3	1530.9	1530.1
7.5°	1494.6	1496.4	1515.0	1508.8	1515.0	1509.7	1521.2	1515.9	1534.5	1541.6	1537.1
10°	1510.6	1513.2	1530.1	1530.9	1533.6	1530.1	1535.4	1538.0	1548.7	1562.8	1554.0
12.5°	1545.1	1551.3	1563.7	1577.0	1575.2	1561.1	1565.5	1551.3	1561.1	1565.5	1572.6
15°	1593.0	1608.0	1615.1	1633.7	1616.9	1608.9	1592.1	1563.7	1554.9	1550.4	1543.3
17.5°	1644.3	1658.5	1671.8	1695.7	1668.3	1647.0	1617.8	1564.6	1524.7	1510.6	1504.4
20°	1701.9	1715.2	1739.1	1755.1	1714.3	1668.3	1621.3	1543.3	1464.5	1410.4	1416.6
22.5°	1766.6	1795.8	1811.8	1807.4	1749.8	1686.9	1606.2	1487.5	1386.5	1305.9	1300.6
25°	1856.1	1872.9	1879.1	1838.4	1769.3	1673.6	1555.7	1421.1	1280.2	1189.8	1176.6
27.5°	1950.0	1967.7	1934.9	1858.7	1763.1	1642.6	1499.0	1307.7	1157.1	1070.2	1060.5
30°	2070.5	2066.1	1973.0	1852.5	1727.6	1568.1	1395.4	1191.6	1052.5	971.9	967.5
32.5°	2201.6	2168.8	2004.0	1822.4	1660.3	1470.7	1263.4	1081.8	974.6	893.9	890.4
35°	2511.7	2361.1	2049.2	1784.3	1561.1	1336.0	1141.1	999.4	912.5	821.3	803.6
37.5°	2967.1	2724.3	2142.2	1745.3	1447.7	1203.1	1039.2	938.2	855.8	758.4	741.5
40°	3391.5	3093.8	2305.3	1716.1	1345.8	1095.9	969.2	895.7	816.0	718.5	697.2
42.5°	3692.7	3380.8	2501.1	1668.3	1243.9	1010.9	940.0	879.8	805.3	715.0	698.1
45°	3935.4	3628.9	2695.1	1614.2	1124.3	938.2	909.9	866.5	792.0	704.3	684.8
47.5°	4106.4	3784.8	2829.8	1553.1	1010.0	893.9	884.2	845.2	771.7	689.3	676.9
50°	4282.7	3959.4	2921.9	1490.2	907.2	860.3	848.7	797.4	730.0	656.5	643.2
52.5°	4397.9	4044.4	2975.1	1477.8	819.5	814.2	800.0	751.3	687.5	607.8	591.8
55°	4485.6	4119.7	2967.1	1405.1	740.7	754.0	745.1	708.8	653.0	575.0	564.4
57.5°	4506.9	4131.2	2894.4	1180.1	666.2	673.3	677.8	684.8	630.8	566.1	548.4
60°	4568.0	4077.2	2766.0	848.7	578.5	596.3	631.7	637.9	600.7	527.1	516.5
62.5°	4529.0	4040.9	2486.9	598.0	516.5	552.8	586.5	586.5	535.1	466.9	459.8
65°	4460.8	3897.3	1945.6	471.3	483.7	520.9	552.0	530.7	486.4	422.6	418.2
67.5°	4287.2	3547.4	1161.5	424.4	460.7	496.1	518.3	486.4	444.8	381.8	374.8
70°	3788.4	2827.1	442.1	402.2	437.7	462.5	476.6	443.9	403.1	340.2	334.0
72.5°	3007.8	1768.4	280.8	374.8	408.4	430.6	439.4	401.3	336.7	264.9	257.8
75°	1810.0	505.0	243.6	324.3	359.7	397.8	382.7	333.1	284.4	222.4	217.9
77.5°	458.0	153.3	217.1	261.4	292.4	337.6	336.7	300.3	248.1	181.6	174.5
80°	109.9	107.2	176.3	193.1	220.6	258.7	255.2	249.8	196.7	125.8	103.7
82.5°	70.0	74.4	119.6	108.1	125.8	150.6	171.0	161.2	147.1	77.1	69.1
85°	47.0	59.4	58.5	40.8	56.7	85.1	110.7	101.0	83.3	47.8	42.5
87.5°	7.1	8.0	10.6	15.9	24.8	41.6	54.9	54.0	40.8	30.1	28.4
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)