

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: P509449

Luminaire Tested: **VERD-G-CA2-100-727-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509449  
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-CA2-100-727-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 930mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12743 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

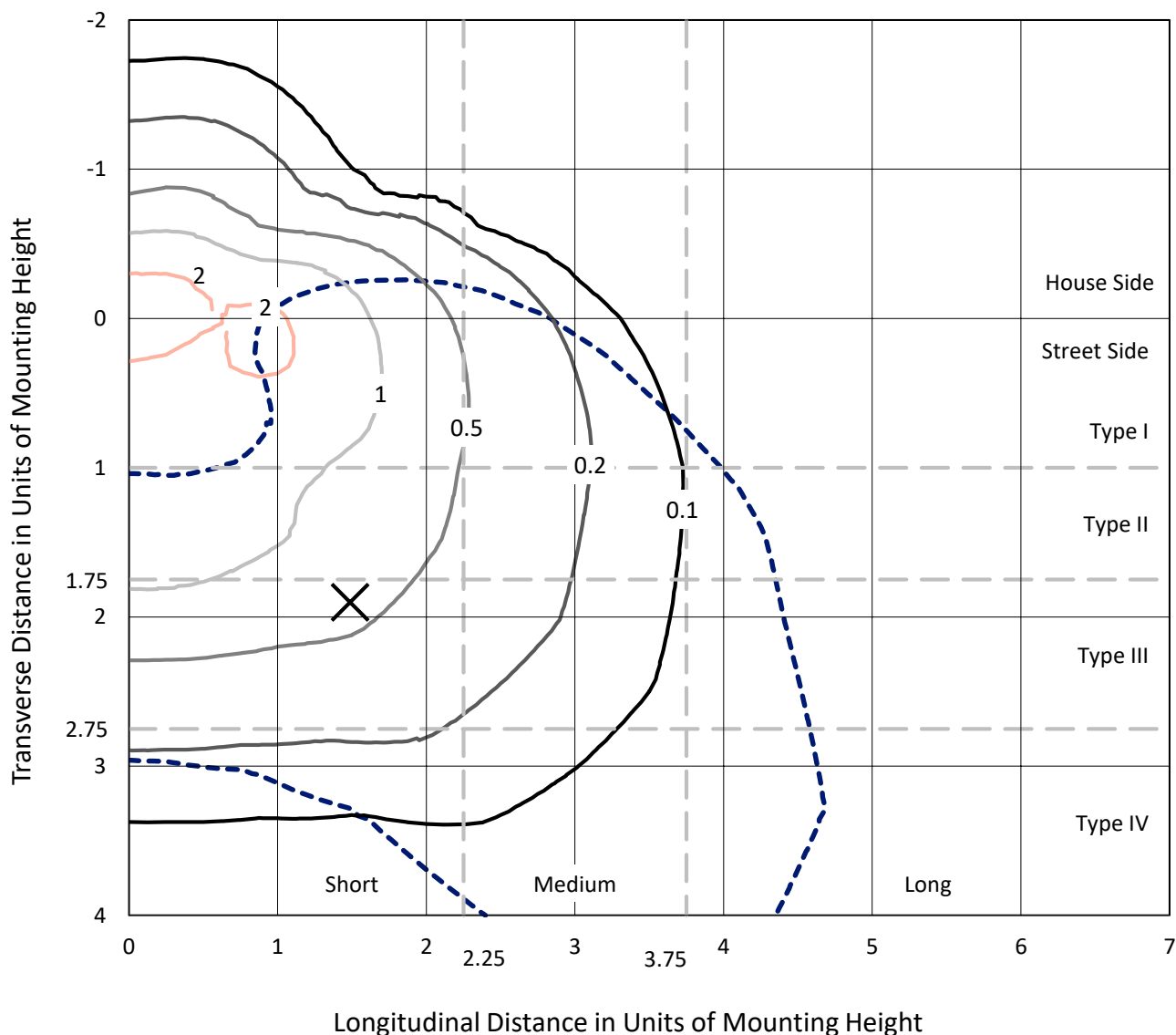
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

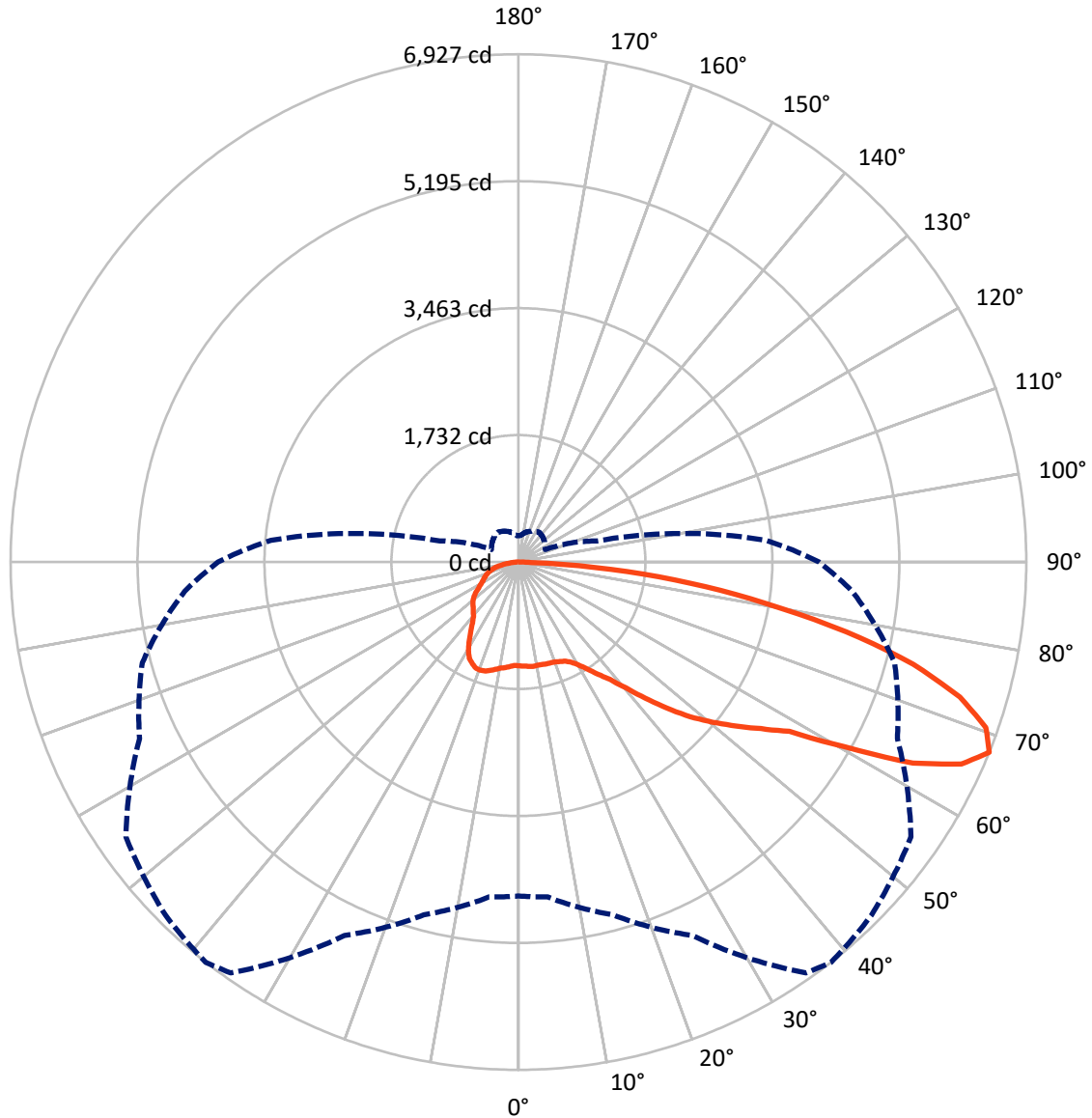
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
<b>House Side</b>	Lumens	2956.8	0.0	2956.8
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	9786.3	0.0	9786.3
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	12743.0	0.0	12743.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.4	1.1
10°-20°	423.6	3.3
20°-30°	718.0	5.6
30°-40°	1100.3	8.6
40°-50°	1813.0	14.2
50°-60°	2591.3	20.3
60°-70°	3228.1	25.3
70°-80°	2300.4	18.1
80°-90°	430.9	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°	12743.0	100.0
0°-180°	12743.0	100.0

**Coefficient of Utilization**



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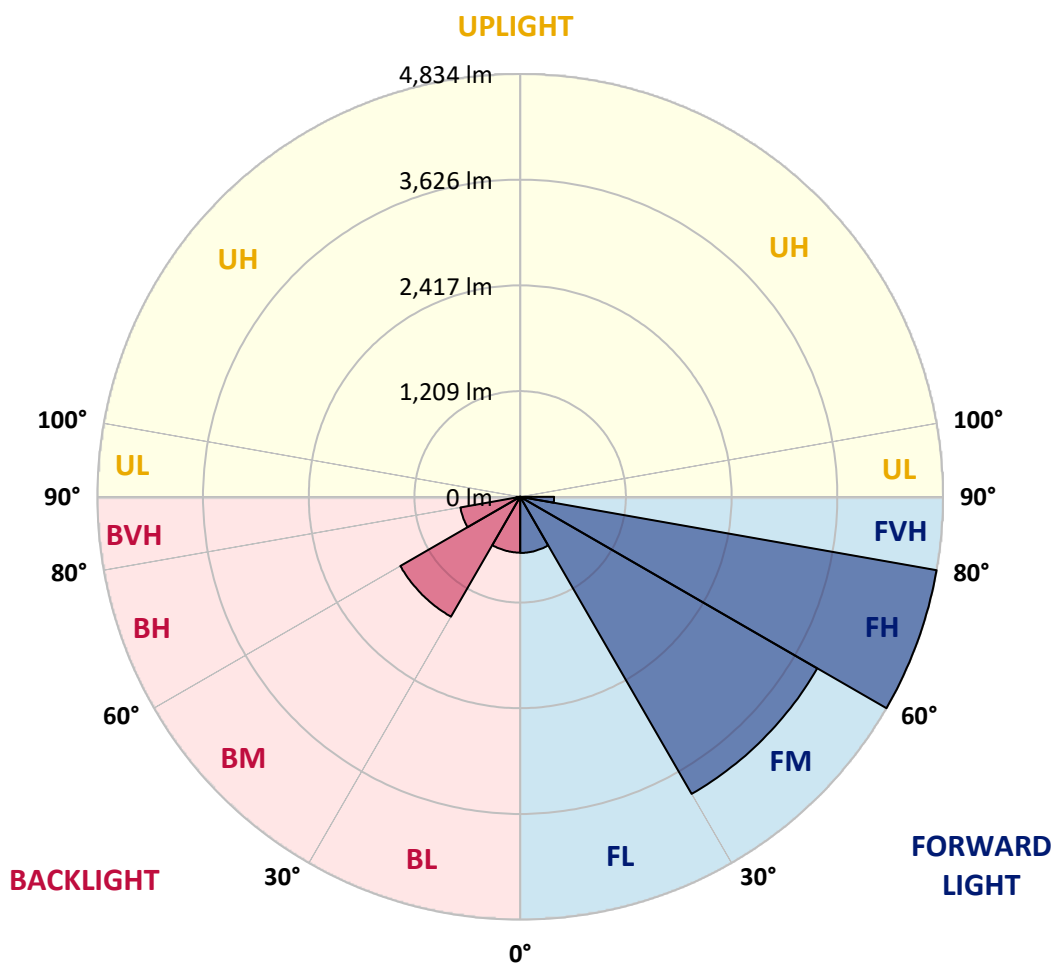
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.4	5.0			
FM (30°-60°)	3922.0	30.8			
FH (60°-80°)	4834.4	37.9			G2/5000
FVH (80°-90°)	388.5	3.0			G3/500
BL (0°-30°)	637.6	5.0	B2/1000		
BM (30°-60°)	1582.6	12.4	B2/2500		
BH (60°-80°)	694.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	42.5	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°	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8
2.5°	1442.0	1447.9	1436.9	1435.2	1428.5	1420.0	1421.7	1414.9	1406.5	1409.8	1411.5
5°	1450.5	1450.5	1442.0	1433.6	1430.2	1428.5	1430.2	1422.5	1420.9	1426.8	1421.7
7.5°	1442.9	1447.9	1433.6	1433.6	1427.6	1437.8	1438.6	1429.3	1436.1	1436.1	1435.2
10°	1441.2	1442.9	1436.9	1425.1	1424.2	1430.2	1442.0	1445.4	1448.8	1447.9	1451.3
12.5°	1421.7	1420.0	1408.2	1411.5	1427.6	1433.6	1453.9	1463.2	1475.9	1479.3	1481.0
15°	1397.1	1403.9	1404.8	1414.9	1431.9	1441.2	1461.5	1480.1	1508.1	1514.8	1514.0
17.5°	1399.7	1402.2	1406.5	1412.4	1438.6	1442.9	1475.9	1496.2	1530.9	1554.6	1566.5
20°	1415.8	1410.7	1419.2	1434.4	1448.8	1452.2	1486.9	1518.2	1565.6	1597.0	1610.5
22.5°	1442.9	1443.7	1447.9	1447.9	1458.1	1473.4	1505.5	1530.1	1588.5	1632.5	1656.3
25°	1468.3	1470.0	1475.0	1473.4	1490.3	1497.1	1527.5	1564.8	1631.7	1683.3	1729.1
27.5°	1506.4	1511.5	1508.1	1508.9	1541.9	1548.7	1562.3	1612.2	1680.8	1750.2	1831.5
30°	1577.5	1577.5	1574.1	1577.5	1613.1	1630.0	1634.2	1683.3	1739.2	1823.1	1945.8
32.5°	1680.0	1680.8	1659.6	1676.6	1716.4	1746.0	1758.7	1836.6	1899.3	1939.9	2098.3
35°	1899.3	1890.0	1867.9	1818.8	1844.2	1880.6	1921.3	2020.4	2158.4	2309.9	2469.1
37.5°	2235.4	2234.6	2156.7	2058.5	2014.4	2033.1	2089.8	2238.0	2453.9	2832.4	2973.0
40°	2608.8	2618.2	2505.5	2382.8	2253.2	2254.9	2269.3	2454.7	2767.2	3314.2	3387.9
42.5°	2981.4	2966.2	2841.7	2724.0	2547.9	2536.9	2498.8	2674.1	3094.9	3699.5	3709.6
45°	3313.3	3305.7	3167.7	3048.3	2882.4	2840.0	2796.8	2908.6	3407.3	4011.1	3944.2
47.5°	3625.0	3635.1	3444.6	3337.1	3172.8	3151.6	3101.7	3172.8	3716.4	4255.8	4134.7
50°	3979.7	3984.0	3756.2	3623.3	3460.7	3433.6	3414.1	3504.7	4035.6	4489.5	4328.6
52.5°	4376.9	4293.9	4072.0	3889.1	3733.3	3713.0	3702.0	3796.8	4385.3	4694.4	4456.5
55°	4876.5	4765.5	4538.6	4235.5	4008.5	4011.9	3973.8	4084.7	4680.0	4835.8	4580.9
57.5°	5094.9	5120.3	5078.0	4801.9	4404.0	4354.9	4260.9	4346.4	4960.3	5001.8	4679.2
60°	5506.4	5604.7	5513.2	5359.1	5241.4	5112.7	4653.8	4685.9	5216.0	5185.5	4690.2
62.5°	5534.4	5568.3	5857.0	5881.6	5995.9	6039.1	5658.9	5071.2	5448.0	5277.8	4727.4
65°	5260.0	5298.1	5646.2	5951.8	6581.0	6640.2	6520.0	5776.6	5636.0	5327.8	4697.8
67.5°	4554.7	4586.0	4981.5	5619.9	6840.9	6926.5	6809.6	6535.2	5702.0	5310.8	4567.4
70°	3895.9	3913.7	4242.2	5135.6	6662.3	6763.0	6716.5	6564.0	5699.5	5210.9	4279.5
72.5°	3060.2	3111.8	3376.9	4259.2	6210.9	6295.6	6309.2	6387.1	5554.7	4882.4	3636.0
75°	2219.3	2247.3	2547.9	3309.1	5360.8	5563.2	5801.1	6094.9	5010.2	4144.9	2688.4
77.5°	1564.0	1591.1	1873.9	2508.9	4338.8	4569.1	4999.2	5172.0	4065.3	3106.7	1414.9
80°	1029.7	1026.3	1295.5	1856.9	3255.8	3417.5	3736.7	3505.6	2359.1	1350.6	154.1
82.5°	604.6	638.5	829.8	1276.1	2275.2	2365.0	2356.5	1845.9	936.5	139.7	78.7
85°	348.9	361.6	489.4	756.2	1254.0	1266.7	1134.7	716.4	232.0	62.7	46.6
87.5°	155.8	149.9	194.8	249.8	228.6	170.2	105.8	29.6	17.8	11.9	7.6
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°	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8
2.5°	1404.8	1400.5	1421.7	1409.8	1420.0	1414.1	1409.0	1415.8	1428.5	1439.5	1432.7
5°	1415.8	1418.3	1435.2	1420.9	1434.4	1431.9	1425.1	1432.7	1453.0	1463.2	1462.3
7.5°	1428.5	1430.2	1447.9	1442.0	1447.9	1442.9	1453.9	1448.8	1466.6	1473.4	1469.1
10°	1443.7	1446.3	1462.3	1463.2	1465.7	1462.3	1467.4	1470.0	1480.1	1493.7	1485.2
12.5°	1476.7	1482.7	1494.5	1507.2	1505.5	1492.0	1496.2	1482.7	1492.0	1496.2	1503.0
15°	1522.5	1536.9	1543.6	1561.4	1545.3	1537.7	1521.6	1494.5	1486.1	1481.8	1475.0
17.5°	1571.6	1585.1	1597.8	1620.7	1594.4	1574.1	1546.2	1495.4	1457.3	1443.7	1437.8
20°	1626.6	1639.3	1662.2	1677.4	1638.5	1594.4	1549.6	1475.0	1399.7	1348.0	1354.0
22.5°	1688.4	1716.4	1731.6	1727.4	1672.3	1612.2	1535.2	1421.7	1325.2	1248.1	1243.0
25°	1774.0	1790.0	1796.0	1757.0	1691.0	1599.5	1486.9	1358.2	1223.6	1137.2	1124.5
27.5°	1863.7	1880.6	1849.3	1776.5	1685.0	1569.9	1432.7	1249.8	1105.9	1022.9	1013.6
30°	1978.9	1974.6	1885.7	1770.6	1651.2	1498.8	1333.6	1138.9	1005.9	928.9	924.7
32.5°	2104.2	2072.9	1915.4	1741.8	1586.8	1405.6	1207.5	1033.9	931.4	854.4	851.0
35°	2400.5	2256.6	1958.5	1705.4	1492.0	1276.9	1090.6	955.1	872.2	784.9	768.0
37.5°	2835.8	2603.8	2047.5	1668.1	1383.6	1149.9	993.2	896.7	818.0	724.8	708.7
40°	3241.4	2956.9	2203.3	1640.2	1286.2	1047.4	926.3	856.1	779.9	686.7	666.4
42.5°	3529.3	3231.2	2390.4	1594.4	1188.8	966.1	898.4	840.8	769.7	683.3	667.2
45°	3761.3	3468.3	2575.8	1542.8	1074.5	896.7	869.6	828.1	757.0	673.2	654.5
47.5°	3924.7	3617.3	2704.5	1484.4	965.3	854.4	845.1	807.8	737.5	658.8	646.9
50°	4093.2	3784.1	2792.6	1424.2	867.1	822.2	811.2	762.1	697.7	627.4	614.7
52.5°	4203.3	3865.4	2843.4	1412.4	783.2	778.2	764.6	718.0	657.1	580.9	565.6
55°	4287.1	3937.4	2835.8	1343.0	707.9	720.6	712.1	677.4	624.1	549.5	539.4
57.5°	4307.4	3948.4	2766.3	1127.9	636.8	643.5	647.8	654.5	602.9	541.1	524.1
60°	4365.9	3896.8	2643.6	811.2	552.9	569.9	603.7	609.7	574.1	503.8	493.7
62.5°	4328.6	3862.0	2376.8	571.6	493.7	528.4	560.6	560.6	511.4	446.2	439.5
65°	4263.4	3724.9	1859.5	450.5	462.3	497.9	527.5	507.2	464.9	403.9	399.7
67.5°	4097.4	3390.4	1110.1	405.6	440.3	474.2	495.4	464.9	425.1	365.0	358.2
70°	3620.7	2702.0	422.5	384.4	418.3	442.0	455.6	424.2	385.3	325.2	319.2
72.5°	2874.7	1690.1	268.4	358.2	390.4	411.5	420.0	383.6	321.8	253.2	246.4
75°	1729.9	482.6	232.9	309.9	343.8	380.2	365.8	318.4	271.8	212.5	208.3
77.5°	437.8	146.5	207.5	249.8	279.4	322.6	321.8	287.0	237.1	173.6	166.8
80°	105.0	102.5	168.5	184.6	210.8	247.3	243.9	238.8	188.0	120.2	99.1
82.5°	66.9	71.1	114.3	103.3	120.2	143.9	163.4	154.1	140.6	73.7	66.0
85°	44.9	56.7	55.9	39.0	54.2	81.3	105.8	96.5	79.6	45.7	40.6
87.5°	6.8	7.6	10.2	15.2	23.7	39.8	52.5	51.7	39.0	28.8	27.1
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)