

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: P509497

Luminaire Tested: **VERD-G-CA2-110-727-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509497
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-CA2-110-727-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13853 lumens
Efficiency: N/A
Efficacy: 122.4 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

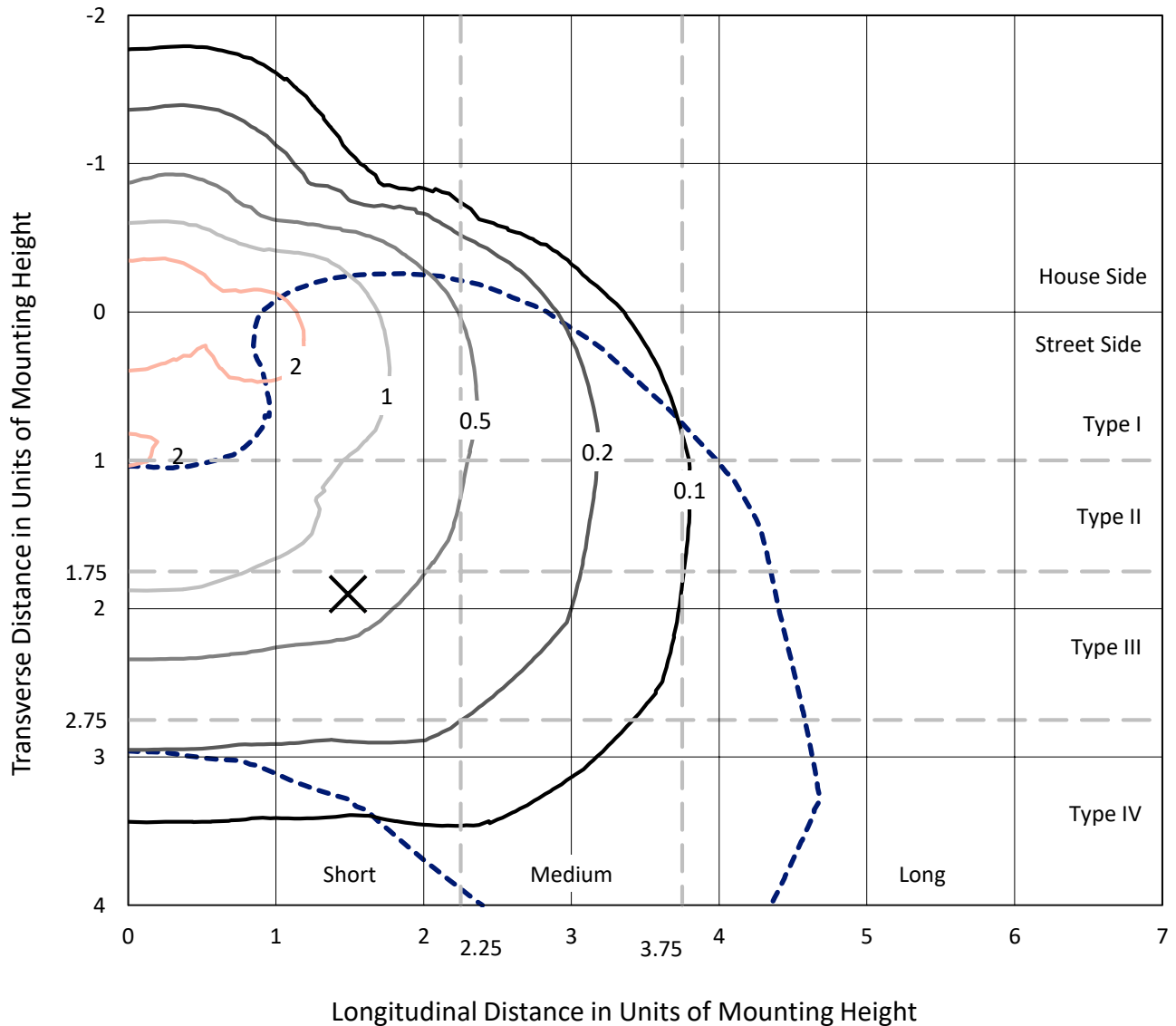
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509497
 CATALOG NUMBER: VERD-G-CA2-110-727-U-T4

Iso-Footcandle Lines of Horizontal Illumination

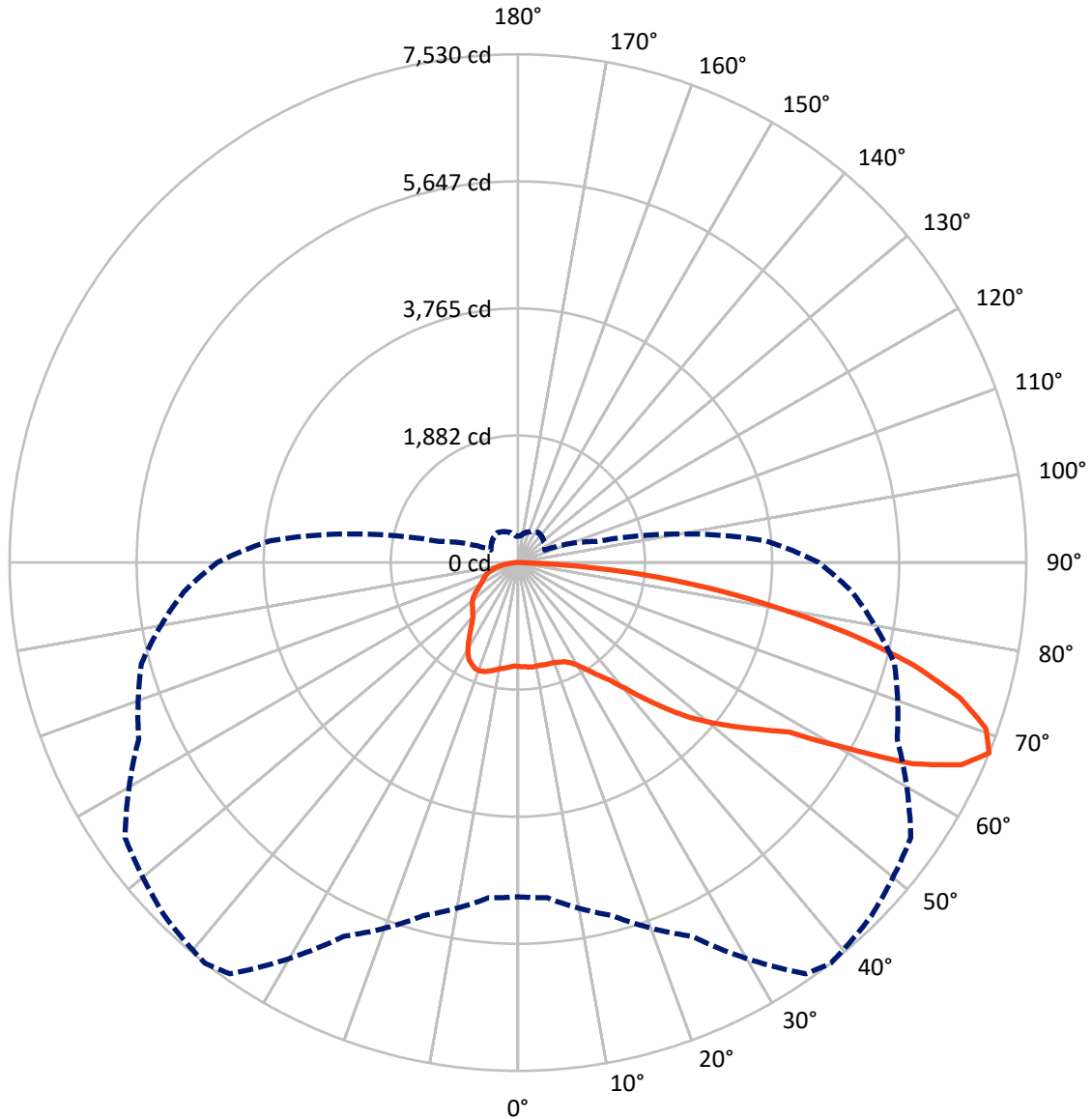
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P509497
CATALOG NUMBER: VERD-G-CA2-110-727-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509497

CATALOG NUMBER: VERD-G-CA2-110-727-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3214.3	0.0	3214.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	10638.7	0.0	10638.7
	% Fixture	76.8	0.0	76.8
Total	Lumens	13853.0	0.0	13853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.1
10°-20°	460.5	3.3
20°-30°	780.5	5.6
30°-40°	1196.2	8.6
40°-50°	1970.9	14.2
50°-60°	2817.0	20.3
60°-70°	3509.3	25.3
70°-80°	2500.8	18.1
80°-90°	468.5	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°	13853.0	100.0
0°-180°	13853.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509497

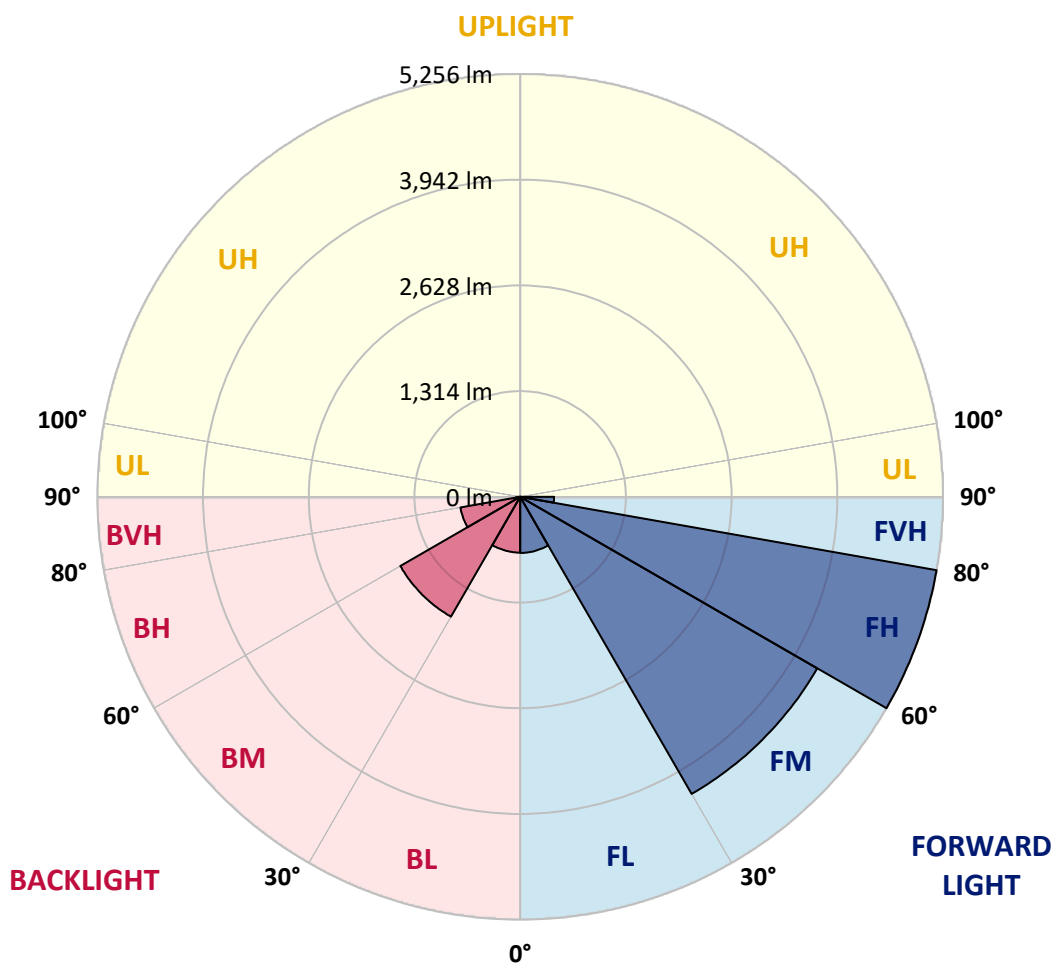
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.3	5.0			
FM (30°-60°)	4263.6	30.8			
FH (60°-80°)	5255.5	37.9			G3/7500
FVH (80°-90°)	422.3	3.0			G3/500
BL (0°-30°)	693.1	5.0	B2/1000		
BM (30°-60°)	1720.5	12.4	B2/2500		
BH (60°-80°)	754.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	46.2	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





REPORT NUMBER: P509497

CATALOG NUMBER: VERD-G-CA2-110-727-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1
2.5°	1567.6	1574.1	1562.1	1560.3	1552.9	1543.7	1545.5	1538.2	1529.0	1532.7	1534.5
5°	1576.8	1576.8	1567.6	1558.4	1554.7	1552.9	1554.7	1546.5	1544.6	1551.1	1545.5
7.5°	1568.6	1574.1	1558.4	1558.4	1552.0	1563.0	1564.0	1553.8	1561.2	1561.2	1560.3
10°	1566.7	1568.6	1562.1	1549.2	1548.3	1554.7	1567.6	1571.3	1575.0	1574.1	1577.8
12.5°	1545.5	1543.7	1530.8	1534.5	1552.0	1558.4	1580.5	1590.6	1604.5	1608.1	1610.0
15°	1518.8	1526.2	1527.1	1538.2	1556.6	1566.7	1588.8	1609.1	1639.4	1646.8	1645.9
17.5°	1521.6	1524.4	1529.0	1535.4	1564.0	1568.6	1604.5	1626.5	1664.3	1690.1	1702.9
20°	1539.1	1533.6	1542.8	1559.3	1575.0	1578.7	1616.4	1650.5	1702.0	1736.1	1750.8
22.5°	1568.6	1569.5	1574.1	1574.1	1585.1	1601.7	1636.7	1663.4	1726.9	1774.7	1800.5
25°	1596.2	1598.0	1603.5	1601.7	1620.1	1627.5	1660.6	1701.1	1773.8	1830.0	1879.7
27.5°	1637.6	1643.1	1639.4	1640.4	1676.3	1683.6	1698.3	1752.7	1827.2	1902.7	1991.1
30°	1714.9	1714.9	1711.2	1714.9	1753.6	1772.0	1776.6	1830.0	1890.7	1981.9	2115.3
32.5°	1826.3	1827.2	1804.2	1822.6	1865.9	1898.1	1911.9	1996.6	2064.7	2108.9	2281.0
35°	2064.7	2054.6	2030.6	1977.3	2004.9	2044.5	2088.6	2196.3	2346.4	2511.2	2684.2
37.5°	2430.2	2429.2	2344.5	2237.8	2189.9	2210.1	2271.8	2432.9	2667.6	3079.1	3231.9
40°	2836.1	2846.2	2723.8	2590.3	2449.5	2451.3	2467.0	2668.6	3008.2	3602.9	3683.0
42.5°	3241.1	3224.6	3089.2	2961.3	2769.8	2757.9	2716.4	2907.0	3364.5	4021.7	4032.8
45°	3602.0	3593.7	3443.6	3313.8	3133.4	3087.4	3040.5	3162.0	3704.1	4360.5	4287.7
47.5°	3940.7	3951.8	3744.6	3627.7	3449.2	3426.1	3371.8	3449.2	4040.1	4626.5	4494.9
50°	4326.4	4331.0	4083.4	3938.9	3762.1	3732.7	3711.5	3810.0	4387.2	4880.6	4705.7
52.5°	4758.1	4667.9	4426.7	4227.9	4058.5	4036.4	4024.5	4127.6	4767.3	5103.3	4844.7
55°	5301.2	5180.6	4933.9	4604.4	4357.7	4361.4	4320.0	4440.6	5087.7	5257.0	4980.0
57.5°	5538.7	5566.3	5520.3	5220.2	4787.6	4734.2	4632.0	4725.0	5392.4	5437.5	5086.8
60°	5986.1	6092.9	5993.5	5825.9	5698.0	5558.1	5059.1	5094.1	5670.4	5637.2	5098.7
62.5°	6016.5	6053.3	6367.2	6393.9	6518.1	6565.1	6151.8	5512.9	5922.6	5737.6	5139.2
65°	5718.2	5759.6	6138.0	6470.3	7154.2	7218.7	7087.9	6279.7	6126.9	5791.9	5107.0
67.5°	4951.4	4985.5	5415.4	6109.4	7436.8	7529.8	7402.8	7104.5	6198.7	5773.5	4965.2
70°	4235.3	4254.6	4611.8	5582.9	7242.6	7352.1	7301.5	7135.8	6196.0	5664.8	4652.3
72.5°	3326.7	3382.9	3671.0	4630.2	6752.0	6844.0	6858.7	6943.4	6038.6	5307.7	3952.7
75°	2412.7	2443.0	2769.8	3597.4	5827.8	6047.8	6306.4	6625.8	5446.7	4505.9	2922.6
77.5°	1700.2	1729.6	2037.1	2727.5	4716.7	4967.1	5434.7	5622.5	4419.4	3377.4	1538.2
80°	1119.3	1115.7	1408.4	2018.7	3539.4	3715.2	4062.2	3810.9	2564.5	1468.2	167.5
82.5°	657.2	694.1	902.1	1387.2	2473.4	2571.0	2561.8	2006.7	1018.1	151.9	85.6
85°	379.3	393.1	532.1	822.0	1363.3	1377.1	1233.5	778.8	252.2	68.1	50.6
87.5°	169.4	162.9	211.7	271.6	248.5	185.0	115.1	32.2	19.3	12.9	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509497

CATALOG NUMBER: VERD-G-CA2-110-727-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1
2.5°	1527.1	1522.5	1545.5	1532.7	1543.7	1537.3	1531.7	1539.1	1552.9	1564.9	1557.5
5°	1539.1	1541.9	1560.3	1544.6	1559.3	1556.6	1549.2	1557.5	1579.6	1590.6	1589.7
7.5°	1552.9	1554.7	1574.1	1567.6	1574.1	1568.6	1580.5	1575.0	1594.3	1601.7	1597.1
10°	1569.5	1572.2	1589.7	1590.6	1593.4	1589.7	1595.2	1598.0	1609.1	1623.8	1614.6
12.5°	1605.4	1611.8	1624.7	1638.5	1636.7	1621.9	1626.5	1611.8	1621.9	1626.5	1633.9
15°	1655.1	1670.7	1678.1	1697.4	1679.9	1671.7	1654.2	1624.7	1615.5	1610.9	1603.5
17.5°	1708.5	1723.2	1737.0	1761.9	1733.3	1711.2	1680.9	1625.6	1584.2	1569.5	1563.0
20°	1768.3	1782.1	1807.0	1823.5	1781.2	1733.3	1684.5	1603.5	1521.6	1465.5	1471.9
22.5°	1835.5	1865.9	1882.4	1877.8	1818.0	1752.7	1668.9	1545.5	1440.6	1356.8	1351.3
25°	1928.5	1946.0	1952.4	1910.1	1838.3	1738.8	1616.4	1476.5	1330.1	1236.2	1222.4
27.5°	2026.0	2044.5	2010.4	1931.2	1831.8	1706.6	1557.5	1358.7	1202.2	1112.0	1101.9
30°	2151.2	2146.6	2050.0	1924.8	1795.0	1629.3	1449.8	1238.1	1093.6	1009.8	1005.2
32.5°	2287.5	2253.4	2082.2	1893.5	1725.0	1528.1	1312.7	1123.9	1012.6	928.8	925.1
35°	2609.7	2453.2	2129.1	1853.9	1621.9	1388.1	1185.6	1038.3	948.1	853.3	834.9
37.5°	3082.8	2830.6	2225.8	1813.4	1504.1	1250.1	1079.8	974.8	889.2	788.0	770.5
40°	3523.7	3214.4	2395.2	1783.0	1398.3	1138.7	1007.0	930.6	847.8	746.5	724.4
42.5°	3836.7	3512.7	2598.6	1733.3	1292.4	1050.3	976.7	914.1	836.7	742.9	725.4
45°	4088.9	3770.4	2800.2	1677.2	1168.1	974.8	945.4	900.3	822.9	731.8	711.6
47.5°	4266.6	3932.4	2940.1	1613.7	1049.4	928.8	918.7	878.2	801.8	716.2	703.3
50°	4449.8	4113.8	3035.8	1548.3	942.6	893.8	881.9	828.5	758.5	682.1	668.3
52.5°	4569.4	4202.1	3091.1	1535.4	851.5	846.0	831.2	780.6	714.3	631.5	614.9
55°	4660.6	4280.4	3082.8	1459.9	769.5	783.4	774.2	736.4	678.4	597.4	586.4
57.5°	4682.6	4292.3	3007.3	1226.1	692.2	699.6	704.2	711.6	655.4	588.2	569.8
60°	4746.2	4236.2	2873.8	881.9	601.1	619.5	656.3	662.8	624.1	547.7	536.7
62.5°	4705.7	4198.5	2583.9	621.3	536.7	574.4	609.4	609.4	556.0	485.1	477.7
65°	4634.8	4049.3	2021.4	489.7	502.6	541.3	573.5	551.4	505.4	439.1	434.5
67.5°	4454.4	3685.7	1206.8	440.9	478.7	515.5	538.5	505.4	462.1	396.7	389.4
70°	3936.1	2937.4	459.3	417.9	454.7	480.5	495.2	461.2	418.8	353.5	347.0
72.5°	3125.1	1837.3	291.8	389.4	424.4	447.4	456.6	417.0	349.8	275.2	267.9
75°	1880.6	524.7	253.1	336.9	373.7	413.3	397.7	346.1	295.5	231.0	226.4
77.5°	475.9	159.2	225.5	271.6	303.8	350.7	349.8	312.1	257.7	188.7	181.3
80°	114.1	111.4	183.2	200.7	229.2	268.8	265.1	259.6	204.4	130.7	107.7
82.5°	72.7	77.3	124.3	112.3	130.7	156.5	177.7	167.5	152.8	80.1	71.8
85°	48.8	61.7	60.8	42.3	58.9	88.4	115.1	104.9	86.5	49.7	44.2
87.5°	7.4	8.3	11.0	16.6	25.8	43.3	57.1	56.2	42.3	31.3	29.5
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)