

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: P509473

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509473
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-CA2-100-750-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 930mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15325 lumens
Efficiency: N/A
Efficacy: 149.4 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

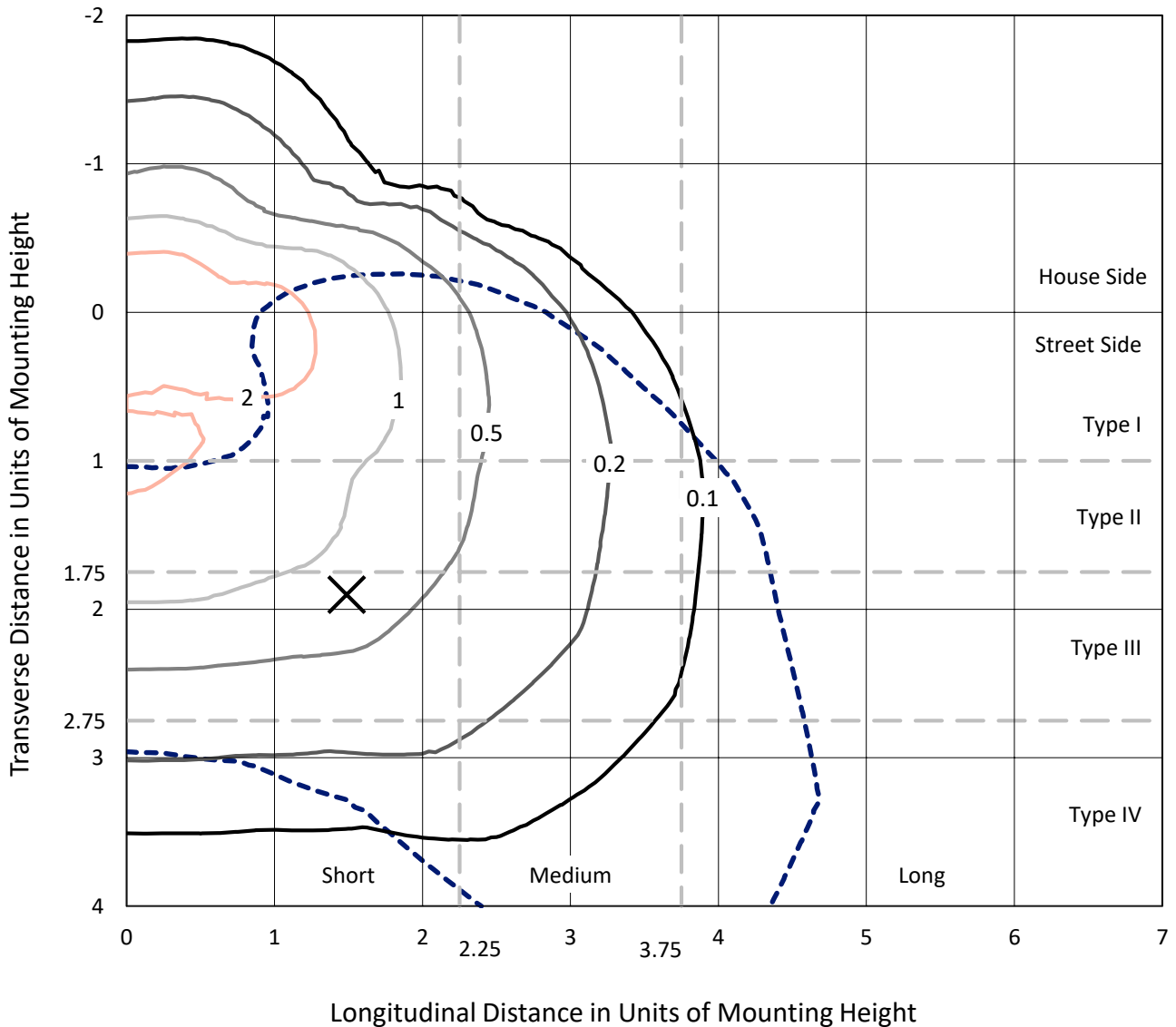
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

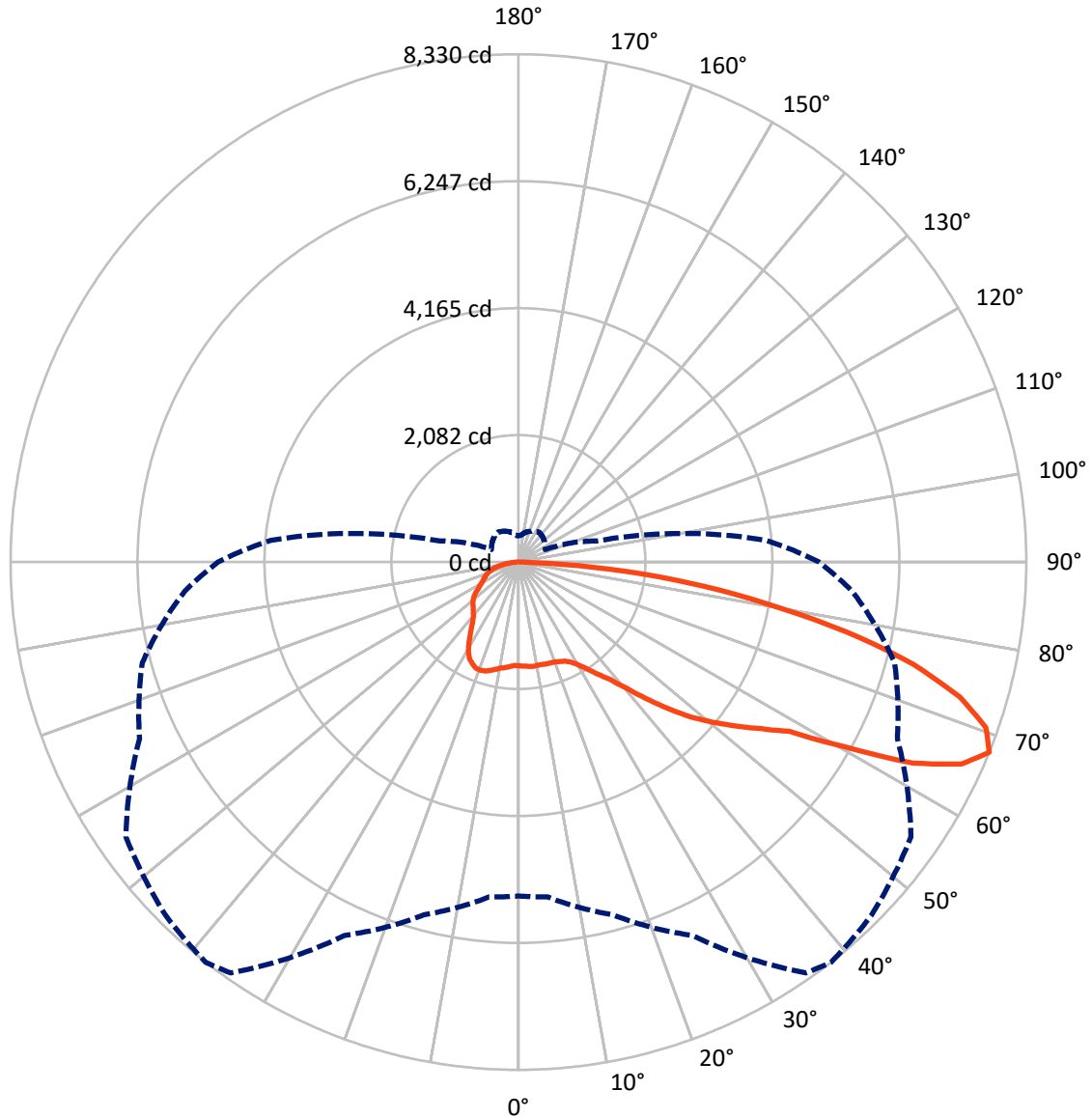
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	3555.8	0.0	3555.8
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11769.2	0.0	11769.2
	% Fixture	76.8	0.0	76.8
Total	Lumens	15325.0	0.0	15325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.1
10°-20°	509.4	3.3
20°-30°	863.5	5.6
30°-40°	1323.3	8.6
40°-50°	2180.4	14.2
50°-60°	3116.4	20.3
60°-70°	3882.2	25.3
70°-80°	2766.5	18.1
80°-90°	518.2	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°	15325.0	100.0
0°-180°	15325.0	100.0

Coefficient of Utilization



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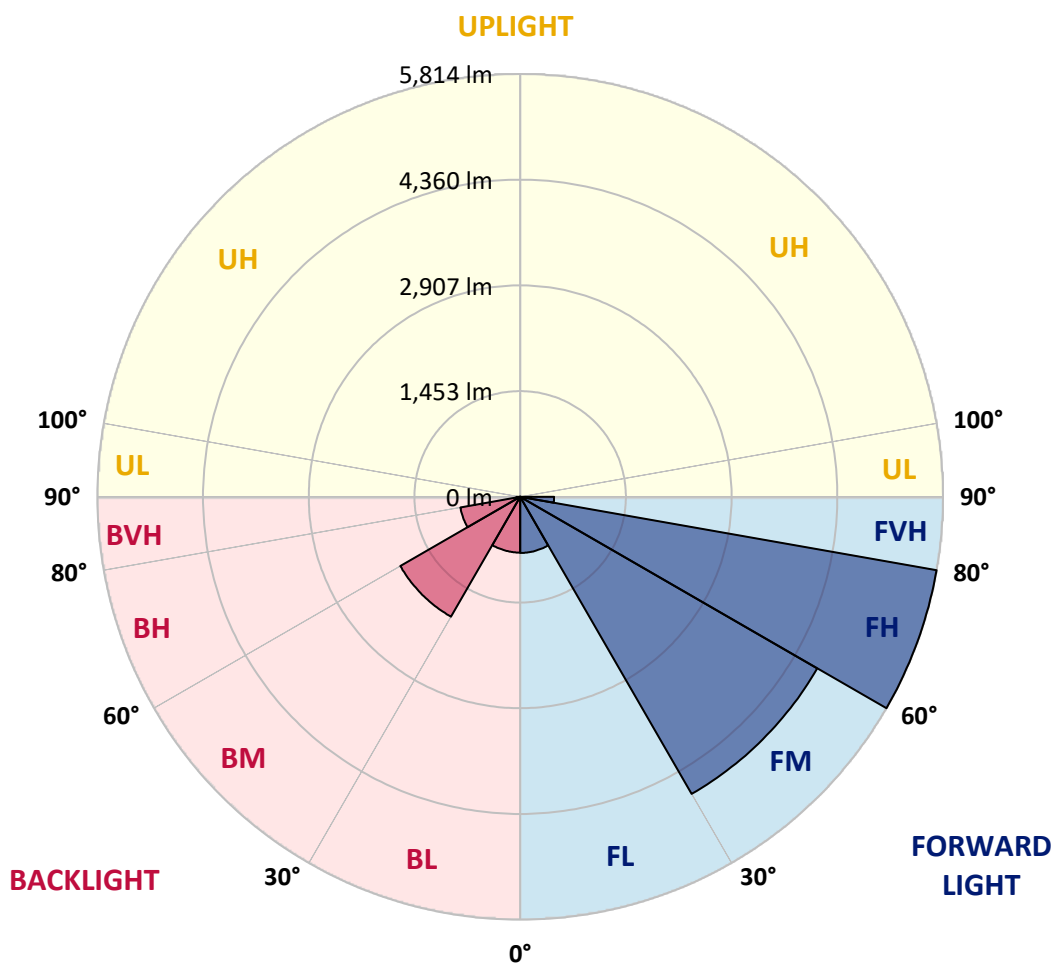
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	771.4	5.0			
FM	(30°-60°)	4716.7	30.8			
FH	(60°-80°)	5813.9	37.9			G3/7500
FVH	(80°-90°)	467.2	3.0			G3/500
BL	(0°-30°)	766.8	5.0	B2/1000		
BM	(30°-60°)	1903.3	12.4	B2/2500		
BH	(60°-80°)	834.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	51.1	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°	38°	45°	55°	65°	75°	85°
0°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1734.2	1741.3	1728.1	1726.1	1717.9	1707.7	1709.8	1701.6	1691.4	1695.5	1697.5
5°	1744.4	1744.4	1734.2	1724.0	1720.0	1717.9	1720.0	1710.8	1708.7	1715.9	1709.8
7.5°	1735.2	1741.3	1724.0	1724.0	1716.9	1729.1	1730.1	1718.9	1727.1	1727.1	1726.1
10°	1733.2	1735.2	1728.1	1713.8	1712.8	1720.0	1734.2	1738.3	1742.4	1741.3	1745.4
12.5°	1709.8	1707.7	1693.5	1697.5	1716.9	1724.0	1748.5	1759.7	1774.9	1779.0	1781.0
15°	1680.2	1688.4	1689.4	1701.6	1722.0	1733.2	1757.6	1780.0	1813.6	1821.8	1820.8
17.5°	1683.3	1686.3	1691.4	1698.6	1730.1	1735.2	1774.9	1799.4	1841.1	1869.6	1883.9
20°	1702.6	1696.5	1706.7	1725.0	1742.4	1746.4	1788.2	1825.9	1882.9	1920.6	1936.9
22.5°	1735.2	1736.2	1741.3	1741.3	1753.6	1771.9	1810.6	1840.1	1910.4	1963.3	1991.8
25°	1765.8	1767.8	1773.9	1771.9	1792.3	1800.4	1837.1	1881.9	1962.3	2024.4	2079.4
27.5°	1811.6	1817.7	1813.6	1814.7	1854.4	1862.5	1878.8	1938.9	2021.4	2104.9	2202.6
30°	1897.1	1897.1	1893.1	1897.1	1939.9	1960.3	1965.4	2024.4	2091.6	2192.5	2340.1
32.5°	2020.4	2021.4	1995.9	2016.3	2064.1	2099.8	2115.1	2208.7	2284.1	2333.0	2523.4
35°	2284.1	2272.9	2246.4	2187.4	2217.9	2261.7	2310.6	2429.7	2595.7	2778.0	2969.4
37.5°	2688.4	2687.4	2593.7	2475.5	2422.6	2445.0	2513.2	2691.4	2951.1	3406.3	3575.3
40°	3137.5	3148.7	3013.2	2865.6	2709.8	2711.8	2729.1	2952.1	3327.9	3985.7	4074.3
42.5°	3585.5	3567.2	3417.5	3276.0	3064.1	3050.9	3005.1	3215.9	3722.0	4449.1	4461.3
45°	3984.7	3975.5	3809.6	3666.0	3466.4	3415.5	3363.5	3497.9	4097.7	4823.8	4743.4
47.5°	4359.4	4371.7	4142.5	4013.2	3815.7	3790.2	3730.1	3815.7	4469.4	5118.1	4972.5
50°	4786.1	4791.2	4517.3	4357.4	4161.9	4129.3	4105.9	4214.8	4853.3	5399.2	5205.7
52.5°	5263.7	5163.9	4897.1	4677.2	4489.8	4465.4	4452.1	4566.2	5273.9	5645.6	5359.4
55°	5864.5	5731.1	5458.2	5093.7	4820.7	4824.8	4779.0	4912.4	5628.3	5815.7	5509.1
57.5°	6127.3	6157.8	6106.9	5774.9	5296.3	5237.2	5124.2	5227.1	5965.3	6015.2	5627.3
60°	6622.2	6740.3	6630.3	6445.0	6303.4	6148.6	5596.7	5635.4	6272.9	6236.2	5640.5
62.5°	6655.8	6696.5	7043.8	7073.3	7210.8	7262.7	6805.5	6098.7	6551.9	6347.2	5685.3
65°	6325.8	6371.7	6790.2	7157.8	7914.4	7985.7	7841.1	6947.0	6778.0	6407.3	5649.7
67.5°	5477.6	5515.2	5990.8	6758.6	8227.0	8329.9	8189.4	7859.4	6857.4	6386.9	5492.8
70°	4685.3	4706.7	5101.8	6176.1	8012.2	8133.4	8077.4	7894.1	6854.3	6266.8	5146.6
72.5°	3680.2	3742.3	4061.1	5122.2	7469.4	7571.2	7587.5	7681.2	6680.2	5871.7	4372.7
75°	2669.0	2702.6	3064.1	3979.6	6447.0	6690.4	6976.5	7329.9	6025.4	4984.7	3233.2
77.5°	1880.8	1913.4	2253.6	3017.3	5217.9	5494.9	6012.2	6219.9	4889.0	3736.2	1701.6
80°	1238.3	1234.2	1558.0	2233.2	3915.5	4110.0	4493.9	4215.9	2837.1	1624.2	185.3
82.5°	727.1	767.8	998.0	1534.6	2736.2	2844.2	2834.0	2219.9	1126.3	168.0	94.7
85°	419.5	434.8	588.6	909.4	1508.1	1523.4	1364.6	861.5	279.0	75.4	56.0
87.5°	187.4	180.2	234.2	300.4	274.9	204.7	127.3	35.6	21.4	14.3	9.2
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°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1689.4	1684.3	1709.8	1695.5	1707.7	1700.6	1694.5	1702.6	1717.9	1731.2	1723.0
5°	1702.6	1705.7	1726.1	1708.7	1725.0	1722.0	1713.8	1723.0	1747.4	1759.7	1758.6
7.5°	1717.9	1720.0	1741.3	1734.2	1741.3	1735.2	1748.5	1742.4	1763.7	1771.9	1766.8
10°	1736.2	1739.3	1758.6	1759.7	1762.7	1758.6	1764.8	1767.8	1780.0	1796.3	1786.1
12.5°	1776.0	1783.1	1797.3	1812.6	1810.6	1794.3	1799.4	1783.1	1794.3	1799.4	1807.5
15°	1830.9	1848.3	1856.4	1877.8	1858.4	1849.3	1829.9	1797.3	1787.2	1782.1	1773.9
17.5°	1890.0	1906.3	1921.6	1949.1	1917.5	1893.1	1859.5	1798.4	1752.5	1736.2	1729.1
20°	1956.2	1971.5	1999.0	2017.3	1970.5	1917.5	1863.5	1773.9	1683.3	1621.2	1628.3
22.5°	2030.5	2064.1	2082.5	2077.4	2011.2	1938.9	1846.2	1709.8	1593.7	1501.0	1494.9
25°	2133.4	2152.7	2159.9	2113.0	2033.6	1923.6	1788.2	1633.4	1471.5	1367.6	1352.3
27.5°	2241.3	2261.7	2224.0	2136.4	2026.5	1888.0	1723.0	1503.0	1329.9	1230.1	1218.9
30°	2379.8	2374.7	2267.8	2129.3	1985.7	1802.4	1603.9	1369.6	1209.8	1117.1	1112.0
32.5°	2530.5	2492.9	2303.5	2094.7	1908.3	1690.4	1452.1	1243.4	1120.2	1027.5	1023.4
35°	2887.0	2713.8	2355.4	2050.9	1794.3	1535.6	1311.6	1148.7	1048.9	944.0	923.6
37.5°	3410.4	3131.3	2462.3	2006.1	1663.9	1382.9	1194.5	1078.4	983.7	871.7	852.3
40°	3898.1	3556.0	2649.7	1972.5	1546.8	1259.7	1114.0	1029.5	937.9	825.9	801.4
42.5°	4244.4	3885.9	2874.7	1917.5	1429.7	1161.9	1080.4	1011.2	925.7	821.8	802.4
45°	4523.4	4171.1	3097.7	1855.4	1292.3	1078.4	1045.8	995.9	910.4	809.6	787.2
47.5°	4719.9	4350.3	3252.5	1785.1	1160.9	1027.5	1016.3	971.5	887.0	792.3	778.0
50°	4922.6	4550.9	3358.4	1712.8	1042.8	988.8	975.6	916.5	839.1	754.6	739.3
52.5°	5055.0	4648.7	3419.5	1698.6	942.0	935.8	919.5	863.5	790.2	698.6	680.2
55°	5155.8	4735.2	3410.4	1615.1	851.3	866.6	856.4	814.7	750.5	660.9	648.7
57.5°	5180.2	4748.4	3326.9	1356.4	765.8	773.9	779.0	787.2	725.0	650.7	630.3
60°	5250.5	4686.3	3179.2	975.6	665.0	685.3	726.1	733.2	690.4	605.9	593.7
62.5°	5205.7	4644.6	2858.4	687.4	593.7	635.4	674.1	674.1	615.1	536.7	528.5
65°	5127.3	4479.6	2236.2	541.7	556.0	598.8	634.4	610.0	559.1	485.7	480.6
67.5°	4927.7	4077.4	1335.0	487.8	529.5	570.3	595.7	559.1	511.2	438.9	430.8
70°	4354.4	3249.5	508.1	462.3	503.1	531.6	547.9	510.2	463.3	391.0	383.9
72.5°	3457.2	2032.6	322.8	430.8	469.4	494.9	505.1	461.3	387.0	304.5	296.3
75°	2080.4	580.4	280.0	372.7	413.4	457.2	439.9	382.9	326.9	255.6	250.5
77.5°	526.5	176.2	249.5	300.4	336.0	388.0	387.0	345.2	285.1	208.8	200.6
80°	126.3	123.2	202.6	222.0	253.6	297.4	293.3	287.2	226.1	144.6	119.1
82.5°	80.4	85.5	137.5	124.2	144.6	173.1	196.5	185.3	169.0	88.6	79.4
85°	54.0	68.2	67.2	46.8	65.2	97.8	127.3	116.1	95.7	55.0	48.9
87.5°	8.1	9.2	12.2	18.3	28.5	47.9	63.1	62.1	46.8	34.6	32.6
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)