

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: P509585

Luminaire Tested: **VERD-G-CA2-130-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509585
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-CA2-130-722-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15204 lumens
Efficiency: N/A
Efficacy: 113.5 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

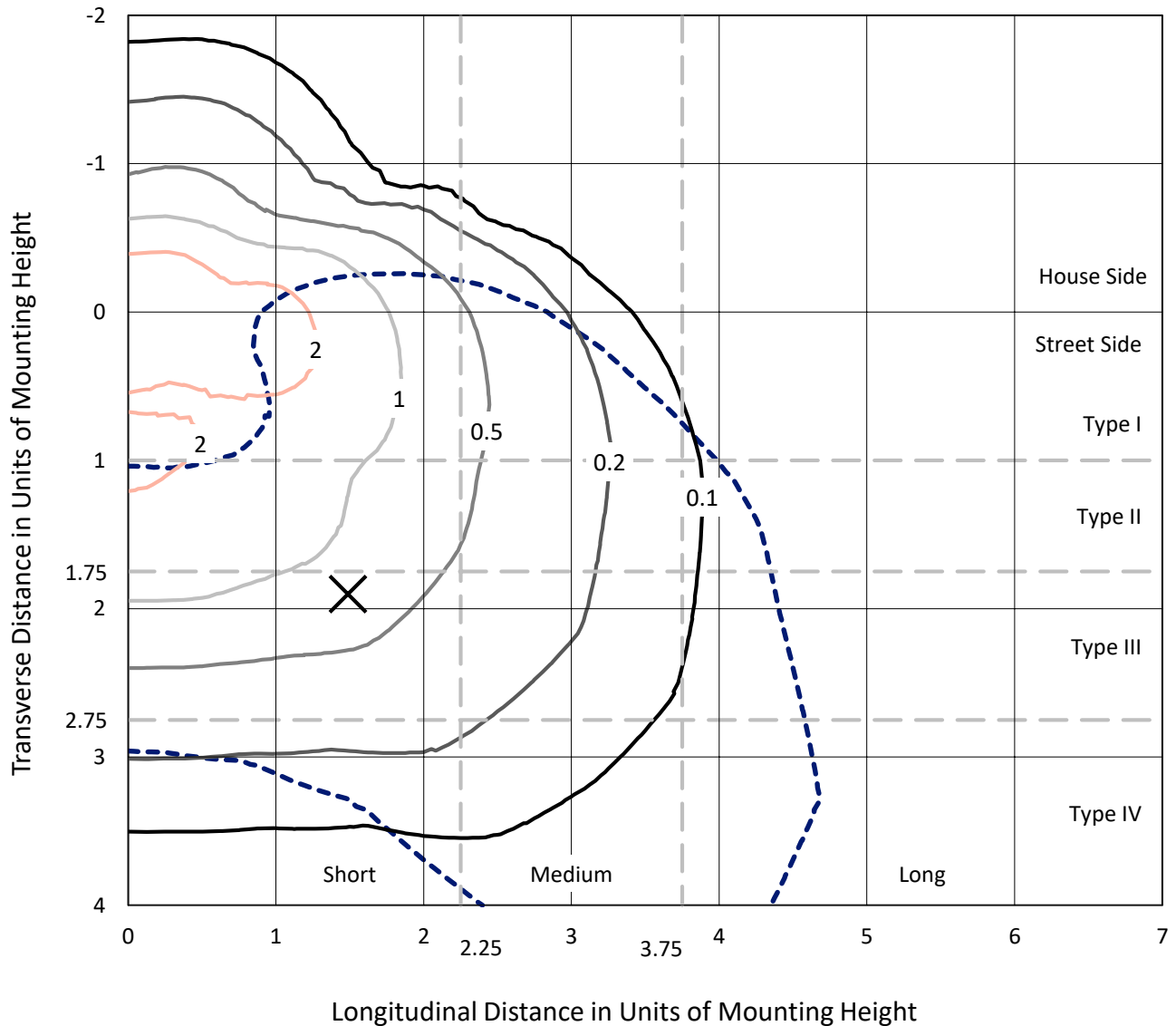
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

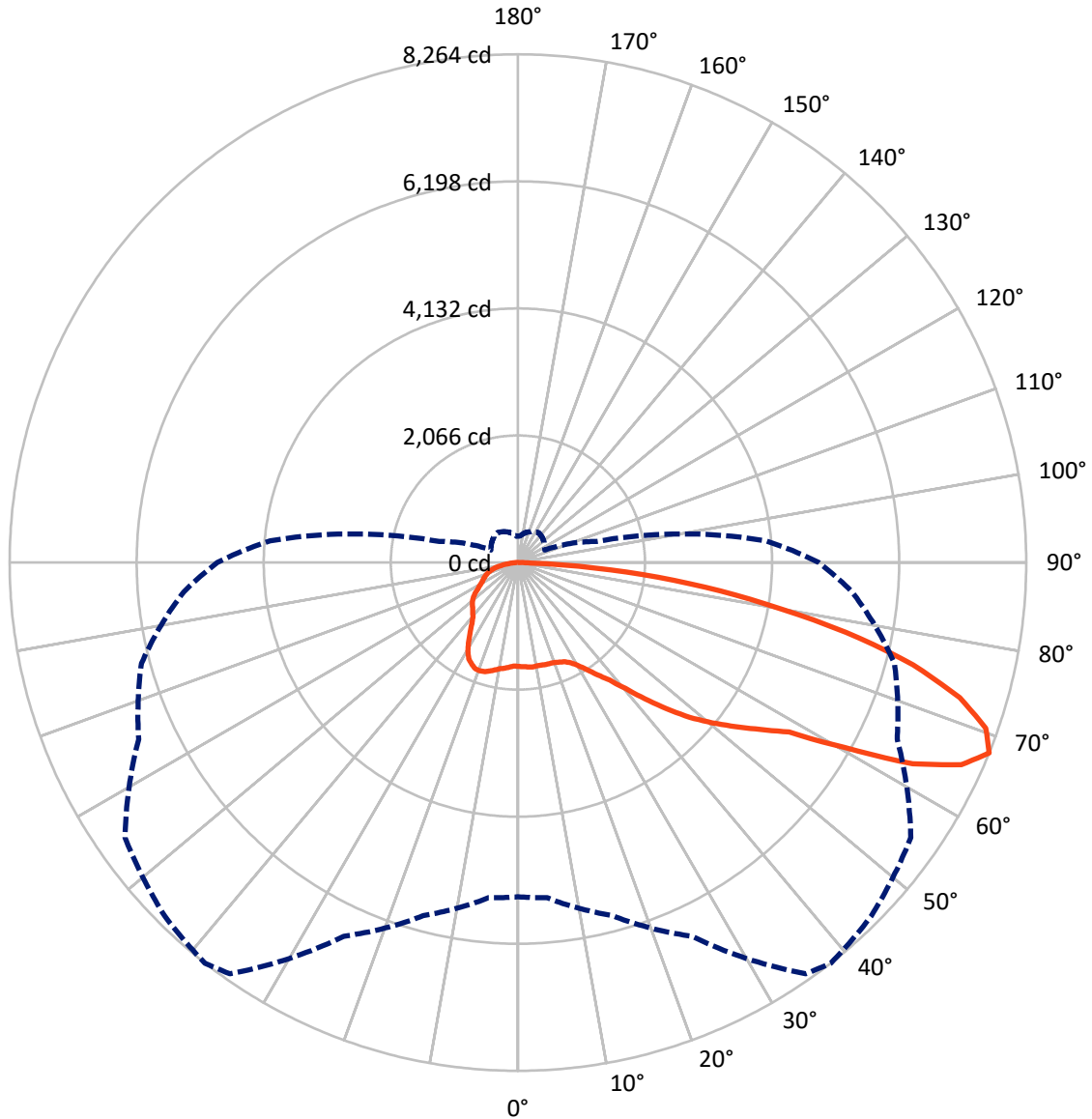
✕ Max cd
 - - - 1/2 Max cd



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	3527.8	0.0	3527.8
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11676.2	0.0	11676.2
	% Fixture	76.8	0.0	76.8
Total	Lumens	15204.0	0.0	15204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	1.1
10°-20°	505.4	3.3
20°-30°	856.7	5.6
30°-40°	1312.8	8.6
40°-50°	2163.1	14.2
50°-60°	3091.8	20.3
60°-70°	3851.5	25.3
70°-80°	2744.6	18.1
80°-90°	514.1	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°	15204.0	100.0
0°-180°	15204.0	100.0

Coefficient of Utilization



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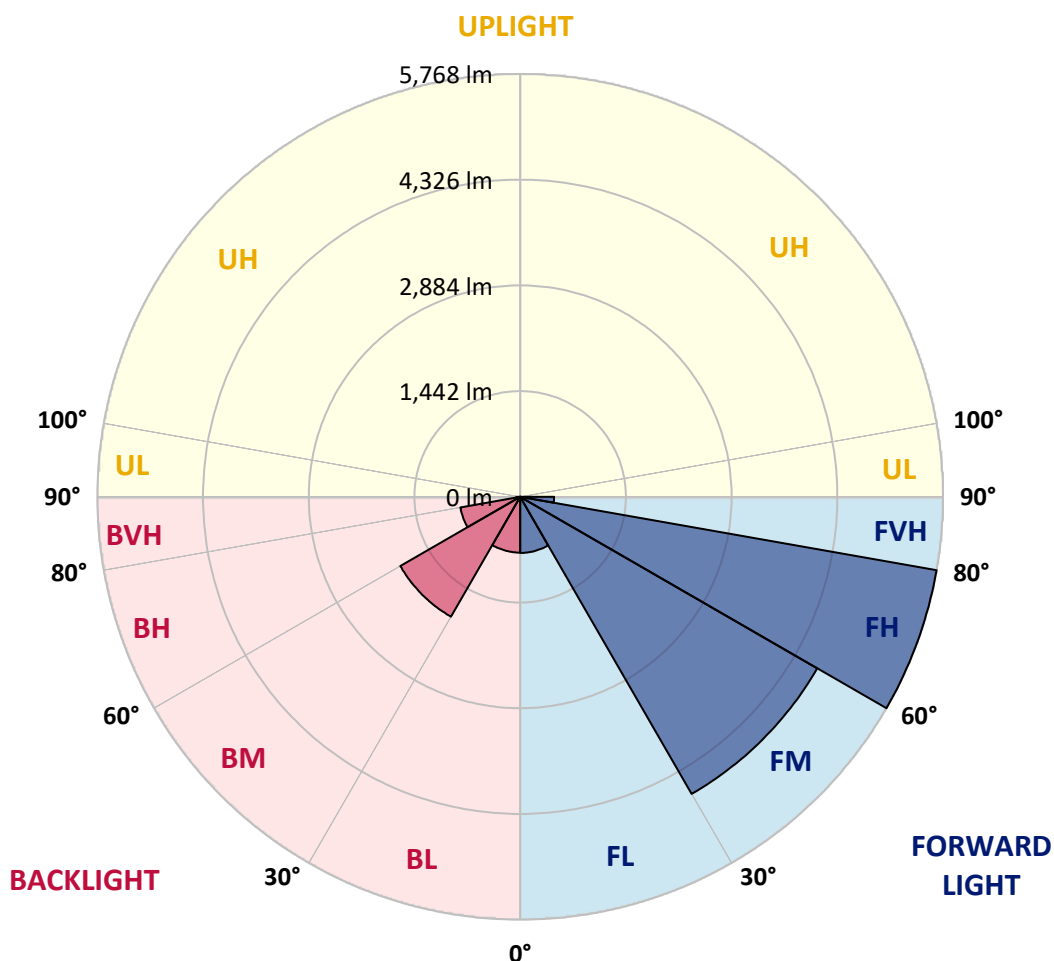
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.3	5.0			
FM	(30°-60°)	4679.4	30.8			
FH	(60°-80°)	5768.0	37.9			G3/7500
FVH	(80°-90°)	463.5	3.0			G3/500
BL	(0°-30°)	760.7	5.0	B2/1000		
BM	(30°-60°)	1888.3	12.4	B2/2500		
BH	(60°-80°)	828.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	50.7	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°	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2
2.5°	1720.5	1727.6	1714.5	1712.4	1704.3	1694.2	1696.3	1688.2	1678.1	1682.1	1684.1
5°	1730.6	1730.6	1720.5	1710.4	1706.4	1704.3	1706.4	1697.3	1695.3	1702.3	1696.3
7.5°	1721.5	1727.6	1710.4	1710.4	1703.3	1715.5	1716.5	1705.4	1713.4	1713.4	1712.4
10°	1719.5	1721.5	1714.5	1700.3	1699.3	1706.4	1720.5	1724.6	1728.6	1727.6	1731.6
12.5°	1696.3	1694.2	1680.1	1684.1	1703.3	1710.4	1734.7	1745.8	1760.9	1765.0	1767.0
15°	1667.0	1675.1	1676.1	1688.2	1708.4	1719.5	1743.8	1766.0	1799.3	1807.4	1806.4
17.5°	1670.0	1673.0	1678.1	1685.2	1716.5	1721.5	1760.9	1785.2	1826.6	1854.9	1869.0
20°	1689.2	1683.1	1693.2	1711.4	1728.6	1732.6	1774.1	1811.4	1868.0	1905.4	1921.6
22.5°	1721.5	1722.5	1727.6	1727.6	1739.7	1757.9	1796.3	1825.6	1895.3	1947.8	1976.1
25°	1751.8	1753.9	1759.9	1757.9	1778.1	1786.2	1822.6	1867.0	1946.8	2008.4	2063.0
27.5°	1797.3	1803.4	1799.3	1800.3	1839.7	1847.8	1864.0	1923.6	2005.4	2088.3	2185.2
30°	1882.2	1882.2	1878.1	1882.2	1924.6	1944.8	1949.8	2008.4	2075.1	2175.1	2321.6
32.5°	2004.4	2005.4	1980.2	2000.4	2047.8	2083.2	2098.4	2191.3	2266.1	2314.6	2503.5
35°	2266.1	2255.0	2228.7	2170.1	2200.4	2243.8	2292.3	2410.5	2575.2	2756.1	2946.0
37.5°	2667.2	2666.1	2573.2	2456.0	2403.5	2425.7	2493.4	2670.2	2927.8	3379.4	3547.1
40°	3112.7	3123.8	2989.4	2842.9	2688.4	2690.4	2707.6	2928.8	3301.6	3954.3	4042.1
42.5°	3557.2	3539.0	3390.5	3250.1	3039.9	3026.8	2981.3	3190.5	3692.6	4413.9	4426.1
45°	3953.2	3944.1	3779.5	3637.0	3439.0	3388.5	3337.0	3470.3	4065.4	4785.7	4705.9
47.5°	4325.0	4337.2	4109.8	3981.5	3785.5	3760.3	3700.7	3785.5	4434.1	5077.7	4933.2
50°	4748.3	4753.4	4481.6	4323.0	4129.0	4096.7	4073.5	4181.6	4815.0	5356.5	5164.6
52.5°	5222.2	5123.2	4858.5	4640.2	4454.3	4430.1	4417.0	4530.1	5232.3	5601.0	5317.1
55°	5818.2	5685.9	5415.1	5053.4	4782.7	4786.7	4741.3	4873.6	5583.8	5769.7	5465.6
57.5°	6078.9	6109.2	6058.7	5729.3	5254.5	5195.9	5083.8	5185.8	5918.2	5967.7	5582.8
60°	6569.9	6687.1	6578.0	6394.1	6253.7	6100.1	5552.5	5590.9	6223.4	6187.0	5596.0
62.5°	6603.2	6643.6	6988.1	7017.4	7153.8	7205.3	6751.7	6050.6	6500.2	6297.1	5640.4
65°	6275.9	6321.3	6736.6	7101.3	7851.9	7922.6	7779.2	6892.2	6724.5	6356.7	5605.1
67.5°	5434.3	5471.7	5943.5	6705.3	8162.1	8264.1	8124.7	7797.4	6803.3	6336.5	5449.5
70°	4648.3	4669.5	5061.5	6127.4	7948.9	8069.1	8013.6	7831.7	6800.2	6217.3	5106.0
72.5°	3651.2	3712.8	4029.0	5081.7	7410.4	7511.5	7527.6	7620.6	6627.5	5825.3	4338.2
75°	2648.0	2681.3	3039.9	3948.2	6396.1	6637.6	6921.5	7272.0	5977.9	4945.3	3207.7
77.5°	1866.0	1898.3	2235.8	2993.5	5176.7	5451.5	5964.7	6170.8	4850.4	3706.7	1688.2
80°	1228.5	1224.5	1545.7	2215.6	3884.5	4077.5	4458.4	4182.6	2814.7	1611.4	183.9
82.5°	721.3	761.8	990.1	1522.5	2714.6	2821.7	2811.6	2202.4	1117.4	166.7	94.0
85°	416.2	431.4	583.9	902.2	1496.2	1511.4	1353.8	854.7	276.8	74.8	55.6
87.5°	185.9	178.8	232.4	298.0	272.8	203.1	126.3	35.4	21.2	14.1	9.1
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°	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2	1689.2
2.5°	1676.1	1671.0	1696.3	1682.1	1694.2	1687.2	1681.1	1689.2	1704.3	1717.5	1709.4
5°	1689.2	1692.2	1712.4	1695.3	1711.4	1708.4	1700.3	1709.4	1733.6	1745.8	1744.8
7.5°	1704.3	1706.4	1727.6	1720.5	1727.6	1721.5	1734.7	1728.6	1749.8	1757.9	1752.8
10°	1722.5	1725.6	1744.8	1745.8	1748.8	1744.8	1750.8	1753.9	1766.0	1782.1	1772.0
12.5°	1761.9	1769.0	1783.2	1798.3	1796.3	1780.1	1785.2	1769.0	1780.1	1785.2	1793.3
15°	1816.5	1833.7	1841.7	1863.0	1843.8	1834.7	1815.5	1783.2	1773.0	1768.0	1759.9
17.5°	1875.1	1891.3	1906.4	1933.7	1902.4	1878.1	1844.8	1784.2	1738.7	1722.5	1715.5
20°	1940.8	1955.9	1983.2	2001.4	1954.9	1902.4	1848.8	1759.9	1670.0	1608.4	1615.4
22.5°	2014.5	2047.8	2066.0	2061.0	1995.3	1923.6	1831.6	1696.3	1581.1	1489.2	1483.1
25°	2116.5	2135.7	2142.8	2096.3	2017.5	1908.4	1774.1	1620.5	1459.9	1356.8	1341.7
27.5°	2223.6	2243.8	2206.5	2119.6	2010.5	1873.1	1709.4	1491.2	1319.4	1220.4	1209.3
30°	2361.0	2356.0	2249.9	2112.5	1970.1	1788.2	1591.2	1358.8	1200.2	1108.3	1103.2
32.5°	2510.6	2473.2	2285.3	2078.2	1893.3	1677.1	1440.7	1233.6	1111.3	1019.4	1015.3
35°	2864.2	2692.4	2336.8	2034.7	1780.1	1523.5	1301.2	1139.6	1040.6	936.5	916.3
37.5°	3383.4	3106.6	2442.9	1990.3	1650.8	1372.0	1185.1	1069.9	975.9	864.8	845.6
40°	3867.4	3527.9	2628.8	1956.9	1534.6	1249.7	1105.3	1021.4	930.5	819.3	795.1
42.5°	4210.9	3855.2	2852.0	1902.4	1418.4	1152.7	1071.9	1003.2	918.3	815.3	796.1
45°	4487.7	4138.1	3073.3	1840.7	1282.1	1069.9	1037.6	988.1	903.2	803.2	780.9
47.5°	4682.7	4315.9	3226.8	1771.0	1151.7	1019.4	1008.3	963.8	880.0	786.0	771.9
50°	4883.7	4515.0	3331.9	1699.3	1034.5	981.0	967.9	909.3	832.5	748.6	733.5
52.5°	5015.1	4611.9	3392.5	1685.2	934.5	928.5	912.3	856.7	784.0	693.1	674.9
55°	5115.1	4697.8	3383.4	1602.3	844.6	859.8	849.6	808.2	744.6	655.7	643.6
57.5°	5139.3	4711.0	3300.6	1345.7	759.7	767.8	772.9	780.9	719.3	645.6	625.4
60°	5209.0	4649.3	3154.1	967.9	659.7	679.9	720.3	727.4	685.0	601.1	589.0
62.5°	5164.6	4607.9	2835.9	681.9	589.0	630.4	668.8	668.8	610.2	532.4	524.3
65°	5086.8	4444.2	2218.6	537.5	551.6	594.0	629.4	605.2	554.6	481.9	476.9
67.5°	4888.8	4045.2	1324.5	483.9	525.3	565.8	591.0	554.6	507.2	435.4	427.4
70°	4320.0	3223.8	504.1	458.7	499.1	527.4	543.5	506.2	459.7	387.9	380.9
72.5°	3429.9	2016.5	320.3	427.4	465.7	491.0	501.1	457.7	383.9	302.1	294.0
75°	2064.0	575.9	277.8	369.8	410.2	453.6	436.4	379.9	324.3	253.6	248.5
77.5°	522.3	174.8	247.5	298.0	333.4	384.9	383.9	342.5	282.9	207.1	199.0
80°	125.3	122.2	201.0	220.2	251.6	295.0	291.0	284.9	224.3	143.5	118.2
82.5°	79.8	84.9	136.4	123.3	143.5	171.7	195.0	183.9	167.7	87.9	78.8
85°	53.5	67.7	66.7	46.5	64.7	97.0	126.3	115.2	95.0	54.6	48.5
87.5°	8.1	9.1	12.1	18.2	28.3	47.5	62.6	61.6	46.5	34.3	32.3
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)