

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: P509505

Luminaire Tested: **VERD-G-CA2-110-730-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509505
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-CA2-110-730-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16063 lumens
Efficiency: N/A
Efficacy: 141.9 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

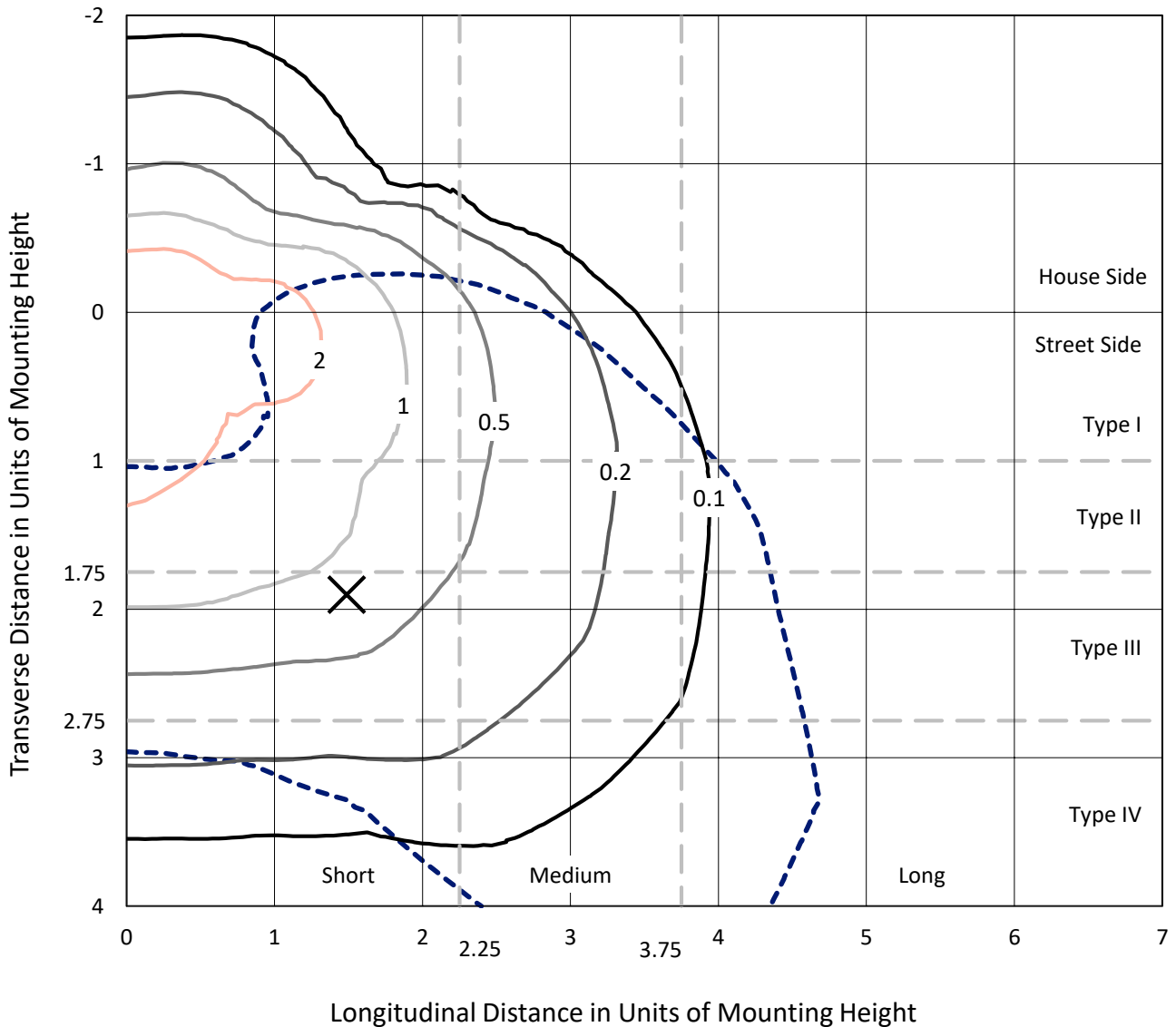
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

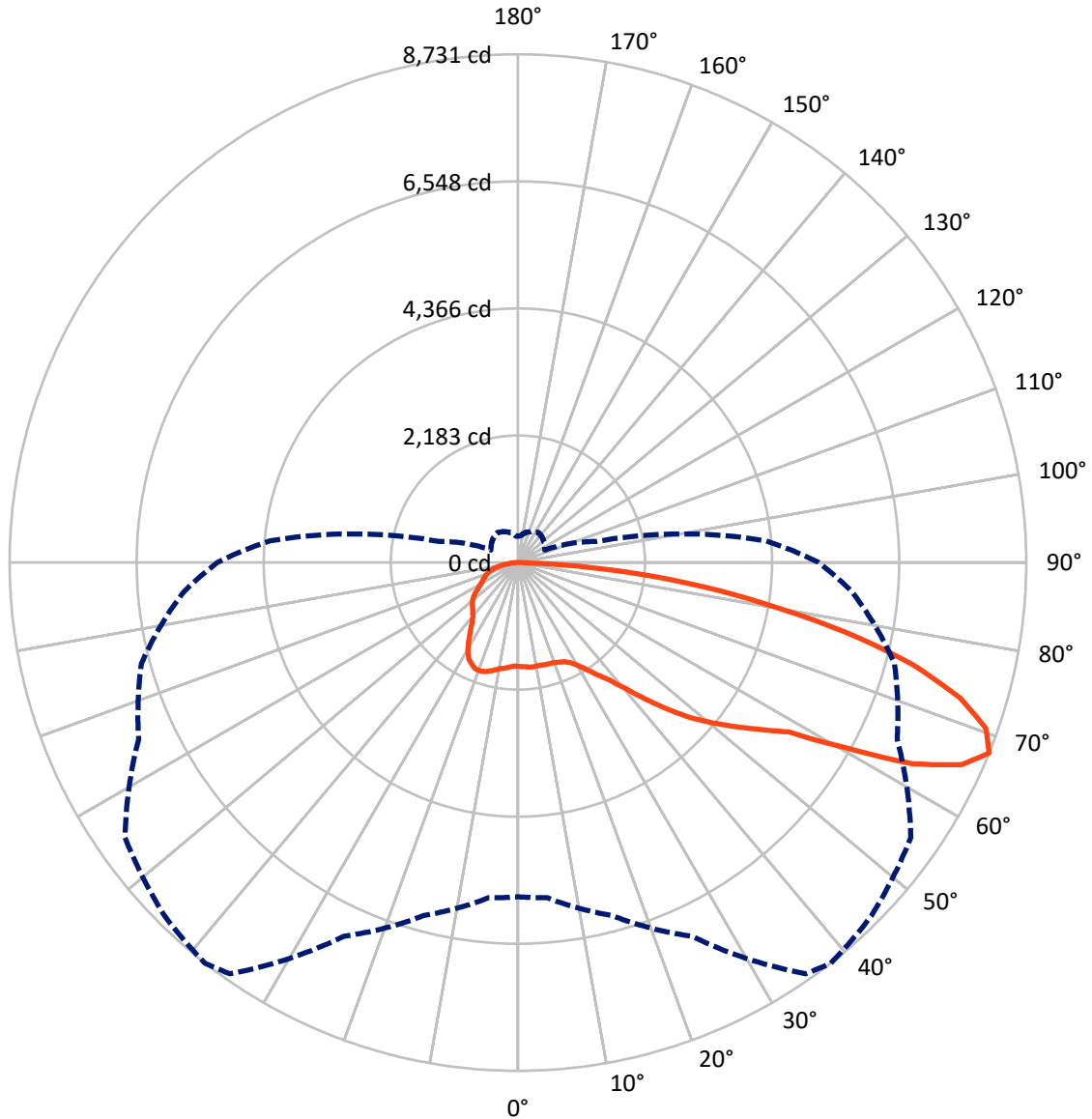
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	3727.1	0.0	3727.1
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	12335.9	0.0	12335.9
	% Fixture	76.8	0.0	76.8
Total	Lumens	16063.0	0.0	16063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.1
10°-20°	534.0	3.3
20°-30°	905.1	5.6
30°-40°	1387.0	8.6
40°-50°	2285.4	14.2
50°-60°	3266.4	20.3
60°-70°	4069.1	25.3
70°-80°	2899.7	18.1
80°-90°	543.2	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°	16063.0	100.0
0°-180°	16063.0	100.0

Coefficient of Utilization



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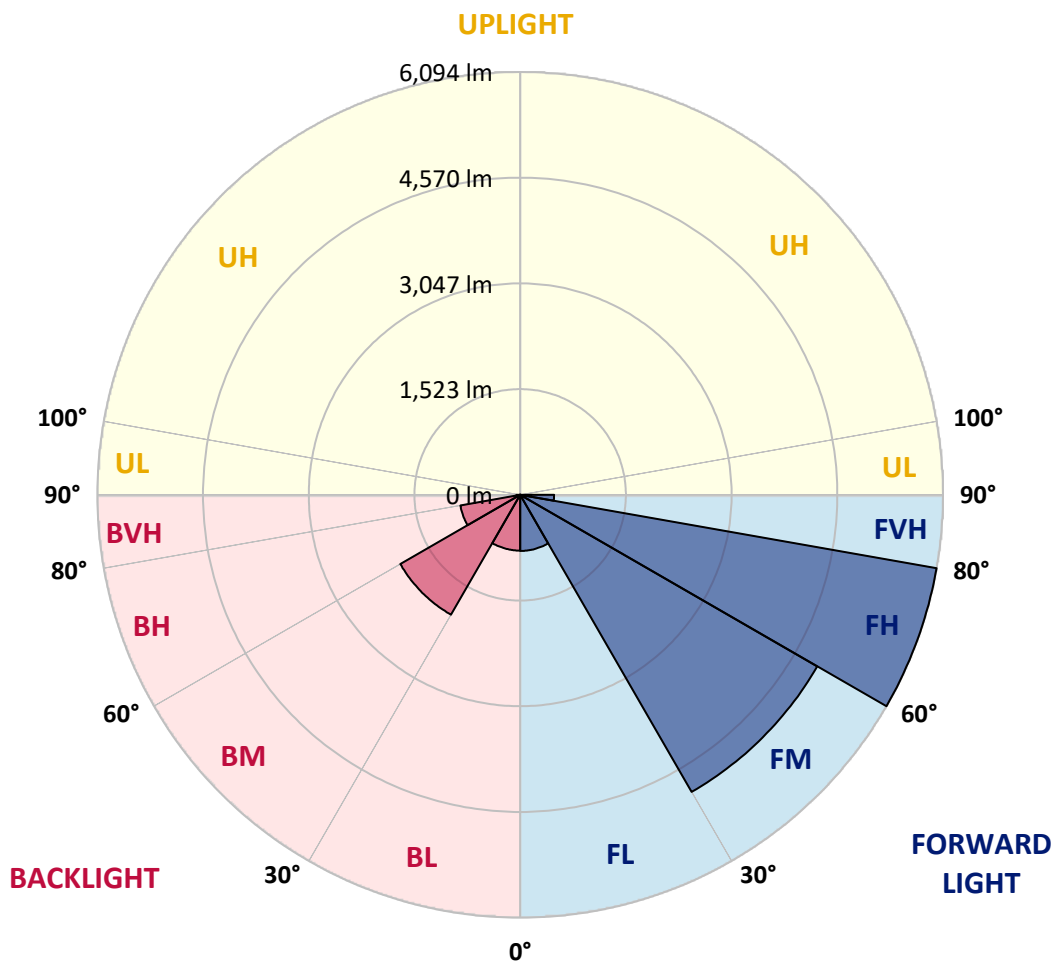
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	808.5	5.0			
FM	(30°-60°)	4943.8	30.8			
FH	(60°-80°)	6093.9	37.9			G3/7500
FVH	(80°-90°)	489.7	3.0			G3/500
BL	(0°-30°)	803.7	5.0	B2/1000		
BM	(30°-60°)	1995.0	12.4	B2/2500		
BH	(60°-80°)	874.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	53.5	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°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1817.7	1825.2	1811.3	1809.2	1800.6	1790.0	1792.1	1783.6	1772.9	1777.2	1779.3
5°	1828.4	1828.4	1817.7	1807.0	1802.8	1800.6	1802.8	1793.2	1791.0	1798.5	1792.1
7.5°	1818.8	1825.2	1807.0	1807.0	1799.6	1812.4	1813.5	1801.7	1810.2	1810.2	1809.2
10°	1816.7	1818.8	1811.3	1796.4	1795.3	1802.8	1817.7	1822.0	1826.3	1825.2	1829.5
12.5°	1792.1	1790.0	1775.0	1779.3	1799.6	1807.0	1832.7	1844.4	1860.4	1864.7	1866.8
15°	1761.1	1769.7	1770.8	1783.6	1804.9	1816.7	1842.3	1865.8	1901.0	1909.5	1908.4
17.5°	1764.4	1767.6	1772.9	1780.4	1813.5	1818.8	1860.4	1886.0	1929.8	1959.7	1974.6
20°	1784.6	1778.2	1788.9	1808.1	1826.3	1830.5	1874.3	1913.8	1973.6	2013.0	2030.1
22.5°	1818.8	1819.9	1825.2	1825.2	1838.0	1857.2	1897.8	1928.7	2002.4	2057.9	2087.8
25°	1850.8	1852.9	1859.3	1857.2	1878.6	1887.1	1925.5	1972.5	2056.8	2121.9	2179.6
27.5°	1898.8	1905.2	1901.0	1902.0	1943.7	1952.2	1969.3	2032.3	2118.7	2206.2	2308.7
30°	1988.5	1988.5	1984.2	1988.5	2033.3	2054.7	2060.0	2121.9	2192.4	2298.0	2452.8
32.5°	2117.6	2118.7	2092.0	2113.4	2163.5	2200.9	2216.9	2315.1	2394.1	2445.3	2644.9
35°	2394.1	2382.4	2354.6	2292.7	2324.7	2370.6	2421.8	2546.7	2720.7	2911.8	3112.4
37.5°	2817.8	2816.8	2718.6	2594.8	2539.3	2562.7	2634.3	2821.0	3093.2	3570.3	3747.5
40°	3288.5	3300.3	3158.3	3003.6	2840.3	2842.4	2860.5	3094.3	3488.1	4177.7	4270.5
42.5°	3758.2	3739.0	3582.1	3433.7	3211.7	3197.8	3149.8	3370.7	3901.2	4663.3	4676.1
45°	4176.6	4167.0	3993.0	3842.5	3633.3	3579.9	3525.5	3666.4	4295.1	5056.1	4971.8
47.5°	4569.4	4582.2	4342.0	4206.5	3999.4	3972.7	3909.8	3999.4	4684.7	5364.6	5211.9
50°	5016.6	5021.9	4734.8	4567.2	4362.3	4328.2	4303.6	4417.8	5087.1	5659.2	5456.4
52.5°	5517.2	5412.6	5133.0	4902.4	4706.0	4680.4	4666.5	4786.1	5527.9	5917.5	5617.5
55°	6146.9	6007.1	5721.1	5339.0	5052.9	5057.2	5009.1	5149.0	5899.3	6095.7	5774.4
57.5°	6422.3	6454.3	6401.0	6053.0	5551.4	5489.5	5371.0	5478.8	6252.6	6304.9	5898.3
60°	6941.1	7064.9	6949.6	6755.3	6607.0	6444.7	5866.2	5906.8	6575.0	6536.5	5912.1
62.5°	6976.3	7019.0	7383.0	7413.9	7558.0	7612.4	7133.2	6392.4	6867.4	6652.9	5959.1
65°	6630.5	6678.5	7117.2	7502.5	8295.5	8370.3	8218.7	7281.6	7104.4	6715.9	5921.7
67.5°	5741.3	5780.8	6279.3	7084.1	8623.2	8731.0	8583.7	8237.9	7187.6	6694.5	5757.4
70°	4910.9	4933.4	5347.5	6473.6	8398.0	8525.0	8466.3	8274.2	7184.4	6568.6	5394.5
72.5°	3857.5	3922.6	4256.6	5368.8	7829.1	7935.8	7952.9	8051.1	7001.9	6154.4	4583.3
75°	2797.6	2832.8	3211.7	4171.3	6757.5	7012.6	7312.5	7682.9	6315.6	5224.7	3388.9
77.5°	1971.4	2005.6	2362.1	3162.6	5469.2	5759.5	6301.7	6519.5	5124.4	3916.2	1783.6
80°	1297.9	1293.6	1633.1	2340.7	4104.0	4307.9	4710.3	4418.9	2973.7	1702.4	194.3
82.5°	762.1	804.8	1046.0	1608.5	2868.0	2981.1	2970.5	2326.9	1180.5	176.1	99.3
85°	439.8	455.8	616.9	953.2	1580.8	1596.8	1430.3	903.0	292.5	79.0	58.7
87.5°	196.4	188.9	245.5	314.9	288.2	214.5	133.4	37.4	22.4	14.9	9.6
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°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1770.8	1765.4	1792.1	1777.2	1790.0	1782.5	1776.1	1784.6	1800.6	1814.5	1806.0
5°	1784.6	1787.8	1809.2	1791.0	1808.1	1804.9	1796.4	1806.0	1831.6	1844.4	1843.3
7.5°	1800.6	1802.8	1825.2	1817.7	1825.2	1818.8	1832.7	1826.3	1848.7	1857.2	1851.9
10°	1819.9	1823.1	1843.3	1844.4	1847.6	1843.3	1849.7	1852.9	1865.8	1882.8	1872.2
12.5°	1861.5	1869.0	1883.9	1899.9	1897.8	1880.7	1886.0	1869.0	1880.7	1886.0	1894.6
15°	1919.1	1937.3	1945.8	1968.2	1947.9	1938.3	1918.1	1883.9	1873.2	1867.9	1859.3
17.5°	1981.0	1998.1	2014.1	2042.9	2009.8	1984.2	1949.0	1885.0	1836.9	1819.9	1812.4
20°	2050.4	2066.4	2095.2	2114.4	2065.3	2009.8	1953.3	1859.3	1764.4	1699.2	1706.7
22.5°	2128.3	2163.5	2182.8	2177.4	2108.0	2032.3	1935.1	1792.1	1670.4	1573.3	1566.9
25°	2236.1	2256.4	2263.9	2214.8	2131.5	2016.2	1874.3	1712.1	1542.3	1433.5	1417.5
27.5°	2349.3	2370.6	2331.1	2239.3	2124.1	1978.9	1806.0	1575.4	1394.0	1289.4	1277.6
30°	2494.4	2489.1	2377.0	2231.9	2081.4	1889.2	1681.1	1435.6	1268.0	1170.9	1165.6
32.5°	2652.4	2612.9	2414.4	2195.6	2000.2	1771.8	1522.1	1303.3	1174.1	1077.0	1072.7
35°	3026.0	2844.5	2468.8	2149.7	1880.7	1609.6	1374.8	1204.0	1099.4	989.4	968.1
37.5°	3574.6	3282.1	2580.9	2102.7	1744.1	1449.5	1252.0	1130.3	1031.1	913.7	893.4
40°	4085.9	3727.2	2777.3	2067.5	1621.3	1320.3	1167.7	1079.1	983.0	865.6	840.0
42.5°	4448.8	4073.1	3013.2	2009.8	1498.6	1217.9	1132.5	1059.9	970.2	861.4	841.1
45°	4741.2	4371.9	3246.9	1944.7	1354.5	1130.3	1096.2	1043.9	954.2	848.6	825.1
47.5°	4947.2	4559.8	3409.2	1871.1	1216.8	1077.0	1065.2	1018.3	929.7	830.4	815.5
50°	5159.6	4770.0	3520.2	1795.3	1093.0	1036.4	1022.5	960.6	879.5	790.9	774.9
52.5°	5298.4	4872.5	3584.2	1780.4	987.3	980.9	963.8	905.1	828.3	732.2	713.0
55°	5404.1	4963.2	3574.6	1692.8	892.3	908.3	897.7	853.9	786.6	692.7	679.9
57.5°	5429.7	4977.1	3487.1	1421.7	802.7	811.2	816.5	825.1	760.0	682.0	660.7
60°	5503.3	4912.0	3332.3	1022.5	697.0	718.3	761.0	768.5	723.7	635.1	622.3
62.5°	5456.4	4868.2	2996.1	720.5	622.3	666.0	706.6	706.6	644.7	562.5	554.0
65°	5374.2	4695.3	2343.9	567.8	582.8	627.6	665.0	639.4	586.0	509.1	503.8
67.5°	5165.0	4273.7	1399.3	511.3	555.0	597.7	624.4	586.0	535.8	460.0	451.5
70°	4564.0	3406.0	532.6	484.6	527.3	557.2	574.2	534.7	485.7	409.9	402.4
72.5°	3623.7	2130.5	338.4	451.5	492.1	518.7	529.4	483.5	405.6	319.1	310.6
75°	2180.6	608.4	293.5	390.7	433.3	479.2	461.1	401.3	342.6	267.9	262.6
77.5°	551.8	184.7	261.5	314.9	352.2	406.7	405.6	361.8	298.9	218.8	210.3
80°	132.4	129.2	212.4	232.7	265.8	311.7	307.4	301.0	237.0	151.6	124.9
82.5°	84.3	89.7	144.1	130.2	151.6	181.5	206.0	194.3	177.2	92.9	83.3
85°	56.6	71.5	70.4	49.1	68.3	102.5	133.4	121.7	100.3	57.6	51.2
87.5°	8.5	9.6	12.8	19.2	29.9	50.2	66.2	65.1	49.1	36.3	34.2
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)