

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: P509209

Luminaire Tested: **VERD-CA2-130-727-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-727-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1180mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15540 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

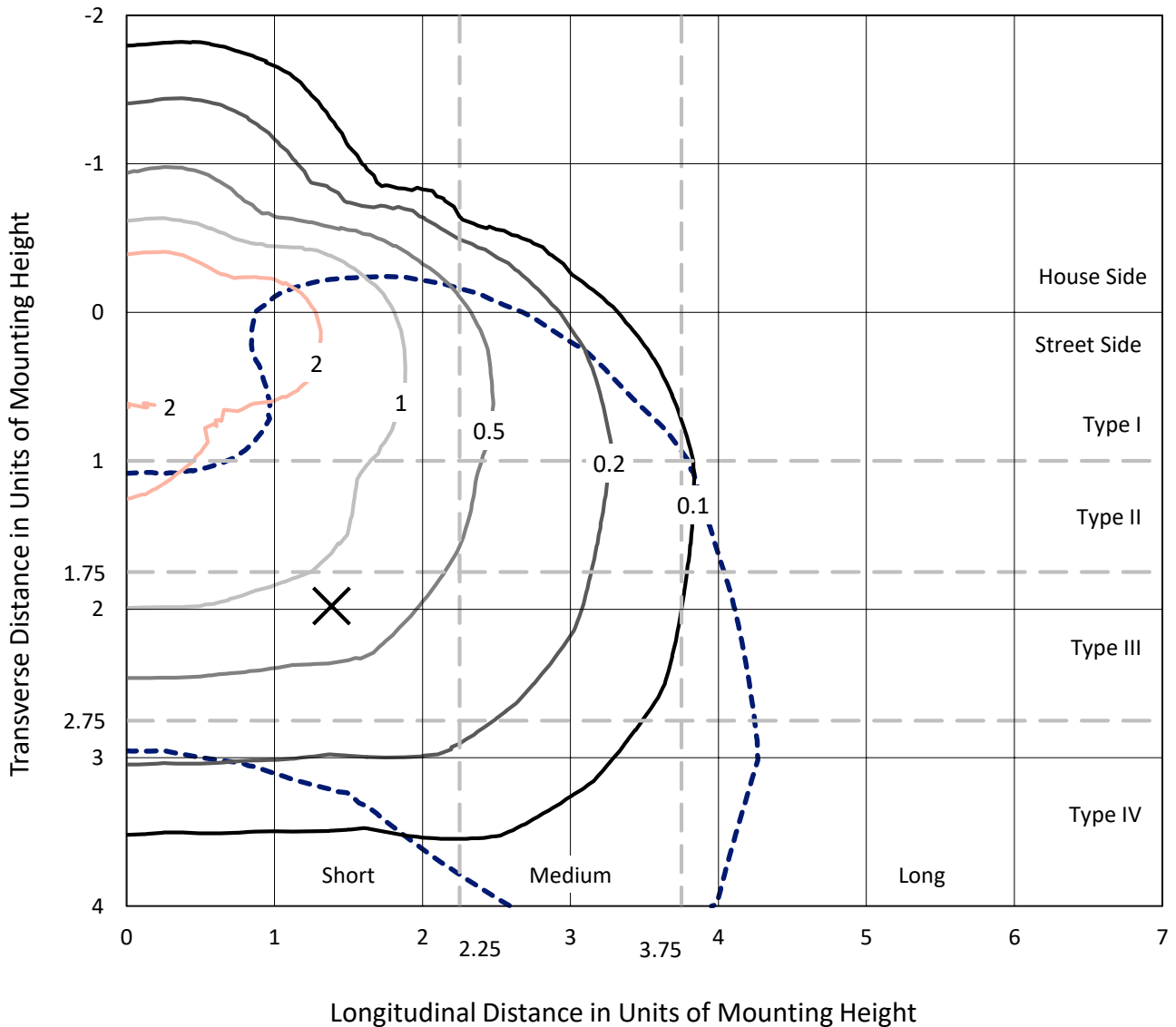
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

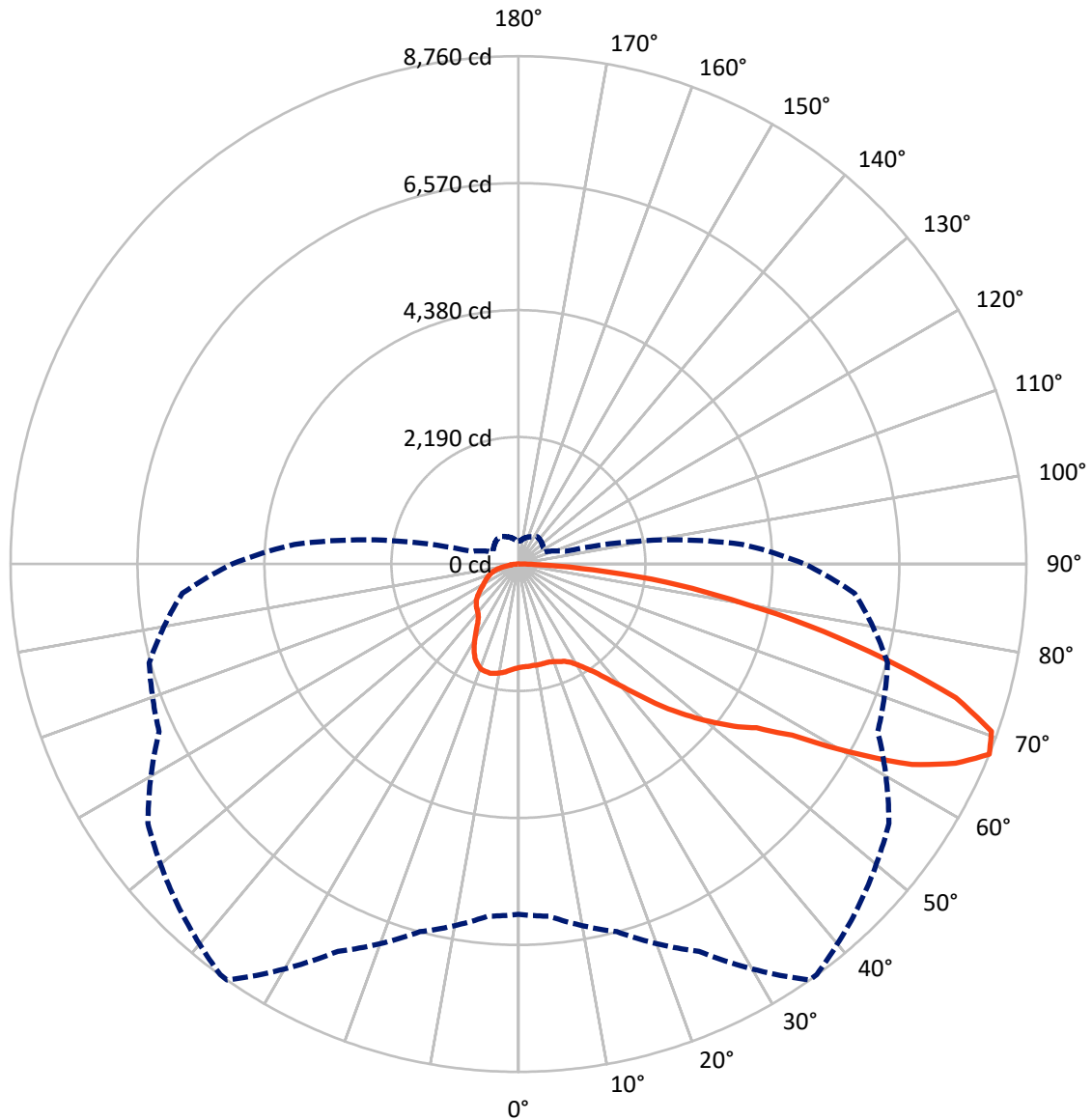
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3540.4	0.0	3540.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11999.6	0.0	11999.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	15540.0	0.0	15540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.1
10°-20°	530.1	3.4
20°-30°	884.7	5.7
30°-40°	1361.2	8.8
40°-50°	2243.2	14.4
50°-60°	3204.0	20.6
60°-70°	3989.2	25.7
70°-80°	2692.1	17.3
80°-90°	462.7	3.0
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°	15540.0	100.0
0°-180°	15540.0	100.0

Coefficient of Utilization



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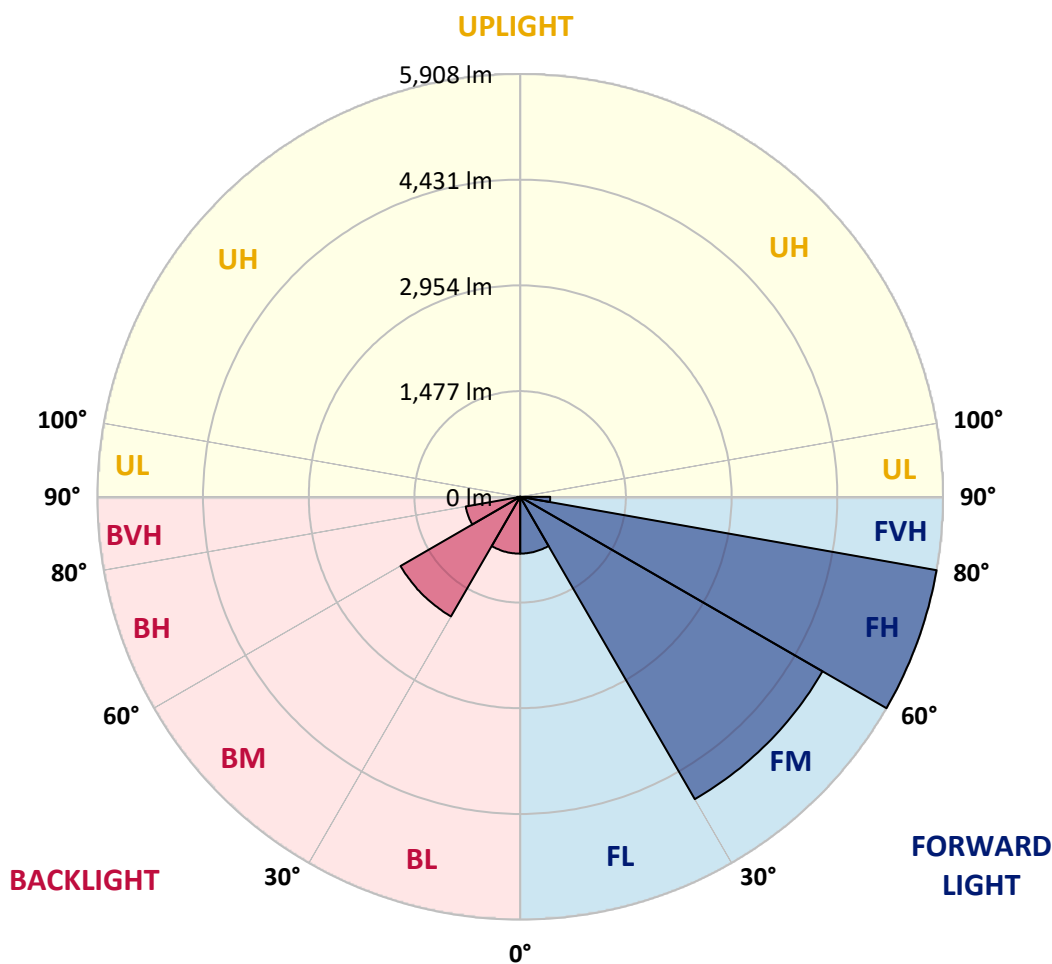
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.0	5.1			
FM (30°-60°)	4878.2	31.4			
FH (60°-80°)	5908.4	38.0			G3/7500
FVH (80°-90°)	420.0	2.7			G3/500
BL (0°-30°)	794.6	5.1	B2/1000		
BM (30°-60°)	1930.2	12.4	B2/2500		
BH (60°-80°)	772.8	5.0	B2/1000		G2/1000
BVH (80°-90°)	42.7	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°	36°	45°	55°	65°	75°	85°
0°	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7
2.5°	1760.6	1777.4	1775.7	1772.3	1774.0	1775.7	1767.3	1762.3	1769.0	1770.7	1779.0
5°	1758.9	1772.3	1770.7	1770.7	1775.7	1774.0	1760.6	1750.6	1762.3	1770.7	1779.0
7.5°	1757.3	1769.0	1769.0	1764.0	1767.3	1767.3	1760.6	1767.3	1767.3	1780.7	1790.8
10°	1755.6	1765.6	1765.6	1767.3	1772.3	1774.0	1774.0	1779.0	1797.5	1802.5	1822.6
12.5°	1735.5	1743.9	1750.6	1760.6	1770.7	1774.0	1782.4	1797.5	1820.9	1832.7	1856.1
15°	1718.7	1730.5	1742.2	1752.2	1767.3	1770.7	1789.1	1814.2	1839.4	1864.5	1899.7
17.5°	1725.4	1740.5	1753.9	1762.3	1774.0	1777.4	1795.8	1829.3	1869.5	1906.4	1954.9
20°	1740.5	1757.3	1770.7	1780.7	1795.8	1799.1	1814.2	1846.1	1898.0	1954.9	2010.2
22.5°	1777.4	1789.1	1804.2	1809.2	1825.9	1829.3	1839.4	1871.2	1938.2	2010.2	2080.6
25°	1810.9	1824.3	1836.0	1841.0	1859.5	1862.8	1881.2	1908.0	1986.8	2068.9	2171.0
27.5°	1854.4	1867.8	1882.9	1887.9	1919.8	1923.1	1931.5	1971.7	2050.4	2145.9	2273.2
30°	1938.2	1946.6	1963.3	1983.4	2015.2	2018.6	2037.0	2078.9	2135.9	2253.1	2422.3
32.5°	2065.5	2077.2	2070.5	2097.3	2144.2	2144.2	2207.9	2278.2	2348.6	2430.7	2655.2
35°	2310.1	2303.4	2296.7	2273.2	2301.7	2311.8	2400.5	2519.5	2715.5	2946.6	3167.8
37.5°	2613.3	2611.6	2576.4	2522.8	2521.2	2524.5	2604.9	2805.9	3117.5	3631.8	3869.7
40°	3079.0	3092.4	2968.4	2857.9	2795.9	2782.5	2846.1	3099.1	3517.9	4203.0	4365.5
42.5°	3544.7	3516.2	3415.7	3236.5	3132.6	3124.2	3135.9	3357.1	3906.5	4665.4	4724.0
45°	3956.8	3978.6	3821.1	3712.2	3521.2	3524.6	3472.7	3675.4	4291.8	4992.0	5002.1
47.5°	4377.3	4394.0	4198.0	4074.0	3891.5	3891.5	3809.4	3970.2	4635.2	5303.6	5283.5
50°	4826.2	4864.7	4618.5	4430.9	4263.3	4256.6	4231.5	4332.0	4973.6	5566.6	5486.2
52.5°	5432.6	5300.3	5067.4	4812.8	4647.0	4626.9	4603.4	4675.4	5362.3	5781.1	5616.9
55°	6059.1	5879.9	5642.0	5300.3	4987.0	5015.5	4956.9	5039.0	5719.1	6037.4	5787.8
57.5°	6439.4	6506.4	6377.4	6084.3	5568.3	5563.3	5342.2	5385.7	6039.0	6253.5	5968.7
60°	6839.8	6933.6	7020.7	6846.5	6601.9	6491.3	5923.4	5754.3	6399.2	6410.9	5948.6
62.5°	7049.2	7030.7	7409.3	7429.4	7618.7	7632.1	7077.6	6231.7	6611.9	6543.3	6018.9
65°	6675.6	6685.7	7308.8	7633.8	8285.5	8324.0	8121.3	7070.9	6791.2	6605.2	5938.5
67.5°	6042.4	6099.3	6566.7	7370.8	8759.5	8752.8	8313.9	7801.3	6838.1	6591.8	5821.3
70°	4941.8	5002.1	5481.2	6648.8	8655.7	8600.4	8231.8	7860.0	6797.9	6471.2	5236.6
72.5°	3790.9	3782.6	4278.4	5310.3	7891.8	7945.4	7811.4	7446.2	6605.2	5955.3	4290.1
75°	2671.9	2630.0	3070.6	4025.5	6508.1	6705.8	7163.1	7062.6	5876.5	4901.6	2867.9
77.5°	1753.9	1817.6	2169.4	2976.8	5117.7	5283.5	5915.1	5715.7	4348.8	3127.6	1035.3
80°	1114.0	1171.0	1455.7	2125.8	3720.6	3796.0	4311.9	3635.1	2323.5	1031.9	144.1
82.5°	676.8	685.1	938.1	1437.3	2566.4	2566.4	2715.5	2032.0	909.6	134.0	93.8
85°	360.2	380.3	505.9	775.6	1293.2	1390.4	1231.3	775.6	175.9	73.7	57.0
87.5°	113.9	115.6	165.8	299.9	278.1	286.5	95.5	40.2	20.1	13.4	11.7
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°	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7
2.5°	1782.4	1784.1	1794.1	1799.1	1800.8	1795.8	1807.5	1824.3	1819.2	1837.7	1831.0
5°	1782.4	1790.8	1804.2	1802.5	1815.9	1822.6	1836.0	1852.8	1847.7	1874.5	1864.5
7.5°	1795.8	1809.2	1819.2	1839.4	1849.4	1846.1	1876.2	1889.6	1882.9	1903.0	1893.0
10°	1829.3	1844.4	1857.8	1879.6	1894.6	1887.9	1904.7	1913.1	1901.3	1921.4	1916.4
12.5°	1867.8	1884.6	1911.4	1926.5	1938.2	1926.5	1926.5	1921.4	1904.7	1923.1	1911.4
15°	1911.4	1933.2	1970.0	1986.8	1983.4	1963.3	1944.9	1909.7	1864.5	1872.9	1856.1
17.5°	1970.0	1996.8	2038.7	2048.7	2035.3	1986.8	1938.2	1874.5	1794.1	1774.0	1760.6
20°	2033.7	2063.8	2122.5	2117.4	2087.3	2001.8	1924.8	1825.9	1700.3	1643.4	1616.6
22.5°	2120.8	2150.9	2206.2	2176.1	2114.1	2001.8	1871.2	1733.8	1584.7	1501.0	1482.5
25°	2216.3	2258.1	2281.6	2214.6	2107.4	1956.6	1799.1	1618.2	1427.3	1336.8	1318.4
27.5°	2333.5	2362.0	2338.6	2219.6	2073.9	1881.2	1681.9	1464.1	1281.5	1204.5	1177.7
30°	2470.9	2474.2	2382.1	2209.6	1998.5	1774.0	1537.8	1308.3	1167.6	1095.6	1078.8
32.5°	2653.5	2620.0	2420.6	2162.7	1896.3	1626.6	1377.0	1204.5	1087.2	996.7	973.3
35°	3129.2	2976.8	2506.1	2109.1	1772.3	1462.4	1238.0	1110.6	1011.8	909.6	891.2
37.5°	3745.7	3476.0	2656.8	2053.8	1631.6	1311.7	1145.8	1055.4	971.6	857.7	832.6
40°	4208.1	3896.5	2889.7	1993.5	1502.6	1204.5	1095.6	1033.6	941.5	837.6	810.8
42.5°	4561.5	4246.6	3129.2	1926.5	1382.0	1120.7	1060.4	1018.5	929.7	832.6	810.8
45°	4806.1	4491.2	3335.3	1847.7	1227.9	1048.7	1033.6	993.4	907.9	814.1	792.4
47.5°	5054.0	4663.7	3450.9	1765.6	1098.9	1008.5	995.1	949.8	871.1	782.3	765.6
50°	5270.1	4859.7	3549.7	1681.9	996.7	959.9	951.5	891.2	815.8	732.1	710.3
52.5°	5332.1	4906.6	3509.5	1676.9	904.6	907.9	891.2	842.6	772.3	681.8	660.0
55°	5472.8	5037.3	3412.3	1522.7	815.8	827.5	824.2	799.1	733.7	650.0	633.2
57.5°	5533.1	4938.4	3271.6	1132.4	723.7	733.7	762.2	762.2	705.3	629.9	614.8
60°	5524.8	4941.8	3020.4	792.4	633.2	660.0	700.2	700.2	655.0	581.3	562.9
62.5°	5461.1	4814.5	2603.2	604.7	576.3	614.8	661.7	631.5	591.3	509.3	495.9
65°	5355.6	4464.4	1804.2	531.0	544.4	589.7	613.1	576.3	527.7	454.0	445.6
67.5°	4933.4	3878.0	839.3	485.8	517.6	552.8	572.9	521.0	470.7	403.7	393.7
70°	4199.7	2837.8	361.8	450.6	485.8	510.9	531.0	477.4	423.8	365.2	361.8
72.5°	3053.9	1514.4	301.5	395.3	432.2	459.0	484.1	430.5	378.6	309.9	309.9
75°	1470.8	251.3	259.7	328.3	361.8	415.4	427.2	351.8	293.2	236.2	231.2
77.5°	180.9	162.5	224.5	261.3	289.8	318.3	346.8	304.9	253.0	194.3	184.3
80°	113.9	113.9	177.6	182.6	197.7	227.8	254.6	237.9	199.3	112.2	103.9
82.5°	83.8	90.5	117.3	87.1	103.9	130.7	149.1	169.2	144.1	78.7	73.7
85°	53.6	58.6	55.3	43.6	57.0	87.1	118.9	117.3	97.2	58.6	55.3
87.5°	11.7	11.7	11.7	10.1	11.7	15.1	28.5	55.3	40.2	31.8	30.2
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)