

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: P509121

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

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509121
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-CA2-110-730-U-T4
Description: VERDEON 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: 15875 lumens
Efficiency: N/A
Efficacy: 139.7 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

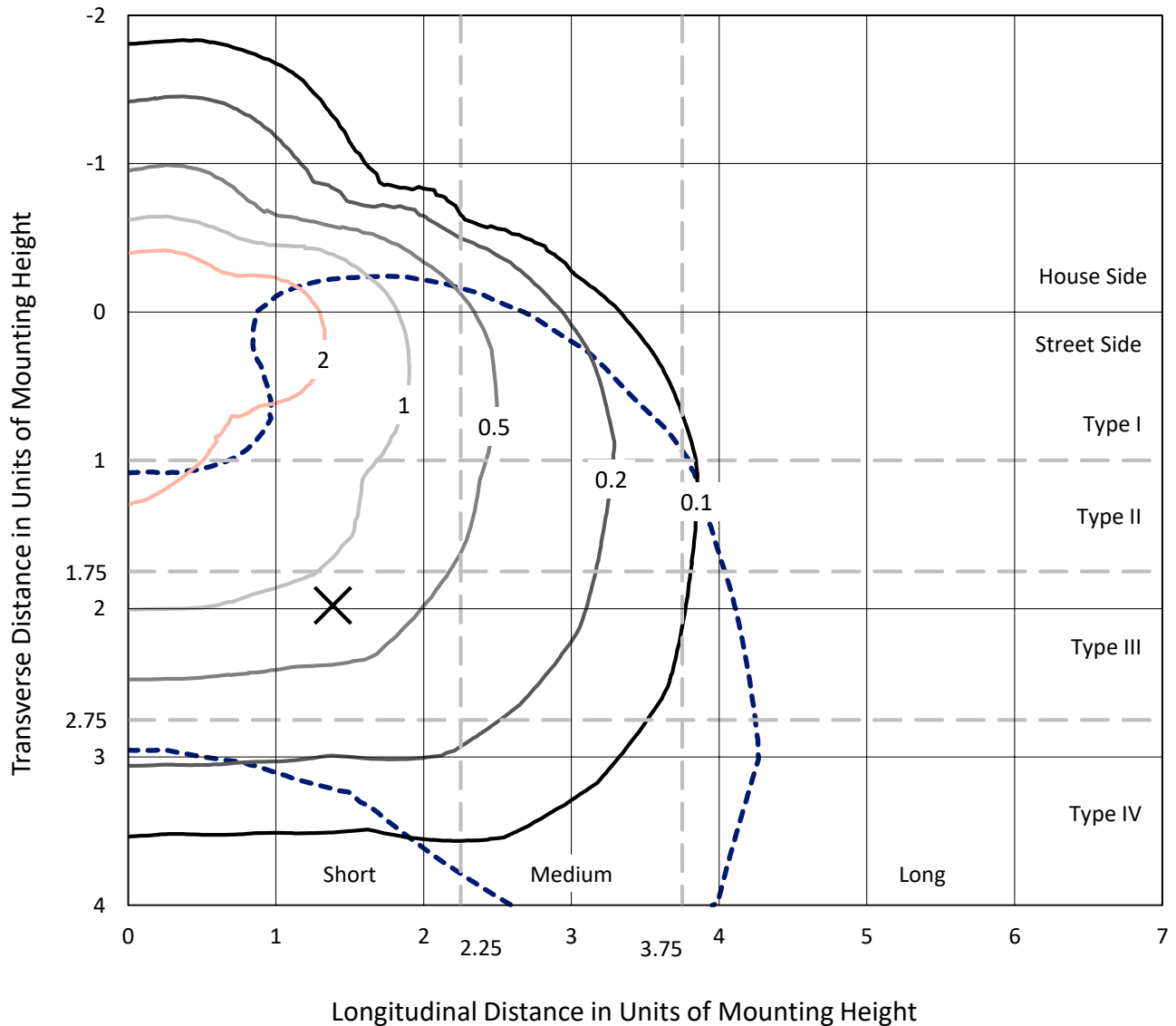
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

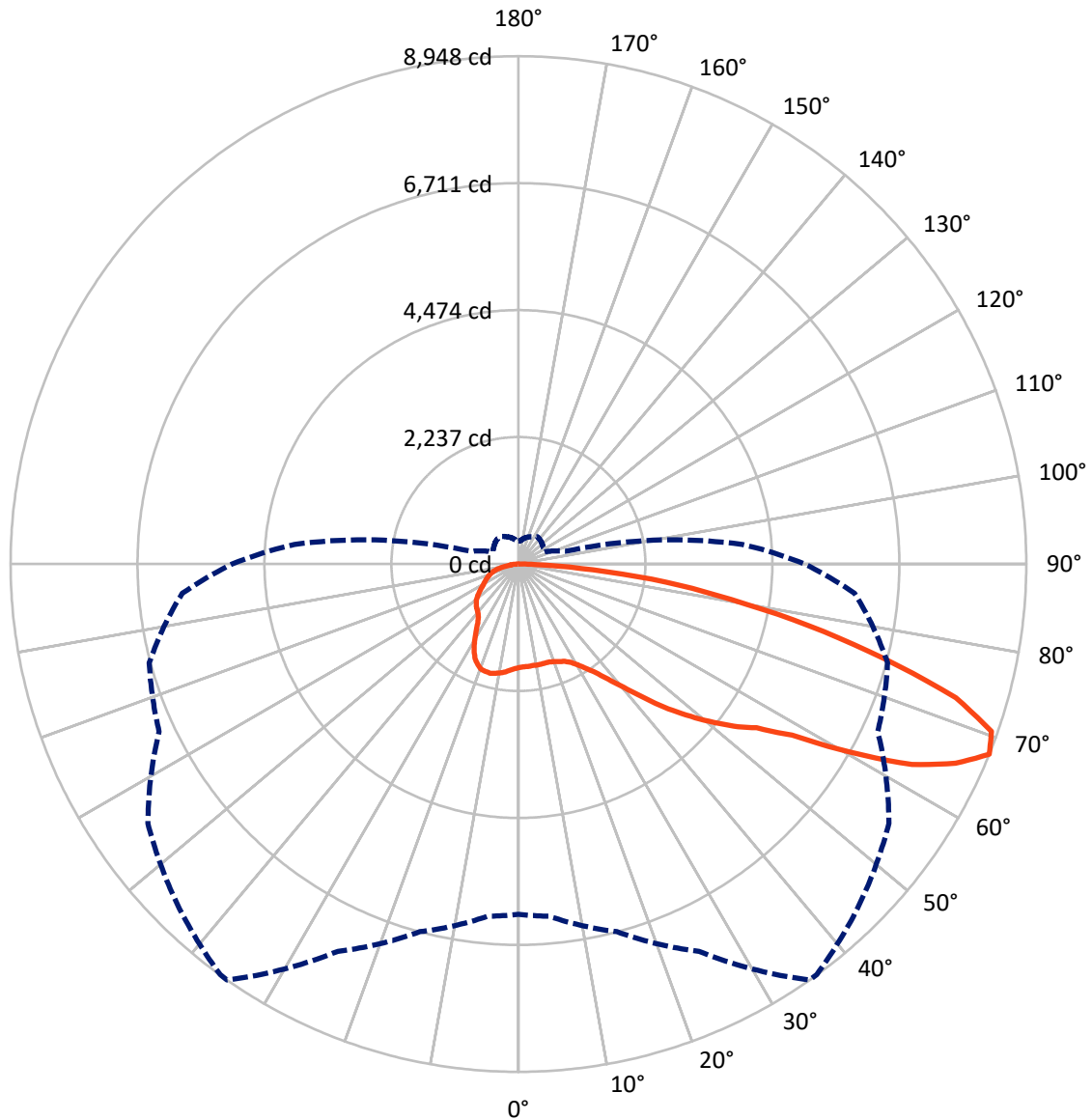
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3616.7	0.0	3616.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	12258.3	0.0	12258.3
	% Fixture	77.2	0.0	77.2
Total	Lumens	15875.0	0.0	15875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.1
10°-20°	541.5	3.4
20°-30°	903.8	5.7
30°-40°	1390.5	8.8
40°-50°	2291.6	14.4
50°-60°	3273.1	20.6
60°-70°	4075.2	25.7
70°-80°	2750.1	17.3
80°-90°	472.7	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°	15875.0	100.0
0°-180°	15875.0	100.0

Coefficient of Utilization



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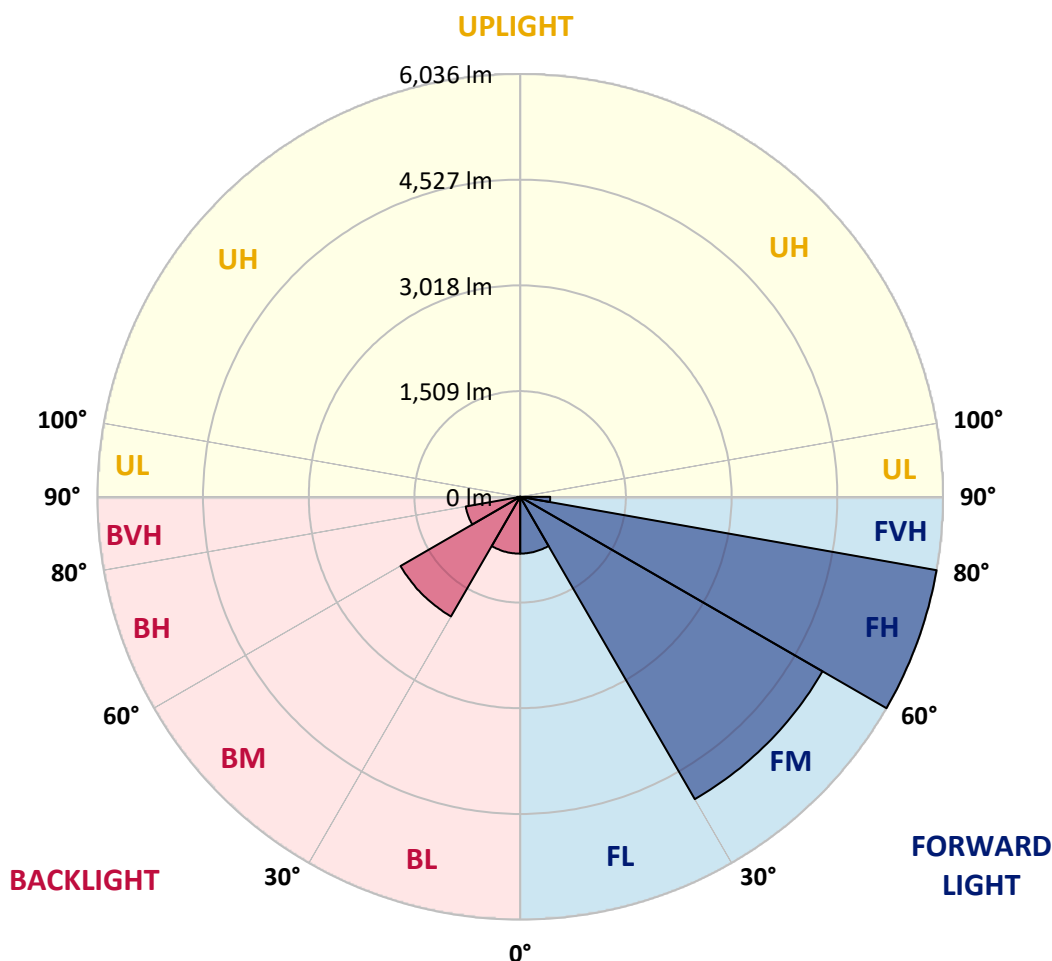
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.1	5.1			
FM (30°-60°)	4983.3	31.4			
FH (60°-80°)	6035.8	38.0			G3/7500
FVH (80°-90°)	429.1	2.7			G3/500
BL (0°-30°)	811.7	5.1	B2/1000		
BM (30°-60°)	1971.9	12.4	B2/2500		
BH (60°-80°)	789.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	43.6	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°	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	1798.6	1815.7	1814.0	1810.6	1812.3	1814.0	1805.4	1800.3	1807.1	1808.8	1817.4
5°	1796.9	1810.6	1808.8	1808.8	1814.0	1812.3	1798.6	1788.3	1800.3	1808.8	1817.4
7.5°	1795.1	1807.1	1807.1	1802.0	1805.4	1805.4	1798.6	1805.4	1805.4	1819.1	1829.4
10°	1793.4	1803.7	1803.7	1805.4	1810.6	1812.3	1812.3	1817.4	1836.2	1841.4	1861.9
12.5°	1772.9	1781.5	1788.3	1798.6	1808.8	1812.3	1820.8	1836.2	1860.2	1872.2	1896.1
15°	1755.8	1767.8	1779.7	1790.0	1805.4	1808.8	1827.7	1853.3	1879.0	1904.7	1940.6
17.5°	1762.6	1778.0	1791.7	1800.3	1812.3	1815.7	1834.5	1868.7	1909.8	1947.5	1997.1
20°	1778.0	1795.1	1808.8	1819.1	1834.5	1837.9	1853.3	1885.8	1938.9	1997.1	2053.6
22.5°	1815.7	1827.7	1843.1	1848.2	1865.3	1868.7	1879.0	1911.5	1980.0	2053.6	2125.4
25°	1849.9	1863.6	1875.6	1880.7	1899.5	1903.0	1921.8	1949.2	2029.6	2113.4	2217.8
27.5°	1894.4	1908.1	1923.5	1928.6	1961.1	1964.6	1973.1	2014.2	2094.6	2192.2	2322.2
30°	1980.0	1988.5	2005.6	2026.2	2058.7	2062.1	2080.9	2123.7	2181.9	2301.7	2474.5
32.5°	2110.0	2122.0	2115.2	2142.5	2190.5	2190.5	2255.5	2327.4	2399.2	2483.1	2712.4
35°	2359.9	2353.0	2346.2	2322.2	2351.3	2361.6	2452.3	2573.8	2774.0	3010.2	3236.1
37.5°	2669.6	2667.9	2632.0	2577.2	2575.5	2578.9	2661.1	2866.4	3184.7	3710.1	3953.1
40°	3145.4	3159.1	3032.4	2919.5	2856.2	2842.5	2907.5	3165.9	3593.7	4293.6	4459.6
42.5°	3621.1	3592.0	3489.3	3306.2	3200.1	3191.6	3203.5	3429.4	3990.7	4766.0	4825.9
45°	4042.1	4064.3	3903.5	3792.2	3597.1	3600.6	3547.5	3754.6	4384.3	5099.7	5109.9
47.5°	4471.6	4488.7	4288.5	4161.9	3975.3	3975.3	3891.5	4055.8	4735.2	5418.0	5397.4
50°	4930.2	4969.6	4718.0	4526.4	4355.2	4348.4	4322.7	4425.4	5080.8	5686.6	5604.5
52.5°	5549.7	5414.5	5176.7	4916.6	4747.1	4726.6	4702.6	4776.2	5477.9	5905.7	5738.0
55°	6189.8	6006.6	5763.6	5414.5	5094.5	5123.6	5063.7	5147.6	5842.4	6167.5	5912.5
57.5°	6578.2	6646.7	6514.9	6215.4	5688.3	5683.2	5457.3	5501.8	6169.2	6388.3	6097.3
60°	6987.2	7083.1	7172.0	6994.1	6744.2	6631.3	6051.1	5878.3	6537.1	6549.1	6076.8
62.5°	7201.1	7182.3	7569.1	7589.6	7783.0	7796.7	7230.2	6366.0	6754.5	6684.3	6148.7
65°	6819.5	6829.8	7466.4	7798.4	8464.1	8503.4	8296.4	7223.4	6937.6	6747.6	6066.5
67.5°	6172.6	6230.8	6708.3	7529.7	8948.4	8941.5	8493.2	7969.5	6985.5	6733.9	5946.8
70°	5048.3	5109.9	5599.4	6792.1	8842.3	8785.8	8409.3	8029.4	6944.4	6610.7	5349.5
72.5°	3872.7	3864.1	4370.6	5424.8	8061.9	8116.7	7979.8	7606.7	6747.6	6083.7	4382.6
75°	2729.5	2686.7	3136.8	4112.2	6648.4	6850.3	7317.5	7214.8	6003.2	5007.3	2929.7
77.5°	1791.7	1856.8	2216.1	3041.0	5228.0	5397.4	6042.6	5838.9	4442.5	3195.0	1057.6
80°	1138.0	1196.2	1487.1	2171.6	3800.8	3877.8	4404.9	3713.5	2373.6	1054.2	147.2
82.5°	691.4	699.9	958.3	1468.3	2621.7	2621.7	2774.0	2075.8	929.2	136.9	95.8
85°	367.9	388.5	516.8	792.3	1321.1	1420.4	1257.8	792.3	179.7	75.3	58.2
87.5°	116.4	118.1	169.4	306.3	284.1	292.6	97.5	41.1	20.5	13.7	12.0
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°	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	1820.8	1822.5	1832.8	1837.9	1839.6	1834.5	1846.5	1863.6	1858.5	1877.3	1870.4
5°	1820.8	1829.4	1843.1	1841.4	1855.0	1861.9	1875.6	1892.7	1887.6	1914.9	1904.7
7.5°	1834.5	1848.2	1858.5	1879.0	1889.3	1885.8	1916.7	1930.3	1923.5	1944.0	1933.8
10°	1868.7	1884.1	1897.8	1920.1	1935.5	1928.6	1945.7	1954.3	1942.3	1962.9	1957.7
12.5°	1908.1	1925.2	1952.6	1968.0	1980.0	1968.0	1968.0	1962.9	1945.7	1964.6	1952.6
15°	1952.6	1974.8	2012.5	2029.6	2026.2	2005.6	1986.8	1950.9	1904.7	1913.2	1896.1
17.5°	2012.5	2039.9	2082.6	2092.9	2079.2	2029.6	1980.0	1914.9	1832.8	1812.3	1798.6
20°	2077.5	2108.3	2168.2	2163.1	2132.3	2045.0	1966.3	1865.3	1737.0	1678.8	1651.4
22.5°	2166.5	2197.3	2253.8	2223.0	2159.7	2045.0	1911.5	1771.2	1618.9	1533.3	1514.5
25°	2264.0	2306.8	2330.8	2262.3	2152.8	1998.8	1837.9	1653.1	1458.0	1365.6	1346.8
27.5°	2383.8	2412.9	2389.0	2267.5	2118.6	1921.8	1718.1	1495.7	1309.1	1230.4	1203.0
30°	2524.2	2527.6	2433.5	2257.2	2041.6	1812.3	1571.0	1336.5	1192.8	1119.2	1102.1
32.5°	2710.7	2676.5	2472.8	2209.3	1937.2	1661.7	1406.7	1230.4	1110.6	1018.2	994.3
35°	3196.7	3041.0	2560.1	2154.5	1810.6	1494.0	1264.6	1134.6	1033.6	929.2	910.4
37.5°	3826.5	3550.9	2714.1	2098.0	1666.8	1339.9	1170.5	1078.1	992.6	876.2	850.5
40°	4298.8	3980.5	2952.0	2036.4	1535.0	1230.4	1119.2	1055.9	961.7	855.6	828.3
42.5°	4659.9	4338.1	3196.7	1968.0	1411.8	1144.9	1083.3	1040.5	949.8	850.5	828.3
45°	4909.7	4588.0	3407.2	1887.6	1254.4	1071.3	1055.9	1014.8	927.5	831.7	809.4
47.5°	5163.0	4764.2	3525.3	1803.7	1122.6	1030.2	1016.5	970.3	889.9	799.2	782.1
50°	5383.7	4964.5	3626.2	1718.1	1018.2	980.6	972.0	910.4	833.4	747.8	725.6
52.5°	5447.1	5012.4	3585.2	1713.0	924.1	927.5	910.4	860.8	788.9	696.5	674.3
55°	5590.8	5145.9	3485.9	1555.6	833.4	845.4	842.0	816.3	749.5	664.0	646.9
57.5°	5652.4	5044.9	3342.2	1156.8	739.3	749.5	778.6	778.6	720.5	643.4	628.0
60°	5643.9	5048.3	3085.5	809.4	646.9	674.3	715.3	715.3	669.1	593.8	575.0
62.5°	5578.8	4918.3	2659.4	617.8	588.7	628.0	676.0	645.2	604.1	520.2	506.5
65°	5471.0	4560.6	1843.1	542.5	556.2	602.4	626.3	588.7	539.1	463.8	455.2
67.5°	5039.8	3961.6	857.4	496.3	528.8	564.7	585.3	532.2	480.9	412.4	402.2
70°	4290.2	2898.9	369.6	460.3	496.3	521.9	542.5	487.7	433.0	373.1	369.6
72.5°	3119.7	1547.0	308.0	403.9	441.5	468.9	494.6	439.8	386.8	316.6	316.6
75°	1502.5	256.7	265.3	335.4	369.6	424.4	436.4	359.4	299.5	241.3	236.2
77.5°	184.8	166.0	229.3	267.0	296.1	325.1	354.2	311.5	258.4	198.5	188.2
80°	116.4	116.4	181.4	186.5	201.9	232.7	260.1	243.0	203.6	114.7	106.1
82.5°	85.6	92.4	119.8	89.0	106.1	133.5	152.3	172.8	147.2	80.4	75.3
85°	54.8	59.9	56.5	44.5	58.2	89.0	121.5	119.8	99.3	59.9	56.5
87.5°	12.0	12.0	12.0	10.3	12.0	15.4	29.1	56.5	41.1	32.5	30.8
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)