

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: P509145

Luminaire Tested: **VERD-CA2-110-760-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509145
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-CA2-110-760-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16115 lumens
Efficiency: N/A
Efficacy: 141.9 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

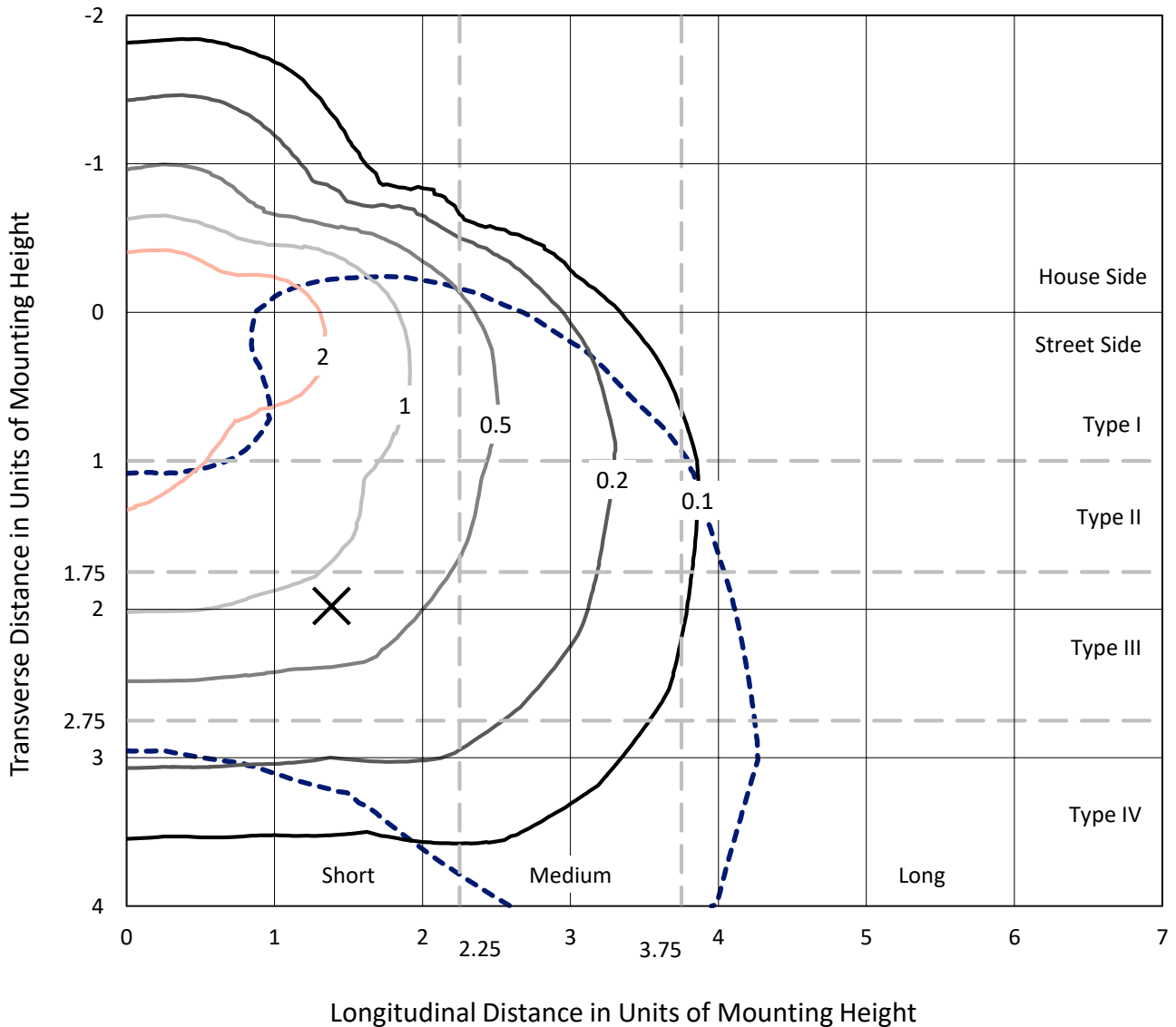
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

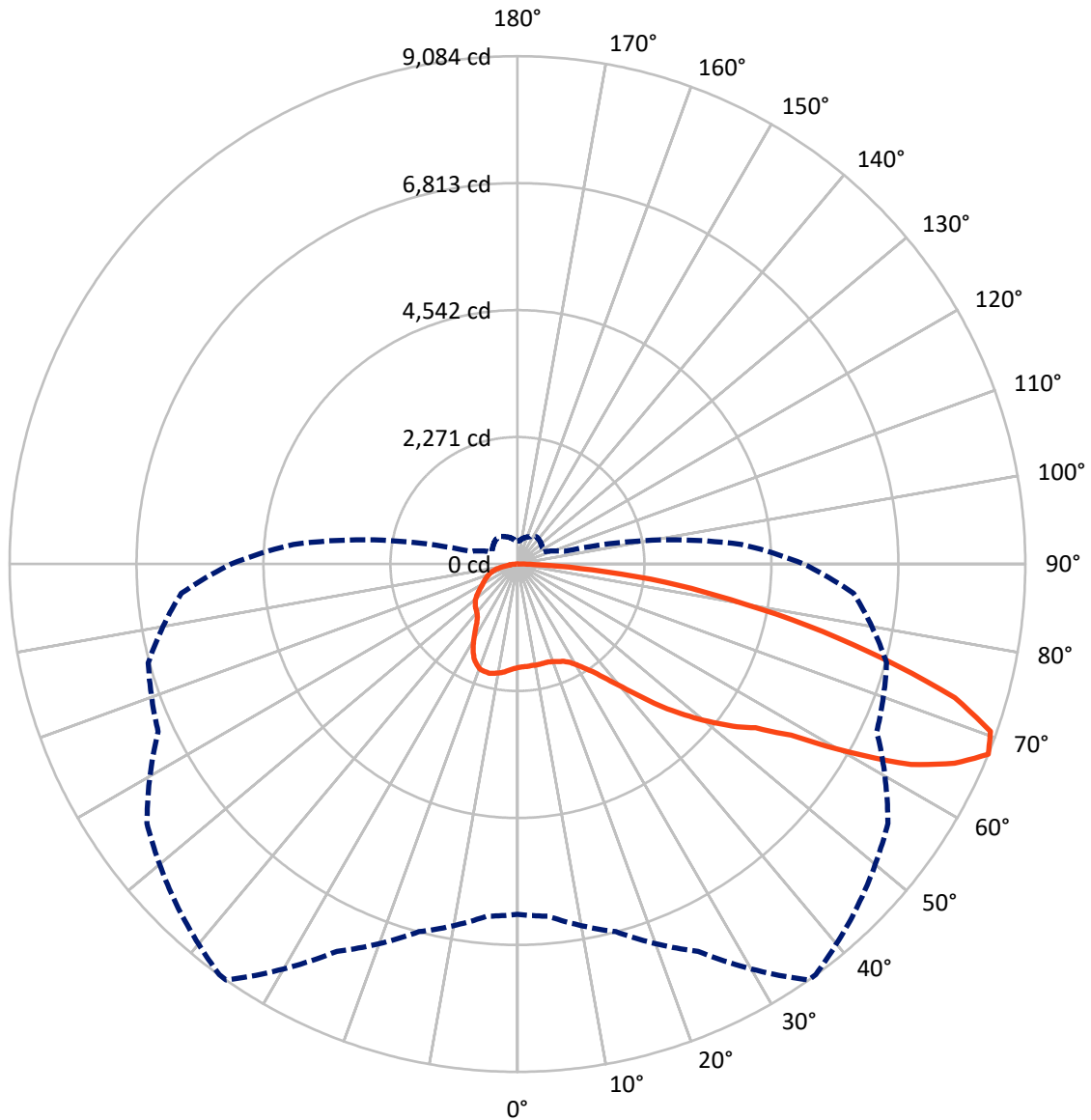
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	3671.4	0.0	3671.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	12443.6	0.0	12443.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	16115.0	0.0	16115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.1
10°-20°	549.7	3.4
20°-30°	917.4	5.7
30°-40°	1411.6	8.8
40°-50°	2326.2	14.4
50°-60°	3322.6	20.6
60°-70°	4136.8	25.7
70°-80°	2791.7	17.3
80°-90°	479.9	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°	16115.0	100.0
0°-180°	16115.0	100.0

Coefficient of Utilization



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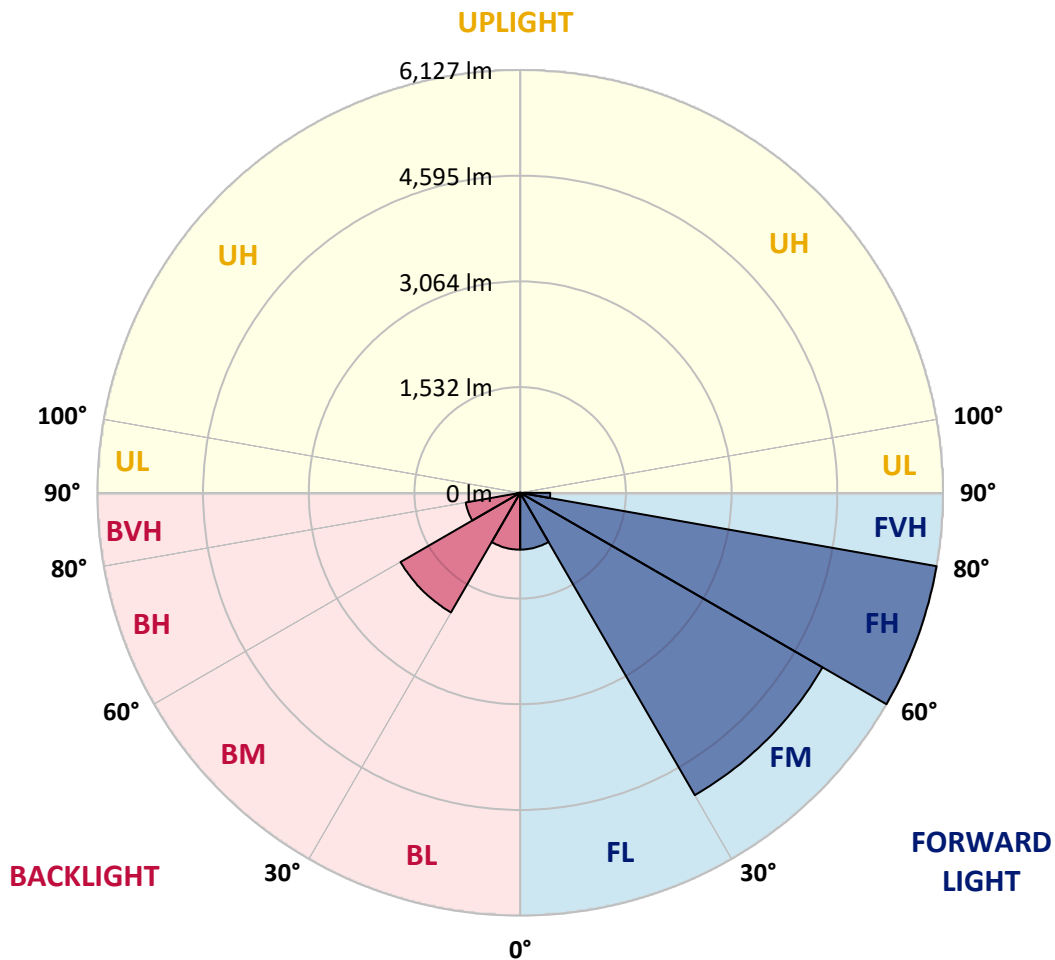
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.4	5.1			
FM	(30°-60°)	5058.7	31.4			
FH	(60°-80°)	6127.0	38.0			G3/7500
FVH	(80°-90°)	435.6	2.7			G3/500
BL	(0°-30°)	824.0	5.1	B2/1000		
BM	(30°-60°)	2001.7	12.4	B2/2500		
BH	(60°-80°)	801.4	5.0	B2/1000		G2/1000
BVH	(80°-90°)	44.3	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°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1825.8	1843.1	1841.4	1837.9	1839.7	1841.4	1832.7	1827.5	1834.4	1836.2	1844.9
5°	1824.0	1837.9	1836.2	1836.2	1841.4	1839.7	1825.8	1815.3	1827.5	1836.2	1844.9
7.5°	1822.3	1834.4	1834.4	1829.2	1832.7	1832.7	1825.8	1832.7	1832.7	1846.6	1857.0
10°	1820.6	1831.0	1831.0	1832.7	1837.9	1839.7	1839.7	1844.9	1864.0	1869.2	1890.0
12.5°	1799.7	1808.4	1815.3	1825.8	1836.2	1839.7	1848.3	1864.0	1888.3	1900.5	1924.8
15°	1782.3	1794.5	1806.7	1817.1	1832.7	1836.2	1855.3	1881.4	1907.4	1933.5	1969.9
17.5°	1789.3	1804.9	1818.8	1827.5	1839.7	1843.1	1862.2	1897.0	1938.7	1976.9	2027.3
20°	1804.9	1822.3	1836.2	1846.6	1862.2	1865.7	1881.4	1914.4	1968.2	2027.3	2084.6
22.5°	1843.1	1855.3	1870.9	1876.1	1893.5	1897.0	1907.4	1940.4	2009.9	2084.6	2157.6
25°	1877.9	1891.8	1903.9	1909.1	1928.3	1931.7	1950.8	1978.6	2060.3	2145.4	2251.4
27.5°	1923.0	1936.9	1952.6	1957.8	1990.8	1994.3	2003.0	2044.6	2126.3	2225.3	2357.3
30°	2009.9	2018.6	2036.0	2056.8	2089.8	2093.3	2112.4	2155.8	2214.9	2336.5	2511.9
32.5°	2141.9	2154.1	2147.1	2174.9	2223.6	2223.6	2289.6	2362.5	2435.5	2520.6	2753.4
35°	2395.6	2388.6	2381.7	2357.3	2386.9	2397.3	2489.4	2612.7	2815.9	3055.7	3285.0
37.5°	2710.0	2708.2	2671.8	2616.2	2614.4	2617.9	2701.3	2909.8	3232.9	3766.2	4012.9
40°	3192.9	3206.8	3078.3	2963.6	2899.3	2885.4	2951.4	3213.8	3648.1	4358.6	4527.1
42.5°	3675.8	3646.3	3542.1	3356.2	3248.5	3239.8	3252.0	3481.3	4051.1	4838.0	4898.8
45°	4103.2	4125.8	3962.5	3849.6	3651.5	3655.0	3601.1	3811.3	4450.6	5176.8	5187.2
47.5°	4539.2	4556.6	4353.3	4224.8	4035.4	4035.4	3950.3	4117.1	4806.7	5499.9	5479.0
50°	5004.8	5044.7	4789.4	4594.8	4421.1	4414.1	4388.1	4492.3	5157.6	5772.6	5689.2
52.5°	5633.6	5496.4	5254.9	4990.9	4818.9	4798.1	4773.7	4848.4	5560.7	5995.0	5824.7
55°	6283.3	6097.5	5850.8	5496.4	5171.5	5201.1	5140.3	5225.4	5930.7	6260.8	6001.9
57.5°	6677.7	6747.2	6613.4	6309.4	5774.3	5769.1	5539.8	5585.0	6262.5	6484.8	6189.5
60°	7092.9	7190.1	7280.5	7099.8	6846.2	6731.5	6142.6	5967.2	6636.0	6648.1	6168.7
62.5°	7310.0	7290.9	7683.5	7704.3	7900.6	7914.5	7339.5	6462.3	6856.6	6785.4	6241.6
65°	6922.6	6933.0	7579.3	7916.3	8592.0	8632.0	8421.8	7332.6	7042.5	6849.6	6158.3
67.5°	6266.0	6325.0	6809.7	7643.5	9083.6	9076.7	8621.6	8090.0	7091.1	6835.8	6036.7
70°	5124.6	5187.2	5684.0	6894.8	8975.9	8918.6	8536.4	8150.8	7049.4	6710.7	5430.4
72.5°	3931.2	3922.5	4436.7	5506.8	8183.8	8239.4	8100.4	7721.7	6849.6	6175.6	4448.9
75°	2770.8	2727.4	3184.2	4174.4	6748.9	6953.9	7428.1	7323.9	6094.0	5083.0	2974.0
77.5°	1818.8	1884.8	2249.6	3086.9	5307.0	5479.0	6133.9	5927.2	4509.7	3243.3	1073.6
80°	1155.2	1214.3	1509.6	2204.5	3858.2	3936.4	4471.5	3769.7	2409.5	1070.1	149.4
82.5°	701.8	710.5	972.8	1490.5	2661.3	2661.3	2815.9	2107.2	943.3	139.0	97.3
85°	373.5	394.3	524.6	804.3	1341.1	1441.8	1276.8	804.3	182.4	76.4	59.1
87.5°	118.1	119.9	172.0	311.0	288.4	297.1	99.0	41.7	20.8	13.9	12.2
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°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1848.3	1850.1	1860.5	1865.7	1867.5	1862.2	1874.4	1891.8	1886.6	1905.7	1898.7
5°	1848.3	1857.0	1870.9	1869.2	1883.1	1890.0	1903.9	1921.3	1916.1	1943.9	1933.5
7.5°	1862.2	1876.1	1886.6	1907.4	1917.8	1914.4	1945.6	1959.5	1952.6	1973.4	1963.0
10°	1897.0	1912.6	1926.5	1949.1	1964.7	1957.8	1975.2	1983.8	1971.7	1992.5	1987.3
12.5°	1936.9	1954.3	1982.1	1997.7	2009.9	1997.7	1997.7	1992.5	1975.2	1994.3	1982.1
15°	1982.1	2004.7	2042.9	2060.3	2056.8	2036.0	2016.9	1980.4	1933.5	1942.2	1924.8
17.5°	2042.9	2070.7	2114.1	2124.6	2110.7	2060.3	2009.9	1943.9	1860.5	1839.7	1825.8
20°	2108.9	2140.2	2201.0	2195.8	2164.5	2075.9	1996.0	1893.5	1763.2	1704.2	1676.4
22.5°	2199.3	2230.5	2287.8	2256.6	2192.3	2075.9	1940.4	1798.0	1643.4	1556.5	1537.4
25°	2298.3	2341.7	2366.0	2296.5	2185.4	2029.0	1865.7	1678.1	1480.1	1386.3	1367.2
27.5°	2419.9	2449.4	2425.1	2301.7	2150.6	1950.8	1744.1	1518.3	1328.9	1249.0	1221.2
30°	2562.3	2565.8	2470.3	2291.3	2072.4	1839.7	1594.7	1356.7	1210.8	1136.1	1118.7
32.5°	2751.7	2716.9	2510.2	2242.7	1966.5	1686.8	1428.0	1249.0	1127.4	1033.6	1009.3
35°	3245.0	3086.9	2598.8	2187.1	1837.9	1516.5	1283.8	1151.7	1049.2	943.3	924.2
37.5°	3884.3	3604.6	2755.1	2129.8	1692.0	1360.2	1188.2	1094.4	1007.6	889.4	863.4
40°	4363.8	4040.7	2996.6	2067.2	1558.2	1249.0	1136.1	1071.8	976.3	868.6	840.8
42.5°	4730.3	4403.7	3245.0	1997.7	1433.2	1162.2	1099.6	1056.2	964.1	863.4	840.8
45°	4983.9	4657.3	3458.7	1916.1	1273.3	1087.5	1071.8	1030.1	941.5	844.3	821.7
47.5°	5241.0	4836.3	3578.6	1831.0	1139.6	1045.8	1031.9	985.0	903.3	811.3	793.9
50°	5465.1	5039.5	3681.1	1744.1	1033.6	995.4	986.7	924.2	846.0	759.1	736.6
52.5°	5529.4	5088.2	3639.4	1738.9	938.1	941.5	924.2	873.8	800.8	707.0	684.4
55°	5675.3	5223.7	3538.6	1579.1	846.0	858.2	854.7	828.6	760.9	674.0	656.6
57.5°	5737.9	5121.2	3392.7	1174.3	750.5	760.9	790.4	790.4	731.3	653.2	637.5
60°	5729.2	5124.6	3132.1	821.7	656.6	684.4	726.1	726.1	679.2	602.8	583.7
62.5°	5663.2	4992.6	2699.6	627.1	597.6	637.5	686.2	654.9	613.2	528.1	514.2
65°	5553.7	4629.6	1870.9	550.7	564.6	611.5	635.8	597.6	547.2	470.8	462.1
67.5°	5116.0	4021.5	870.3	503.8	536.8	573.3	594.1	540.3	488.1	418.7	408.2
70°	4355.1	2942.8	375.2	467.3	503.8	529.8	550.7	495.1	439.5	378.7	375.2
72.5°	3166.9	1570.4	312.7	410.0	448.2	476.0	502.0	446.5	392.6	321.4	321.4
75°	1525.2	260.6	269.3	340.5	375.2	430.8	443.0	364.8	304.0	244.9	239.7
77.5°	187.6	168.5	232.8	271.0	300.5	330.1	359.6	316.2	262.3	201.5	191.1
80°	118.1	118.1	184.1	189.4	205.0	236.3	264.0	246.7	206.7	116.4	107.7
82.5°	86.9	93.8	121.6	90.3	107.7	135.5	154.6	175.5	149.4	81.6	76.4
85°	55.6	60.8	57.3	45.2	59.1	90.3	123.3	121.6	100.8	60.8	57.3
87.5°	12.2	12.2	12.2	10.4	12.2	15.6	29.5	57.3	41.7	33.0	31.3
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)