

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: P509137

Luminaire Tested: **VERD-CA2-110-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509137
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-CA2-110-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16464 lumens
Efficiency: N/A
Efficacy: 144.9 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

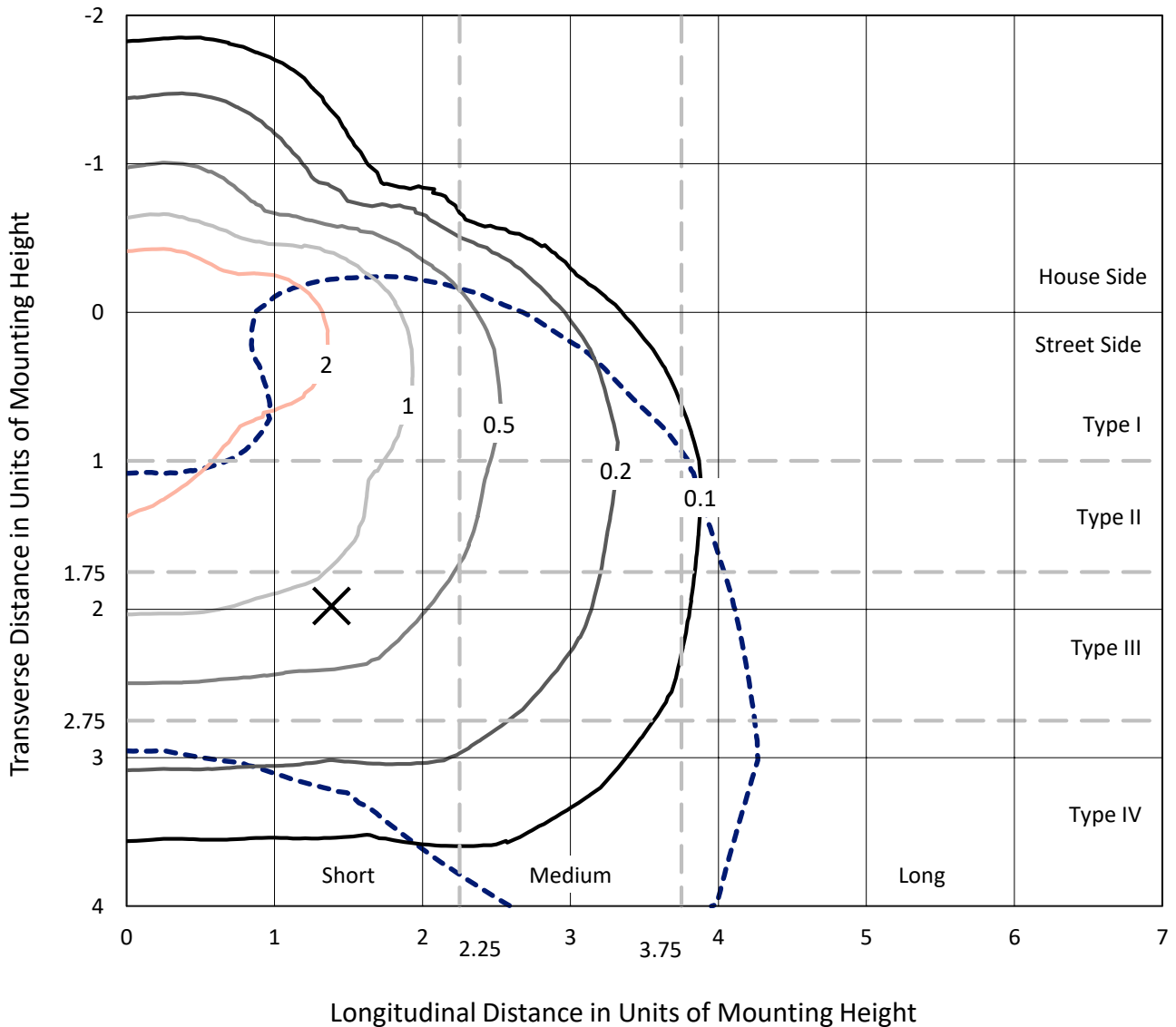
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

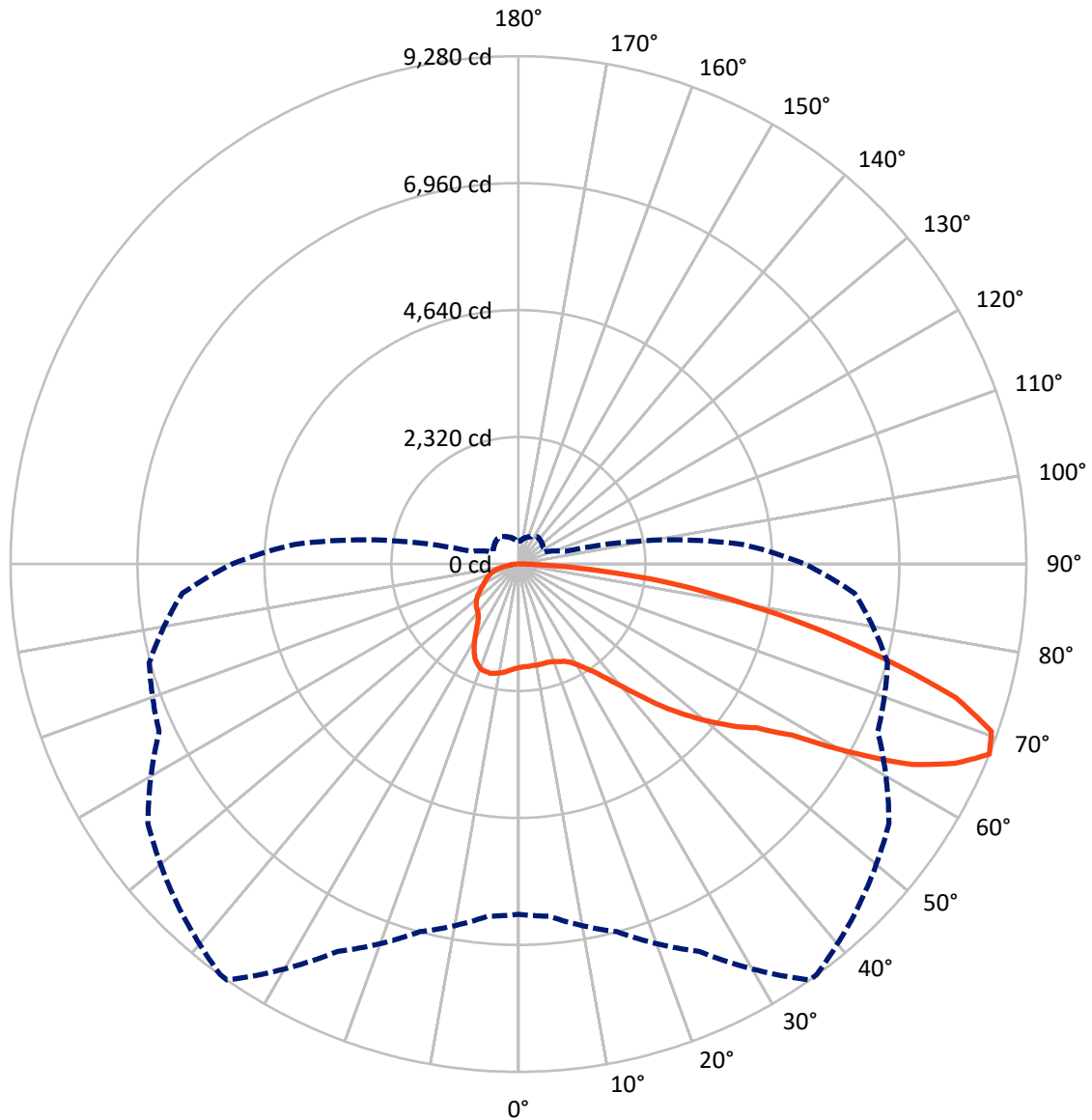
✕ Max cd
 - - - 1/2 Max cd



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	3750.9	0.0	3750.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	12713.1	0.0	12713.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	16464.0	0.0	16464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	1.1
10°-20°	561.6	3.4
20°-30°	937.3	5.7
30°-40°	1442.1	8.8
40°-50°	2376.6	14.4
50°-60°	3394.5	20.6
60°-70°	4226.4	25.7
70°-80°	2852.1	17.3
80°-90°	490.2	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°	16464.0	100.0
0°-180°	16464.0	100.0

Coefficient of Utilization



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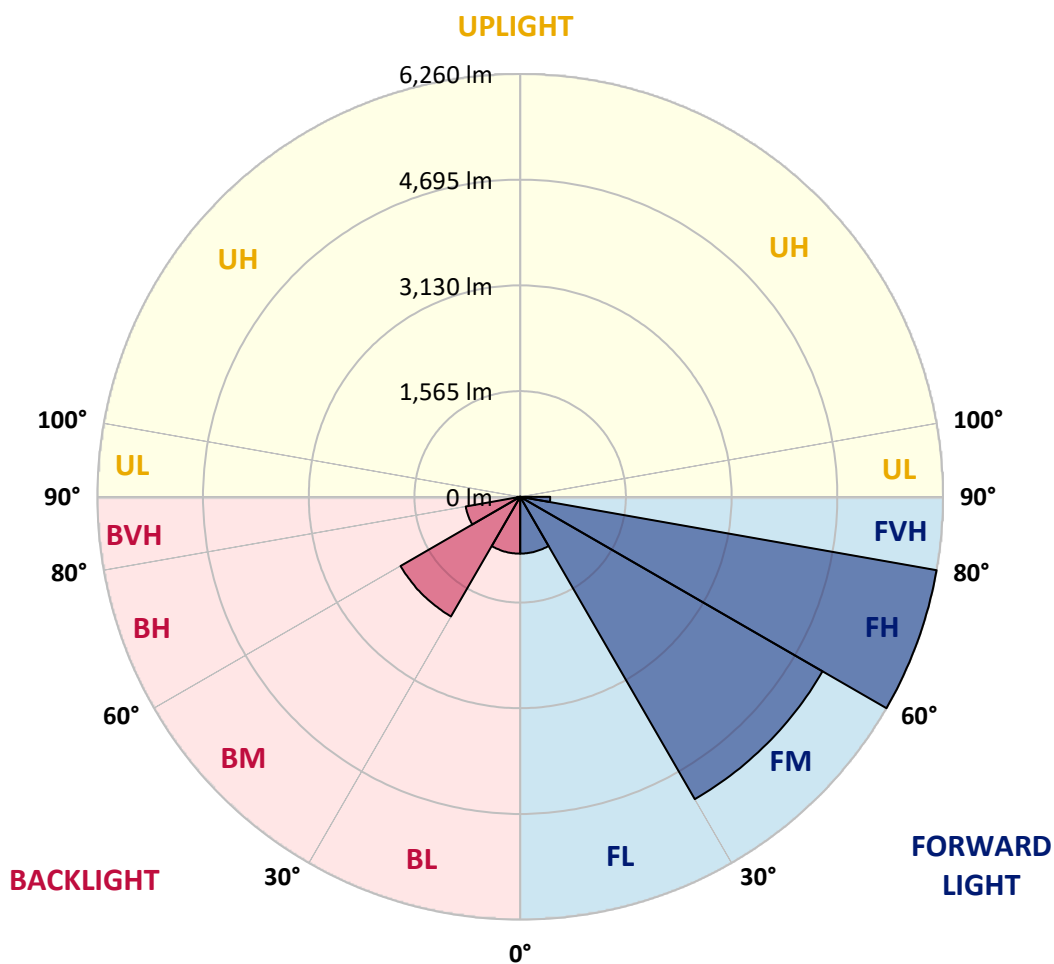
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.2	5.1			
FM	(30°-60°)	5168.2	31.4			
FH	(60°-80°)	6259.7	38.0			G3/7500
FVH	(80°-90°)	445.0	2.7			G3/500
BL	(0°-30°)	841.8	5.1	B2/1000		
BM	(30°-60°)	2045.0	12.4	B2/2500		
BH	(60°-80°)	818.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	45.2	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°	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9
2.5°	1865.3	1883.1	1881.3	1877.7	1879.5	1881.3	1872.4	1867.1	1874.2	1876.0	1884.8
5°	1863.5	1877.7	1876.0	1876.0	1881.3	1879.5	1865.3	1854.7	1867.1	1876.0	1884.8
7.5°	1861.8	1874.2	1874.2	1868.9	1872.4	1872.4	1865.3	1872.4	1872.4	1886.6	1897.2
10°	1860.0	1870.6	1870.6	1872.4	1877.7	1879.5	1879.5	1884.8	1904.3	1909.7	1931.0
12.5°	1838.7	1847.6	1854.7	1865.3	1876.0	1879.5	1888.4	1904.3	1929.2	1941.6	1966.5
15°	1820.9	1833.4	1845.8	1856.4	1872.4	1876.0	1895.5	1922.1	1948.7	1975.3	2012.6
17.5°	1828.0	1844.0	1858.2	1867.1	1879.5	1883.1	1902.6	1938.1	1980.7	2019.7	2071.2
20°	1844.0	1861.8	1876.0	1886.6	1902.6	1906.1	1922.1	1955.8	2010.8	2071.2	2129.7
22.5°	1883.1	1895.5	1911.4	1916.8	1934.5	1938.1	1948.7	1982.4	2053.4	2129.7	2204.3
25°	1918.5	1932.7	1945.2	1950.5	1970.0	1973.6	1993.1	2021.5	2104.9	2191.9	2300.1
27.5°	1964.7	1978.9	1994.9	2000.2	2033.9	2037.5	2046.3	2088.9	2172.3	2273.5	2408.4
30°	2053.4	2062.3	2080.1	2101.3	2135.1	2138.6	2158.1	2202.5	2262.9	2387.1	2566.3
32.5°	2188.3	2200.7	2193.6	2222.0	2271.7	2271.7	2339.2	2413.7	2488.3	2575.2	2813.0
35°	2447.4	2440.3	2433.2	2408.4	2438.6	2449.2	2543.3	2669.3	2876.9	3121.9	3356.1
37.5°	2768.7	2766.9	2729.6	2672.8	2671.1	2674.6	2759.8	2972.8	3302.9	3847.7	4099.8
40°	3262.1	3276.3	3144.9	3027.8	2962.1	2947.9	3015.4	3283.4	3727.1	4452.9	4625.1
42.5°	3755.5	3725.3	3618.8	3428.9	3318.9	3310.0	3322.4	3556.7	4138.8	4942.8	5004.9
45°	4192.1	4215.1	4048.3	3932.9	3730.6	3734.2	3679.1	3893.9	4547.0	5288.9	5299.5
47.5°	4637.5	4655.3	4447.6	4316.3	4122.8	4122.8	4035.9	4206.2	4910.8	5619.0	5597.7
50°	5113.2	5154.0	4893.1	4694.3	4516.8	4509.7	4483.1	4589.6	5269.3	5897.6	5812.4
52.5°	5755.6	5615.4	5368.7	5099.0	4923.3	4902.0	4877.1	4953.4	5681.1	6124.8	5950.9
55°	6419.4	6229.5	5977.5	5615.4	5283.5	5313.7	5251.6	5338.6	6059.1	6396.3	6131.9
57.5°	6822.3	6893.3	6756.6	6446.0	5899.4	5894.1	5659.8	5705.9	6398.1	6625.3	6323.6
60°	7246.5	7345.9	7438.1	7253.6	6994.4	6877.3	6275.7	6096.4	6779.7	6792.1	6302.3
62.5°	7468.3	7448.8	7849.9	7871.2	8071.7	8085.9	7498.5	6602.2	7005.1	6932.3	6376.8
65°	7072.5	7083.2	7743.4	8087.7	8778.1	8818.9	8604.2	7491.4	7195.0	6998.0	6291.6
67.5°	6401.7	6462.0	6957.2	7809.1	9280.4	9273.3	8808.3	8265.2	7244.7	6983.8	6167.4
70°	5235.6	5299.5	5807.1	7044.1	9170.3	9111.8	8721.3	8327.3	7202.1	6856.0	5548.0
72.5°	4016.3	4007.5	4532.8	5626.1	8361.0	8417.8	8275.8	7888.9	6998.0	6309.4	4545.2
75°	2830.8	2786.4	3253.2	4264.8	6895.1	7104.5	7589.0	7482.5	6226.0	5193.0	3038.4
77.5°	1858.2	1925.6	2298.4	3153.8	5422.0	5597.7	6266.8	6055.6	4607.4	3313.5	1096.8
80°	1180.2	1240.6	1542.3	2252.2	3941.8	4021.7	4568.3	3851.3	2461.6	1093.3	152.6
82.5°	717.0	725.9	993.9	1522.8	2719.0	2719.0	2876.9	2152.8	963.7	142.0	99.4
85°	381.6	402.9	536.0	821.7	1370.1	1473.1	1304.5	821.7	186.4	78.1	60.3
87.5°	120.7	122.5	175.7	317.7	294.6	303.5	101.2	42.6	21.3	14.2	12.4
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°	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9
2.5°	1888.4	1890.1	1900.8	1906.1	1907.9	1902.6	1915.0	1932.7	1927.4	1946.9	1939.8
5°	1888.4	1897.2	1911.4	1909.7	1923.9	1931.0	1945.2	1962.9	1957.6	1986.0	1975.3
7.5°	1902.6	1916.8	1927.4	1948.7	1959.4	1955.8	1987.8	2002.0	1994.9	2016.2	2005.5
10°	1938.1	1954.0	1968.2	1991.3	2007.3	2000.2	2017.9	2026.8	2014.4	2035.7	2030.4
12.5°	1978.9	1996.6	2025.0	2041.0	2053.4	2041.0	2041.0	2035.7	2017.9	2037.5	2025.0
15°	2025.0	2048.1	2087.2	2104.9	2101.3	2080.1	2060.5	2023.3	1975.3	1984.2	1966.5
17.5°	2087.2	2115.5	2159.9	2170.6	2156.4	2104.9	2053.4	1986.0	1900.8	1879.5	1865.3
20°	2154.6	2186.5	2248.7	2243.3	2211.4	2120.9	2039.2	1934.5	1801.4	1741.1	1712.7
22.5°	2246.9	2278.8	2337.4	2305.5	2239.8	2120.9	1982.4	1836.9	1679.0	1590.2	1570.7
25°	2348.0	2392.4	2417.3	2346.3	2232.7	2073.0	1906.1	1714.4	1512.1	1416.3	1396.8
27.5°	2472.3	2502.5	2477.6	2351.6	2197.2	1993.1	1781.9	1551.2	1357.7	1276.1	1247.7
30°	2617.8	2621.4	2523.7	2340.9	2117.3	1879.5	1629.3	1386.1	1237.0	1160.7	1143.0
32.5°	2811.3	2775.8	2564.6	2291.3	2009.1	1723.3	1458.9	1276.1	1151.8	1056.0	1031.2
35°	3315.3	3153.8	2655.1	2234.5	1877.7	1549.4	1311.6	1176.7	1072.0	963.7	944.2
37.5°	3968.4	3682.7	2814.8	2175.9	1728.6	1389.7	1214.0	1118.1	1029.4	908.7	882.1
40°	4458.3	4128.2	3061.5	2112.0	1592.0	1276.1	1160.7	1095.0	997.4	887.4	859.0
42.5°	4832.7	4499.1	3315.3	2041.0	1464.2	1187.3	1123.4	1079.1	985.0	882.1	859.0
45°	5091.9	4758.2	3533.6	1957.6	1300.9	1111.0	1095.0	1052.4	961.9	862.5	839.5
47.5°	5354.5	4941.0	3656.1	1870.6	1164.3	1068.4	1054.2	1006.3	922.9	828.8	811.1
50°	5583.5	5148.7	3760.8	1781.9	1056.0	1017.0	1008.1	944.2	864.3	775.6	752.5
52.5°	5649.2	5198.4	3718.2	1776.6	958.4	961.9	944.2	892.7	818.2	722.3	699.3
55°	5798.2	5336.8	3615.2	1613.3	864.3	876.7	873.2	846.6	777.4	688.6	670.9
57.5°	5862.1	5232.1	3466.2	1199.8	766.7	777.4	807.5	807.5	747.2	667.3	651.3
60°	5853.3	5235.6	3199.9	839.5	670.9	699.3	741.9	741.9	693.9	615.9	596.3
62.5°	5785.8	5100.7	2758.0	640.7	610.5	651.3	701.0	669.1	626.5	539.5	525.3
65°	5674.0	4729.8	1911.4	562.6	576.8	624.7	649.6	610.5	559.1	481.0	472.1
67.5°	5226.8	4108.6	889.2	514.7	548.4	585.7	607.0	552.0	498.7	427.7	417.1
70°	4449.4	3006.5	383.4	477.4	514.7	541.3	562.6	505.8	449.0	386.9	383.4
72.5°	3235.4	1604.4	319.5	418.9	457.9	486.3	512.9	456.1	401.1	328.3	328.3
75°	1558.3	266.2	275.1	347.9	383.4	440.1	452.6	372.7	310.6	250.2	244.9
77.5°	191.7	172.2	237.8	276.9	307.0	337.2	367.4	323.0	268.0	205.9	195.2
80°	120.7	120.7	188.1	193.5	209.4	241.4	269.8	252.0	211.2	118.9	110.0
82.5°	88.7	95.8	124.2	92.3	110.0	138.4	158.0	179.3	152.6	83.4	78.1
85°	56.8	62.1	58.6	46.1	60.3	92.3	126.0	124.2	102.9	62.1	58.6
87.5°	12.4	12.4	12.4	10.6	12.4	16.0	30.2	58.6	42.6	33.7	31.9
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)