

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: P509185

Luminaire Tested: **VERD-CA2-120-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509185
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-CA2-120-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17563 lumens
Efficiency: N/A
Efficacy: 143.1 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

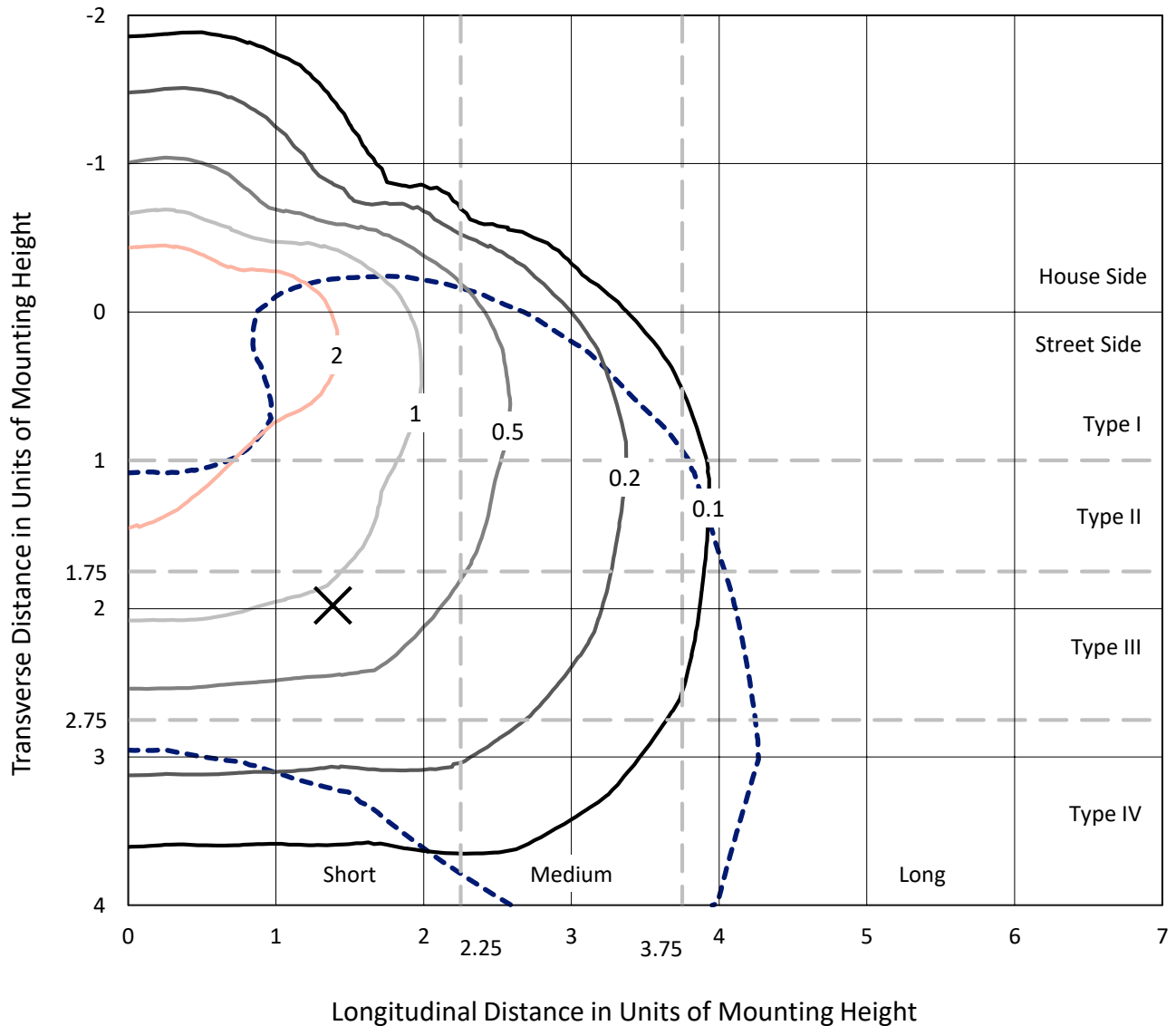
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509185
 CATALOG NUMBER: VERD-CA2-120-750-U-T4

Iso-Footcandle Lines of Horizontal Illumination

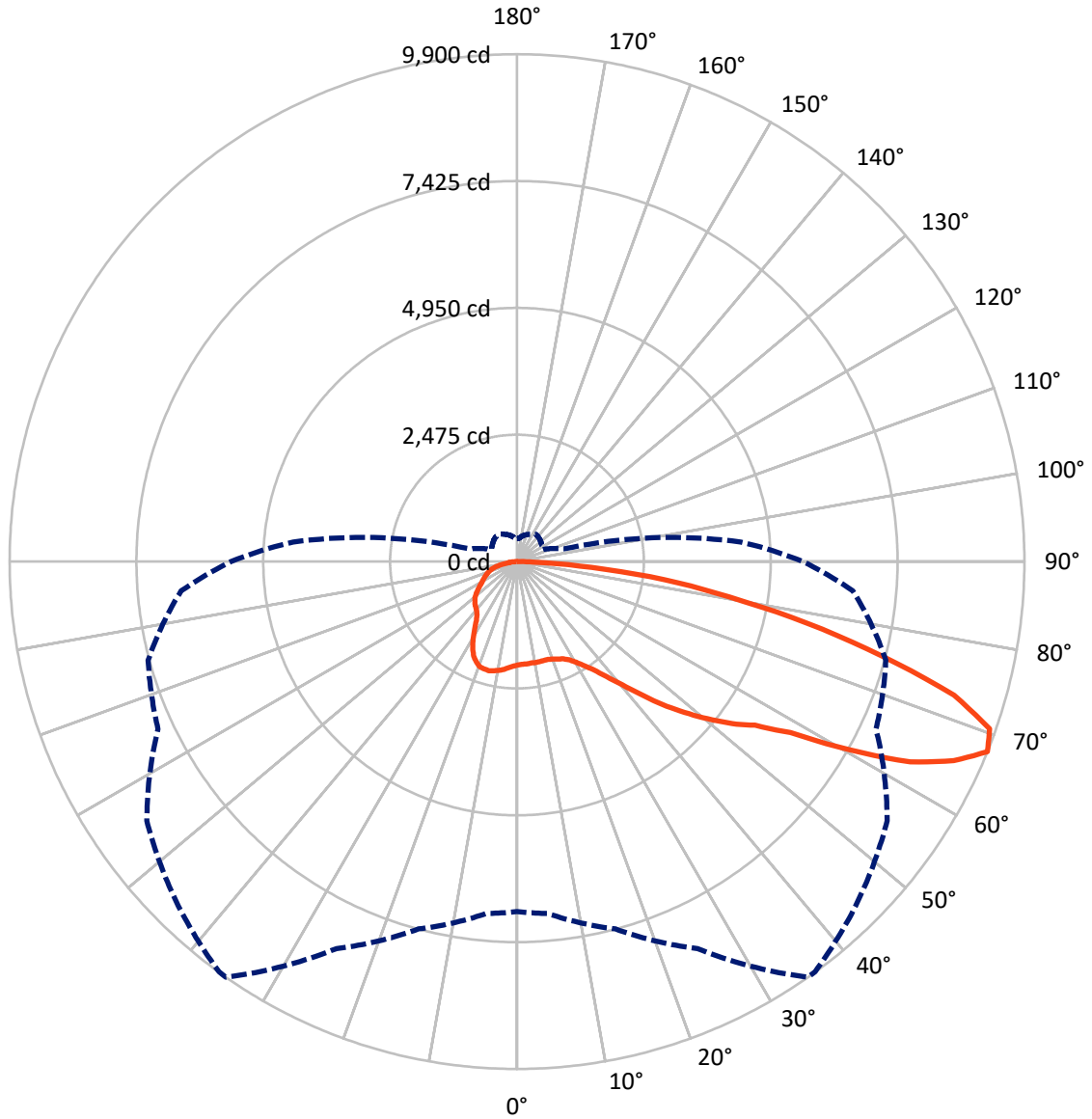
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P509185
CATALOG NUMBER: VERD-CA2-120-750-U-T4

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: VERD-CA2-120-750-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4001.2	0.0	4001.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13561.8	0.0	13561.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	17563.0	0.0	17563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	1.1
10°-20°	599.1	3.4
20°-30°	999.9	5.7
30°-40°	1538.4	8.8
40°-50°	2535.2	14.4
50°-60°	3621.1	20.6
60°-70°	4508.5	25.7
70°-80°	3042.5	17.3
80°-90°	523.0	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°	17563.0	100.0
0°-180°	17563.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509185

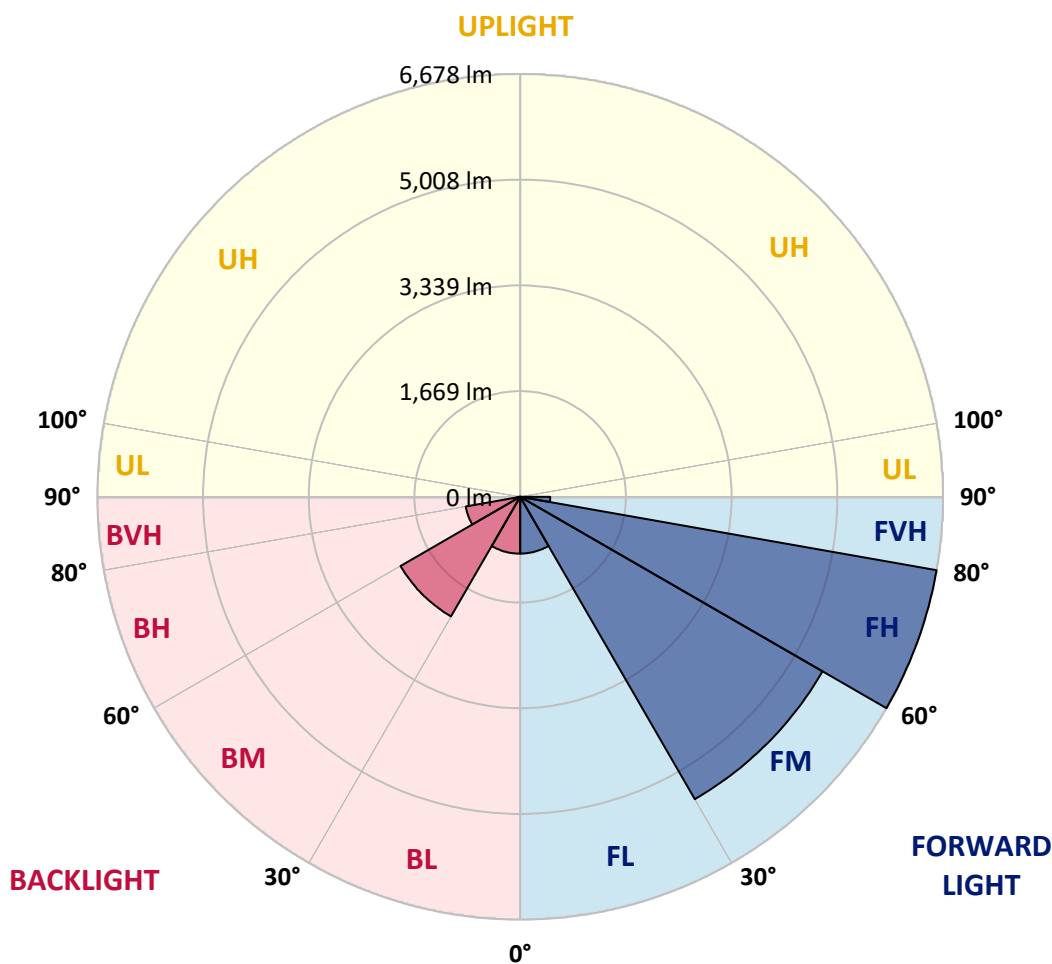
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.3	5.1			
FM (30°-60°)	5513.2	31.4			
FH (60°-80°)	6677.5	38.0			G3/7500
FVH (80°-90°)	474.7	2.7			G3/500
BL (0°-30°)	898.0	5.1	B2/1000		
BM (30°-60°)	2181.5	12.4	B2/2500		
BH (60°-80°)	873.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	48.2	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





REPORT NUMBER: P509185

CATALOG NUMBER: VERD-CA2-120-750-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2
2.5°	1989.8	2008.7	2006.9	2003.1	2005.0	2006.9	1997.4	1991.7	1999.3	2001.2	2010.6
5°	1987.9	2003.1	2001.2	2001.2	2006.9	2005.0	1989.8	1978.5	1991.7	2001.2	2010.6
7.5°	1986.0	1999.3	1999.3	1993.6	1997.4	1997.4	1989.8	1997.4	1997.4	2012.5	2023.9
10°	1984.1	1995.5	1995.5	1997.4	2003.1	2005.0	2005.0	2010.6	2031.5	2037.1	2059.9
12.5°	1961.4	1970.9	1978.5	1989.8	2001.2	2005.0	2014.4	2031.5	2058.0	2071.2	2097.7
15°	1942.5	1955.7	1969.0	1980.3	1997.4	2001.2	2022.0	2050.4	2078.8	2107.2	2147.0
17.5°	1950.1	1967.1	1982.2	1991.7	2005.0	2008.7	2029.6	2067.4	2112.9	2154.5	2209.4
20°	1967.1	1986.0	2001.2	2012.5	2029.6	2033.4	2050.4	2086.4	2145.1	2209.4	2271.9
22.5°	2008.7	2022.0	2039.0	2044.7	2063.7	2067.4	2078.8	2114.8	2190.5	2271.9	2351.4
25°	2046.6	2061.8	2075.0	2080.7	2101.5	2105.3	2126.1	2156.4	2245.4	2338.2	2453.7
27.5°	2095.8	2111.0	2128.0	2133.7	2169.7	2173.5	2182.9	2228.4	2317.3	2425.3	2569.2
30°	2190.5	2200.0	2218.9	2241.6	2277.6	2281.4	2302.2	2349.5	2413.9	2546.4	2737.7
32.5°	2334.4	2347.6	2340.1	2370.4	2423.4	2423.4	2495.3	2574.8	2654.3	2747.1	3000.8
35°	2610.8	2603.2	2595.7	2569.2	2601.3	2612.7	2713.0	2847.5	3069.0	3330.2	3580.2
37.5°	2953.5	2951.6	2911.8	2851.2	2849.4	2853.1	2944.0	3171.2	3523.4	4104.6	4373.4
40°	3479.8	3495.0	3354.9	3229.9	3159.8	3144.7	3216.6	3502.5	3975.8	4750.2	4933.8
42.5°	4006.1	3974.0	3860.4	3657.8	3540.4	3530.9	3544.2	3794.1	4415.1	5272.7	5339.0
45°	4471.9	4496.5	4318.5	4195.5	3979.6	3983.4	3924.7	4153.8	4850.5	5641.9	5653.3
47.5°	4947.1	4966.0	4744.5	4604.4	4398.0	4398.0	4305.3	4487.0	5238.6	5994.1	5971.3
50°	5454.5	5498.0	5219.7	5007.7	4818.3	4810.8	4782.4	4896.0	5621.1	6291.3	6200.4
52.5°	6139.8	5990.3	5727.1	5439.3	5251.9	5229.2	5202.7	5284.1	6060.3	6533.6	6348.1
55°	6847.9	6645.3	6376.5	5990.3	5636.2	5668.4	5602.2	5694.9	6463.6	6823.3	6541.2
57.5°	7277.7	7353.4	7207.6	6876.3	6293.2	6287.5	6037.6	6086.8	6825.2	7067.5	6745.7
60°	7730.2	7836.2	7934.6	7737.7	7461.3	7336.4	6694.6	6503.3	7232.2	7245.5	6723.0
62.5°	7966.8	7946.0	8373.9	8396.6	8610.5	8625.7	7999.0	7042.9	7472.7	7395.1	6802.5
65°	7544.6	7556.0	8260.3	8627.6	9364.1	9407.6	9178.5	7991.4	7675.3	7465.1	6711.6
67.5°	6829.0	6893.4	7421.6	8330.3	9899.9	9892.3	9396.2	8816.9	7728.3	7450.0	6579.1
70°	5585.1	5653.3	6194.7	7514.3	9782.5	9720.0	9303.5	8883.2	7682.8	7313.7	5918.3
72.5°	4284.4	4275.0	4835.4	6001.6	8919.1	8979.7	8828.3	8415.5	7465.1	6730.5	4848.6
75°	3019.7	2972.4	3470.3	4549.5	7355.3	7578.7	8095.6	7982.0	6641.6	5539.7	3241.3
77.5°	1982.2	2054.2	2451.8	3364.3	5783.9	5971.3	6685.1	6459.8	4914.9	3534.7	1170.0
80°	1259.0	1323.4	1645.2	2402.5	4204.9	4290.1	4873.2	4108.4	2625.9	1166.2	162.8
82.5°	764.9	774.3	1060.2	1624.4	2900.5	2900.5	3069.0	2296.5	1028.0	151.5	106.0
85°	407.1	429.8	571.8	876.6	1461.6	1571.4	1391.5	876.6	198.8	83.3	64.4
87.5°	128.7	130.6	187.4	338.9	314.3	323.7	107.9	45.4	22.7	15.1	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509185
 CATALOG NUMBER: VERD-CA2-120-750-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2
2.5°	2014.4	2016.3	2027.7	2033.4	2035.3	2029.6	2042.8	2061.8	2056.1	2076.9	2069.3
5°	2014.4	2023.9	2039.0	2037.1	2052.3	2059.9	2075.0	2093.9	2088.3	2118.6	2107.2
7.5°	2029.6	2044.7	2056.1	2078.8	2090.2	2086.4	2120.4	2135.6	2128.0	2150.7	2139.4
10°	2067.4	2084.5	2099.6	2124.2	2141.3	2133.7	2152.6	2162.1	2148.8	2171.6	2165.9
12.5°	2111.0	2129.9	2160.2	2177.2	2190.5	2177.2	2177.2	2171.6	2152.6	2173.5	2160.2
15°	2160.2	2184.8	2226.5	2245.4	2241.6	2218.9	2198.1	2158.3	2107.2	2116.7	2097.7
17.5°	2226.5	2256.8	2304.1	2315.5	2300.3	2245.4	2190.5	2118.6	2027.7	2005.0	1989.8
20°	2298.4	2332.5	2398.8	2393.1	2359.0	2262.4	2175.4	2063.7	1921.7	1857.3	1827.0
22.5°	2396.9	2430.9	2493.4	2459.3	2389.3	2262.4	2114.8	1959.5	1791.0	1696.4	1675.5
25°	2504.8	2552.1	2578.6	2502.9	2381.7	2211.3	2033.4	1828.9	1613.1	1510.8	1490.0
27.5°	2637.3	2669.5	2643.0	2508.6	2343.9	2126.1	1900.8	1654.7	1448.3	1361.3	1331.0
30°	2792.6	2796.3	2692.2	2497.2	2258.7	2005.0	1738.0	1478.6	1319.6	1238.2	1219.3
32.5°	2998.9	2961.1	2735.8	2444.2	2143.2	1838.4	1556.3	1361.3	1228.7	1126.5	1100.0
35°	3536.6	3364.3	2832.3	2383.6	2003.1	1652.8	1399.1	1255.2	1143.5	1028.0	1007.2
37.5°	4233.3	3928.5	3002.7	2321.1	1844.0	1482.4	1295.0	1192.8	1098.1	969.3	940.9
40°	4755.9	4403.7	3265.9	2253.0	1698.3	1361.3	1238.2	1168.1	1064.0	946.6	916.3
42.5°	5155.3	4799.4	3536.6	2177.2	1561.9	1266.6	1198.4	1151.1	1050.8	940.9	916.3
45°	5431.8	5075.8	3769.5	2088.3	1387.8	1185.2	1168.1	1122.7	1026.1	920.1	895.5
47.5°	5712.0	5270.8	3900.1	1995.5	1242.0	1139.7	1124.6	1073.5	984.5	884.2	865.2
50°	5956.2	5492.3	4011.8	1900.8	1126.5	1084.8	1075.4	1007.2	922.0	827.4	802.7
52.5°	6026.2	5545.4	3966.4	1895.2	1022.4	1026.1	1007.2	952.3	872.8	770.6	745.9
55°	6185.3	5693.0	3856.6	1721.0	922.0	935.3	931.5	903.1	829.2	734.6	715.7
57.5°	6253.4	5581.3	3697.5	1279.8	817.9	829.2	861.4	861.4	797.1	711.9	694.8
60°	6244.0	5585.1	3413.5	895.5	715.7	745.9	791.4	791.4	740.3	657.0	636.1
62.5°	6172.0	5441.2	2942.1	683.5	651.3	694.8	747.8	713.8	668.3	575.6	560.4
65°	6052.7	5045.5	2039.0	600.2	615.3	666.4	692.9	651.3	596.4	513.1	503.6
67.5°	5575.6	4382.9	948.5	549.0	585.0	624.8	647.5	588.8	532.0	456.3	444.9
70°	4746.4	3207.2	408.9	509.3	549.0	577.4	600.2	539.6	479.0	412.7	408.9
72.5°	3451.4	1711.5	340.8	446.8	488.5	518.8	547.2	486.6	427.9	350.3	350.3
75°	1662.3	284.0	293.5	371.1	408.9	469.5	482.8	397.6	331.3	266.9	261.3
77.5°	204.5	183.6	253.7	295.3	327.5	359.7	391.9	344.6	285.9	219.6	208.3
80°	128.7	128.7	200.7	206.4	223.4	257.5	287.8	268.8	225.3	126.8	117.4
82.5°	94.7	102.2	132.5	98.4	117.4	147.7	168.5	191.2	162.8	89.0	83.3
85°	60.6	66.3	62.5	49.2	64.4	98.4	134.4	132.5	109.8	66.3	62.5
87.5°	13.3	13.3	13.3	11.4	13.3	17.0	32.2	62.5	45.4	36.0	34.1
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)