

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: P509609

Luminaire Tested: **VERD-G-CA2-130-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-130-740-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18656 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

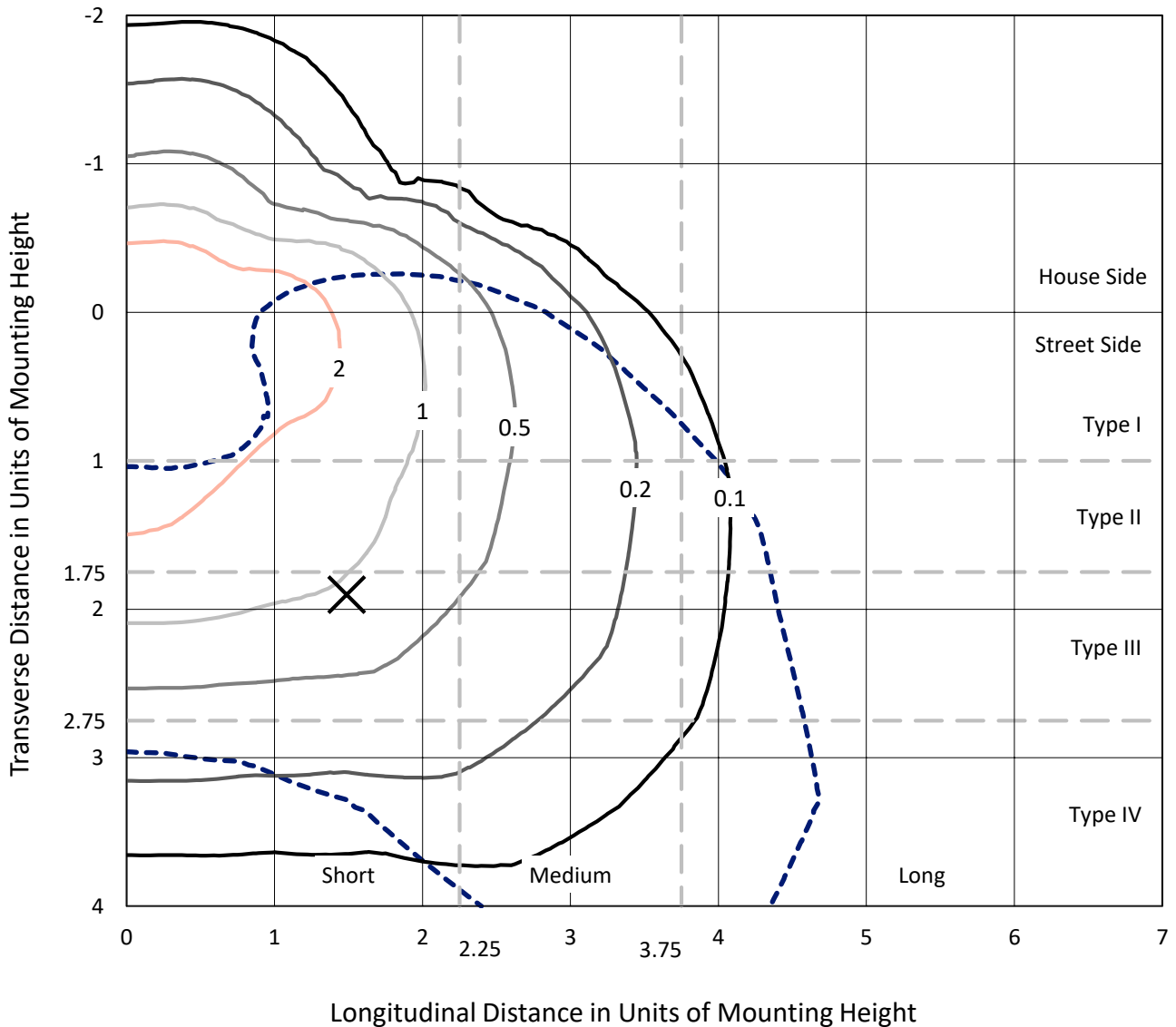
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

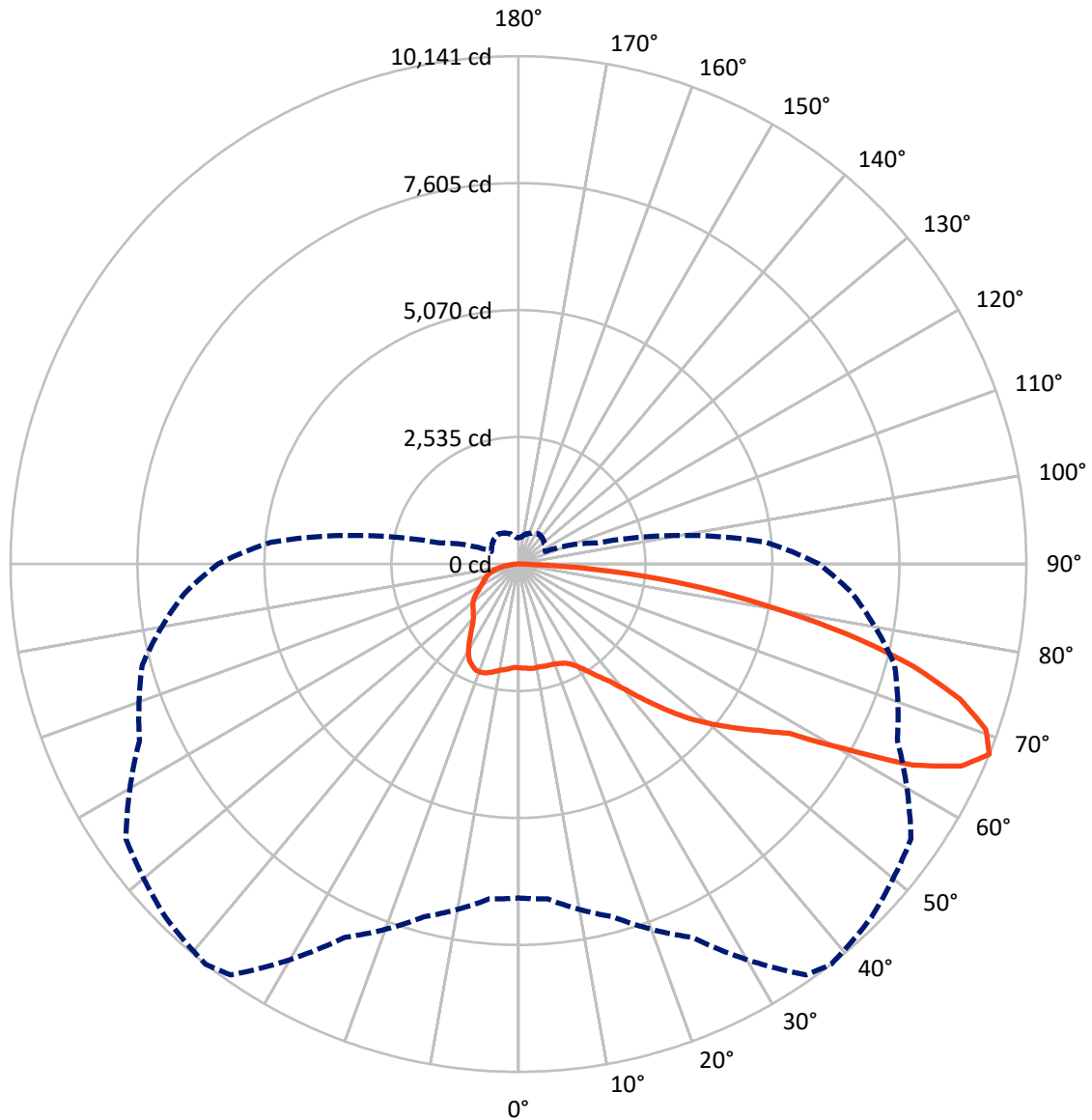
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.7	0.0	4328.7
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	14327.3	0.0	14327.3
	% Fixture	76.8	0.0	76.8
Total	Lumens	18656.0	0.0	18656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	1.1
10°-20°	620.2	3.3
20°-30°	1051.2	5.6
30°-40°	1610.9	8.6
40°-50°	2654.3	14.2
50°-60°	3793.7	20.3
60°-70°	4726.0	25.3
70°-80°	3367.8	18.1
80°-90°	630.9	3.4
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°	18656.0	100.0
0°-180°	18656.0	100.0

Coefficient of Utilization



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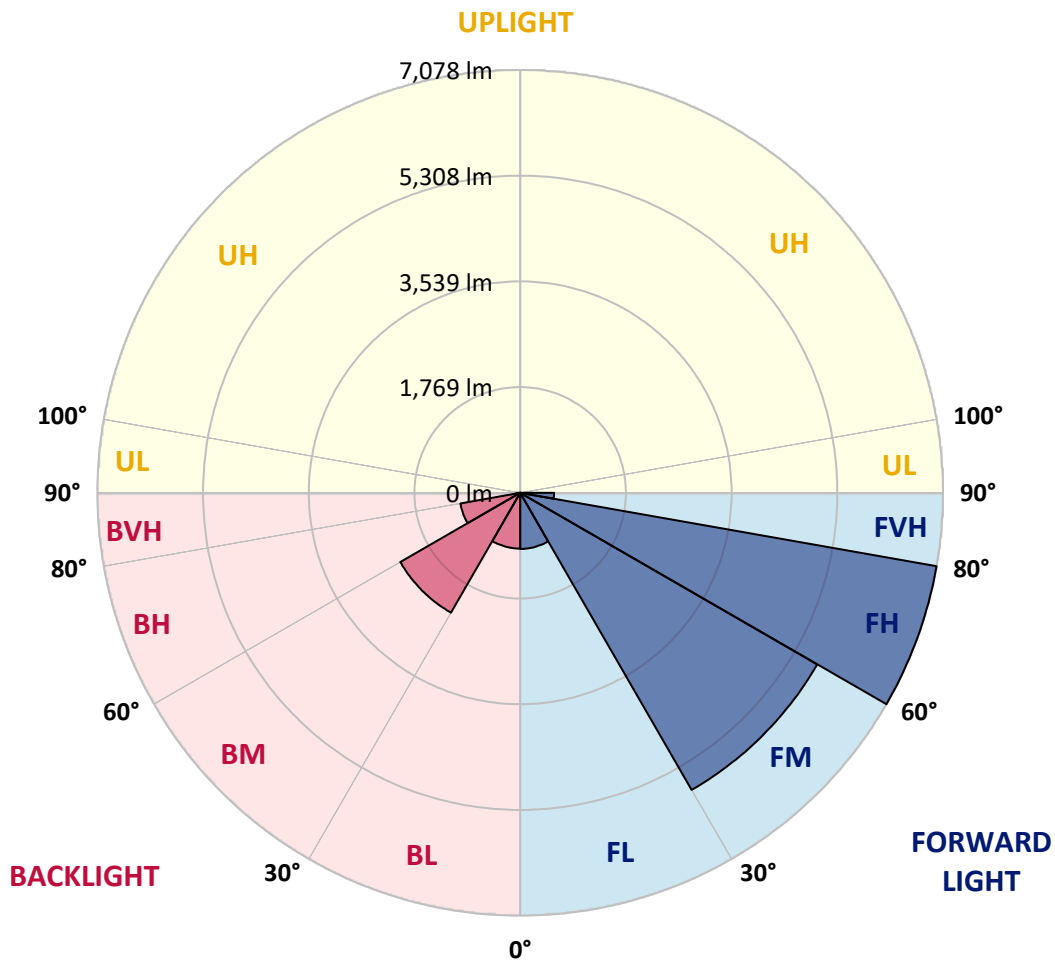
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.0	5.0			
FM (30°-60°)	5741.9	30.8			
FH (60°-80°)	7077.7	37.9			G3/7500
FVH (80°-90°)	568.7	3.0			G4/750
BL (0°-30°)	933.4	5.0	B2/1000		
BM (30°-60°)	2317.0	12.4	B2/2500		
BH (60°-80°)	1016.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	62.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2111.1	2119.8	2103.7	2101.2	2091.3	2078.9	2081.4	2071.5	2059.1	2064.0	2066.5
5°	2123.5	2123.5	2111.1	2098.8	2093.8	2091.3	2093.8	2082.6	2080.2	2088.8	2081.4
7.5°	2112.4	2119.8	2098.8	2098.8	2090.1	2105.0	2106.2	2092.6	2102.5	2102.5	2101.2
10°	2109.9	2112.4	2103.7	2086.4	2085.1	2093.8	2111.1	2116.1	2121.1	2119.8	2124.8
12.5°	2081.4	2078.9	2061.6	2066.5	2090.1	2098.8	2128.5	2142.1	2160.7	2165.7	2168.2
15°	2045.4	2055.4	2056.6	2071.5	2096.3	2109.9	2139.7	2166.9	2207.8	2217.8	2216.5
17.5°	2049.2	2052.9	2059.1	2067.8	2106.2	2112.4	2160.7	2190.5	2241.3	2276.0	2293.4
20°	2072.7	2065.3	2077.7	2100.0	2121.1	2126.0	2176.9	2222.7	2292.1	2338.0	2357.8
22.5°	2112.4	2113.6	2119.8	2119.8	2134.7	2157.0	2204.1	2240.1	2325.6	2390.1	2424.8
25°	2149.6	2152.1	2159.5	2157.0	2181.8	2191.7	2236.4	2290.9	2388.8	2464.5	2531.4
27.5°	2205.4	2212.8	2207.8	2209.1	2257.4	2267.3	2287.2	2360.3	2460.7	2562.4	2681.4
30°	2309.5	2309.5	2304.5	2309.5	2361.6	2386.4	2392.6	2464.5	2546.3	2669.0	2848.7
32.5°	2459.5	2460.7	2429.7	2454.5	2512.8	2556.2	2574.8	2688.8	2780.6	2840.1	3071.9
35°	2780.6	2766.9	2734.7	2662.8	2700.0	2753.3	2812.8	2957.8	3159.9	3381.8	3614.9
37.5°	3272.7	3271.5	3157.4	3013.6	2949.2	2976.4	3059.5	3276.4	3592.5	4146.7	4352.5
40°	3819.4	3833.0	3668.2	3488.4	3298.7	3301.2	3322.3	3593.8	4051.2	4852.0	4959.9
42.5°	4364.9	4342.5	4160.3	3988.0	3730.2	3714.0	3658.3	3914.9	4531.0	5416.1	5431.0
45°	4850.8	4839.7	4637.6	4462.8	4219.8	4157.8	4094.6	4258.2	4988.4	5872.3	5774.4
47.5°	5307.0	5321.9	5043.0	4885.5	4645.0	4614.0	4540.9	4645.0	5440.9	6230.6	6053.3
50°	5826.4	5832.6	5499.2	5304.5	5066.5	5026.8	4998.3	5131.0	5908.2	6572.7	6337.2
52.5°	6407.8	6286.3	5961.5	5693.8	5465.7	5435.9	5419.8	5558.7	6420.2	6872.7	6524.4
55°	7139.2	6976.8	6644.6	6200.8	5868.6	5873.5	5817.7	5980.1	6851.6	7079.7	6706.6
57.5°	7459.1	7496.3	7434.3	7030.1	6447.5	6375.6	6238.0	6363.2	7262.0	7322.7	6850.4
60°	8061.5	8205.3	8071.5	7845.8	7673.5	7485.1	6813.2	6860.3	7636.3	7591.7	6866.5
62.5°	8102.4	8152.0	8574.8	8610.7	8778.1	8841.3	8284.7	7424.4	7976.0	7726.8	6921.0
65°	7700.8	7756.6	8266.1	8713.6	9634.7	9721.5	9545.4	8457.0	8251.2	7800.0	6877.7
67.5°	6668.2	6714.0	7292.9	8227.7	10015.3	10140.5	9969.4	9567.7	8347.9	7775.2	6686.8
70°	5703.7	5729.7	6210.7	7518.6	9753.7	9901.2	9833.0	9609.9	8344.2	7628.9	6265.3
72.5°	4480.1	4555.8	4943.8	6235.5	9092.9	9216.9	9236.7	9350.8	8132.2	7147.9	5323.1
75°	3249.2	3290.1	3730.2	4844.6	7848.3	8144.6	8492.9	8923.1	7335.1	6068.2	3935.9
77.5°	2289.7	2329.3	2743.4	3673.1	6352.0	6689.2	7319.0	7571.9	5951.6	4548.3	2071.5
80°	1507.4	1502.5	1896.7	2718.6	4766.5	5003.3	5470.6	5132.2	3453.7	1977.3	225.6
82.5°	885.1	934.7	1214.9	1868.2	3331.0	3462.4	3450.0	2702.5	1371.1	204.5	115.3
85°	510.7	529.3	716.5	1107.0	1835.9	1854.5	1661.2	1048.8	339.7	91.7	68.2
87.5°	228.1	219.4	285.1	365.7	334.7	249.2	155.0	43.4	26.0	17.4	11.2
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°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2056.6	2050.4	2081.4	2064.0	2078.9	2070.2	2062.8	2072.7	2091.3	2107.4	2097.5
5°	2072.7	2076.4	2101.2	2080.2	2100.0	2096.3	2086.4	2097.5	2127.3	2142.1	2140.9
7.5°	2091.3	2093.8	2119.8	2111.1	2119.8	2112.4	2128.5	2121.1	2147.1	2157.0	2150.8
10°	2113.6	2117.3	2140.9	2142.1	2145.9	2140.9	2148.3	2152.1	2166.9	2186.8	2174.4
12.5°	2162.0	2170.7	2188.0	2206.6	2204.1	2184.3	2190.5	2170.7	2184.3	2190.5	2200.4
15°	2228.9	2250.0	2259.9	2285.9	2262.4	2251.2	2227.7	2188.0	2175.6	2169.4	2159.5
17.5°	2300.8	2320.7	2339.2	2372.7	2334.3	2304.5	2263.6	2189.2	2133.5	2113.6	2105.0
20°	2381.4	2400.0	2433.5	2455.8	2398.8	2334.3	2268.6	2159.5	2049.2	1973.5	1982.2
22.5°	2471.9	2512.8	2535.1	2528.9	2448.3	2360.3	2247.5	2081.4	1940.1	1827.3	1819.8
25°	2597.1	2620.7	2629.3	2572.3	2475.6	2341.7	2176.9	1988.4	1791.3	1664.9	1646.3
27.5°	2728.5	2753.3	2707.4	2600.8	2466.9	2298.3	2097.5	1829.7	1619.0	1497.5	1483.9
30°	2897.1	2890.9	2760.7	2592.1	2417.3	2194.2	1952.5	1667.3	1472.7	1359.9	1353.7
32.5°	3080.6	3034.7	2804.1	2550.0	2323.1	2057.8	1767.8	1513.6	1363.6	1250.8	1245.9
35°	3514.4	3303.7	2867.3	2496.7	2184.3	1869.4	1596.7	1398.3	1276.9	1149.2	1124.4
37.5°	4151.6	3812.0	2997.5	2442.1	2025.6	1683.5	1454.1	1312.8	1197.5	1061.2	1037.6
40°	4745.4	4328.9	3225.6	2401.2	1883.1	1533.5	1356.2	1253.3	1141.7	1005.4	975.6
42.5°	5166.9	4730.6	3499.6	2334.3	1740.5	1414.5	1315.3	1231.0	1126.9	1000.4	976.9
45°	5506.6	5077.7	3771.1	2258.7	1573.1	1312.8	1273.1	1212.4	1108.3	985.5	958.3
47.5°	5745.8	5295.8	3959.5	2173.1	1413.2	1250.8	1237.2	1182.6	1079.7	964.5	947.1
50°	5992.5	5540.1	4088.4	2085.1	1269.4	1203.7	1187.6	1115.7	1021.5	918.6	900.0
52.5°	6153.7	5659.1	4162.8	2067.8	1146.7	1139.3	1119.4	1051.2	962.0	850.4	828.1
55°	6276.4	5764.4	4151.6	1966.1	1036.4	1055.0	1042.6	991.7	913.6	804.5	789.7
57.5°	6306.2	5780.6	4050.0	1651.2	932.2	942.1	948.3	958.3	882.6	792.1	767.4
60°	6391.7	5704.9	3870.2	1187.6	809.5	834.3	883.9	892.6	840.5	737.6	722.7
62.5°	6337.2	5654.1	3479.7	836.8	722.7	773.6	820.7	820.7	748.8	653.3	643.4
65°	6241.7	5453.3	2722.3	659.5	676.9	728.9	772.3	742.6	680.6	591.3	585.1
67.5°	5998.7	4963.6	1625.2	593.8	644.6	694.2	725.2	680.6	622.3	534.3	524.4
70°	5300.8	3955.8	618.6	562.8	612.4	647.1	666.9	621.1	564.0	476.0	467.4
72.5°	4208.7	2474.4	393.0	524.4	571.5	602.5	614.9	561.6	471.1	370.7	360.7
75°	2532.6	706.6	340.9	453.7	503.3	556.6	535.5	466.1	397.9	311.2	305.0
77.5°	640.9	214.5	303.7	365.7	409.1	472.3	471.1	420.2	347.1	254.1	244.2
80°	153.7	150.0	246.7	270.2	308.7	362.0	357.0	349.6	275.2	176.0	145.0
82.5°	97.9	104.1	167.4	151.2	176.0	210.7	239.3	225.6	205.8	107.9	96.7
85°	65.7	83.1	81.8	57.0	79.3	119.0	155.0	141.3	116.5	66.9	59.5
87.5°	9.9	11.2	14.9	22.3	34.7	58.3	76.9	75.6	57.0	42.1	39.7
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)