

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: P509569

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

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509569  
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-CA2-120-750-U-T4  
Description: VERDEON-G 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: 17966 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

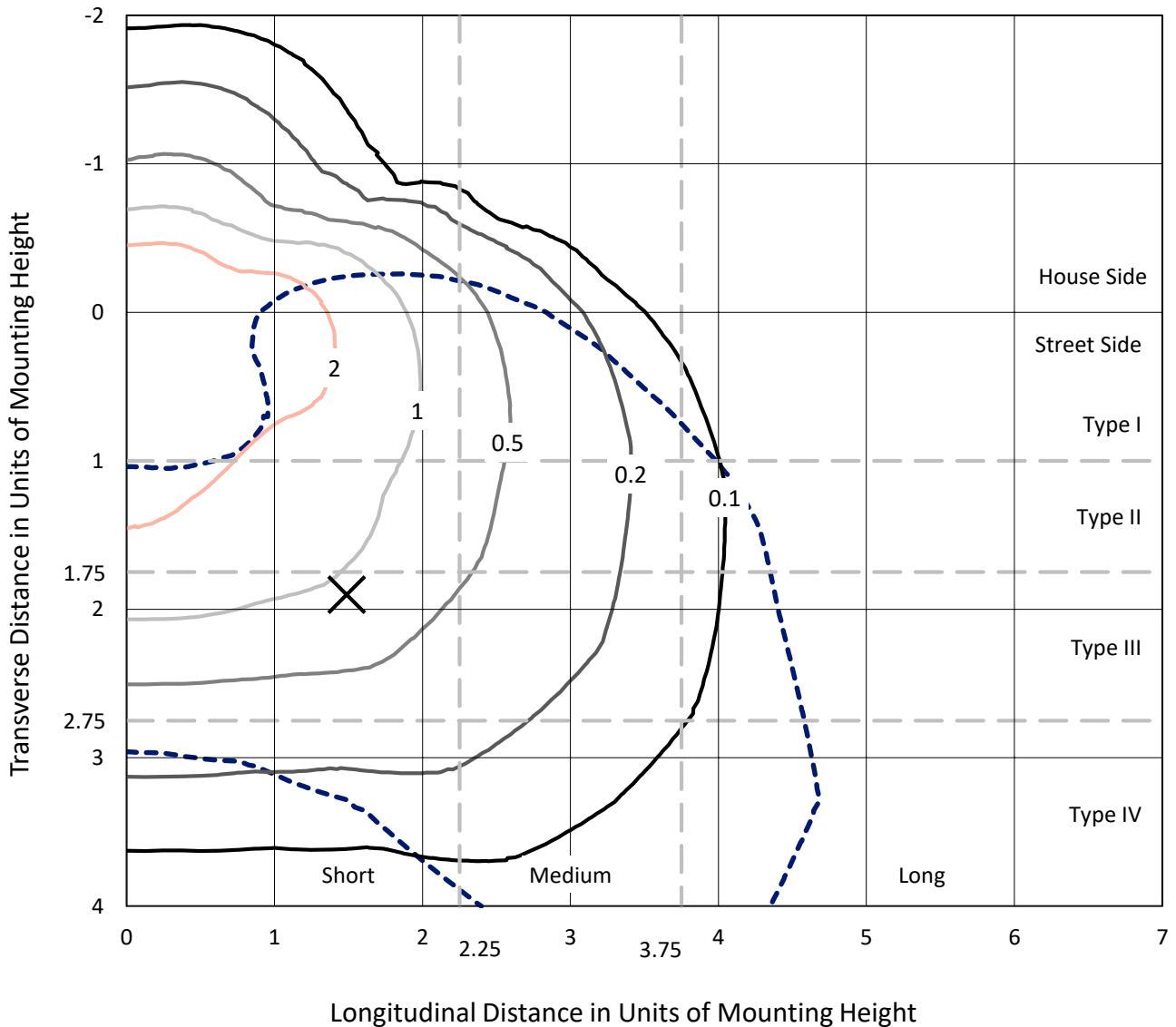
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

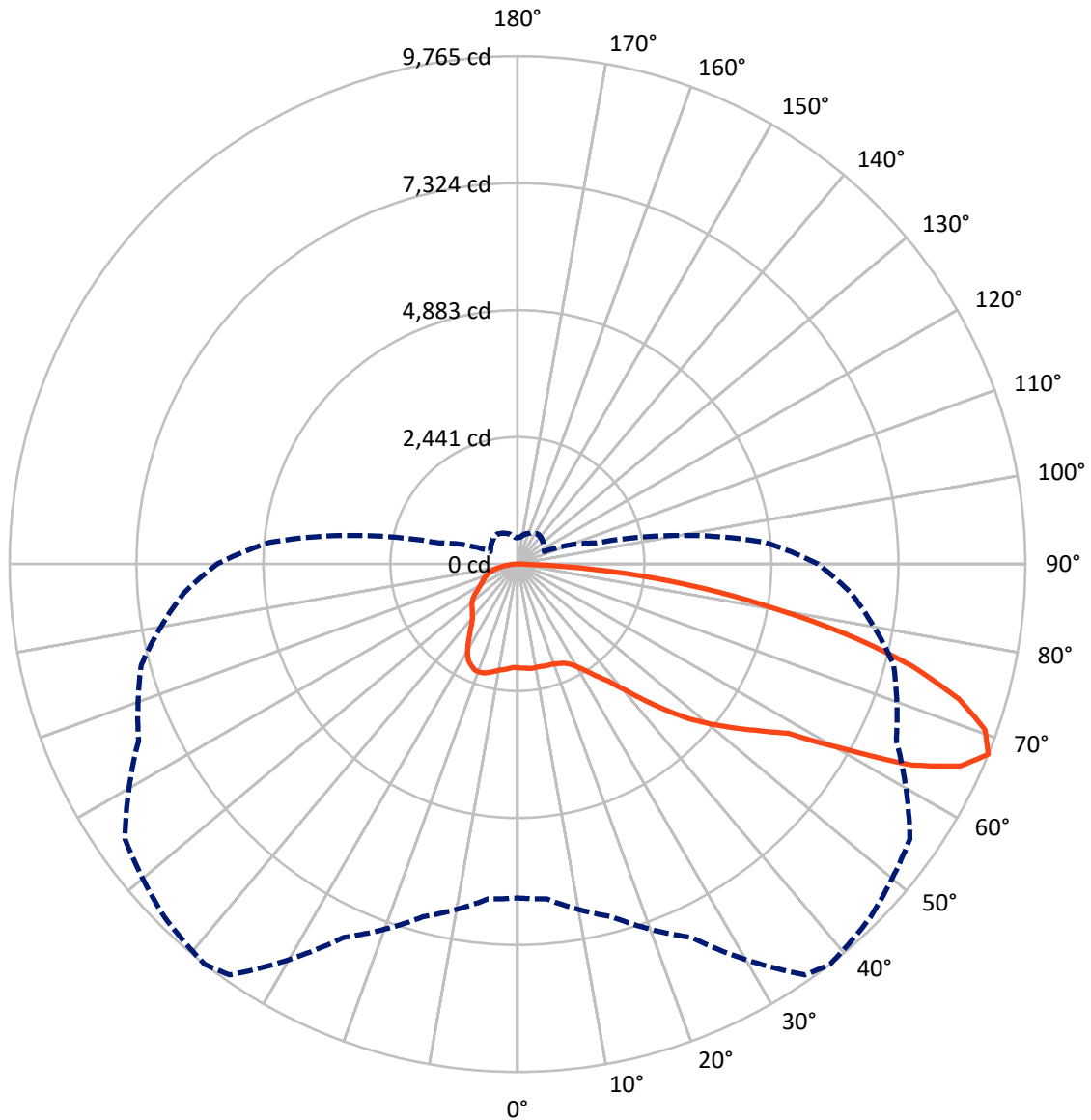
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
<b>House Side</b>	Lumens	4168.6	0.0	4168.6
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	13797.4	0.0	13797.4
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	17966.0	0.0	17966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.7	1.1
10°-20°	597.2	3.3
20°-30°	1012.3	5.6
30°-40°	1551.3	8.6
40°-50°	2556.1	14.2
50°-60°	3653.4	20.3
60°-70°	4551.2	25.3
70°-80°	3243.2	18.1
80°-90°	607.5	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°	17966.0	100.0
0°-180°	17966.0	100.0

**Coefficient of Utilization**



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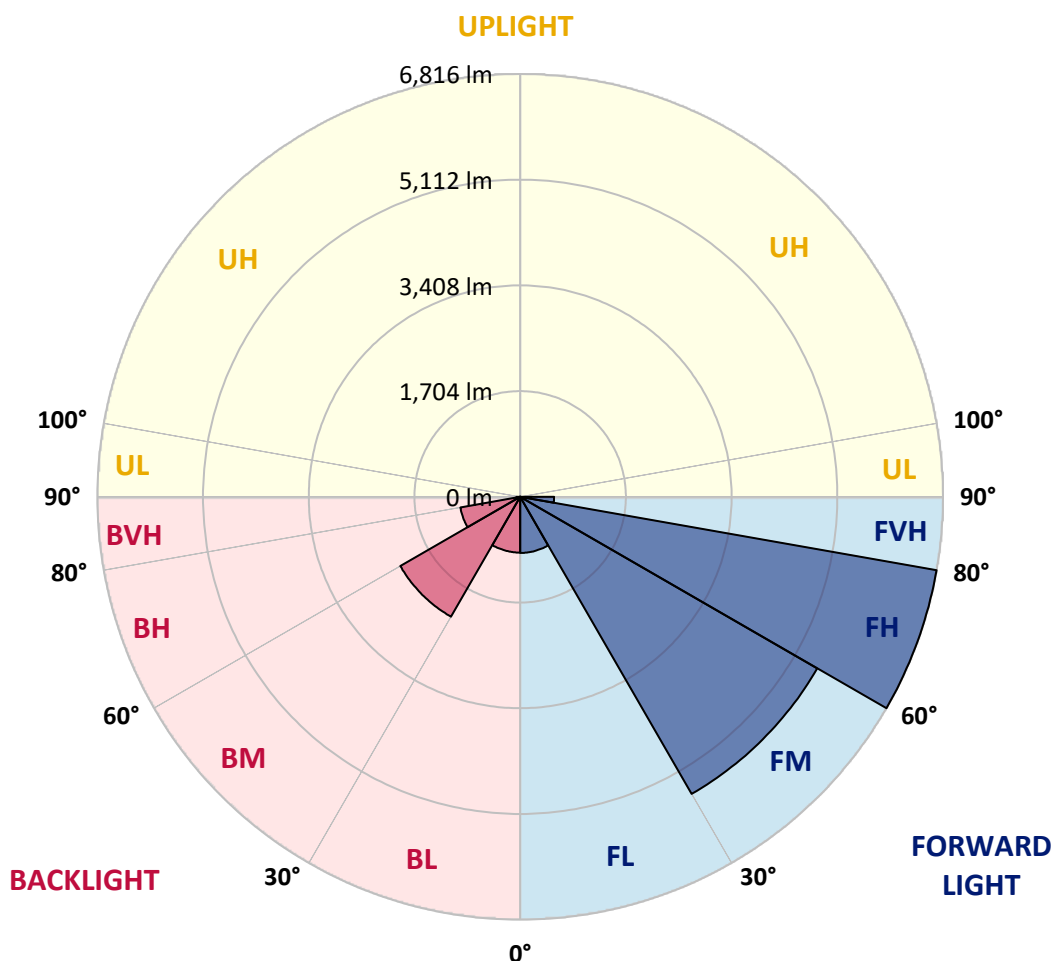
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	904.3	5.0			
FM	(30°-60°)	5529.5	30.8			
FH	(60°-80°)	6815.9	37.9			G3/7500
FVH	(80°-90°)	547.7	3.0			G4/750
BL	(0°-30°)	898.9	5.0	B2/1000		
BM	(30°-60°)	2231.3	12.4	B2/2500		
BH	(60°-80°)	978.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	59.9	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1
2.5°	2033.1	2041.4	2025.9	2023.5	2014.0	2002.0	2004.4	1994.9	1982.9	1987.7	1990.1
5°	2045.0	2045.0	2033.1	2021.1	2016.4	2014.0	2016.4	2005.6	2003.2	2011.6	2004.4
7.5°	2034.3	2041.4	2021.1	2021.1	2012.8	2027.1	2028.3	2015.2	2024.7	2024.7	2023.5
10°	2031.9	2034.3	2025.9	2009.2	2008.0	2016.4	2033.1	2037.8	2042.6	2041.4	2046.2
12.5°	2004.4	2002.0	1985.3	1990.1	2012.8	2021.1	2049.8	2062.9	2080.8	2085.6	2088.0
15°	1969.8	1979.3	1980.5	1994.9	2018.7	2031.9	2060.5	2086.8	2126.2	2135.7	2134.5
17.5°	1973.4	1977.0	1982.9	1991.3	2028.3	2034.3	2080.8	2109.5	2158.4	2191.8	2208.6
20°	1996.1	1988.9	2000.8	2022.3	2042.6	2047.4	2096.3	2140.5	2207.4	2251.5	2270.6
22.5°	2034.3	2035.5	2041.4	2041.4	2055.7	2077.2	2122.6	2157.2	2239.6	2301.7	2335.1
25°	2070.1	2072.5	2079.6	2077.2	2101.1	2110.7	2153.6	2206.2	2300.5	2373.3	2437.8
27.5°	2123.8	2131.0	2126.2	2127.4	2173.9	2183.5	2202.6	2273.0	2369.7	2467.6	2582.2
30°	2224.1	2224.1	2219.3	2224.1	2274.2	2298.1	2304.1	2373.3	2452.1	2570.3	2743.4
32.5°	2368.5	2369.7	2339.9	2363.8	2419.9	2461.6	2479.6	2589.4	2677.7	2735.0	2958.3
35°	2677.7	2664.6	2633.6	2564.3	2600.1	2651.5	2708.8	2848.4	3043.0	3256.7	3481.2
37.5°	3151.7	3150.5	3040.6	2902.2	2840.1	2866.4	2946.3	3155.3	3459.7	3993.3	4191.5
40°	3678.1	3691.3	3532.5	3359.4	3176.7	3179.1	3199.4	3460.9	3901.4	4672.6	4776.5
42.5°	4203.4	4181.9	4006.4	3840.5	3592.2	3576.7	3522.9	3770.1	4363.4	5215.8	5230.1
45°	4671.4	4660.7	4466.1	4297.7	4063.7	4004.1	3943.2	4100.8	4803.9	5655.1	5560.8
47.5°	5110.7	5125.0	4856.4	4704.8	4473.2	4443.4	4372.9	4473.2	5239.7	6000.1	5829.4
50°	5610.9	5616.9	5295.8	5108.3	4879.1	4840.9	4813.5	4941.2	5689.7	6329.6	6102.8
52.5°	6170.8	6053.8	5741.1	5483.2	5263.5	5234.9	5219.4	5353.1	6182.8	6618.5	6283.0
55°	6875.2	6718.8	6398.8	5971.5	5651.5	5656.3	5602.6	5759.0	6598.2	6817.9	6458.5
57.5°	7183.2	7219.0	7159.3	6770.1	6209.0	6139.8	6007.3	6127.9	6993.4	7051.9	6597.0
60°	7763.4	7901.9	7772.9	7555.7	7389.7	7208.3	6561.2	6606.6	7353.9	7310.9	6612.5
62.5°	7802.8	7850.5	8257.6	8292.2	8453.4	8514.3	7978.3	7149.8	7681.0	7441.1	6665.1
65°	7416.0	7469.7	7960.4	8391.3	9278.3	9361.9	9192.4	8144.2	7946.0	7511.5	6623.3
67.5°	6421.5	6465.7	7023.2	7923.4	9644.8	9765.4	9600.7	9213.9	8039.2	7487.6	6439.4
70°	5492.7	5517.8	5981.0	7240.5	9392.9	9535.0	9469.3	9254.5	8035.6	7346.7	6033.5
72.5°	4314.4	4387.3	4760.9	6004.9	8756.6	8876.0	8895.1	9004.9	7831.4	6883.5	5126.2
75°	3129.0	3168.4	3592.2	4665.4	7558.0	7843.4	8178.8	8593.1	7063.8	5843.7	3790.4
77.5°	2205.0	2243.2	2641.9	3537.3	6117.1	6441.8	7048.3	7291.8	5731.5	4380.1	1994.9
80°	1451.7	1446.9	1826.5	2618.0	4590.2	4818.2	5268.3	4942.4	3326.0	1904.1	217.3
82.5°	852.4	900.1	1169.9	1799.1	3207.8	3334.3	3322.4	2602.5	1320.4	197.0	111.0
85°	491.9	509.8	690.0	1066.1	1768.0	1785.9	1599.7	1010.0	327.1	88.3	65.7
87.5°	219.7	211.3	274.6	352.2	322.3	240.0	149.2	41.8	25.1	16.7	10.7
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°	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1
2.5°	1980.5	1974.6	2004.4	1987.7	2002.0	1993.7	1986.5	1996.1	2014.0	2029.5	2019.9
5°	1996.1	1999.6	2023.5	2003.2	2022.3	2018.7	2009.2	2019.9	2048.6	2062.9	2061.7
7.5°	2014.0	2016.4	2041.4	2033.1	2041.4	2034.3	2049.8	2042.6	2067.7	2077.2	2071.3
10°	2035.5	2039.0	2061.7	2062.9	2066.5	2061.7	2068.9	2072.5	2086.8	2105.9	2094.0
12.5°	2082.0	2090.4	2107.1	2125.0	2122.6	2103.5	2109.5	2090.4	2103.5	2109.5	2119.0
15°	2146.5	2166.8	2176.3	2201.4	2178.7	2168.0	2145.3	2107.1	2095.1	2089.2	2079.6
17.5°	2215.7	2234.8	2252.7	2285.0	2248.0	2219.3	2179.9	2108.3	2054.6	2035.5	2027.1
20°	2293.3	2311.2	2343.5	2364.9	2310.0	2248.0	2184.7	2079.6	1973.4	1900.6	1908.9
22.5°	2380.5	2419.9	2441.4	2435.4	2357.8	2273.0	2164.4	2004.4	1868.3	1759.7	1752.5
25°	2501.0	2523.7	2532.1	2477.2	2384.0	2255.1	2096.3	1914.9	1725.1	1603.3	1585.4
27.5°	2627.6	2651.5	2607.3	2504.6	2375.7	2213.3	2019.9	1762.1	1559.1	1442.1	1429.0
30°	2789.9	2784.0	2658.6	2496.3	2327.9	2113.1	1880.3	1605.7	1418.3	1309.6	1303.6
32.5°	2966.6	2922.5	2700.4	2455.7	2237.2	1981.7	1702.4	1457.6	1313.2	1204.6	1199.8
35°	3384.5	3181.5	2761.3	2404.3	2103.5	1800.3	1537.6	1346.6	1229.6	1106.7	1082.8
37.5°	3998.1	3671.0	2886.6	2351.8	1950.7	1621.2	1400.3	1264.3	1153.2	1021.9	999.2
40°	4569.9	4168.8	3106.3	2312.4	1813.4	1476.7	1306.0	1206.9	1099.5	968.2	939.5
42.5°	4975.8	4555.6	3370.1	2248.0	1676.1	1362.1	1266.6	1185.5	1085.2	963.4	940.7
45°	5302.9	4889.9	3631.6	2175.1	1515.0	1264.3	1226.0	1167.6	1067.3	949.1	922.8
47.5°	5533.3	5100.0	3813.0	2092.8	1360.9	1204.6	1191.4	1138.9	1039.8	928.8	912.1
50°	5770.9	5335.2	3937.2	2008.0	1222.5	1159.2	1143.7	1074.4	983.7	884.6	866.7
52.5°	5926.1	5449.8	4008.8	1991.3	1104.3	1097.1	1078.0	1012.4	926.4	819.0	797.5
55°	6044.3	5551.2	3998.1	1893.4	998.0	1015.9	1004.0	955.1	879.8	774.8	760.5
57.5°	6072.9	5566.8	3900.2	1590.2	897.7	907.3	913.3	922.8	850.0	762.8	739.0
60°	6155.3	5493.9	3727.1	1143.7	779.6	803.4	851.2	859.5	809.4	710.3	696.0
62.5°	6102.8	5445.0	3351.0	805.8	696.0	744.9	790.3	790.3	721.1	629.1	619.6
65°	6010.9	5251.6	2621.6	635.1	651.8	702.0	743.7	715.1	655.4	569.4	563.5
67.5°	5776.9	4780.0	1565.1	571.8	620.8	668.5	698.4	655.4	599.3	514.5	505.0
70°	5104.8	3809.5	595.7	542.0	589.7	623.2	642.3	598.1	543.2	458.4	450.1
72.5°	4053.0	2382.9	378.4	505.0	550.3	580.2	592.1	540.8	453.6	357.0	347.4
75°	2439.0	680.5	328.3	436.9	484.7	536.0	515.7	448.9	383.2	299.6	293.7
77.5°	617.2	206.5	292.5	352.2	394.0	454.8	453.6	404.7	334.3	244.7	235.2
80°	148.0	144.5	237.6	260.3	297.3	348.6	343.8	336.7	265.0	169.5	139.7
82.5°	94.3	100.3	161.2	145.6	169.5	202.9	230.4	217.3	198.2	103.9	93.1
85°	63.3	80.0	78.8	54.9	76.4	114.6	149.2	136.1	112.2	64.5	57.3
87.5°	9.6	10.7	14.3	21.5	33.4	56.1	74.0	72.8	54.9	40.6	38.2
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)