

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: P553597

Luminaire Tested: **VERD-G-CA2-160-722-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-722-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1460mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18456 lumens
Efficiency: N/A
Efficacy: 113.5 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

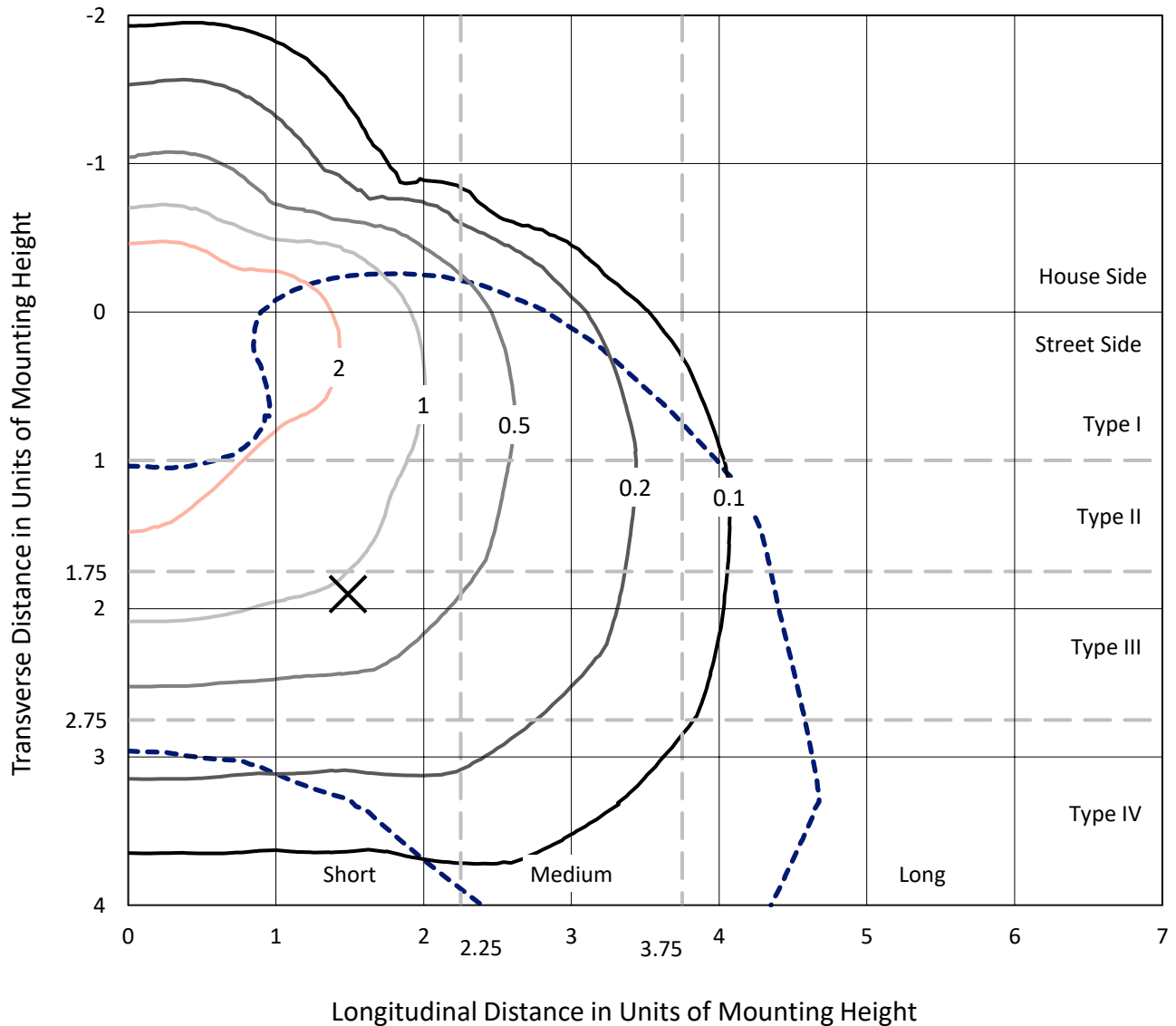
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

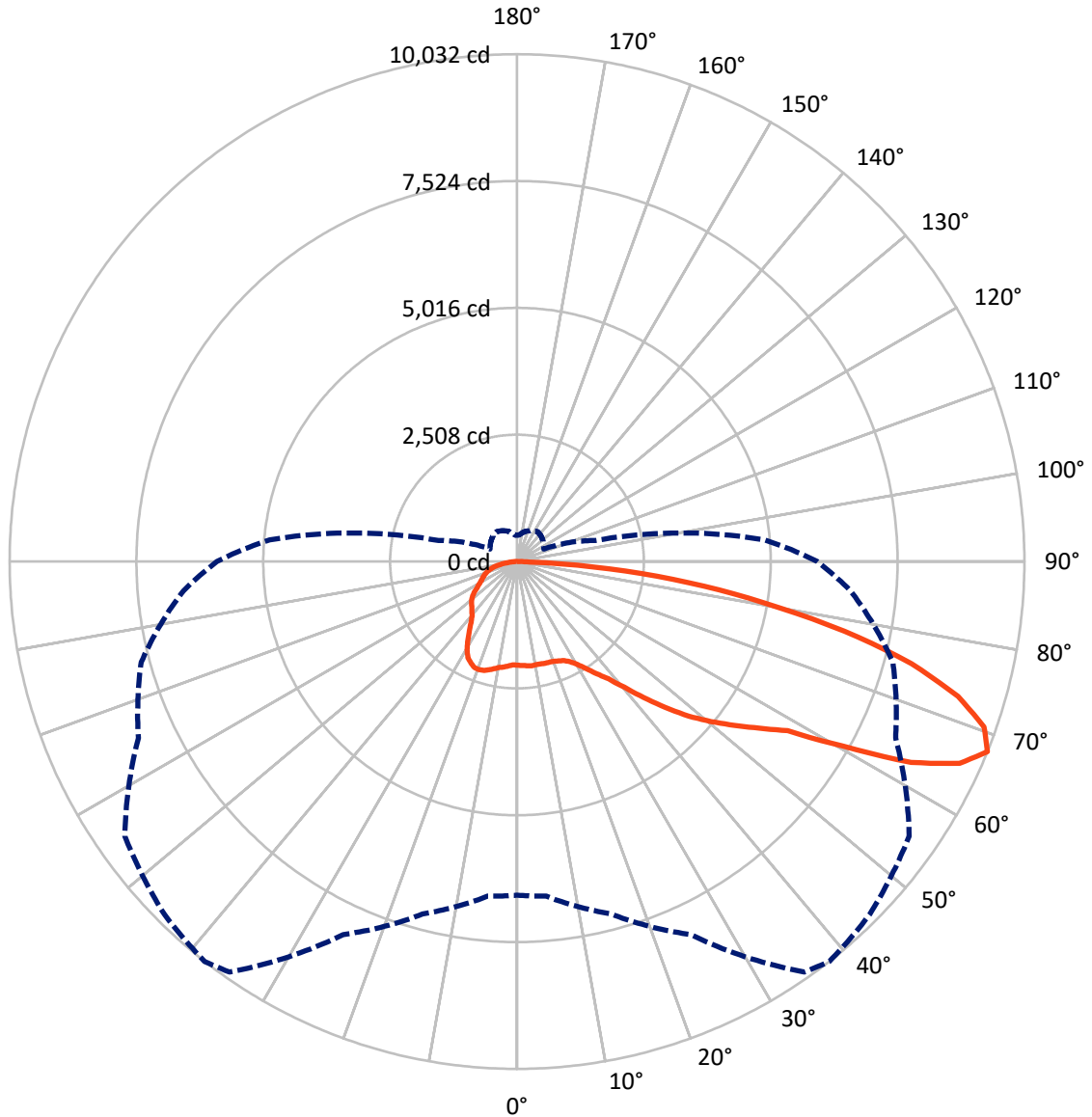
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	4282.3	0.0	4282.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	14173.7	0.0	14173.7
	% Fixture	76.8	0.0	76.8
Total	Lumens	18456.0	0.0	18456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	1.1
10°-20°	613.5	3.3
20°-30°	1039.9	5.6
30°-40°	1593.6	8.6
40°-50°	2625.8	14.2
50°-60°	3753.1	20.3
60°-70°	4675.3	25.3
70°-80°	3331.7	18.1
80°-90°	624.1	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°	18456.0	100.0
0°-180°	18456.0	100.0

Coefficient of Utilization



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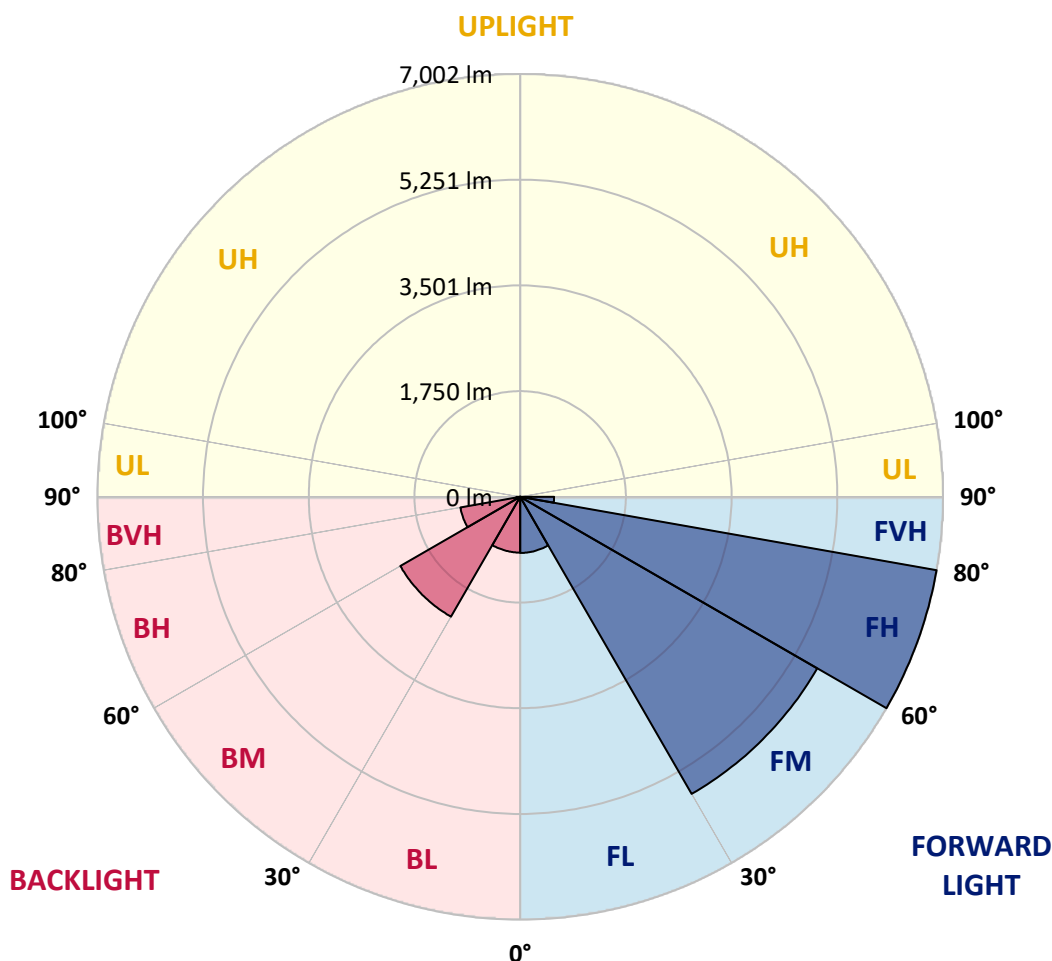
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	929.0	5.0			
FM	(30°-60°)	5680.3	30.8			
FH	(60°-80°)	7001.8	37.9			G3/7500
FVH	(80°-90°)	562.6	3.0			G4/750
BL	(0°-30°)	923.4	5.0	B2/1000		
BM	(30°-60°)	2292.2	12.4	B2/2500		
BH	(60°-80°)	1005.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	61.5	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°	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5
2.5°	2088.5	2097.1	2081.2	2078.7	2068.9	2056.6	2059.1	2049.3	2037.0	2041.9	2044.4
5°	2100.8	2100.8	2088.5	2076.3	2071.3	2068.9	2071.3	2060.3	2057.9	2066.4	2059.1
7.5°	2089.7	2097.1	2076.3	2076.3	2067.7	2082.4	2083.6	2070.1	2079.9	2079.9	2078.7
10°	2087.3	2089.7	2081.2	2064.0	2062.8	2071.3	2088.5	2093.4	2098.3	2097.1	2102.0
12.5°	2059.1	2056.6	2039.5	2044.4	2067.7	2076.3	2105.7	2119.2	2137.6	2142.5	2144.9
15°	2023.5	2033.3	2034.6	2049.3	2073.8	2087.3	2116.7	2143.7	2184.2	2194.0	2192.8
17.5°	2027.2	2030.9	2037.0	2045.6	2083.6	2089.7	2137.6	2167.0	2217.3	2251.6	2268.8
20°	2050.5	2043.1	2055.4	2077.5	2098.3	2103.2	2153.5	2198.9	2267.6	2312.9	2332.6
22.5°	2089.7	2091.0	2097.1	2097.1	2111.8	2133.9	2180.5	2216.1	2300.7	2364.5	2398.8
25°	2126.5	2129.0	2136.3	2133.9	2158.4	2168.2	2212.4	2266.3	2363.2	2438.0	2504.3
27.5°	2181.7	2189.1	2184.2	2185.4	2233.2	2243.0	2262.7	2335.0	2434.4	2534.9	2652.6
30°	2284.7	2284.7	2279.8	2284.7	2336.2	2360.8	2366.9	2438.0	2519.0	2640.4	2818.2
32.5°	2433.1	2434.4	2403.7	2428.2	2485.9	2528.8	2547.2	2660.0	2750.8	2809.6	3039.0
35°	2750.8	2737.3	2705.4	2634.3	2671.0	2723.8	2782.6	2926.1	3126.0	3345.6	3576.1
37.5°	3237.6	3236.4	3123.6	2981.3	2917.5	2944.5	3026.7	3241.3	3554.0	4102.2	4305.8
40°	3778.5	3792.0	3628.8	3451.0	3263.4	3265.8	3286.7	3555.3	4007.8	4800.0	4906.7
42.5°	4318.1	4296.0	4115.7	3945.2	3690.2	3674.2	3619.0	3872.9	4482.4	5358.0	5372.7
45°	4798.8	4787.8	4587.9	4415.0	4174.6	4113.3	4050.7	4212.6	4934.9	5809.3	5712.5
47.5°	5250.1	5264.8	4988.9	4833.1	4595.2	4564.6	4492.2	4595.2	5382.6	6163.8	5988.4
50°	5764.0	5770.1	5440.2	5247.7	5012.2	4973.0	4944.7	5076.0	5844.9	6502.2	6269.2
52.5°	6339.1	6218.9	5897.6	5632.7	5407.1	5377.7	5361.7	5499.1	6351.4	6799.0	6454.4
55°	7062.7	6902.0	6573.4	6134.3	5805.7	5810.6	5755.4	5916.0	6778.2	7003.8	6634.7
57.5°	7379.1	7415.9	7354.6	6954.8	6378.4	6307.2	6171.1	6295.0	7184.1	7244.2	6776.9
60°	7975.1	8117.4	7984.9	7761.7	7591.3	7404.9	6740.2	6786.8	7554.5	7510.3	6792.9
62.5°	8015.6	8064.6	8482.8	8518.4	8684.0	8746.5	8195.9	7344.8	7890.5	7644.0	6846.9
65°	7618.2	7673.4	8177.5	8620.2	9531.4	9617.2	9443.1	8366.3	8162.8	7716.4	6803.9
67.5°	6596.7	6642.0	7214.8	8139.5	9907.9	10031.7	9862.5	9465.2	8258.4	7691.8	6615.1
70°	5642.6	5668.3	6144.1	7438.0	9649.1	9795.1	9727.6	9506.9	8254.7	7547.1	6198.1
72.5°	4432.1	4506.9	4890.8	6168.7	8995.5	9118.1	9137.7	9250.5	8045.0	7071.3	5266.1
75°	3214.3	3254.8	3690.2	4792.7	7764.2	8057.3	8401.9	8827.4	7256.5	6003.1	3893.7
77.5°	2265.1	2304.4	2714.0	3633.7	6283.9	6617.5	7240.5	7490.7	5887.8	4499.6	2049.3
80°	1491.3	1486.4	1876.4	2689.4	4715.4	4949.6	5412.0	5077.2	3416.7	1956.1	223.2
82.5°	875.6	924.7	1201.8	1848.1	3295.3	3425.3	3413.0	2673.5	1356.4	202.4	114.1
85°	505.3	523.7	708.8	1095.2	1816.3	1834.7	1643.3	1037.5	336.0	90.8	67.5
87.5°	225.7	217.1	282.1	361.8	331.1	246.5	153.3	42.9	25.8	17.2	11.0
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°	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5	2050.5
2.5°	2034.6	2028.4	2059.1	2041.9	2056.6	2048.0	2040.7	2050.5	2068.9	2084.8	2075.0
5°	2050.5	2054.2	2078.7	2057.9	2077.5	2073.8	2064.0	2075.0	2104.5	2119.2	2117.9
7.5°	2068.9	2071.3	2097.1	2088.5	2097.1	2089.7	2105.7	2098.3	2124.1	2133.9	2127.8
10°	2091.0	2094.6	2117.9	2119.2	2122.9	2117.9	2125.3	2129.0	2143.7	2163.3	2151.1
12.5°	2138.8	2147.4	2164.6	2182.9	2180.5	2160.9	2167.0	2147.4	2160.9	2167.0	2176.8
15°	2205.0	2225.9	2235.7	2261.4	2238.1	2227.1	2203.8	2164.6	2152.3	2146.2	2136.3
17.5°	2276.2	2295.8	2314.2	2347.3	2309.3	2279.8	2239.4	2165.8	2110.6	2091.0	2082.4
20°	2355.9	2374.3	2407.4	2429.4	2373.0	2309.3	2244.3	2136.3	2027.2	1952.4	1961.0
22.5°	2445.4	2485.9	2507.9	2501.8	2422.1	2335.0	2223.4	2059.1	1919.3	1807.7	1800.3
25°	2569.3	2592.6	2601.1	2544.7	2449.1	2316.6	2153.5	1967.1	1772.1	1647.0	1628.6
27.5°	2699.3	2723.8	2678.4	2572.9	2440.5	2273.7	2075.0	1810.1	1601.6	1481.5	1468.0
30°	2866.0	2859.9	2731.1	2564.4	2391.4	2170.7	1931.5	1649.5	1456.9	1345.3	1339.2
32.5°	3047.5	3002.2	2774.1	2522.7	2298.2	2035.8	1748.8	1497.4	1349.0	1237.4	1232.5
35°	3476.8	3268.3	2836.6	2469.9	2160.9	1849.4	1579.6	1383.4	1263.2	1136.8	1112.3
37.5°	4107.1	3771.1	2965.4	2416.0	2003.9	1665.4	1438.5	1298.7	1184.7	1049.8	1026.5
40°	4694.6	4282.5	3191.0	2375.5	1862.9	1517.0	1341.7	1239.9	1129.5	994.6	965.2
42.5°	5111.5	4679.8	3462.1	2309.3	1721.8	1399.3	1301.2	1217.8	1114.8	989.7	966.4
45°	5447.6	5023.2	3730.6	2234.5	1556.3	1298.7	1259.5	1199.4	1096.4	975.0	948.0
47.5°	5684.2	5239.1	3917.0	2149.8	1398.1	1237.4	1223.9	1170.0	1068.2	954.1	937.0
50°	5928.3	5480.7	4044.6	2062.8	1255.8	1190.8	1174.9	1103.7	1010.5	908.7	890.3
52.5°	6087.7	5598.4	4118.2	2045.6	1134.4	1127.0	1107.4	1040.0	951.7	841.3	819.2
55°	6209.1	5702.6	4107.1	1945.0	1025.2	1043.6	1031.4	981.1	903.8	795.9	781.2
57.5°	6238.6	5718.6	4006.6	1633.5	922.2	932.0	938.2	948.0	873.2	783.7	759.1
60°	6323.2	5643.8	3828.7	1174.9	800.8	825.4	874.4	883.0	831.5	729.7	715.0
62.5°	6269.2	5593.5	3442.4	827.8	715.0	765.3	811.9	811.9	740.7	646.3	636.5
65°	6174.8	5394.8	2693.1	652.4	669.6	721.1	764.0	734.6	673.3	585.0	578.8
67.5°	5934.4	4910.4	1607.8	587.4	637.7	686.8	717.4	673.3	615.6	528.6	518.8
70°	5244.0	3913.4	612.0	556.8	605.8	640.2	659.8	614.4	558.0	470.9	462.3
72.5°	4163.5	2447.8	388.8	518.8	565.4	596.0	608.3	555.5	466.0	366.7	356.9
75°	2505.5	699.0	337.3	448.9	497.9	550.6	529.8	461.1	393.7	307.8	301.7
77.5°	634.0	212.2	300.5	361.8	404.7	467.2	466.0	415.7	343.4	251.4	241.6
80°	152.1	148.4	244.0	267.3	305.4	358.1	353.2	345.8	272.3	174.1	143.5
82.5°	96.9	103.0	165.6	149.6	174.1	208.5	236.7	223.2	203.6	106.7	95.7
85°	65.0	82.2	80.9	56.4	78.5	117.7	153.3	139.8	115.3	66.2	58.9
87.5°	9.8	11.0	14.7	22.1	34.3	57.6	76.0	74.8	56.4	41.7	39.2
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)