

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: P553509

Luminaire Tested: **VERD-G-CA2-140-727-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553509
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-CA2-140-727-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1290mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17293 lumens
Efficiency: N/A
Efficacy: 121.4 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

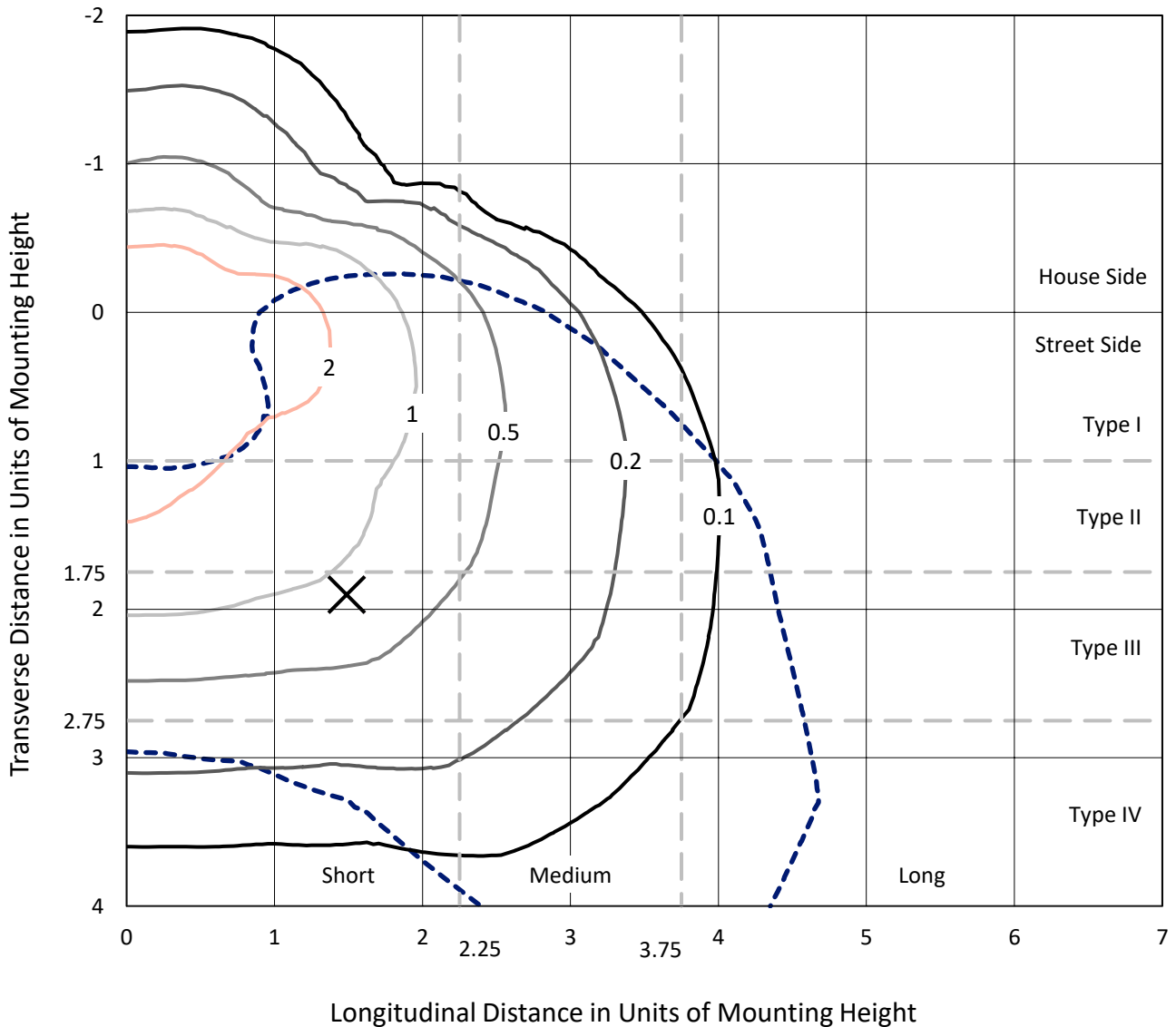
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

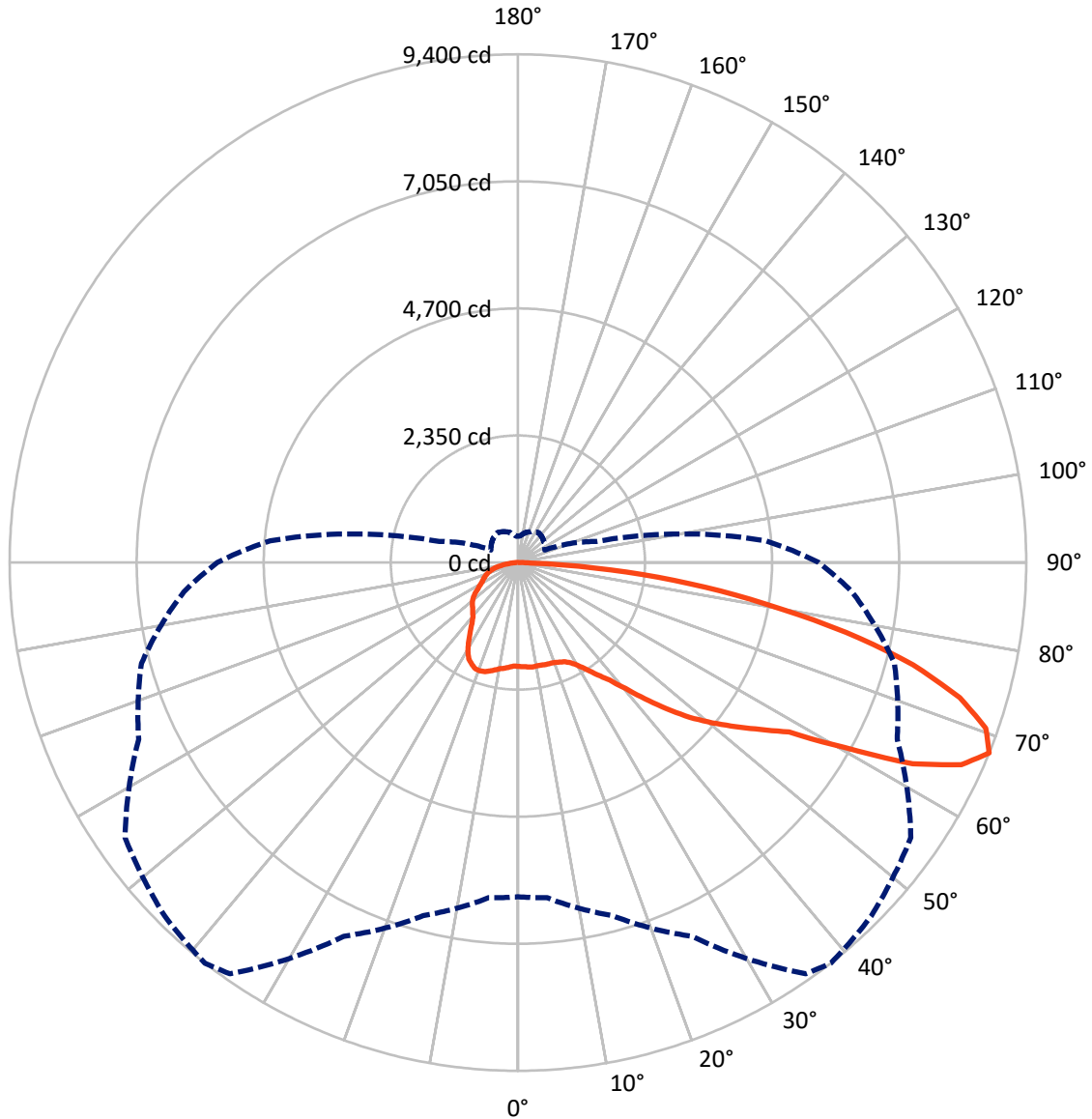
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	4012.5	0.0	4012.5
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	13280.5	0.0	13280.5
	% Fixture	76.8	0.0	76.8
Total	Lumens	17293.0	0.0	17293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	1.1
10°-20°	574.9	3.3
20°-30°	974.4	5.6
30°-40°	1493.2	8.6
40°-50°	2460.4	14.2
50°-60°	3516.6	20.3
60°-70°	4380.7	25.3
70°-80°	3121.7	18.1
80°-90°	584.8	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°	17293.0	100.0
0°-180°	17293.0	100.0

Coefficient of Utilization



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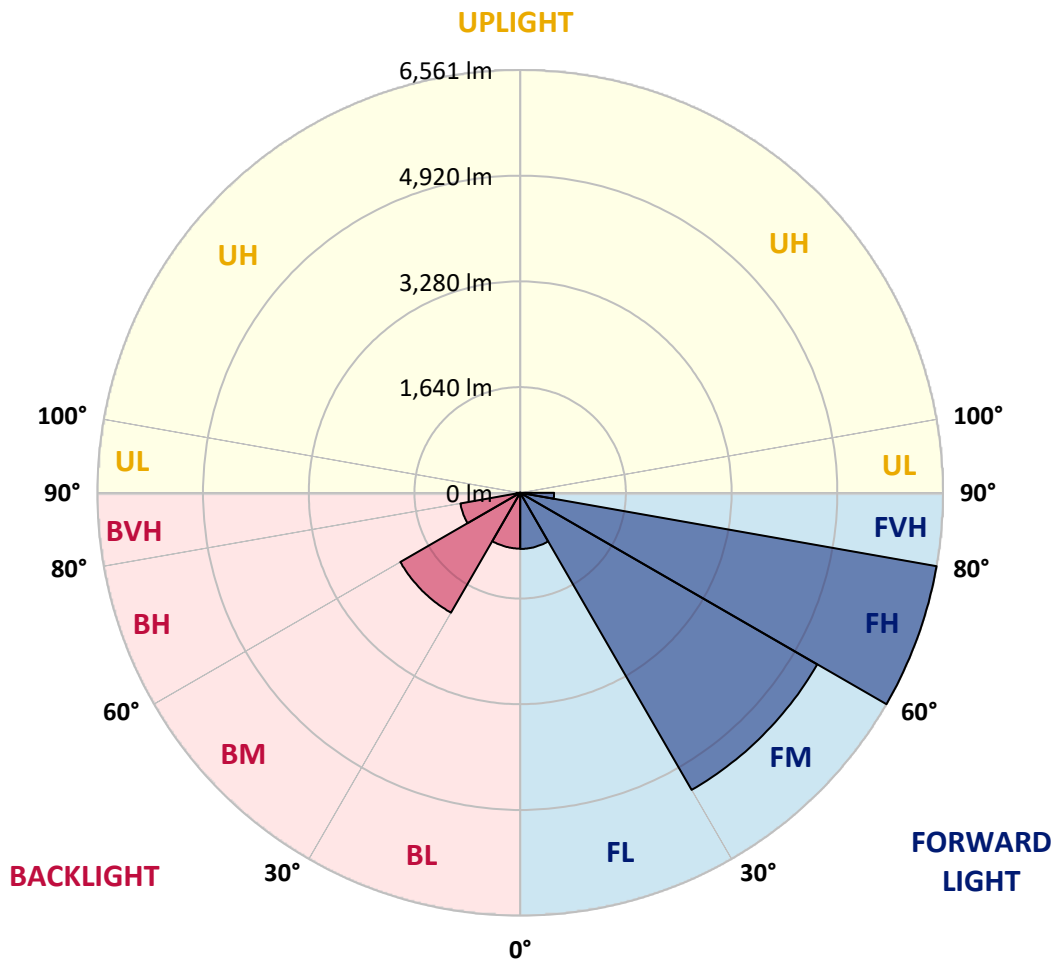
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	870.4	5.0			
FM	(30°-60°)	5322.4	30.8			
FH	(60°-80°)	6560.6	37.9			G3/7500
FVH	(80°-90°)	527.2	3.0			G4/750
BL	(0°-30°)	865.2	5.0	B2/1000		
BM	(30°-60°)	2147.7	12.4	B2/2500		
BH	(60°-80°)	941.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	57.6	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°	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3
2.5°	1956.9	1965.0	1950.0	1947.7	1938.5	1927.0	1929.3	1920.1	1908.6	1913.2	1915.5
5°	1968.4	1968.4	1956.9	1945.4	1940.8	1938.5	1940.8	1930.5	1928.2	1936.2	1929.3
7.5°	1958.1	1965.0	1945.4	1945.4	1937.4	1951.2	1952.3	1939.7	1948.9	1948.9	1947.7
10°	1955.8	1958.1	1950.0	1933.9	1932.8	1940.8	1956.9	1961.5	1966.1	1965.0	1969.5
12.5°	1929.3	1927.0	1910.9	1915.5	1937.4	1945.4	1973.0	1985.6	2002.9	2007.5	2009.8
15°	1896.0	1905.2	1906.3	1920.1	1943.1	1955.8	1983.3	2008.6	2046.5	2055.7	2054.6
17.5°	1899.5	1902.9	1908.6	1916.7	1952.3	1958.1	2002.9	2030.5	2077.6	2109.7	2125.8
20°	1921.3	1914.4	1925.9	1946.6	1966.1	1970.7	2017.8	2060.3	2124.7	2167.2	2185.6
22.5°	1958.1	1959.2	1965.0	1965.0	1978.7	1999.4	2043.1	2076.4	2155.7	2215.5	2247.6
25°	1992.5	1994.8	2001.7	1999.4	2022.4	2031.6	2073.0	2123.5	2214.3	2284.4	2346.5
27.5°	2044.2	2051.1	2046.5	2047.7	2092.5	2101.7	2120.1	2187.9	2281.0	2375.2	2485.5
30°	2140.8	2140.8	2136.2	2140.8	2189.0	2212.0	2217.8	2284.4	2360.2	2474.0	2640.6
32.5°	2279.8	2281.0	2252.2	2275.2	2329.2	2369.4	2386.7	2492.4	2577.4	2632.6	2847.5
35°	2577.4	2564.8	2534.9	2468.3	2502.7	2552.1	2607.3	2741.7	2929.0	3134.7	3350.8
37.5°	3033.6	3032.5	2926.7	2793.5	2733.7	2759.0	2836.0	3037.1	3330.1	3843.7	4034.5
40°	3540.4	3553.0	3400.2	3233.6	3057.7	3060.0	3079.6	3331.2	3755.2	4497.6	4597.5
42.5°	4046.0	4025.3	3856.4	3696.6	3457.6	3442.7	3391.0	3628.8	4199.9	5020.4	5034.2
45°	4496.4	4486.1	4298.8	4136.7	3911.5	3854.1	3795.5	3947.1	4624.0	5443.3	5352.5
47.5°	4919.3	4933.1	4674.5	4528.6	4305.7	4276.9	4209.1	4305.7	5043.4	5775.4	5611.0
50°	5400.7	5406.5	5097.4	4917.0	4696.4	4659.6	4633.2	4756.1	5476.6	6092.5	5874.2
52.5°	5939.7	5827.1	5526.0	5277.8	5066.4	5038.8	5023.8	5152.5	5951.2	6370.6	6047.7
55°	6617.6	6467.1	6159.2	5747.8	5439.8	5444.4	5392.7	5543.2	6351.0	6562.5	6216.6
57.5°	6914.1	6948.6	6891.1	6516.5	5976.4	5909.8	5782.2	5898.3	6731.4	6787.7	6349.9
60°	7472.6	7605.9	7481.8	7272.6	7112.9	6938.2	6315.4	6359.1	7078.4	7037.1	6364.8
62.5°	7510.5	7556.5	7948.3	7981.6	8136.7	8195.3	7679.4	6881.9	7393.3	7162.3	6415.4
65°	7138.2	7189.9	7662.2	8077.0	8930.8	9011.2	8848.0	7839.1	7648.4	7230.1	6375.2
67.5°	6181.0	6223.5	6760.1	7626.5	9283.5	9399.6	9241.0	8868.7	7738.0	7207.1	6198.2
70°	5287.0	5311.1	5757.0	6969.3	9041.1	9177.8	9114.6	8907.8	7734.6	7071.5	5807.5
72.5°	4152.8	4222.9	4582.6	5779.9	8428.6	8543.5	8561.9	8667.6	7538.1	6625.7	4934.2
75°	3011.8	3049.7	3457.6	4490.7	7274.9	7549.6	7872.5	8271.2	6799.2	5624.8	3648.4
77.5°	2122.4	2159.2	2542.9	3404.8	5888.0	6200.5	6784.3	7018.7	5516.8	4216.0	1920.1
80°	1397.3	1392.7	1758.1	2520.0	4418.3	4637.7	5071.0	4757.3	3201.4	1832.8	209.1
82.5°	820.5	866.4	1126.1	1731.7	3087.6	3209.4	3197.9	2505.0	1270.9	189.6	106.9
85°	473.4	490.7	664.2	1026.1	1701.8	1719.0	1539.8	972.1	314.9	85.0	63.2
87.5°	211.4	203.4	264.3	339.0	310.3	231.0	143.6	40.2	24.1	16.1	10.3
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°	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3
2.5°	1906.3	1900.6	1929.3	1913.2	1927.0	1919.0	1912.1	1921.3	1938.5	1953.5	1944.3
5°	1921.3	1924.7	1947.7	1928.2	1946.6	1943.1	1933.9	1944.3	1971.8	1985.6	1984.5
7.5°	1938.5	1940.8	1965.0	1956.9	1965.0	1958.1	1973.0	1966.1	1990.2	1999.4	1993.7
10°	1959.2	1962.7	1984.5	1985.6	1989.1	1984.5	1991.4	1994.8	2008.6	2027.0	2015.5
12.5°	2004.0	2012.1	2028.2	2045.4	2043.1	2024.7	2030.5	2012.1	2024.7	2030.5	2039.6
15°	2066.1	2085.6	2094.8	2118.9	2097.1	2086.8	2064.9	2028.2	2016.7	2010.9	2001.7
17.5°	2132.7	2151.1	2168.3	2199.4	2163.7	2136.2	2098.2	2029.3	1977.6	1959.2	1951.2
20°	2207.4	2224.6	2255.7	2276.4	2223.5	2163.7	2102.8	2001.7	1899.5	1829.4	1837.4
22.5°	2291.3	2329.2	2349.9	2344.2	2269.5	2187.9	2083.3	1929.3	1798.3	1693.8	1686.9
25°	2407.4	2429.2	2437.2	2384.4	2294.7	2170.6	2017.8	1843.1	1660.4	1543.2	1526.0
27.5°	2529.2	2552.1	2509.6	2410.8	2286.7	2130.4	1944.3	1696.1	1500.7	1388.1	1375.5
30°	2685.4	2679.7	2559.0	2402.8	2240.7	2033.9	1809.8	1545.5	1365.1	1260.6	1254.8
32.5°	2855.5	2813.0	2599.3	2363.7	2153.4	1907.5	1638.6	1403.0	1264.0	1159.4	1154.8
35°	3257.7	3062.3	2657.9	2314.3	2024.7	1732.8	1480.0	1296.2	1183.6	1065.2	1042.2
37.5°	3848.3	3533.5	2778.5	2263.7	1877.6	1560.5	1347.9	1216.9	1110.0	983.6	961.8
40°	4398.7	4012.6	2989.9	2225.8	1745.5	1421.4	1257.1	1161.7	1058.3	931.9	904.3
42.5°	4789.4	4384.9	3243.9	2163.7	1613.3	1311.1	1219.2	1141.1	1044.5	927.3	905.5
45°	5104.3	4706.7	3495.5	2093.7	1458.2	1216.9	1180.1	1123.8	1027.3	913.5	888.3
47.5°	5326.1	4908.9	3670.2	2014.4	1310.0	1159.4	1146.8	1096.2	1000.9	894.0	877.9
50°	5554.7	5135.3	3789.7	1932.8	1176.7	1115.8	1100.8	1034.2	946.9	851.5	834.2
52.5°	5704.1	5245.6	3858.7	1916.7	1062.9	1056.0	1037.6	974.4	891.7	788.3	767.6
55°	5817.9	5343.3	3848.3	1822.5	960.6	977.9	966.4	919.3	846.9	745.8	732.0
57.5°	5845.4	5358.2	3754.1	1530.6	864.1	873.3	879.1	888.3	818.2	734.3	711.3
60°	5924.7	5288.1	3587.5	1100.8	750.4	773.3	819.3	827.3	779.1	683.7	669.9
62.5°	5874.2	5241.0	3225.5	775.6	669.9	717.0	760.7	760.7	694.1	605.6	596.4
65°	5785.7	5054.9	2523.4	611.3	627.4	675.7	715.9	688.3	630.9	548.1	542.4
67.5°	5560.5	4601.0	1506.5	550.4	597.5	643.5	672.2	630.9	576.8	495.3	486.1
70°	4913.5	3666.8	573.4	521.7	567.7	599.8	618.2	575.7	522.8	441.3	433.2
72.5°	3901.2	2293.6	364.3	486.1	529.7	558.5	570.0	520.5	436.7	343.6	334.4
75°	2347.6	655.0	316.0	420.6	466.5	515.9	496.4	432.1	368.9	288.4	282.7
77.5°	594.1	198.8	281.5	339.0	379.2	437.8	436.7	389.5	321.7	235.6	226.4
80°	142.5	139.0	228.7	250.5	286.1	335.5	330.9	324.0	255.1	163.2	134.4
82.5°	90.8	96.5	155.1	140.2	163.2	195.3	221.8	209.1	190.7	100.0	89.6
85°	60.9	77.0	75.8	52.9	73.5	110.3	143.6	131.0	108.0	62.1	55.2
87.5°	9.2	10.3	13.8	20.7	32.2	54.0	71.2	70.1	52.9	39.1	36.8
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)