

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: P509553

Luminaire Tested: **VERD-G-CA2-120-730-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509553
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-CA2-120-730-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17323 lumens
Efficiency: N/A
Efficacy: 138.9 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

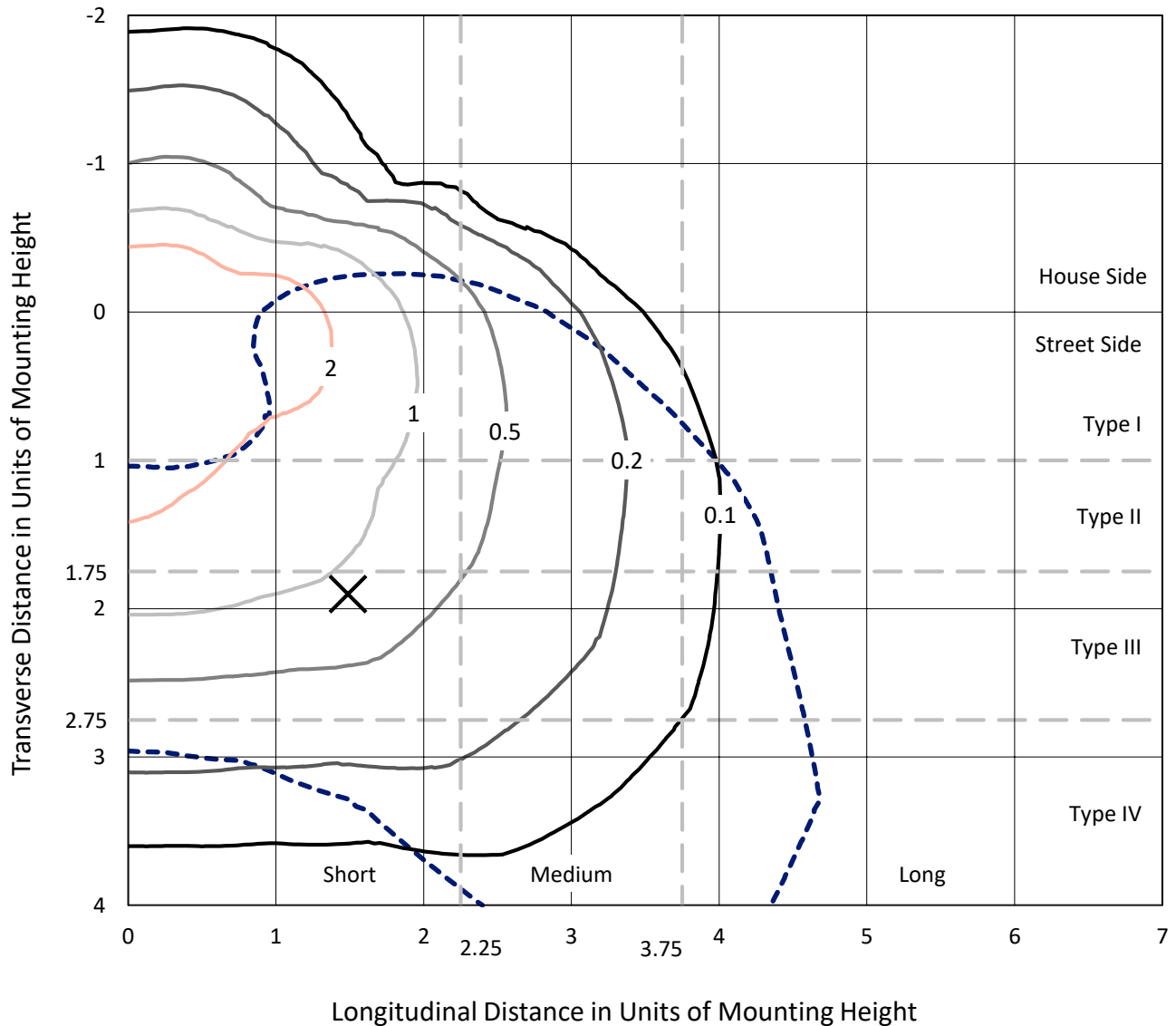
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

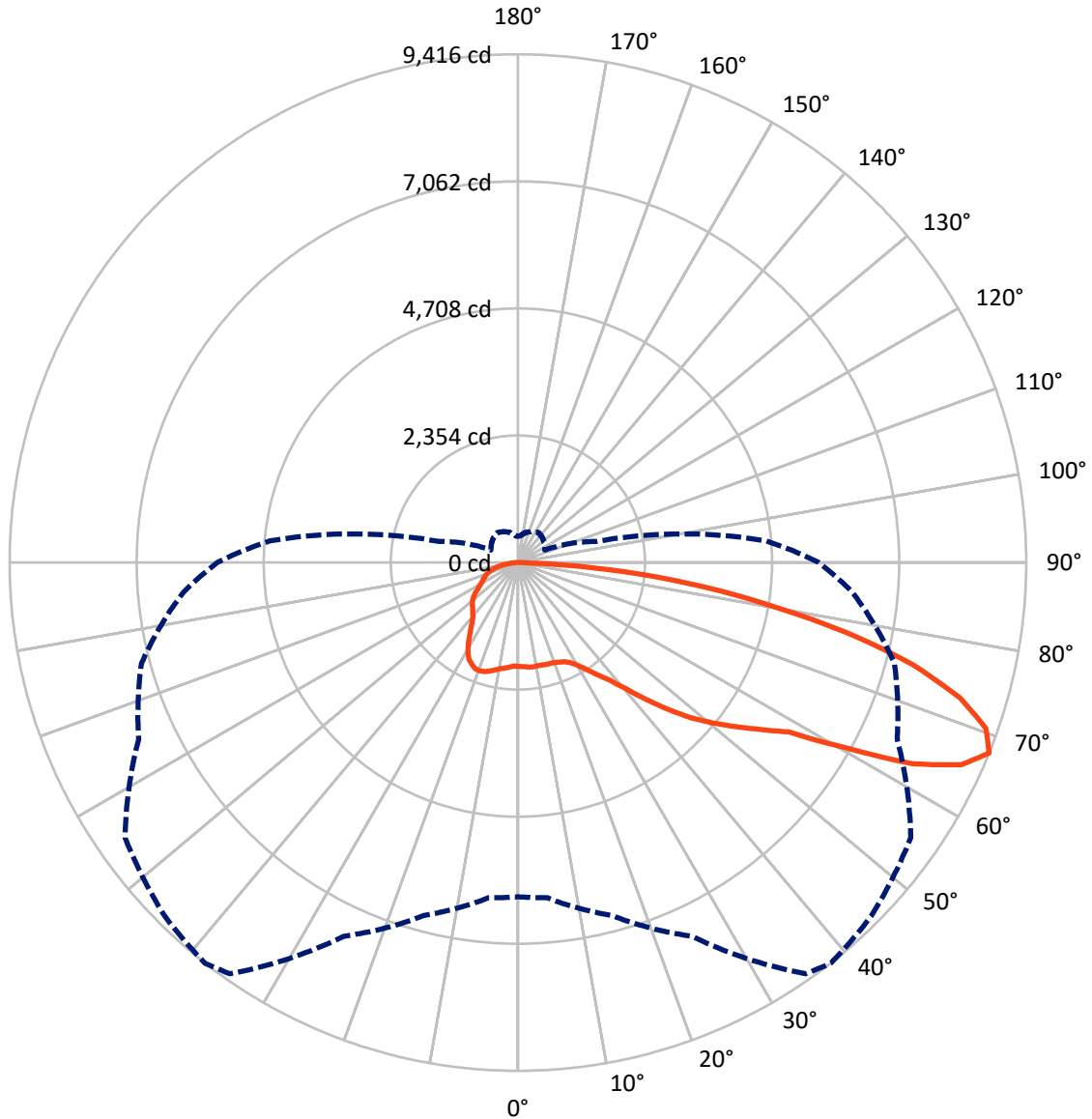
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	4019.4	0.0	4019.4
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	13303.6	0.0	13303.6
	% Fixture	76.8	0.0	76.8
Total	Lumens	17323.0	0.0	17323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.1
10°-20°	575.9	3.3
20°-30°	976.1	5.6
30°-40°	1495.8	8.6
40°-50°	2464.6	14.2
50°-60°	3522.7	20.3
60°-70°	4388.3	25.3
70°-80°	3127.2	18.1
80°-90°	585.8	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°	17323.0	100.0
0°-180°	17323.0	100.0

Coefficient of Utilization



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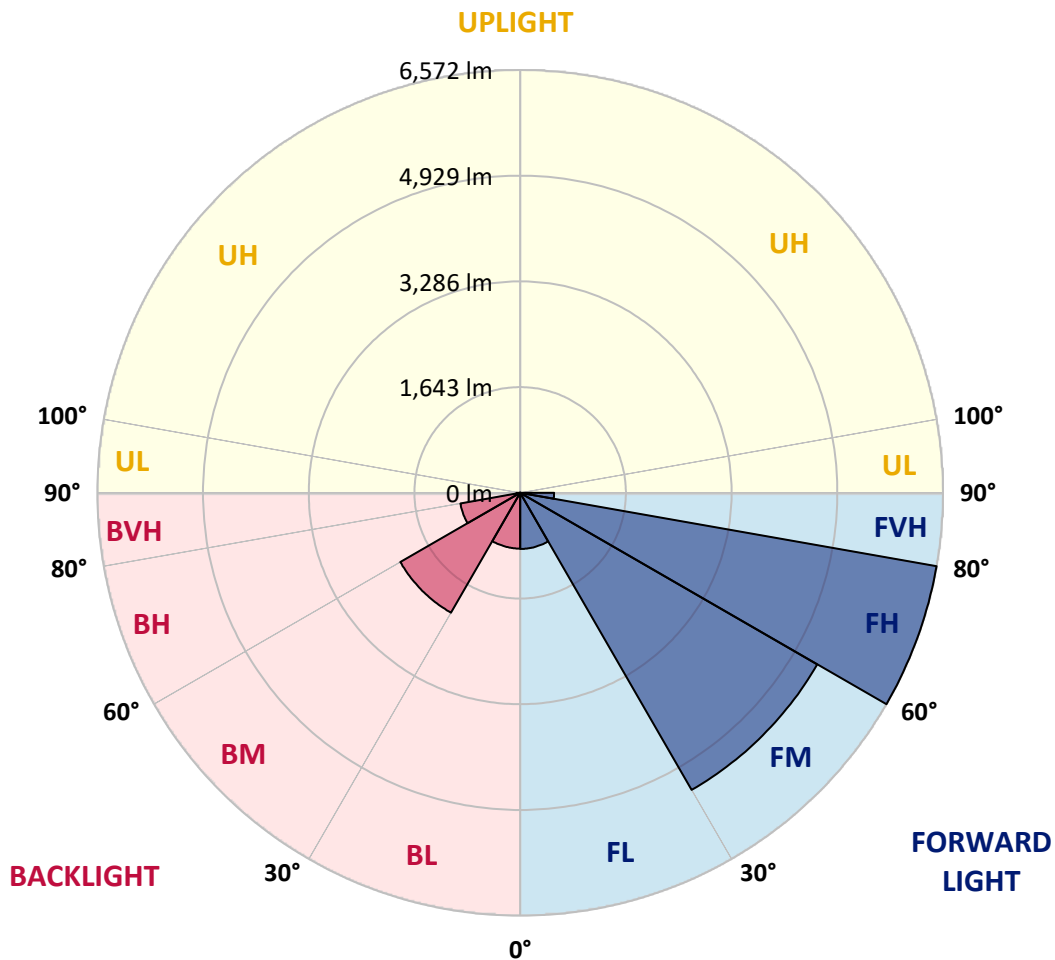
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.9	5.0			
FM	(30°-60°)	5331.6	30.8			
FH	(60°-80°)	6571.9	37.9			G3/7500
FVH	(80°-90°)	528.1	3.0			G4/750
BL	(0°-30°)	866.7	5.0	B2/1000		
BM	(30°-60°)	2151.5	12.4	B2/2500		
BH	(60°-80°)	943.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	57.7	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°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1960.3	1968.4	1953.4	1951.1	1941.9	1930.4	1932.7	1923.5	1912.0	1916.6	1918.9
5°	1971.8	1971.8	1960.3	1948.8	1944.2	1941.9	1944.2	1933.8	1931.5	1939.6	1932.7
7.5°	1961.5	1968.4	1948.8	1948.8	1940.7	1954.5	1955.7	1943.0	1952.2	1952.2	1951.1
10°	1959.2	1961.5	1953.4	1937.3	1936.1	1944.2	1960.3	1964.9	1969.5	1968.4	1973.0
12.5°	1932.7	1930.4	1914.3	1918.9	1940.7	1948.8	1976.4	1989.1	2006.3	2011.0	2013.3
15°	1899.3	1908.5	1909.7	1923.5	1946.5	1959.2	1986.8	2012.1	2050.1	2059.3	2058.1
17.5°	1902.7	1906.2	1912.0	1920.0	1955.7	1961.5	2006.3	2034.0	2081.2	2113.4	2129.5
20°	1924.6	1917.7	1929.2	1949.9	1969.5	1974.1	2021.3	2063.9	2128.4	2171.0	2189.4
22.5°	1961.5	1962.6	1968.4	1968.4	1982.2	2002.9	2046.6	2080.0	2159.4	2219.3	2251.5
25°	1996.0	1998.3	2005.2	2002.9	2025.9	2035.1	2076.6	2127.2	2218.1	2288.4	2350.5
27.5°	2047.8	2054.7	2050.1	2051.2	2096.1	2105.3	2123.8	2191.7	2284.9	2379.3	2489.8
30°	2144.5	2144.5	2139.9	2144.5	2192.8	2215.8	2221.6	2288.4	2364.3	2478.3	2645.2
32.5°	2283.8	2284.9	2256.1	2279.2	2333.3	2373.5	2390.8	2496.7	2581.9	2637.1	2852.4
35°	2581.9	2569.2	2539.3	2472.5	2507.1	2556.6	2611.8	2746.5	2934.1	3140.2	3356.6
37.5°	3038.9	3037.7	2931.8	2798.3	2738.4	2763.8	2840.9	3042.3	3335.9	3850.4	4041.5
40°	3546.5	3559.2	3406.1	3239.2	3063.0	3065.3	3084.9	3337.0	3761.8	4505.4	4605.5
42.5°	4053.0	4032.3	3863.1	3703.1	3463.6	3448.7	3396.9	3635.1	4207.2	5029.1	5042.9
45°	4504.2	4493.9	4306.2	4143.9	3918.3	3860.8	3802.0	3954.0	4632.0	5452.7	5361.8
47.5°	4927.8	4941.6	4682.6	4536.4	4313.1	4284.4	4216.4	4313.1	5052.1	5785.4	5620.8
50°	5410.1	5415.9	5106.2	4925.5	4704.5	4667.7	4641.2	4764.4	5486.1	6103.1	5884.4
52.5°	5950.0	5837.2	5535.6	5287.0	5075.2	5047.5	5032.6	5161.5	5961.5	6381.6	6058.2
55°	6629.1	6478.3	6169.8	5757.7	5449.3	5453.9	5402.1	5552.9	6362.1	6573.9	6227.4
57.5°	6926.1	6960.6	6903.1	6527.8	5986.8	5920.0	5792.3	5908.5	6743.1	6799.5	6360.9
60°	7485.5	7619.1	7494.7	7285.2	7125.2	6950.3	6326.4	6370.1	7090.7	7049.3	6375.9
62.5°	7523.5	7569.6	7962.1	7995.5	8150.9	8209.6	7692.7	6893.9	7406.1	7174.7	6426.5
65°	7150.6	7202.4	7675.5	8091.0	8946.3	9026.8	8863.4	7852.7	7661.6	7242.7	6386.2
67.5°	6191.7	6234.3	6771.9	7639.8	9299.6	9415.9	9257.1	8884.1	7751.4	7219.6	6209.0
70°	5296.2	5320.3	5767.0	6981.4	9056.8	9193.7	9130.4	8923.2	7748.0	7083.8	5817.6
72.5°	4160.0	4230.3	4590.5	5790.0	8443.2	8558.3	8576.8	8682.7	7551.1	6637.2	4942.8
75°	3017.0	3055.0	3463.6	4498.5	7287.5	7562.7	7886.1	8285.5	6811.0	5634.6	3654.7
77.5°	2126.1	2162.9	2547.4	3410.7	5898.2	6211.3	6796.0	7030.9	5526.4	4223.3	1923.5
80°	1399.7	1395.1	1761.2	2524.3	4425.9	4645.8	5079.8	4765.5	3206.9	1836.0	209.5
82.5°	821.9	867.9	1128.1	1734.7	3093.0	3215.0	3203.5	2509.4	1273.1	189.9	107.1
85°	474.2	491.5	665.3	1027.9	1704.8	1722.0	1542.5	973.8	315.4	85.2	63.3
87.5°	211.8	203.7	264.8	339.6	310.8	231.4	143.9	40.3	24.2	16.1	10.4
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°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1909.7	1903.9	1932.7	1916.6	1930.4	1922.3	1915.4	1924.6	1941.9	1956.9	1947.6
5°	1924.6	1928.1	1951.1	1931.5	1949.9	1946.5	1937.3	1947.6	1975.3	1989.1	1987.9
7.5°	1941.9	1944.2	1968.4	1960.3	1968.4	1961.5	1976.4	1969.5	1993.7	2002.9	1997.1
10°	1962.6	1966.1	1987.9	1989.1	1992.5	1987.9	1994.8	1998.3	2012.1	2030.5	2019.0
12.5°	2007.5	2015.6	2031.7	2048.9	2046.6	2028.2	2034.0	2015.6	2028.2	2034.0	2043.2
15°	2069.7	2089.2	2098.4	2122.6	2100.7	2090.4	2068.5	2031.7	2020.2	2014.4	2005.2
17.5°	2136.4	2154.8	2172.1	2203.2	2167.5	2139.9	2101.9	2032.8	1981.0	1962.6	1954.5
20°	2211.2	2228.5	2259.6	2280.3	2227.4	2167.5	2106.5	2005.2	1902.7	1832.5	1840.6
22.5°	2295.3	2333.3	2354.0	2348.2	2273.4	2191.7	2086.9	1932.7	1801.5	1696.7	1689.8
25°	2411.5	2433.4	2441.5	2388.5	2298.7	2174.4	2021.3	1846.3	1663.3	1545.9	1528.6
27.5°	2533.5	2556.6	2514.0	2415.0	2290.7	2134.1	1947.6	1699.0	1503.3	1390.5	1377.9
30°	2690.1	2684.3	2563.5	2406.9	2244.6	2037.4	1813.0	1548.2	1367.5	1262.7	1257.0
32.5°	2860.5	2817.9	2603.8	2367.8	2157.1	1910.8	1641.5	1405.5	1266.2	1161.4	1156.8
35°	3263.3	3067.7	2662.5	2318.3	2028.2	1735.8	1482.6	1298.4	1185.6	1067.1	1044.0
37.5°	3855.0	3539.6	2783.3	2267.6	1880.9	1563.2	1350.2	1219.0	1112.0	985.3	963.5
40°	4406.4	4019.6	2995.1	2229.7	1748.5	1423.9	1259.3	1163.8	1060.2	933.5	905.9
42.5°	4797.7	4392.6	3249.5	2167.5	1616.1	1313.4	1221.3	1143.0	1046.3	928.9	907.1
45°	5113.1	4714.9	3501.6	2097.3	1460.7	1219.0	1182.2	1125.8	1029.1	915.1	889.8
47.5°	5335.3	4917.5	3676.6	2017.9	1312.2	1161.4	1148.8	1098.1	1002.6	895.5	879.4
50°	5564.4	5144.2	3796.3	1936.1	1178.7	1117.7	1102.7	1036.0	948.5	853.0	835.7
52.5°	5714.0	5254.7	3865.4	1920.0	1064.8	1057.9	1039.4	976.1	893.2	789.6	768.9
55°	5828.0	5352.6	3855.0	1825.6	962.3	979.6	968.1	920.9	848.4	747.1	733.2
57.5°	5855.6	5367.5	3760.6	1533.3	865.6	874.8	880.6	889.8	819.6	735.5	712.5
60°	5935.0	5297.3	3593.7	1102.7	751.7	774.7	820.7	828.8	780.4	684.9	671.1
62.5°	5884.4	5250.1	3231.1	777.0	671.1	718.3	762.0	762.0	695.3	606.6	597.4
65°	5795.7	5063.6	2527.8	612.4	628.5	676.8	717.1	689.5	631.9	549.1	543.3
67.5°	5570.1	4609.0	1509.1	551.4	598.6	644.6	673.4	631.9	577.8	496.1	486.9
70°	4922.1	3673.1	574.4	522.6	568.6	600.9	619.3	576.7	523.7	442.0	434.0
72.5°	3907.9	2297.6	364.9	486.9	530.7	559.4	570.9	521.4	437.4	344.2	335.0
75°	2351.7	656.1	316.5	421.3	467.3	516.8	497.3	432.8	369.5	288.9	283.2
77.5°	595.1	199.1	282.0	339.6	379.9	438.6	437.4	390.2	322.3	236.0	226.8
80°	142.7	139.3	229.1	250.9	286.6	336.1	331.5	324.6	255.5	163.5	134.7
82.5°	90.9	96.7	155.4	140.4	163.5	195.7	222.2	209.5	191.1	100.1	89.8
85°	61.0	77.1	76.0	53.0	73.7	110.5	143.9	131.2	108.2	62.2	55.3
87.5°	9.2	10.4	13.8	20.7	32.2	54.1	71.4	70.2	53.0	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)