

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: P509193

Luminaire Tested: **VERD-CA2-120-760-U-T4**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-120-760-U-T4  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

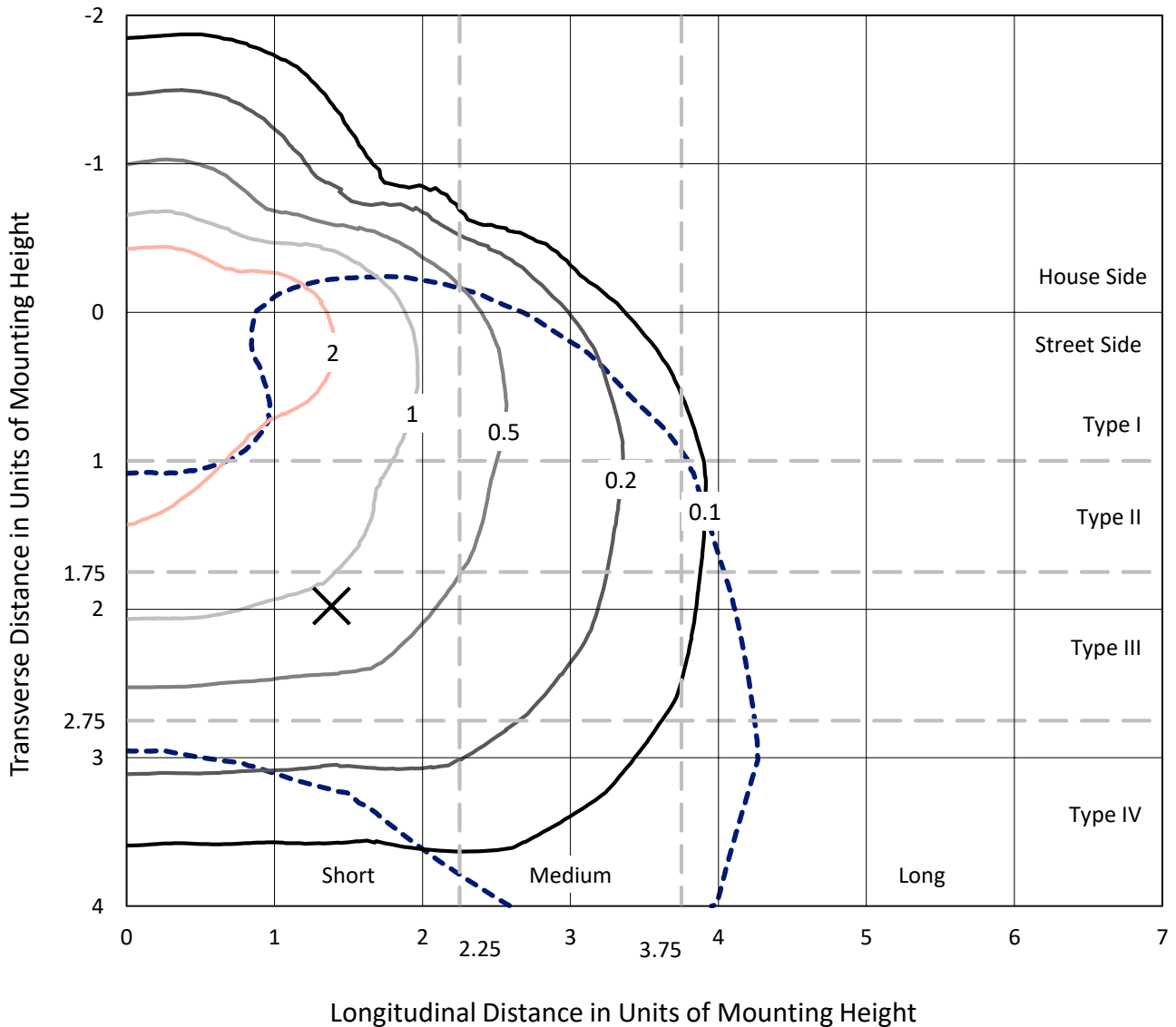
Lumens per Lamp: N/A  
Luminaire Lumens: 17191 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 122.7  
Input Voltage (V): NR  
Input Current (Ain): 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

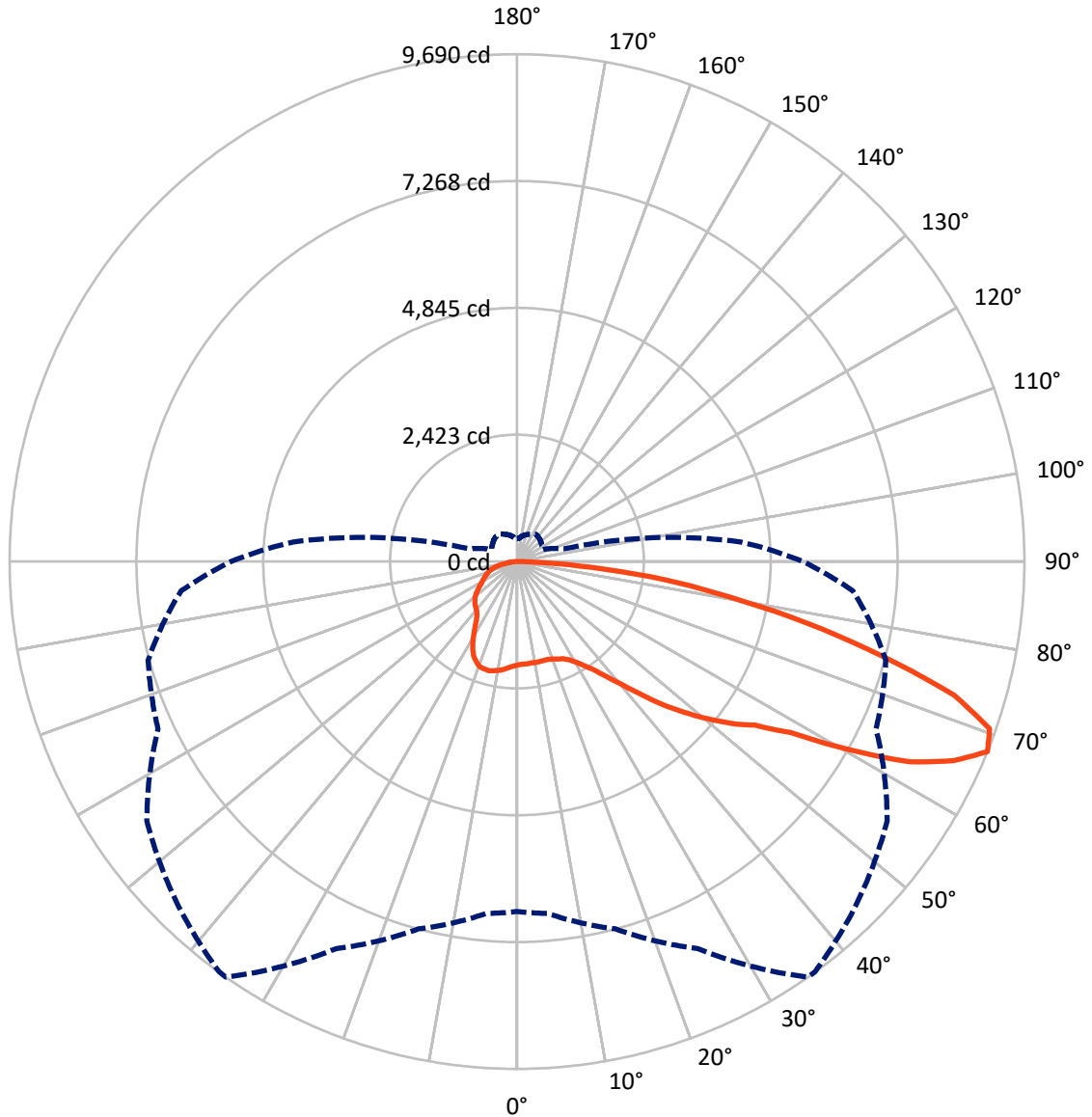
✕ Max cd  
 - - - 1/2 Max cd



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 35-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3916.5	0.0	3916.5
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	13274.5	0.0	13274.5
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	17191.0	0.0	17191.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.2	1.1
10°-20°	586.4	3.4
20°-30°	978.7	5.7
30°-40°	1505.8	8.8
40°-50°	2481.5	14.4
50°-60°	3544.4	20.6
60°-70°	4413.0	25.7
70°-80°	2978.1	17.3
80°-90°	511.9	3.0
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°	17191.0	100.0
0°-180°	17191.0	100.0

**Coefficient of Utilization**



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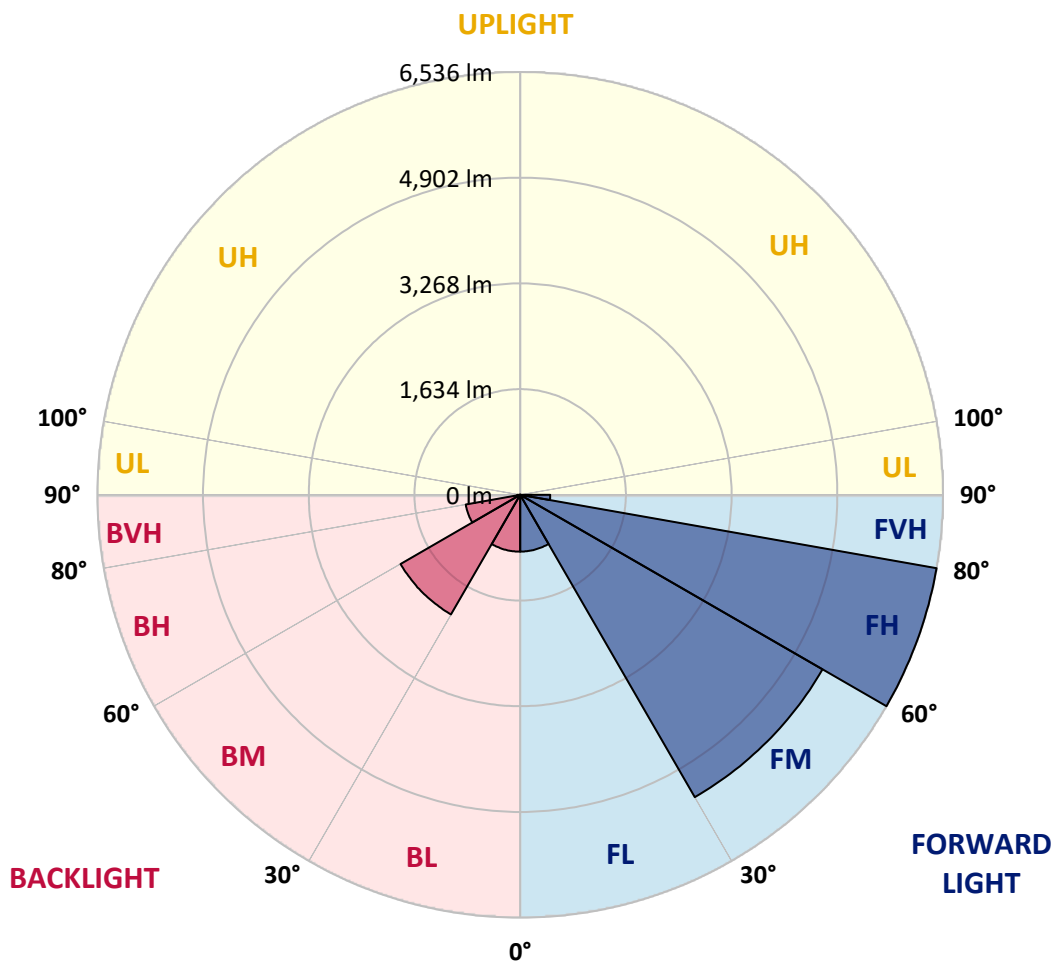
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.3	5.1			
FM (30°-60°)	5396.4	31.4			
FH (60°-80°)	6536.1	38.0			G3/7500
FVH (80°-90°)	464.7	2.7			G3/500
BL (0°-30°)	879.0	5.1	B2/1000		
BM (30°-60°)	2135.3	12.4	B2/2500		
BH (60°-80°)	855.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	47.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5
2.5°	1947.7	1966.2	1964.3	1960.6	1962.5	1964.3	1955.1	1949.5	1956.9	1958.8	1968.1
5°	1945.8	1960.6	1958.8	1958.8	1964.3	1962.5	1947.7	1936.5	1949.5	1958.8	1968.1
7.5°	1944.0	1956.9	1956.9	1951.4	1955.1	1955.1	1947.7	1955.1	1955.1	1969.9	1981.0
10°	1942.1	1953.2	1953.2	1955.1	1960.6	1962.5	1962.5	1968.1	1988.4	1994.0	2016.2
12.5°	1919.9	1929.1	1936.5	1947.7	1958.8	1962.5	1971.8	1988.4	2014.4	2027.4	2053.3
15°	1901.3	1914.3	1927.3	1938.4	1955.1	1958.8	1979.2	2007.0	2034.8	2062.6	2101.5
17.5°	1908.8	1925.4	1940.3	1949.5	1962.5	1966.2	1986.6	2023.6	2068.1	2108.9	2162.6
20°	1925.4	1944.0	1958.8	1969.9	1986.6	1990.3	2007.0	2042.2	2099.6	2162.6	2223.8
22.5°	1966.2	1979.2	1995.9	2001.4	2019.9	2023.6	2034.8	2070.0	2144.1	2223.8	2301.6
25°	2003.3	2018.1	2031.1	2036.6	2057.0	2060.7	2081.1	2110.7	2197.8	2288.6	2401.7
27.5°	2051.4	2066.3	2082.9	2088.5	2123.7	2127.4	2136.7	2181.2	2268.3	2373.9	2514.7
30°	2144.1	2153.4	2171.9	2194.1	2229.3	2233.1	2253.4	2299.8	2362.8	2492.5	2679.7
32.5°	2284.9	2297.9	2290.5	2320.2	2372.0	2372.0	2442.5	2520.3	2598.1	2688.9	2937.3
35°	2555.5	2548.1	2540.7	2514.7	2546.2	2557.4	2655.6	2787.1	3004.0	3259.7	3504.3
37.5°	2890.9	2889.1	2850.2	2790.9	2789.0	2792.7	2881.7	3104.0	3448.7	4017.6	4280.8
40°	3406.1	3420.9	3283.8	3161.5	3092.9	3078.1	3148.5	3428.3	3891.6	4649.6	4829.3
42.5°	3921.3	3889.8	3778.6	3580.3	3465.4	3456.1	3469.1	3713.7	4321.6	5161.0	5225.9
45°	4377.2	4401.2	4227.1	4106.6	3895.3	3899.0	3841.6	4065.8	4747.8	5522.4	5533.5
47.5°	4842.3	4860.8	4644.0	4506.9	4304.9	4304.9	4214.1	4392.0	5127.7	5867.1	5844.9
50°	5338.9	5381.6	5109.2	4901.6	4716.3	4708.9	4681.1	4792.3	5502.0	6158.0	6069.1
52.5°	6009.8	5863.4	5605.8	5324.1	5140.7	5118.4	5092.5	5172.2	5932.0	6395.2	6213.6
55°	6702.9	6504.6	6241.4	5863.4	5516.9	5548.4	5483.5	5574.3	6326.7	6678.8	6402.7
57.5°	7123.5	7197.7	7055.0	6730.7	6159.9	6154.3	5909.7	5957.9	6680.6	6917.8	6602.8
60°	7566.4	7670.2	7766.6	7573.9	7303.3	7181.0	6552.8	6365.6	7079.1	7092.0	6580.6
62.5°	7798.1	7777.7	8196.5	8218.8	8428.2	8443.0	7829.6	6893.7	7314.4	7238.4	6658.4
65°	7384.8	7396.0	8085.3	8444.8	9165.7	9208.3	8984.1	7822.2	7512.7	7307.0	6569.4
67.5°	6684.3	6747.3	7264.4	8153.9	9690.2	9682.7	9197.2	8630.2	7564.6	7292.2	6439.7
70°	5466.8	5533.5	6063.5	7355.2	9575.3	9514.1	9106.4	8695.0	7520.1	7158.7	5793.0
72.5°	4193.7	4184.4	4733.0	5874.5	8730.2	8789.5	8641.3	8237.3	7307.0	6588.0	4745.9
75°	2955.8	2909.5	3396.8	4453.1	7199.5	7418.2	7924.1	7812.9	6500.9	5422.3	3172.6
77.5°	1940.3	2010.7	2399.8	3293.1	5661.4	5844.9	6543.5	6323.0	4810.8	3459.8	1145.3
80°	1232.3	1295.4	1610.4	2351.7	4115.9	4199.3	4770.0	4021.4	2570.3	1141.5	159.4
82.5°	748.7	757.9	1037.8	1590.0	2839.0	2839.0	3004.0	2247.9	1006.3	148.3	103.8
85°	398.4	420.7	559.7	858.0	1430.6	1538.1	1362.1	858.0	194.6	81.5	63.0
87.5°	126.0	127.9	183.5	331.7	307.6	316.9	105.6	44.5	22.2	14.8	13.0
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°	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5
2.5°	1971.8	1973.6	1984.7	1990.3	1992.1	1986.6	1999.6	2018.1	2012.5	2032.9	2025.5
5°	1971.8	1981.0	1995.9	1994.0	2008.8	2016.2	2031.1	2049.6	2044.0	2073.7	2062.6
7.5°	1986.6	2001.4	2012.5	2034.8	2045.9	2042.2	2075.5	2090.4	2082.9	2105.2	2094.1
10°	2023.6	2040.3	2055.2	2079.2	2095.9	2088.5	2107.0	2116.3	2103.3	2125.6	2120.0
12.5°	2066.3	2084.8	2114.5	2131.1	2144.1	2131.1	2131.1	2125.6	2107.0	2127.4	2114.5
15°	2114.5	2138.5	2179.3	2197.8	2194.1	2171.9	2151.5	2112.6	2062.6	2071.8	2053.3
17.5°	2179.3	2209.0	2255.3	2266.4	2251.6	2197.8	2144.1	2073.7	1984.7	1962.5	1947.7
20°	2249.7	2283.1	2348.0	2342.4	2309.0	2214.5	2129.3	2019.9	1881.0	1817.9	1788.3
22.5°	2346.1	2379.5	2440.6	2407.3	2338.7	2214.5	2070.0	1918.0	1753.1	1660.4	1640.0
25°	2451.7	2498.1	2524.0	2449.9	2331.3	2164.5	1990.3	1790.2	1578.9	1478.8	1458.4
27.5°	2581.4	2613.0	2587.0	2455.4	2294.2	2081.1	1860.6	1619.7	1417.7	1332.4	1302.8
30°	2733.4	2737.1	2635.2	2444.3	2210.8	1962.5	1701.2	1447.3	1291.7	1212.0	1193.4
32.5°	2935.4	2898.3	2677.8	2392.4	2097.8	1799.4	1523.3	1332.4	1202.7	1102.6	1076.7
35°	3461.7	3293.1	2772.3	2333.1	1960.6	1617.8	1369.5	1228.6	1119.3	1006.3	985.9
37.5°	4143.7	3845.3	2939.1	2272.0	1805.0	1451.0	1267.6	1167.5	1074.8	948.8	921.0
40°	4655.1	4310.4	3196.7	2205.3	1662.3	1332.4	1212.0	1143.4	1041.5	926.6	896.9
42.5°	5046.1	4697.8	3461.7	2131.1	1528.9	1239.8	1173.0	1126.7	1028.5	921.0	896.9
45°	5316.7	4968.3	3689.6	2044.0	1358.4	1160.1	1143.4	1098.9	1004.4	900.6	876.5
47.5°	5591.0	5159.2	3817.5	1953.2	1215.7	1115.6	1100.8	1050.7	963.6	865.4	846.9
50°	5830.0	5376.0	3926.8	1860.6	1102.6	1061.9	1052.6	985.9	902.5	809.8	785.7
52.5°	5898.6	5427.9	3882.4	1855.0	1000.7	1004.4	985.9	932.1	854.3	754.2	730.1
55°	6054.3	5572.4	3774.9	1684.5	902.5	915.5	911.8	884.0	811.7	719.0	700.5
57.5°	6121.0	5463.1	3619.2	1252.7	800.6	811.7	843.2	843.2	780.2	696.8	680.1
60°	6111.7	5466.8	3341.2	876.5	700.5	730.1	774.6	774.6	724.6	643.0	622.7
62.5°	6041.3	5326.0	2879.8	669.0	637.5	680.1	732.0	698.6	654.2	563.4	548.5
65°	5924.5	4938.7	1995.9	587.5	602.3	652.3	678.3	637.5	583.7	502.2	492.9
67.5°	5457.5	4290.1	928.4	537.4	572.6	611.5	633.8	576.3	520.7	446.6	435.5
70°	4645.9	3139.2	400.3	498.5	537.4	565.2	587.5	528.1	468.8	404.0	400.3
72.5°	3378.3	1675.3	333.6	437.3	478.1	507.8	535.6	476.3	418.8	342.8	342.8
75°	1627.1	278.0	287.2	363.2	400.3	459.6	472.6	389.2	324.3	261.3	255.7
77.5°	200.1	179.8	248.3	289.1	320.6	352.1	383.6	337.3	279.8	215.0	203.8
80°	126.0	126.0	196.4	202.0	218.7	252.0	281.7	263.1	220.5	124.2	114.9
82.5°	92.7	100.1	129.7	96.4	114.9	144.5	164.9	187.2	159.4	87.1	81.5
85°	59.3	64.9	61.2	48.2	63.0	96.4	131.6	129.7	107.5	64.9	61.2
87.5°	13.0	13.0	13.0	11.1	13.0	16.7	31.5	61.2	44.5	35.2	33.4
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)