

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: P509055

Luminaire Tested: **VERD-CA2-100-722-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-100-722-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1370mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11375 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

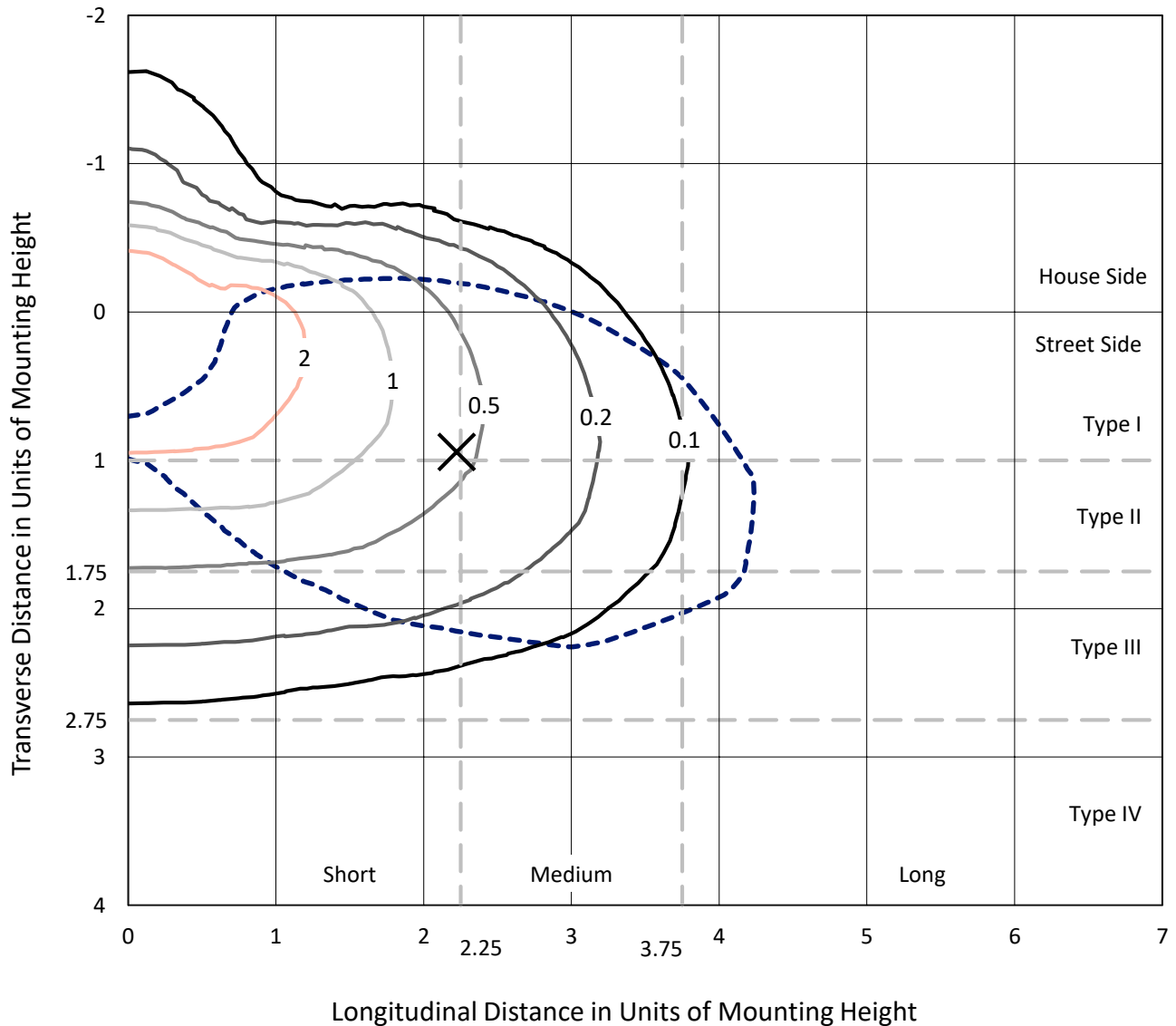
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

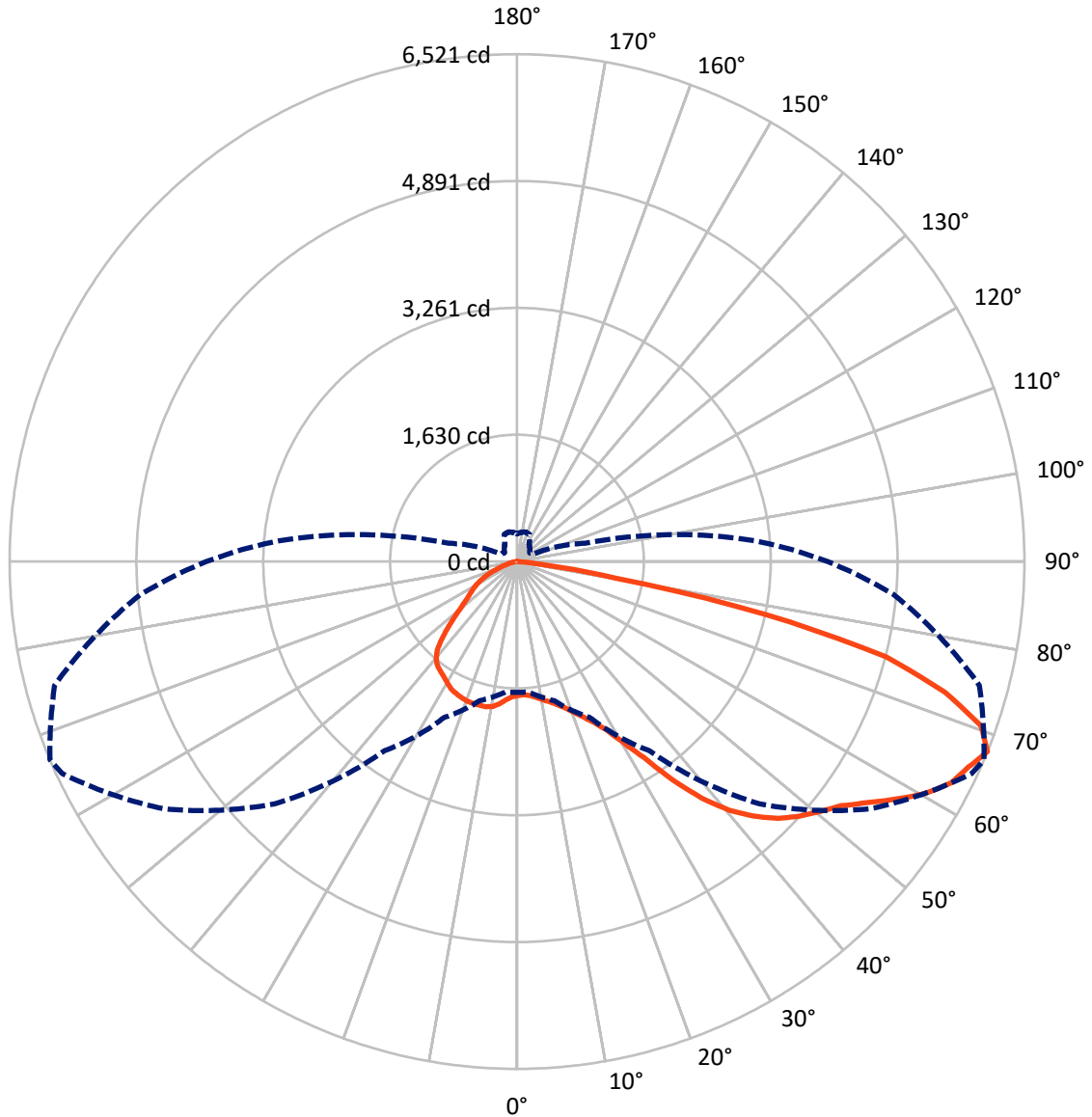
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2601.0	0.0	2601.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8774.0	0.0	8774.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	11375.0	0.0	11375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.3	1.5
10°-20°	557.8	4.9
20°-30°	963.7	8.5
30°-40°	1462.9	12.9
40°-50°	1987.8	17.5
50°-60°	2364.1	20.8
60°-70°	2432.3	21.4
70°-80°	1326.8	11.7
80°-90°	105.4	0.9
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°	11375.0	100.0
0°-180°	11375.0	100.0

**Coefficient of Utilization**



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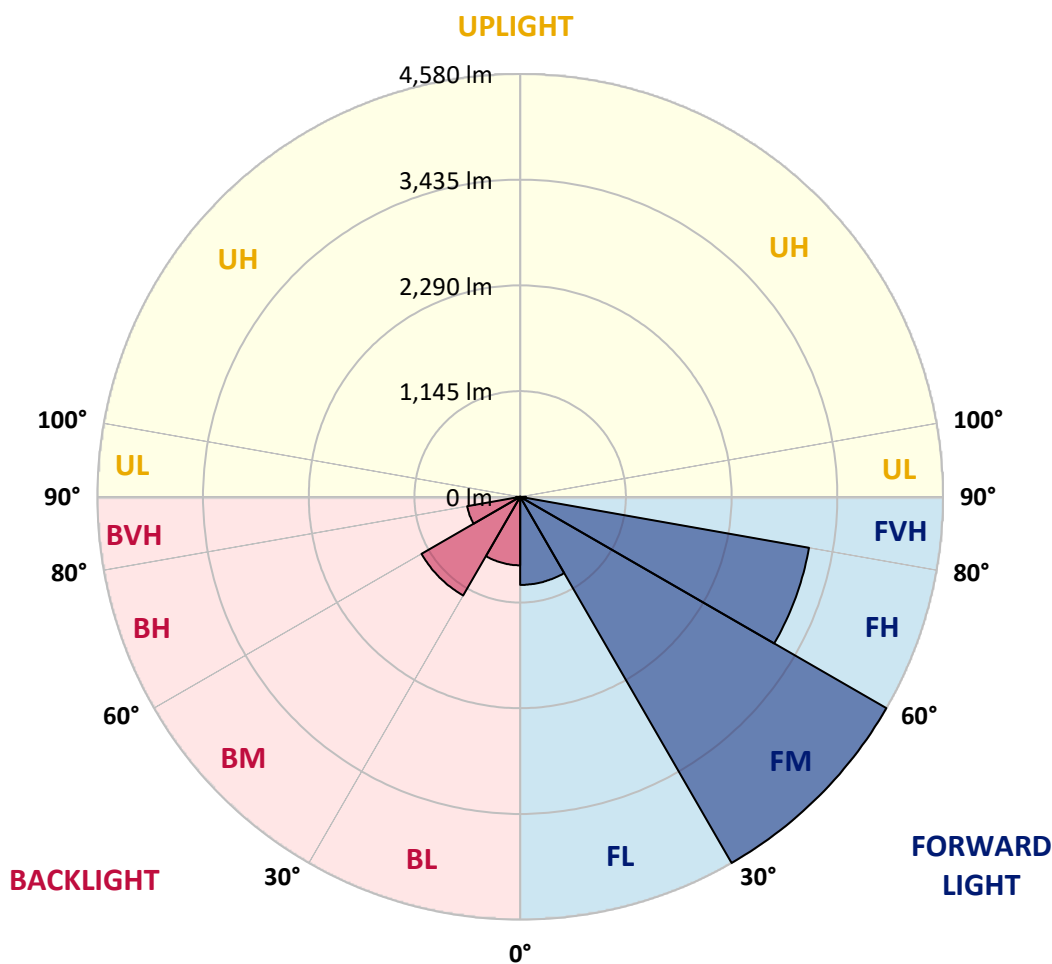
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	954.1	8.4			
FM	(30°-60°)	4580.0	40.3			
FH	(60°-80°)	3176.8	27.9			G2/5000
FVH	(80°-90°)	63.1	0.6			G1/100
BL	(0°-30°)	741.7	6.5	B2/1000		
BM	(30°-60°)	1234.6	10.9	B2/2500		
BH	(60°-80°)	582.3	5.1	B2/1000		G2/1000
BVH	(80°-90°)	42.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9
2.5°	1730.7	1723.3	1713.5	1717.2	1709.8	1722.1	1717.2	1714.7	1714.7	1715.9	1722.1
5°	1770.1	1762.7	1755.3	1754.1	1739.3	1744.3	1736.9	1729.5	1729.5	1728.2	1730.7
7.5°	1839.1	1829.3	1820.6	1819.4	1800.9	1798.5	1776.3	1761.5	1761.5	1760.3	1764.0
10°	1930.3	1926.6	1909.3	1898.2	1876.1	1861.3	1834.2	1810.8	1805.8	1798.5	1808.3
12.5°	2017.7	2016.5	2000.5	1988.2	1957.4	1931.5	1887.1	1855.1	1849.0	1840.3	1847.7
15°	2127.4	2116.3	2099.0	2091.6	2047.3	2007.9	1957.4	1909.3	1903.2	1893.3	1899.5
17.5°	2248.1	2241.9	2214.8	2206.2	2150.8	2105.2	2042.4	1980.8	1970.9	1957.4	1956.1
20°	2393.4	2382.3	2361.4	2336.8	2282.6	2217.3	2144.6	2074.4	2065.8	2054.7	2031.3
22.5°	2549.9	2537.5	2516.6	2490.7	2421.8	2352.8	2261.6	2172.9	2168.0	2160.6	2117.5
25°	2698.9	2678.0	2680.4	2655.8	2594.2	2506.8	2399.6	2293.6	2291.2	2290.0	2221.0
27.5°	2857.8	2835.6	2828.3	2819.6	2761.7	2679.2	2558.5	2457.5	2448.9	2450.1	2345.4
30°	3006.9	2997.0	2990.9	2984.7	2956.4	2882.5	2766.7	2676.7	2703.8	2701.4	2557.3
32.5°	3122.7	3115.3	3141.1	3170.7	3163.3	3101.7	3021.7	2981.0	3008.1	3095.6	2969.9
35°	3224.9	3221.2	3270.5	3333.3	3377.6	3333.3	3324.7	3387.5	3450.3	3595.7	3523.0
37.5°	3335.8	3330.8	3372.7	3479.9	3557.5	3571.0	3636.3	3797.7	3858.1	4003.4	3850.7
40°	3334.5	3340.7	3441.7	3578.4	3720.1	3834.7	3968.9	4125.4	4203.0	4271.9	4035.4
42.5°	3280.3	3284.0	3410.9	3670.8	3876.5	4102.0	4221.4	4422.2	4475.2	4488.7	4253.5
45°	3224.9	3227.4	3365.3	3657.3	4007.1	4352.0	4485.1	4668.6	4709.2	4662.4	4401.3
47.5°	3144.8	3160.8	3309.9	3643.7	4119.2	4582.4	4689.5	4871.8	4887.9	4828.7	4524.5
50°	3050.0	3058.6	3229.8	3599.4	4193.1	4725.3	4852.1	5017.2	5048.0	4981.5	4677.2
52.5°	2934.2	2941.6	3127.6	3540.2	4233.8	4834.9	4976.5	5173.6	5215.5	5186.0	4811.5
55°	2801.2	2804.9	2994.6	3444.2	4222.7	4882.9	5084.9	5395.4	5465.6	5392.9	4923.6
57.5°	2634.9	2648.4	2864.0	3300.0	4138.9	4943.3	5280.8	5668.8	5758.8	5603.5	5007.3
60°	2463.6	2477.2	2673.0	3132.5	3998.5	4970.4	5482.8	5963.2	6042.1	5803.1	5059.1
62.5°	2271.5	2290.0	2452.6	2880.0	3747.2	4934.7	5631.9	6220.7	6265.0	5922.6	5045.5
65°	1991.9	2001.7	2179.1	2575.7	3419.5	4748.7	5625.7	6358.6	6373.4	6054.4	4986.4
67.5°	1681.4	1682.7	1850.2	2208.7	2968.7	4401.3	5539.5	6448.6	6521.2	6151.7	4857.1
70°	1278.6	1295.9	1426.4	1692.5	2426.7	3807.6	5254.9	6359.9	6325.4	5885.6	4486.3
72.5°	912.8	902.9	969.4	1149.3	1698.7	2937.9	4530.6	5746.4	5753.8	5360.9	3903.6
75°	485.3	487.8	544.5	696.0	867.2	1911.8	3624.0	4854.6	4898.9	4597.1	3054.9
77.5°	108.4	123.2	187.2	266.1	376.9	612.2	1966.0	3184.3	3268.0	3025.3	1674.0
80°	83.8	85.0	123.2	151.5	166.3	293.2	624.5	1155.4	1282.3	1210.9	629.5
82.5°	55.4	56.7	81.3	83.8	80.1	134.3	283.3	346.1	380.6	332.6	234.0
85°	29.6	30.8	37.0	40.7	32.0	39.4	37.0	29.6	30.8	27.1	27.1
87.5°	6.2	3.7	4.9	3.7	3.7	2.5	3.7	3.7	3.7	3.7	3.7
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°	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9
2.5°	1722.1	1724.5	1730.7	1740.6	1745.5	1756.6	1764.0	1782.4	1808.3	1799.7	1788.6
5°	1731.9	1739.3	1760.3	1786.1	1805.8	1835.4	1850.2	1885.9	1915.5	1913.0	1893.3
7.5°	1768.9	1784.9	1810.8	1849.0	1882.2	1911.8	1932.7	1970.9	1998.0	1986.9	1968.4
10°	1815.7	1831.7	1860.0	1894.5	1919.2	1951.2	1964.8	1995.5	2012.8	1999.2	1983.2
12.5°	1858.8	1867.4	1887.1	1913.0	1926.6	1947.5	1953.7	1975.8	1991.9	1985.7	1966.0
15°	1900.7	1899.5	1903.2	1910.6	1915.5	1920.4	1921.6	1937.7	1948.7	1936.4	1922.9
17.5°	1947.5	1935.2	1919.2	1906.9	1888.4	1879.8	1863.7	1871.1	1869.9	1860.0	1849.0
20°	2006.6	1984.5	1935.2	1897.0	1849.0	1810.8	1777.5	1771.4	1771.4	1744.3	1743.0
22.5°	2076.8	2039.9	1957.4	1873.6	1796.0	1735.6	1674.0	1638.3	1612.5	1592.7	1584.1
25°	2168.0	2100.3	1977.1	1841.6	1727.0	1617.4	1525.0	1475.7	1426.4	1394.4	1389.5
27.5°	2265.3	2191.4	1989.4	1813.2	1632.2	1481.9	1353.8	1252.8	1207.2	1186.2	1166.5
30°	2424.2	2293.6	2011.6	1752.9	1512.7	1315.6	1145.6	1027.3	983.0	968.2	955.9
32.5°	2809.8	2558.5	2032.5	1691.3	1384.6	1132.0	907.9	808.1	769.9	784.7	789.6
35°	3292.7	2952.7	2132.3	1619.8	1251.5	923.9	698.4	631.9	634.4	656.6	664.0
37.5°	3620.3	3300.0	2335.5	1529.9	1060.6	684.9	540.8	519.8	538.3	558.0	561.7
40°	3812.5	3458.9	2478.4	1419.1	835.2	512.4	406.5	391.7	431.1	475.5	502.6
42.5°	4017.0	3594.4	2552.3	1274.9	586.3	370.8	311.7	322.7	385.6	423.7	441.0
45°	4126.6	3700.4	2519.1	1069.2	399.1	288.2	279.6	310.4	373.2	407.7	412.7
47.5°	4244.8	3806.3	2439.0	854.9	305.5	273.5	274.7	311.7	375.7	412.7	412.7
50°	4347.1	3893.8	2296.1	670.1	290.7	263.6	275.9	317.8	379.4	411.4	410.2
52.5°	4465.3	3933.2	2092.9	542.0	275.9	255.0	277.2	322.7	373.2	391.7	389.3
55°	4502.3	3904.9	1995.5	453.3	264.8	250.1	282.1	330.1	370.8	374.5	368.3
57.5°	4502.3	3828.5	1884.7	386.8	255.0	250.1	284.6	328.9	384.3	407.7	405.3
60°	4482.6	3748.4	1714.7	346.1	241.4	247.6	285.8	347.4	457.0	482.9	481.6
62.5°	4419.8	3619.1	1505.3	305.5	227.9	248.8	282.1	373.2	522.3	511.2	484.1
65°	4270.7	3375.2	1220.7	268.5	213.1	248.8	277.2	410.2	464.4	443.5	433.6
67.5°	3989.9	3068.5	907.9	230.4	195.9	232.8	269.8	384.3	394.2	370.8	356.0
70°	3619.1	2599.1	582.7	194.6	177.4	219.3	264.8	360.9	380.6	352.3	333.8
72.5°	3015.5	2064.5	337.5	158.9	150.3	202.0	255.0	349.8	374.5	336.3	310.4
75°	2127.4	1303.3	221.7	117.0	120.7	172.5	236.5	327.7	351.1	304.3	267.3
77.5°	1084.0	489.0	157.7	86.2	81.3	131.8	204.5	301.8	346.1	306.7	262.4
80°	383.1	246.4	103.5	56.7	53.0	81.3	156.4	256.2	325.2	299.3	290.7
82.5°	163.8	123.2	56.7	35.7	32.0	40.7	88.7	202.0	285.8	271.0	327.7
85°	23.4	20.9	16.0	13.6	13.6	18.5	28.3	99.8	193.4	220.5	267.3
87.5°	3.7	3.7	3.7	2.5	2.5	2.5	1.2	14.8	64.1	96.1	133.0
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)