

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: P509335

Luminaire Tested: **VERD-CA2-70-760-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509335  
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-CA2-70-760-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 980mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10495 lumens  
Efficiency: N/A  
Efficacy: 142.6 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

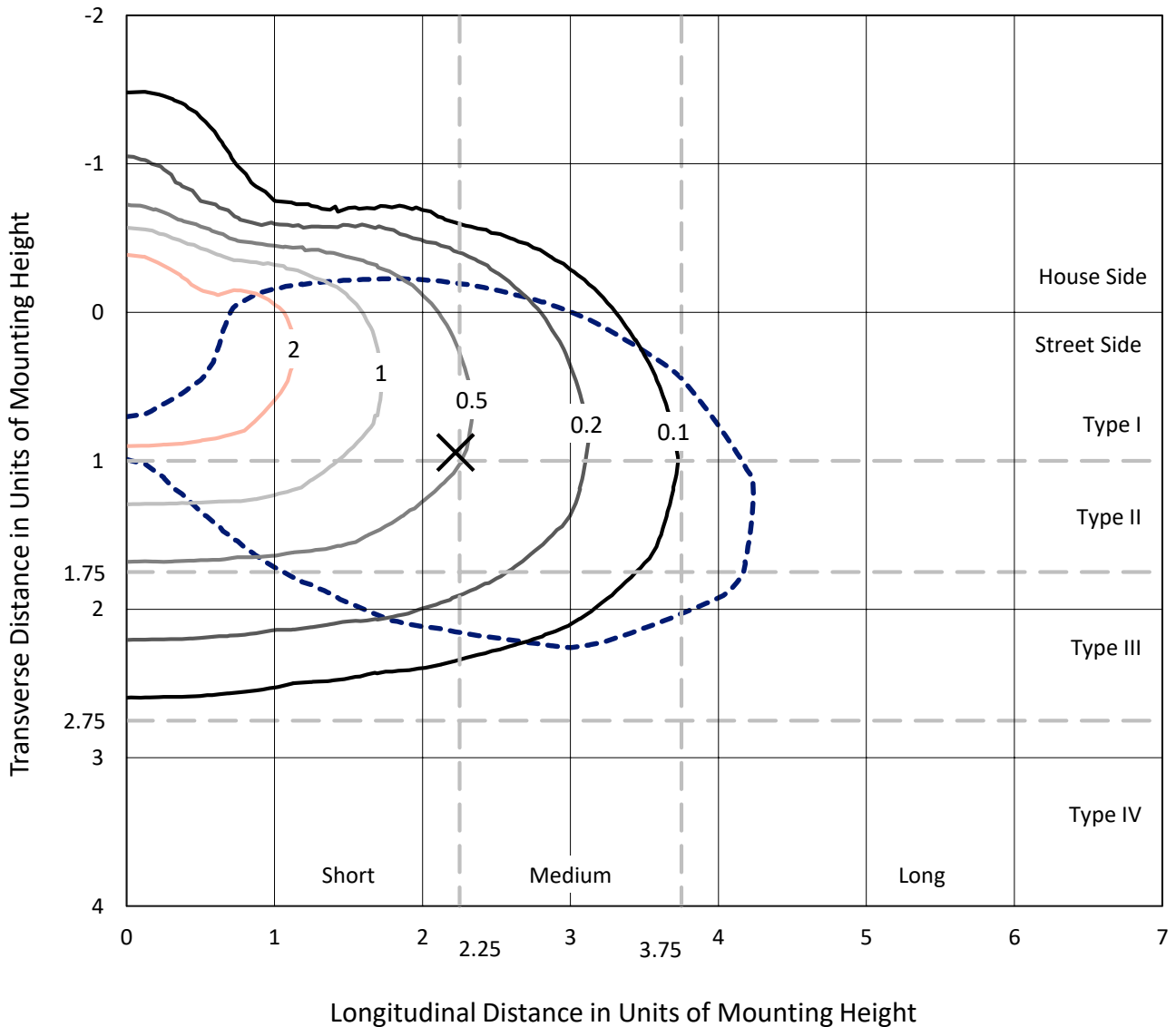
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

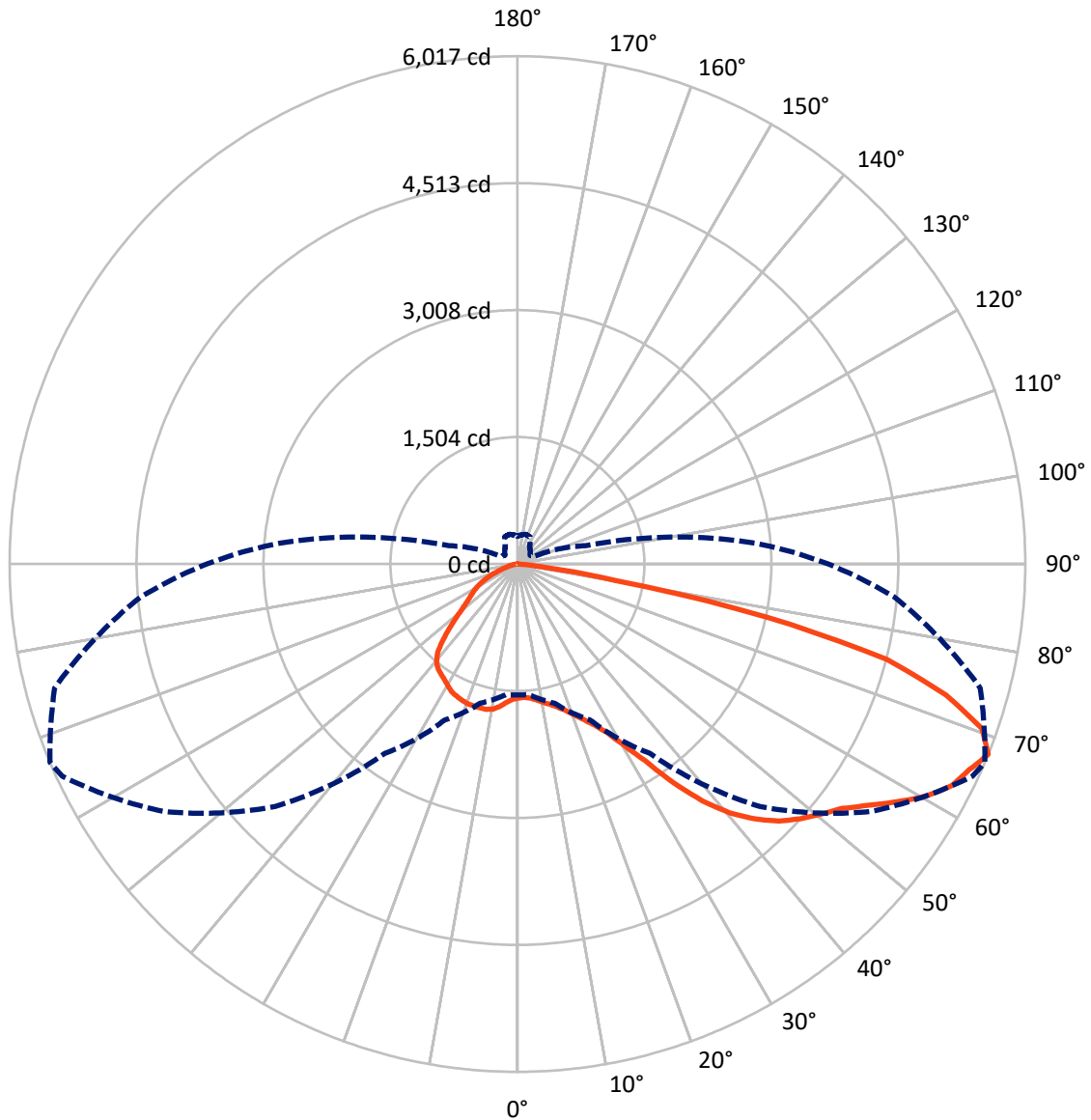
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	2399.8	0.0	2399.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8095.3	0.0	8095.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10495.0	0.0	10495.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.8	1.5
10°-20°	514.6	4.9
20°-30°	889.2	8.5
30°-40°	1349.7	12.9
40°-50°	1834.0	17.5
50°-60°	2181.2	20.8
60°-70°	2244.1	21.4
70°-80°	1224.2	11.7
80°-90°	97.3	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°	10495.0	100.0
0°-180°	10495.0	100.0

**Coefficient of Utilization**



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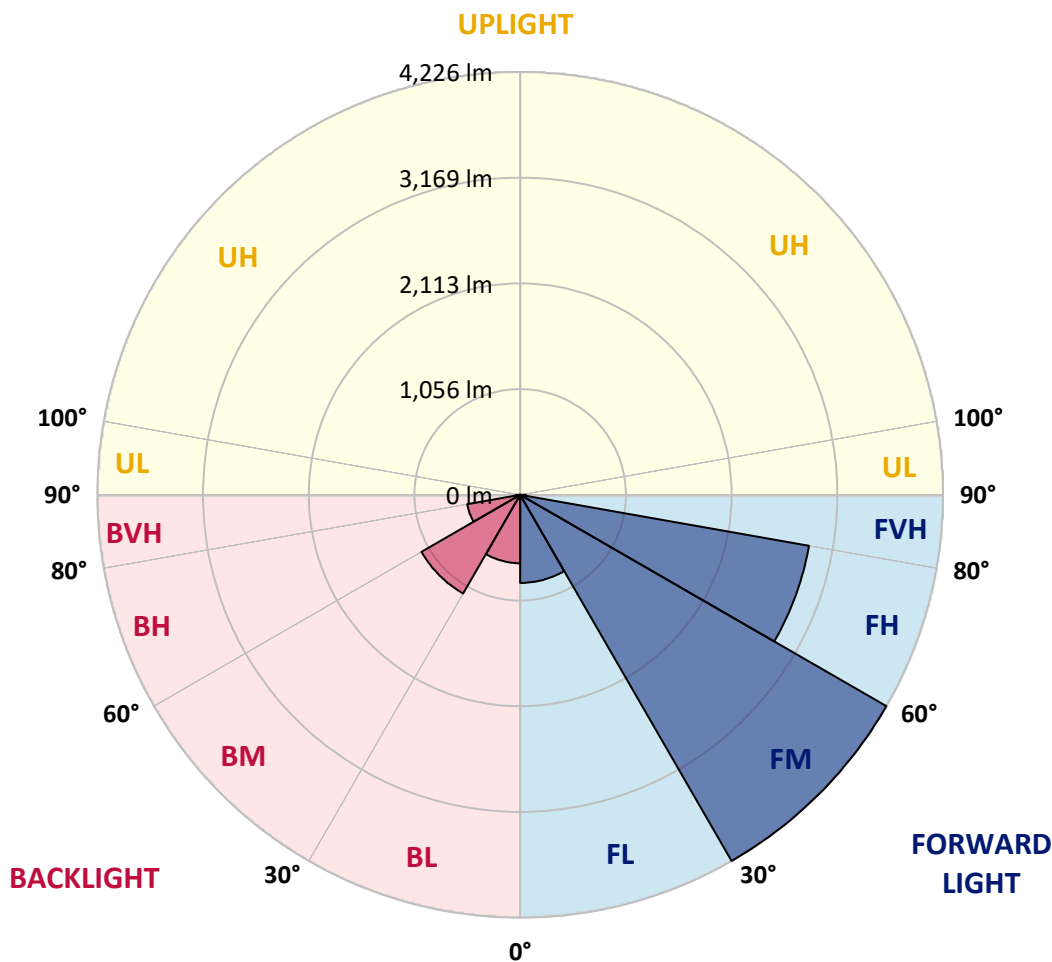
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.3	8.4			
FM (30°-60°)	4225.7	40.3			
FH (60°-80°)	2931.0	27.9			G2/5000
FVH (80°-90°)	58.2	0.6			G1/100
BL (0°-30°)	684.3	6.5	B2/1000		
BM (30°-60°)	1139.1	10.9	B2/2500		
BH (60°-80°)	537.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	39.1	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°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1596.8	1590.0	1580.9	1584.3	1577.5	1588.9	1584.3	1582.0	1582.0	1583.2	1588.9
5°	1633.2	1626.4	1619.5	1618.4	1604.8	1609.3	1602.5	1595.7	1595.7	1594.5	1596.8
7.5°	1696.8	1687.7	1679.8	1678.6	1661.6	1659.3	1638.9	1625.2	1625.2	1624.1	1627.5
10°	1780.9	1777.5	1761.6	1751.4	1730.9	1717.3	1692.3	1670.7	1666.1	1659.3	1668.4
12.5°	1861.6	1860.5	1845.7	1834.3	1805.9	1782.1	1741.2	1711.6	1705.9	1698.0	1704.8
15°	1962.8	1952.5	1936.6	1929.8	1888.9	1852.5	1805.9	1761.6	1755.9	1746.8	1752.5
17.5°	2074.2	2068.5	2043.5	2035.5	1984.4	1942.3	1884.4	1827.5	1818.4	1805.9	1804.8
20°	2208.3	2198.0	2178.7	2156.0	2106.0	2045.7	1978.7	1913.9	1905.9	1895.7	1874.1
22.5°	2352.6	2341.2	2321.9	2298.0	2234.4	2170.8	2086.7	2004.8	2000.3	1993.5	1953.7
25°	2490.1	2470.8	2473.1	2450.3	2393.5	2312.8	2213.9	2116.2	2113.9	2112.8	2049.1
27.5°	2636.7	2616.3	2609.5	2601.5	2548.1	2471.9	2360.6	2267.4	2259.4	2260.5	2163.9
30°	2774.3	2765.2	2759.5	2753.8	2727.7	2659.5	2552.6	2469.7	2494.7	2492.4	2359.4
32.5°	2881.1	2874.3	2898.1	2925.4	2918.6	2861.8	2787.9	2750.4	2775.4	2856.1	2740.2
35°	2975.4	2972.0	3017.5	3075.4	3116.3	3075.4	3067.5	3125.4	3183.4	3317.5	3250.5
37.5°	3077.7	3073.2	3111.8	3210.7	3282.3	3294.8	3355.0	3503.9	3559.6	3693.7	3552.8
40°	3076.6	3082.2	3175.4	3301.6	3432.3	3538.0	3661.9	3806.2	3877.8	3941.5	3723.2
42.5°	3026.6	3030.0	3147.0	3386.8	3576.6	3784.6	3894.9	4080.1	4129.0	4141.5	3924.4
45°	2975.4	2977.7	3105.0	3374.3	3697.1	4015.3	4138.1	4307.4	4344.9	4301.7	4060.8
47.5°	2901.5	2916.3	3053.8	3361.8	3800.5	4227.9	4326.7	4494.9	4509.7	4455.2	4174.4
50°	2814.0	2822.0	2980.0	3320.9	3868.7	4359.7	4476.8	4629.1	4657.5	4596.1	4315.4
52.5°	2707.2	2714.0	2885.6	3266.4	3906.2	4460.8	4591.5	4773.4	4812.0	4784.8	4439.3
55°	2584.5	2587.9	2762.9	3177.7	3896.0	4505.2	4691.6	4978.0	5042.7	4975.7	4542.7
57.5°	2431.0	2443.5	2642.4	3044.7	3818.7	4560.9	4872.3	5230.3	5313.2	5170.0	4620.0
60°	2273.0	2285.5	2466.3	2890.2	3689.2	4585.9	5058.7	5501.9	5574.6	5354.2	4667.7
62.5°	2095.7	2112.8	2262.8	2657.2	3457.3	4552.9	5196.2	5739.4	5780.4	5464.4	4655.2
65°	1837.8	1846.8	2010.5	2376.5	3155.0	4381.3	5190.5	5866.7	5880.4	5586.0	4600.6
67.5°	1551.4	1552.5	1707.1	2037.8	2739.0	4060.8	5110.9	5949.7	6016.7	5675.8	4481.3
70°	1179.7	1195.6	1316.1	1561.6	2238.9	3513.0	4848.4	5867.9	5836.0	5430.3	4139.2
72.5°	842.2	833.1	894.4	1060.4	1567.3	2710.6	4180.1	5301.9	5308.7	4946.1	3601.6
75°	447.8	450.1	502.3	642.1	800.1	1763.9	3343.6	4479.0	4519.9	4241.5	2818.6
77.5°	100.0	113.7	172.8	245.5	347.8	564.9	1813.9	2937.9	3015.2	2791.3	1544.5
80°	77.3	78.4	113.7	139.8	153.4	270.5	576.2	1066.1	1183.1	1117.2	580.8
82.5°	51.1	52.3	75.0	77.3	73.9	123.9	261.4	319.4	351.2	306.9	215.9
85°	27.3	28.4	34.1	37.5	29.5	36.4	34.1	27.3	28.4	25.0	25.0
87.5°	5.7	3.4	4.5	3.4	3.4	2.3	3.4	3.4	3.4	3.4	3.4
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°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1588.9	1591.1	1596.8	1605.9	1610.5	1620.7	1627.5	1644.5	1668.4	1660.5	1650.2
5°	1597.9	1604.8	1624.1	1648.0	1666.1	1693.4	1707.1	1740.0	1767.3	1765.0	1746.8
7.5°	1632.0	1646.8	1670.7	1705.9	1736.6	1763.9	1783.2	1818.4	1843.4	1833.2	1816.2
10°	1675.2	1690.0	1716.1	1748.0	1770.7	1800.3	1812.8	1841.2	1857.1	1844.6	1829.8
12.5°	1715.0	1723.0	1741.2	1765.0	1777.5	1796.8	1802.5	1823.0	1837.8	1832.1	1813.9
15°	1753.7	1752.5	1755.9	1762.7	1767.3	1771.8	1773.0	1787.7	1798.0	1786.6	1774.1
17.5°	1796.8	1785.5	1770.7	1759.3	1742.3	1734.3	1719.6	1726.4	1725.2	1716.1	1705.9
20°	1851.4	1830.9	1785.5	1750.2	1705.9	1670.7	1640.0	1634.3	1634.3	1609.3	1608.2
22.5°	1916.2	1882.1	1805.9	1728.6	1657.0	1601.4	1544.5	1511.6	1487.7	1469.5	1461.6
25°	2000.3	1937.8	1824.1	1699.1	1593.4	1492.3	1407.0	1361.6	1316.1	1286.5	1282.0
27.5°	2090.1	2021.9	1835.5	1673.0	1505.9	1367.2	1249.0	1155.8	1113.8	1094.5	1076.3
30°	2236.7	2116.2	1855.9	1617.3	1395.6	1213.8	1057.0	947.9	906.9	893.3	881.9
32.5°	2592.4	2360.6	1875.3	1560.4	1277.5	1044.5	837.6	745.6	710.3	724.0	728.5
35°	3037.9	2724.2	1967.3	1494.5	1154.7	852.4	644.4	583.0	585.3	605.8	612.6
37.5°	3340.2	3044.7	2154.8	1411.6	978.5	631.9	498.9	479.6	496.7	514.8	518.3
40°	3517.5	3191.4	2286.7	1309.3	770.6	472.8	375.1	361.4	397.8	438.7	463.7
42.5°	3706.2	3316.4	2354.9	1176.3	541.0	342.1	287.5	297.8	355.7	391.0	406.9
45°	3807.3	3414.1	2324.2	986.5	368.2	265.9	258.0	286.4	344.4	376.2	380.7
47.5°	3916.5	3511.9	2250.3	788.7	281.9	252.3	253.4	287.5	346.6	380.7	380.7
50°	4010.8	3592.5	2118.5	618.3	268.2	243.2	254.6	293.2	350.0	379.6	378.5
52.5°	4119.9	3628.9	1931.0	500.1	254.6	235.3	255.7	297.8	344.4	361.4	359.1
55°	4154.0	3602.8	1841.2	418.2	244.4	230.7	260.3	304.6	342.1	345.5	339.8
57.5°	4154.0	3532.3	1738.9	356.9	235.3	230.7	262.5	303.5	354.6	376.2	373.9
60°	4135.8	3458.4	1582.0	319.4	222.8	228.4	263.7	320.5	421.6	445.5	444.4
62.5°	4077.8	3339.1	1388.8	281.9	210.3	229.6	260.3	344.4	481.9	471.7	446.7
65°	3940.3	3114.1	1126.3	247.8	196.6	229.6	255.7	378.5	428.5	409.1	400.1
67.5°	3681.2	2831.1	837.6	212.5	180.7	214.8	248.9	354.6	363.7	342.1	328.5
70°	3339.1	2398.1	537.6	179.6	163.7	202.3	244.4	333.0	351.2	325.0	308.0
72.5°	2782.2	1904.8	311.4	146.6	138.7	186.4	235.3	322.8	345.5	310.3	286.4
75°	1962.8	1202.4	204.6	108.0	111.4	159.1	218.2	302.3	323.9	280.7	246.6
77.5°	1000.1	451.2	145.5	79.6	75.0	121.6	188.7	278.4	319.4	283.0	242.1
80°	353.5	227.3	95.5	52.3	48.9	75.0	144.3	236.4	300.0	276.2	268.2
82.5°	151.2	113.7	52.3	33.0	29.5	37.5	81.8	186.4	263.7	250.0	302.3
85°	21.6	19.3	14.8	12.5	12.5	17.0	26.1	92.1	178.4	203.4	246.6
87.5°	3.4	3.4	3.4	2.3	2.3	2.3	1.1	13.6	59.1	88.6	122.7
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)