

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: P233582

Luminaire Tested: **VERD-C02H-D-U-T4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H-D-U-T4-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14255 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 120  
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: 28.75 FT

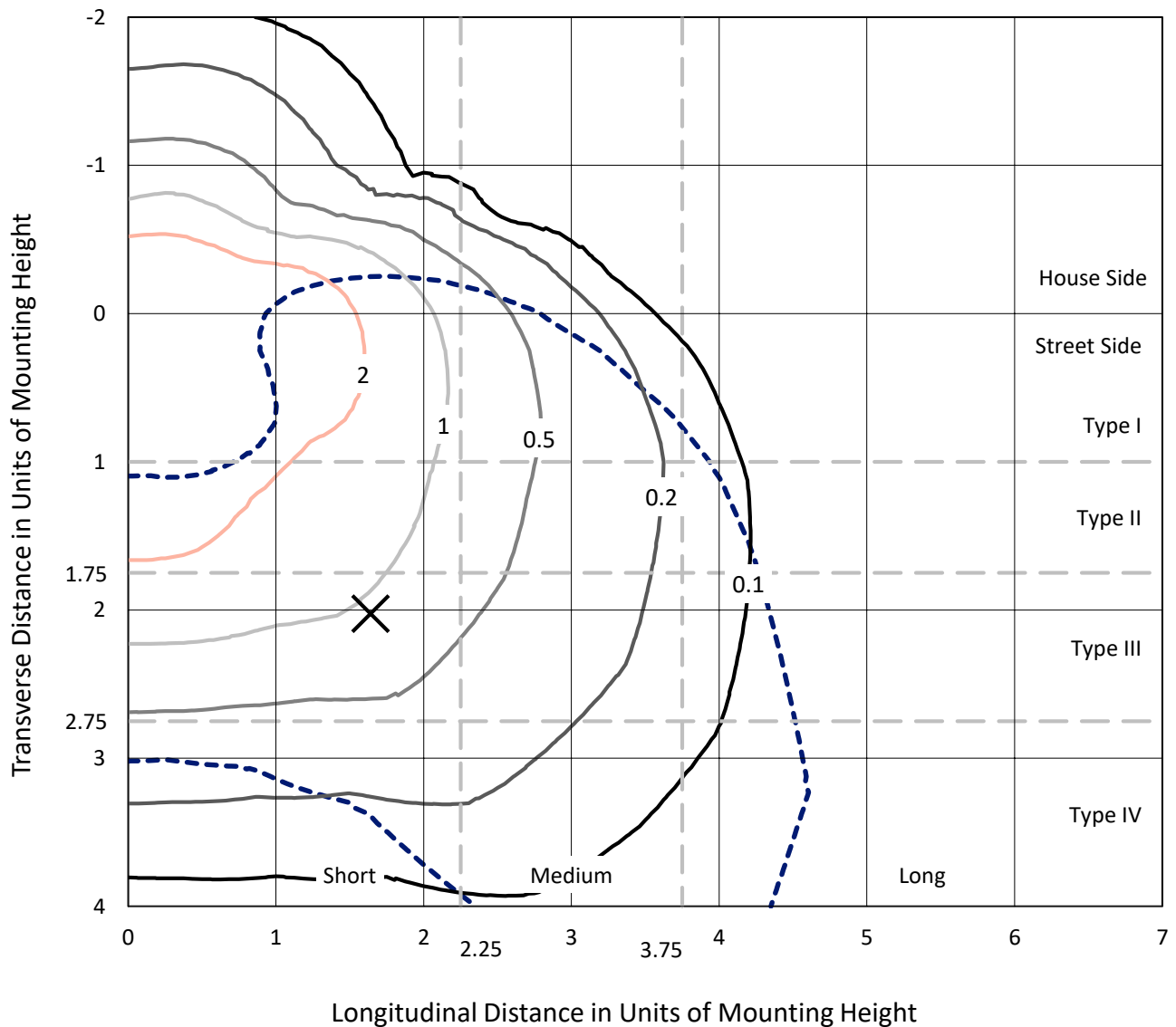


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

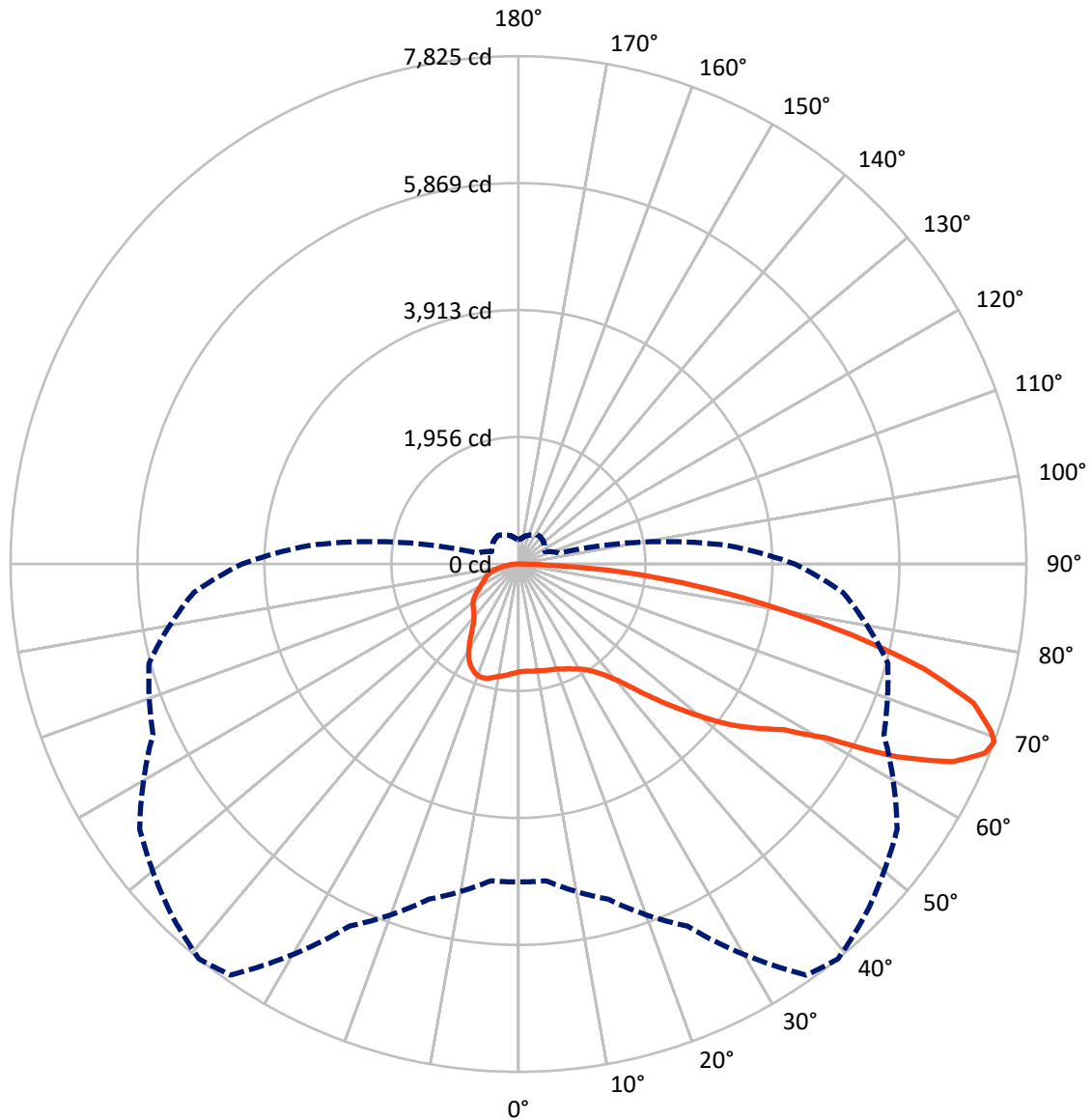


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3341.6	0.0	3341.6
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	10913.4	0.0	10913.4
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	14255.0	0.0	14255.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	1.1
10°-20°	498.7	3.5
20°-30°	839.6	5.9
30°-40°	1216.3	8.5
40°-50°	1966.1	13.8
50°-60°	2878.4	20.2
60°-70°	3602.7	25.3
70°-80°	2575.5	18.1
80°-90°	516.4	3.6
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°	14255.0	100.0
0°-180°	14255.0	100.0



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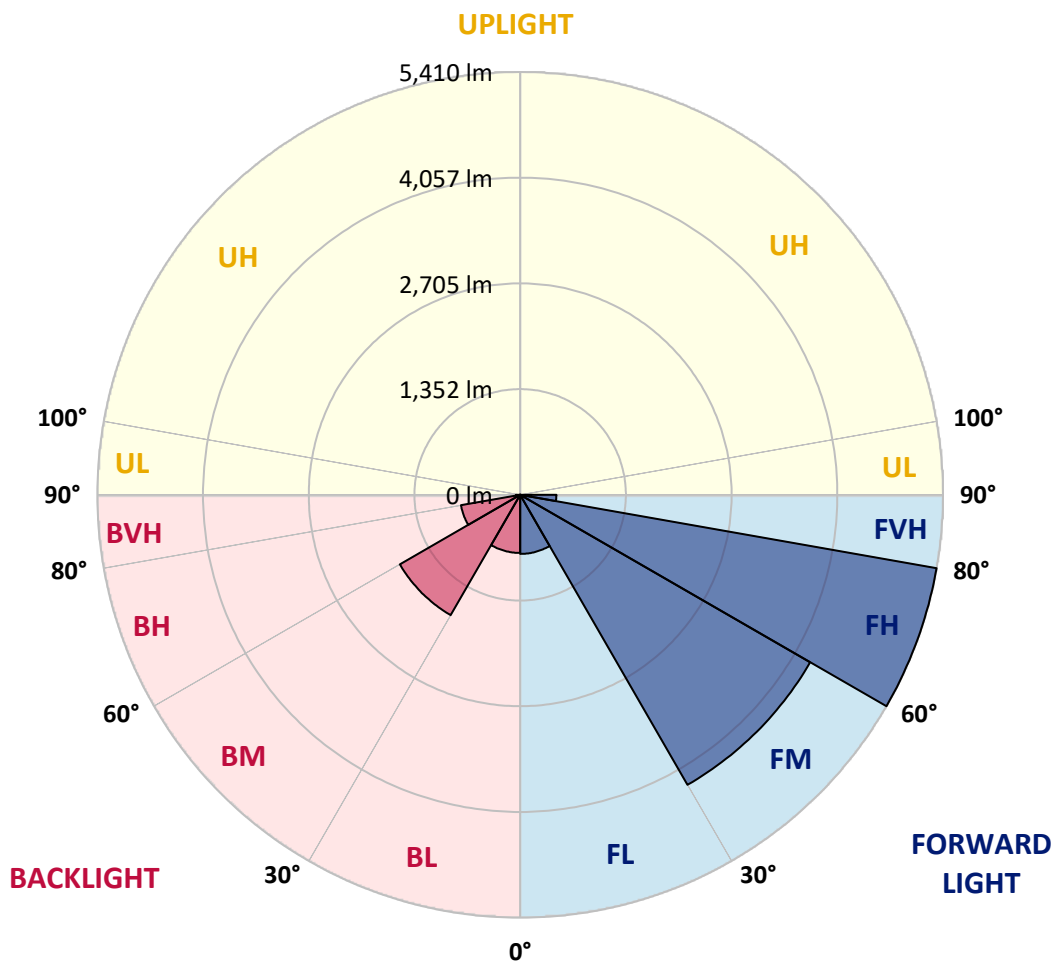
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	756.2	5.3			
FM	(30°-60°)	4283.8	30.1			
FH	(60°-80°)	5409.7	37.9			G3/7500
FVH	(80°-90°)	463.6	3.3			G3/500
BL	(0°-30°)	743.4	5.2	B2/1000		
BM	(30°-60°)	1777.0	12.5	B2/2500		
BH	(60°-80°)	768.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	52.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1689.3	1686.7	1681.4	1660.4	1657.8	1656.5	1659.1	1651.2	1649.9	1652.5	1649.9
5°	1690.6	1688.0	1681.4	1663.1	1660.4	1657.8	1659.1	1652.5	1653.9	1660.4	1660.4
7.5°	1693.3	1690.6	1684.1	1664.4	1669.6	1667.0	1672.3	1663.1	1663.1	1668.3	1669.6
10°	1686.7	1685.4	1681.4	1667.0	1674.9	1669.6	1674.9	1676.2	1681.4	1685.4	1684.1
12.5°	1669.6	1669.6	1669.6	1663.1	1685.4	1684.1	1693.3	1702.5	1715.6	1722.2	1726.1
15°	1659.1	1657.8	1667.0	1665.7	1693.3	1697.2	1713.0	1736.6	1756.3	1773.4	1778.7
17.5°	1669.6	1669.6	1681.4	1678.8	1706.4	1709.0	1726.1	1760.3	1793.1	1825.9	1840.4
20°	1681.4	1682.8	1697.2	1701.2	1727.4	1726.1	1743.2	1785.2	1829.9	1878.5	1903.5
22.5°	1718.2	1716.9	1728.7	1720.9	1751.1	1756.3	1770.8	1807.6	1870.6	1932.4	1973.1
25°	1745.8	1749.8	1761.6	1756.3	1781.3	1787.9	1811.5	1847.0	1921.8	1995.4	2067.7
27.5°	1772.1	1780.0	1789.2	1787.9	1822.0	1829.9	1848.3	1903.5	1990.2	2078.2	2179.3
30°	1811.5	1808.9	1815.4	1827.3	1871.9	1877.2	1899.5	1966.5	2071.6	2185.9	2321.2
32.5°	1864.0	1861.4	1868.0	1878.5	1932.4	1945.5	1975.7	2048.0	2180.6	2318.6	2484.1
35°	1946.8	1953.4	1958.6	1971.8	2024.3	2042.7	2083.4	2175.4	2329.1	2549.8	2786.2
37.5°	2234.5	2220.0	2191.1	2138.6	2153.0	2174.1	2231.9	2363.2	2586.5	2960.9	3177.7
40°	2683.7	2666.7	2576.0	2422.3	2352.7	2358.0	2414.5	2593.1	2897.9	3444.3	3644.0
42.5°	3106.7	3085.7	2978.0	2786.2	2648.3	2632.5	2637.8	2844.0	3239.4	3927.8	4034.2
45°	3506.1	3516.6	3352.4	3205.3	3047.6	2975.4	2953.0	3106.7	3619.1	4346.8	4379.6
47.5°	3888.4	3896.2	3711.0	3569.1	3416.8	3332.7	3289.3	3408.9	3968.5	4685.7	4655.5
50°	4278.5	4299.5	4046.0	3925.1	3784.6	3724.1	3682.1	3760.9	4354.7	5010.2	4916.9
52.5°	4828.9	4740.9	4408.5	4237.8	4137.9	4119.5	4076.2	4140.6	4764.5	5296.6	5102.1
55°	5441.1	5253.2	4903.8	4605.6	4467.7	4467.7	4429.6	4504.4	5187.5	5510.7	5253.2
57.5°	5639.4	5657.8	5537.0	5212.5	4842.0	4813.1	4776.4	4878.8	5550.1	5702.5	5309.7
60°	5986.2	6037.5	6130.7	5860.1	5677.5	5431.9	5208.6	5263.7	5862.7	5860.1	5370.1
62.5°	6158.3	6206.9	6498.5	6352.7	6524.8	6541.9	6124.2	5698.5	6093.9	5938.9	5399.0
65°	5995.4	6029.6	6418.4	6610.2	7109.4	7347.1	7140.9	6283.1	6216.1	5906.1	5291.3
67.5°	5460.8	5525.1	5847.0	6431.5	7630.9	7763.6	7570.5	7085.7	6268.7	5916.6	5204.6
69°	4898.5	4899.8	5346.5	6157.0	7733.4	7825.3	7588.9	7123.8	6213.5	5891.6	5019.4
70°	4581.9	4614.8	4945.8	5919.2	7695.3	7725.5	7544.2	7122.5	6175.4	5883.8	4843.4
72.5°	3575.7	3558.6	3888.4	4949.8	7264.4	7331.4	7131.7	6921.5	6143.9	5544.8	4097.2
75°	2499.8	2552.4	2875.5	3750.4	6259.5	6460.4	6460.4	6649.6	5655.2	4738.3	2962.2
77.5°	1860.1	1868.0	2126.8	2865.0	5036.5	5245.3	5437.1	5596.1	4420.4	3246.0	1324.1
80°	1259.8	1271.6	1508.0	2113.6	3732.0	3923.8	4227.3	3850.3	2629.9	1123.2	151.1
82.5°	793.4	809.2	997.0	1484.4	2660.1	2746.8	2840.1	2174.1	876.2	130.0	95.9
85°	471.6	474.2	601.6	948.4	1622.3	1627.6	1527.8	1001.0	235.1	77.5	60.4
87.5°	197.0	207.6	262.7	420.4	475.5	375.7	233.8	80.1	35.5	31.5	21.0
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°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1642.0	1656.5	1653.9	1657.8	1663.1	1673.6	1685.4	1680.1	1686.7	1701.2	1701.2
5°	1656.5	1668.3	1672.3	1680.1	1686.7	1697.2	1705.1	1702.5	1716.9	1737.9	1737.9
7.5°	1668.3	1677.5	1690.6	1699.8	1706.4	1727.4	1735.3	1730.1	1740.6	1765.5	1766.8
10°	1685.4	1694.6	1714.3	1723.5	1736.6	1747.1	1757.6	1756.3	1766.8	1789.2	1793.1
12.5°	1727.4	1734.0	1761.6	1774.7	1774.7	1787.9	1780.0	1766.8	1772.1	1785.2	1787.9
15°	1782.6	1791.8	1827.3	1833.8	1827.3	1829.9	1811.5	1769.5	1748.4	1752.4	1753.7
17.5°	1845.7	1861.4	1902.1	1892.9	1885.1	1865.4	1818.1	1755.0	1692.0	1668.3	1672.3
20°	1912.6	1932.4	1979.6	1959.9	1931.0	1879.8	1803.6	1695.9	1598.7	1542.2	1539.6
22.5°	1990.2	2015.1	2059.8	2025.6	1961.3	1871.9	1755.0	1623.6	1500.2	1412.2	1406.9
25°	2096.6	2124.1	2139.9	2071.6	1966.5	1843.0	1685.4	1525.1	1370.1	1265.0	1257.1
27.5°	2217.4	2231.9	2200.3	2097.9	1941.5	1781.3	1598.7	1400.3	1229.6	1142.9	1131.0
30°	2351.4	2339.6	2241.1	2084.7	1877.2	1684.1	1463.4	1241.4	1104.8	1035.1	1024.6
32.5°	2506.4	2469.6	2272.6	2048.0	1791.8	1556.7	1316.3	1140.2	1031.2	961.6	956.3
35°	2761.3	2656.2	2323.8	1991.5	1678.8	1406.9	1181.0	1053.5	968.1	881.4	868.3
37.5°	3130.4	2932.0	2398.7	1938.9	1556.7	1262.4	1078.5	983.9	909.0	811.8	793.4
40°	3514.0	3256.5	2522.2	1881.1	1442.4	1156.0	1022.0	955.0	881.4	789.5	764.5
42.5°	3864.7	3565.2	2666.7	1808.9	1322.8	1070.6	994.4	947.1	873.6	786.9	767.2
45°	4182.6	3855.5	2815.1	1726.1	1191.5	1002.3	972.1	932.7	857.8	775.0	759.3
47.5°	4450.6	4102.5	2964.9	1630.2	1065.4	960.3	948.4	906.4	836.8	756.7	743.5
50°	4672.6	4279.8	3050.3	1529.1	961.6	928.7	914.3	861.7	790.8	715.9	708.0
52.5°	4836.8	4390.2	3127.8	1475.2	880.1	877.5	868.3	817.1	748.8	671.3	655.5
55°	4951.1	4480.8	3093.6	1433.2	793.4	813.1	807.9	776.4	718.6	627.9	614.8
57.5°	4957.6	4488.7	3020.0	1183.6	708.0	735.6	744.8	750.1	685.7	605.6	589.8
60°	4951.1	4430.9	2883.4	868.3	625.3	658.1	692.3	692.3	647.6	568.8	557.0
62.5°	4920.9	4316.6	2565.5	618.7	559.6	603.0	647.6	627.9	589.8	526.8	514.9
65°	4782.9	4126.1	2007.2	504.4	532.0	571.4	592.4	564.9	516.3	450.6	445.3
67.5°	4532.0	3690.0	1161.3	462.4	508.4	543.8	560.9	518.9	472.9	409.9	407.2
69°	4256.2	3248.6	654.2	451.9	493.9	525.5	539.9	493.9	449.3	388.8	377.0
70°	4009.2	2854.5	425.6	442.7	479.5	513.6	524.1	476.8	434.8	373.1	365.2
72.5°	3037.1	1719.5	286.4	404.6	440.1	466.3	482.1	437.4	390.1	328.4	312.6
75°	1659.1	467.7	252.2	346.8	391.5	426.9	430.9	374.4	306.1	243.0	236.5
77.5°	323.2	160.3	216.7	286.4	311.3	353.4	350.7	312.6	265.4	206.2	198.4
80°	122.2	115.6	181.3	204.9	219.4	264.0	279.8	252.2	220.7	140.6	120.9
82.5°	82.8	85.4	135.3	120.9	134.0	156.3	197.0	191.8	174.7	95.9	85.4
85°	57.8	67.0	74.9	51.2	65.7	98.5	130.0	126.1	107.7	67.0	60.4
87.5°	17.1	18.4	21.0	26.3	40.7	73.6	106.4	88.0	59.1	49.9	43.3
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)