

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: P233594

Luminaire Tested: **VERD-C02H8-D-U-T4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233594  
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-C02H8-D-U-T4  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 960mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13751 lumens  
Efficiency: N/A  
Efficacy: 125.0 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): 110  
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

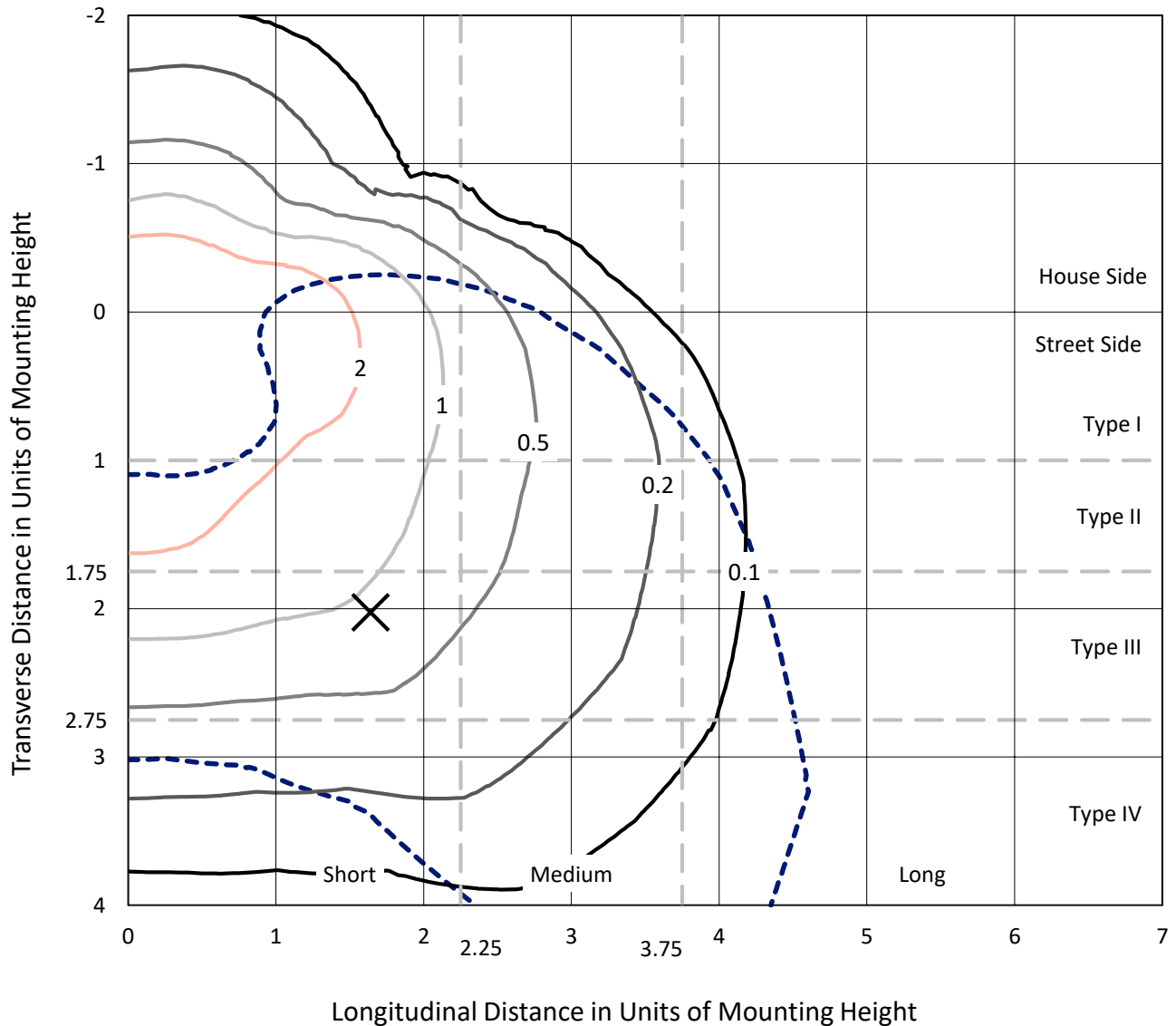


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

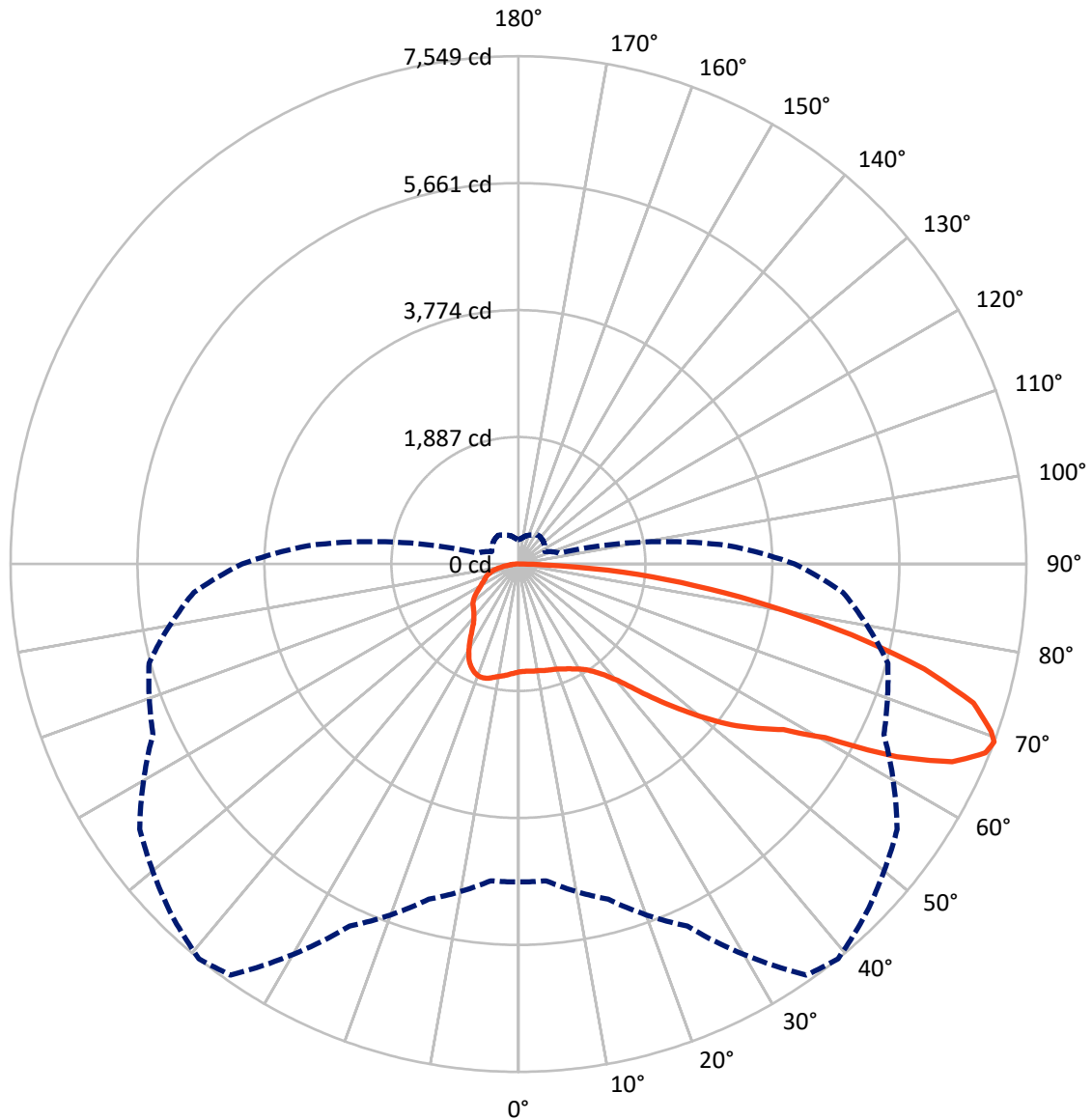


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Non-Cutoff

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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	3223.5	0.0	3223.5
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	10527.5	0.0	10527.5
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	13751.0	0.0	13751.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	1.1
10°-20°	481.1	3.5
20°-30°	809.9	5.9
30°-40°	1173.3	8.5
40°-50°	1896.6	13.8
50°-60°	2776.6	20.2
60°-70°	3475.3	25.3
70°-80°	2484.4	18.1
80°-90°	498.1	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°	13751.0	100.0
0°-180°	13751.0	100.0



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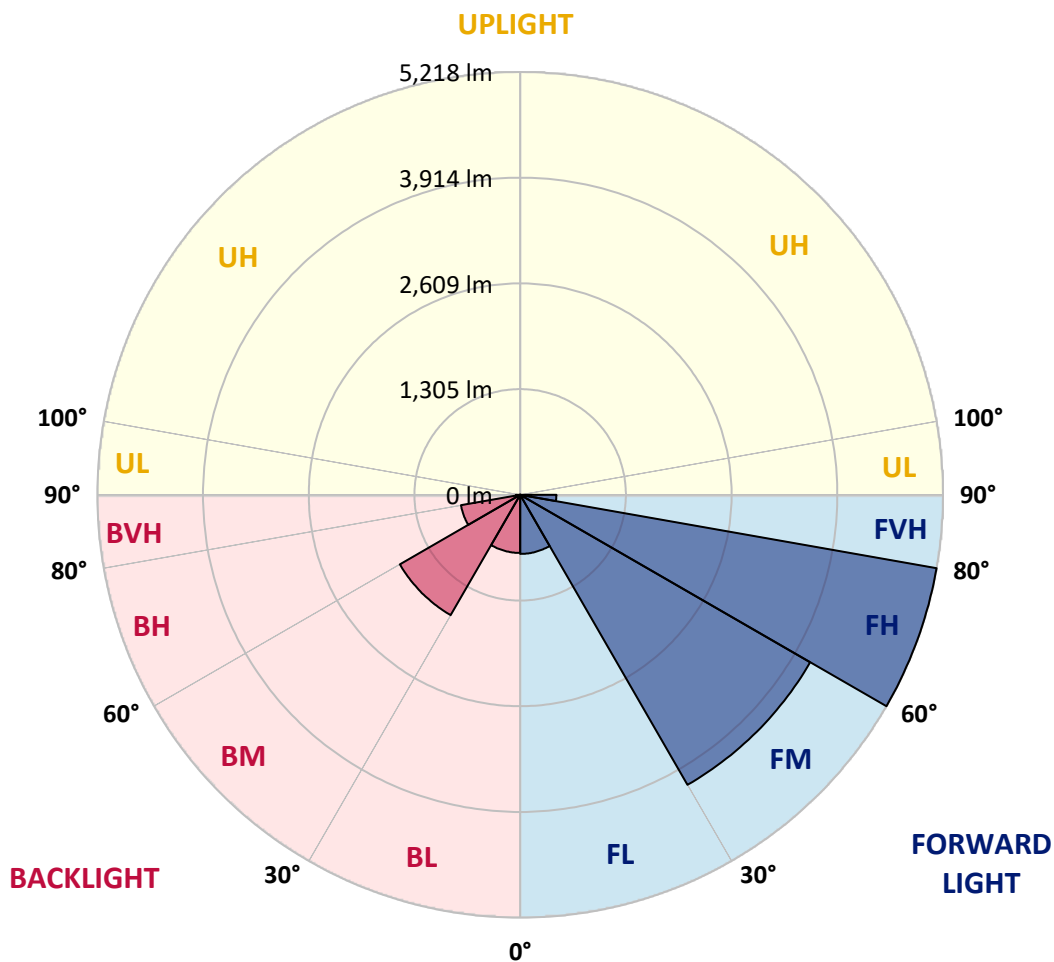
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.5	5.3			
FM	(30°-60°)	4132.4	30.1			
FH	(60°-80°)	5218.4	37.9			G3/7500
FVH	(80°-90°)	447.2	3.3			G3/500
BL	(0°-30°)	717.1	5.2	B2/1000		
BM	(30°-60°)	1714.2	12.5	B2/2500		
BH	(60°-80°)	741.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	50.9	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°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1629.6	1627.1	1622.0	1601.7	1599.2	1597.9	1600.5	1592.9	1591.6	1594.1	1591.6
5°	1630.9	1628.3	1622.0	1604.3	1601.7	1599.2	1600.5	1594.1	1595.4	1601.7	1601.7
7.5°	1633.4	1630.9	1624.5	1605.5	1610.6	1608.1	1613.1	1604.3	1604.3	1609.3	1610.6
10°	1627.1	1625.8	1622.0	1608.1	1615.7	1610.6	1615.7	1616.9	1622.0	1625.8	1624.5
12.5°	1610.6	1610.6	1610.6	1604.3	1625.8	1624.5	1633.4	1642.3	1654.9	1661.3	1665.1
15°	1600.5	1599.2	1608.1	1606.8	1633.4	1637.2	1652.4	1675.2	1694.2	1710.7	1715.8
17.5°	1610.6	1610.6	1622.0	1619.5	1646.1	1648.6	1665.1	1698.0	1729.7	1761.4	1775.3
20°	1622.0	1623.3	1637.2	1641.0	1666.4	1665.1	1681.6	1722.1	1765.2	1812.1	1836.2
22.5°	1657.5	1656.2	1667.6	1660.0	1689.2	1694.2	1708.2	1743.6	1804.5	1864.0	1903.3
25°	1684.1	1687.9	1699.3	1694.2	1718.3	1724.6	1747.5	1781.7	1853.9	1924.9	1994.6
27.5°	1709.4	1717.0	1725.9	1724.6	1757.6	1765.2	1782.9	1836.2	1919.8	2004.7	2102.3
30°	1747.5	1744.9	1751.3	1762.7	1805.7	1810.8	1832.4	1897.0	1998.4	2108.6	2239.1
32.5°	1798.1	1795.6	1801.9	1812.1	1864.0	1876.7	1905.8	1975.5	2103.5	2236.6	2396.3
35°	1878.0	1884.3	1889.4	1902.0	1952.7	1970.5	2009.8	2098.5	2246.7	2459.6	2687.7
37.5°	2155.5	2141.5	2113.7	2063.0	2076.9	2097.2	2153.0	2279.7	2495.1	2856.2	3065.3
40°	2588.9	2572.4	2485.0	2336.7	2269.5	2274.6	2329.1	2501.4	2795.4	3322.6	3515.2
42.5°	2996.9	2976.6	2872.7	2687.7	2554.6	2539.4	2544.5	2743.5	3124.9	3788.9	3891.5
45°	3382.1	3392.3	3233.9	3091.9	2939.9	2870.2	2848.6	2996.9	3491.1	4193.1	4224.8
47.5°	3750.9	3758.5	3579.8	3442.9	3296.0	3214.9	3173.0	3288.4	3828.2	4520.1	4490.9
50°	4127.2	4147.5	3902.9	3786.4	3650.8	3592.5	3551.9	3628.0	4200.7	4833.1	4743.1
52.5°	4658.2	4573.3	4252.7	4087.9	3991.6	3973.9	3932.1	3994.2	4596.1	5109.3	4921.8
55°	5248.7	5067.5	4730.4	4442.8	4309.7	4309.7	4273.0	4345.2	5004.1	5315.8	5067.5
57.5°	5440.0	5457.8	5341.2	5028.2	4670.9	4643.0	4607.5	4706.3	5353.9	5500.9	5122.0
60°	5774.6	5824.0	5914.0	5652.9	5476.8	5239.8	5024.4	5077.6	5655.5	5652.9	5180.3
62.5°	5940.6	5987.5	6268.8	6128.1	6294.1	6310.6	5907.6	5497.1	5878.5	5729.0	5208.1
65°	5783.4	5816.4	6191.5	6376.5	6858.0	7087.4	6888.4	6061.0	5996.3	5697.3	5104.2
67.5°	5267.7	5329.8	5640.2	6204.1	7361.1	7489.1	7302.8	6835.2	6047.0	5707.4	5020.6
69°	4725.3	4726.6	5157.5	5939.3	7459.9	7548.6	7320.5	6872.0	5993.8	5683.3	4841.9
70°	4419.9	4451.6	4771.0	5709.9	7423.2	7452.3	7277.5	6870.7	5957.0	5675.7	4672.1
72.5°	3449.3	3432.8	3750.9	4774.8	7007.5	7072.2	6879.6	6676.8	5926.6	5348.8	3952.4
75°	2411.5	2462.1	2773.9	3617.8	6038.1	6232.0	6232.0	6414.5	5455.2	4570.7	2857.5
77.5°	1794.3	1801.9	2051.6	2763.7	4858.4	5059.9	5244.9	5398.2	4264.1	3131.2	1277.3
80°	1215.2	1226.6	1454.7	2038.9	3600.1	3785.1	4077.8	3714.1	2536.9	1083.4	145.7
82.5°	765.4	780.6	961.8	1431.9	2566.1	2649.7	2739.7	2097.2	845.2	125.5	92.5
85°	454.9	457.5	580.4	914.9	1565.0	1570.0	1473.7	965.6	226.8	74.8	58.3
87.5°	190.1	200.2	253.4	405.5	458.7	362.4	225.6	77.3	34.2	30.4	20.3
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°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1584.0	1597.9	1595.4	1599.2	1604.3	1614.4	1625.8	1620.7	1627.1	1641.0	1641.0
5°	1597.9	1609.3	1613.1	1620.7	1627.1	1637.2	1644.8	1642.3	1656.2	1676.5	1676.5
7.5°	1609.3	1618.2	1630.9	1639.7	1646.1	1666.4	1674.0	1668.9	1679.0	1703.1	1704.4
10°	1625.8	1634.7	1653.7	1662.5	1675.2	1685.4	1695.5	1694.2	1704.4	1725.9	1729.7
12.5°	1666.4	1672.7	1699.3	1712.0	1712.0	1724.6	1717.0	1704.4	1709.4	1722.1	1724.6
15°	1719.6	1728.4	1762.7	1769.0	1762.7	1765.2	1747.5	1706.9	1686.6	1690.4	1691.7
17.5°	1780.4	1795.6	1834.9	1826.0	1818.4	1799.4	1753.8	1693.0	1632.1	1609.3	1613.1
20°	1845.0	1864.0	1909.7	1890.6	1862.8	1813.3	1739.8	1635.9	1542.2	1487.7	1485.1
22.5°	1919.8	1943.9	1986.9	1954.0	1891.9	1805.7	1693.0	1566.2	1447.1	1362.2	1357.2
25°	2022.4	2049.0	2064.2	1998.4	1897.0	1777.9	1625.8	1471.2	1321.7	1220.3	1212.7
27.5°	2139.0	2153.0	2122.5	2023.7	1872.9	1718.3	1542.2	1350.8	1186.1	1102.5	1091.0
30°	2268.3	2256.9	2161.8	2011.0	1810.8	1624.5	1411.6	1197.5	1065.7	998.5	988.4
32.5°	2417.8	2382.3	2192.2	1975.5	1728.4	1501.6	1269.7	1099.9	994.7	927.6	922.5
35°	2663.6	2562.3	2241.7	1921.1	1619.5	1357.2	1139.2	1016.3	933.9	850.3	837.6
37.5°	3019.7	2828.4	2313.9	1870.4	1501.6	1217.8	1040.4	949.1	876.9	783.1	765.4
40°	3389.7	3141.4	2433.0	1814.6	1391.4	1115.1	985.9	921.2	850.3	761.6	737.5
42.5°	3728.1	3439.1	2572.4	1744.9	1276.1	1032.8	959.3	913.6	842.7	759.0	740.0
45°	4034.7	3719.2	2715.6	1665.1	1149.3	966.9	937.7	899.7	827.5	747.6	732.4
47.5°	4293.2	3957.4	2860.0	1572.6	1027.7	926.3	914.9	874.4	807.2	729.9	717.2
50°	4507.4	4128.5	2942.4	1475.0	927.6	895.9	882.0	831.3	762.8	690.6	683.0
52.5°	4665.8	4234.9	3017.2	1423.1	849.0	846.5	837.6	788.2	722.3	647.5	632.3
55°	4776.0	4322.4	2984.2	1382.5	765.4	784.4	779.3	748.9	693.2	605.7	593.0
57.5°	4782.4	4330.0	2913.3	1141.7	683.0	709.6	718.5	723.6	661.5	584.2	569.0
60°	4776.0	4274.2	2781.5	837.6	603.2	634.9	667.8	667.8	624.7	548.7	537.3
62.5°	4746.9	4164.0	2474.8	596.8	539.8	581.6	624.7	605.7	569.0	508.1	496.7
65°	4613.8	3980.2	1936.3	486.6	513.2	551.2	571.5	544.9	498.0	434.6	429.6
67.5°	4371.8	3559.5	1120.2	446.0	490.4	524.6	541.1	500.5	456.2	395.4	392.8
69°	4105.7	3133.8	631.1	435.9	476.5	506.9	520.8	476.5	433.4	375.1	363.7
70°	3867.5	2753.6	410.6	427.0	462.5	495.5	505.6	460.0	419.4	359.9	352.3
72.5°	2929.7	1658.7	276.2	390.3	424.5	449.9	465.1	422.0	376.4	316.8	301.6
75°	1600.5	451.1	243.3	334.5	377.6	411.8	415.6	361.1	295.3	234.4	228.1
77.5°	311.7	154.6	209.1	276.2	300.3	340.9	338.3	301.6	256.0	198.9	191.3
80°	117.8	111.5	174.9	197.7	211.6	254.7	269.9	243.3	212.9	135.6	116.6
82.5°	79.8	82.4	130.5	116.6	129.3	150.8	190.1	185.0	168.5	92.5	82.4
85°	55.8	64.6	72.2	49.4	63.4	95.0	125.5	121.6	103.9	64.6	58.3
87.5°	16.5	17.7	20.3	25.3	39.3	71.0	102.6	84.9	57.0	48.2	41.8
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)