

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: P233874

Luminaire Tested: **VERD-G-C029-D-U-T4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233874  
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-G-C029-D-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15359 lumens  
Efficiency: N/A  
Efficacy: 126.9 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): 121  
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

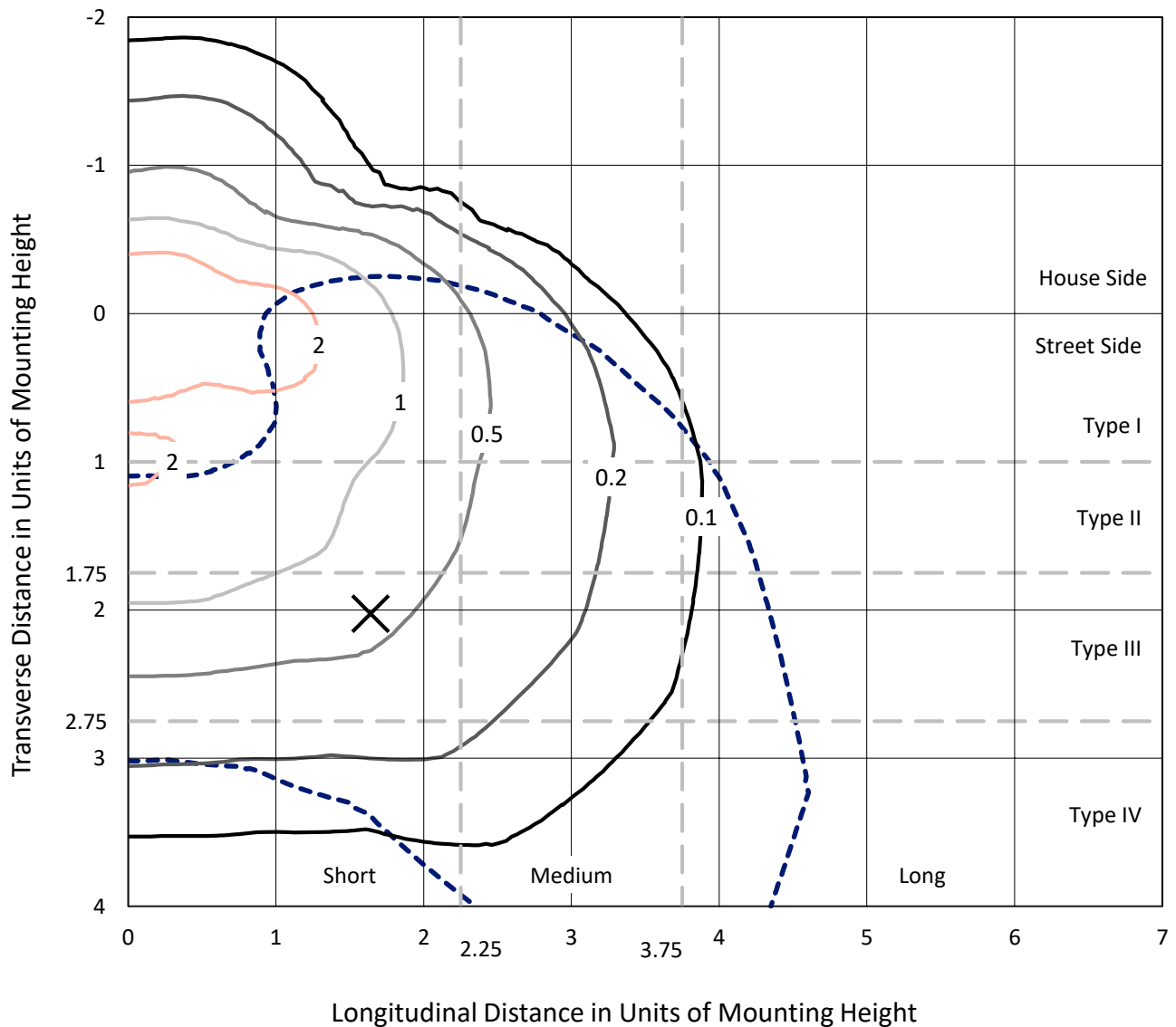


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

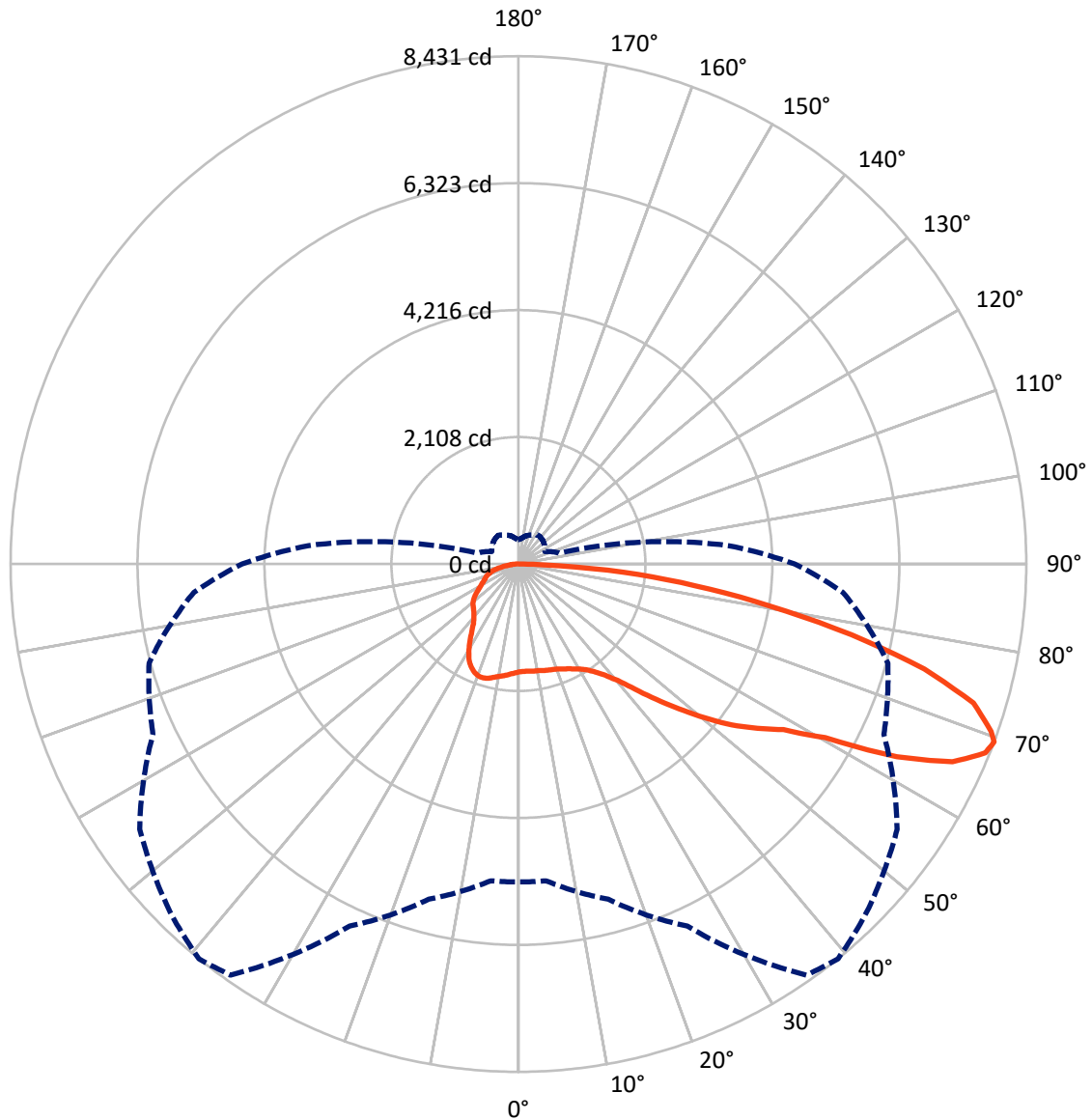


Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - Non-Cutoff

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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	3600.4	0.0	3600.4
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	11758.6	0.0	11758.6
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	15359.0	0.0	15359.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.8	1.1
10°-20°	537.4	3.5
20°-30°	904.6	5.9
30°-40°	1310.5	8.5
40°-50°	2118.4	13.8
50°-60°	3101.3	20.2
60°-70°	3881.7	25.3
70°-80°	2775.0	18.1
80°-90°	556.4	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°	15359.0	100.0
0°-180°	15359.0	100.0



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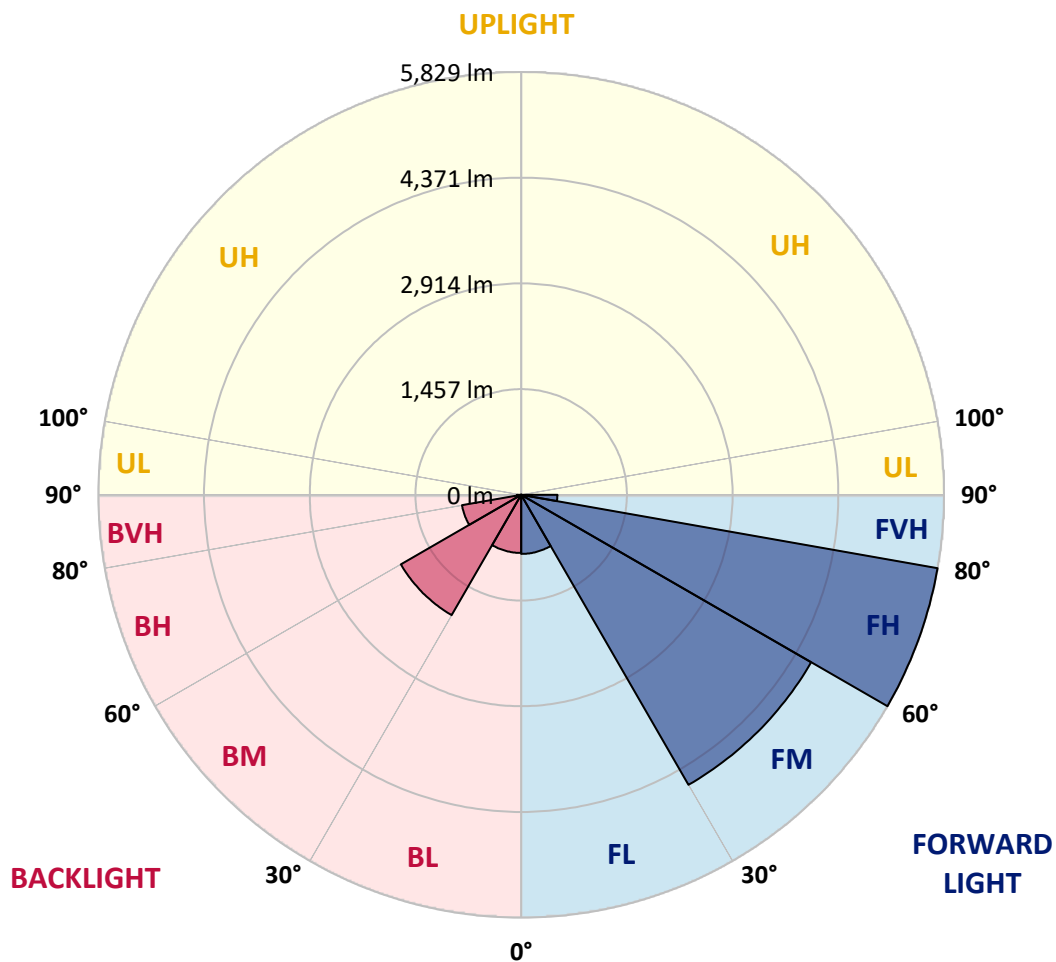
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	814.8	5.3			
FM	(30°-60°)	4615.6	30.1			
FH	(60°-80°)	5828.7	37.9			G3/7500
FVH	(80°-90°)	499.5	3.3			G3/500
BL	(0°-30°)	801.0	5.2	B2/1000		
BM	(30°-60°)	1914.6	12.5	B2/2500		
BH	(60°-80°)	828.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	56.9	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°	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0
2.5°	1820.2	1817.3	1811.7	1789.0	1786.2	1784.8	1787.6	1779.1	1777.7	1780.5	1777.7
5°	1821.6	1818.7	1811.7	1791.9	1789.0	1786.2	1787.6	1780.5	1781.9	1789.0	1789.0
7.5°	1824.4	1821.6	1814.5	1793.3	1798.9	1796.1	1801.8	1791.9	1791.9	1797.5	1798.9
10°	1817.3	1815.9	1811.7	1796.1	1804.6	1798.9	1804.6	1806.0	1811.7	1815.9	1814.5
12.5°	1798.9	1798.9	1798.9	1791.9	1815.9	1814.5	1824.4	1834.3	1848.5	1855.5	1859.8
15°	1787.6	1786.2	1796.1	1794.7	1824.4	1828.7	1845.6	1871.1	1892.3	1910.7	1916.4
17.5°	1798.9	1798.9	1811.7	1808.8	1838.6	1841.4	1859.8	1896.6	1932.0	1967.4	1982.9
20°	1811.7	1813.1	1828.7	1832.9	1861.2	1859.8	1878.2	1923.5	1971.6	2024.0	2050.9
22.5°	1851.3	1849.9	1862.6	1854.1	1886.7	1892.3	1907.9	1947.5	2015.5	2082.0	2125.9
25°	1881.0	1885.3	1898.0	1892.3	1919.2	1926.3	1951.8	1990.0	2070.7	2149.9	2227.8
27.5°	1909.3	1917.8	1927.7	1926.3	1963.1	1971.6	1991.4	2050.9	2144.3	2239.1	2348.1
30°	1951.8	1949.0	1956.0	1968.8	2016.9	2022.6	2046.6	2118.8	2232.0	2355.2	2501.0
32.5°	2008.4	2005.6	2012.7	2024.0	2082.0	2096.2	2128.7	2206.6	2349.5	2498.1	2676.5
35°	2097.6	2104.7	2110.3	2124.5	2181.1	2200.9	2244.8	2343.8	2509.4	2747.2	3002.0
37.5°	2407.5	2392.0	2360.8	2304.2	2319.8	2342.4	2404.7	2546.2	2786.9	3190.2	3423.8
40°	2891.6	2873.2	2775.5	2609.9	2534.9	2540.6	2601.4	2793.9	3122.3	3711.1	3926.2
42.5°	3347.3	3324.7	3208.6	3002.0	2853.4	2836.4	2842.1	3064.3	3490.3	4232.0	4346.6
45°	3777.6	3788.9	3612.0	3453.5	3283.7	3205.8	3181.7	3347.3	3899.3	4683.5	4718.8
47.5°	4189.5	4198.0	3998.4	3845.6	3681.4	3590.8	3544.1	3672.9	4275.8	5048.6	5016.1
50°	4609.9	4632.5	4359.3	4229.1	4077.7	4012.6	3967.3	4052.2	4691.9	5398.2	5297.7
52.5°	5202.9	5108.1	4750.0	4566.0	4458.4	4438.6	4391.9	4461.2	5133.5	5706.8	5497.3
55°	5862.5	5660.1	5283.6	4962.3	4813.7	4813.7	4772.6	4853.3	5589.3	5937.5	5660.1
57.5°	6076.2	6096.0	5965.8	5616.2	5217.0	5185.9	5146.3	5256.7	5979.9	6144.1	5720.9
60°	6449.8	6505.0	6605.5	6314.0	6117.2	5852.5	5611.9	5671.4	6316.8	6314.0	5786.0
62.5°	6635.2	6687.6	7001.8	6844.7	7030.1	7048.5	6598.4	6139.9	6565.9	6398.9	5817.2
65°	6459.7	6496.5	6915.5	7122.1	7660.0	7916.2	7693.9	6769.7	6697.5	6363.5	5701.1
67.5°	5883.7	5953.0	6299.8	6929.6	8221.9	8364.8	8156.8	7634.5	6754.1	6374.8	5607.7
69°	5277.9	5279.3	5760.5	6633.8	8332.3	8431.3	8176.6	7675.5	6694.7	6347.9	5408.1
70°	4936.8	4972.2	5328.9	6377.6	8291.2	8323.8	8128.5	7674.1	6653.6	6339.4	5218.5
72.5°	3852.6	3834.2	4189.5	5333.1	7827.0	7899.2	7684.0	7457.6	6619.7	5974.3	4414.5
75°	2693.4	2750.1	3098.2	4040.9	6744.2	6960.8	6960.8	7164.6	6093.2	5105.2	3191.7
77.5°	2004.2	2012.7	2291.5	3086.9	5426.5	5651.6	5858.2	6029.5	4762.7	3497.4	1426.7
80°	1357.3	1370.1	1624.8	2277.3	4021.1	4227.7	4554.7	4148.4	2833.6	1210.1	162.8
82.5°	854.9	871.9	1074.3	1599.4	2866.1	2959.5	3060.0	2342.4	944.1	140.1	103.3
85°	508.1	510.9	648.2	1021.9	1748.0	1753.6	1646.1	1078.5	253.4	83.5	65.1
87.5°	212.3	223.6	283.1	452.9	512.4	404.8	251.9	86.3	38.2	34.0	22.6
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°	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0	1789.0
2.5°	1769.2	1784.8	1781.9	1786.2	1791.9	1803.2	1815.9	1810.3	1817.3	1832.9	1832.9
5°	1784.8	1797.5	1801.8	1810.3	1817.3	1828.7	1837.1	1834.3	1849.9	1872.5	1872.5
7.5°	1797.5	1807.4	1821.6	1831.5	1838.6	1861.2	1869.7	1864.0	1875.4	1902.3	1903.7
10°	1815.9	1825.8	1847.1	1857.0	1871.1	1882.4	1893.8	1892.3	1903.7	1927.7	1932.0
12.5°	1861.2	1868.3	1898.0	1912.2	1912.2	1926.3	1917.8	1903.7	1909.3	1923.5	1926.3
15°	1920.7	1930.6	1968.8	1975.9	1968.8	1971.6	1951.8	1906.5	1883.9	1888.1	1889.5
17.5°	1988.6	2005.6	2049.5	2039.5	2031.1	2009.8	1958.9	1890.9	1823.0	1797.5	1801.8
20°	2060.8	2082.0	2133.0	2111.7	2080.6	2025.4	1943.3	1827.2	1722.5	1661.6	1658.8
22.5°	2144.3	2171.2	2219.3	2182.5	2113.1	2016.9	1890.9	1749.4	1616.4	1521.5	1515.9
25°	2258.9	2288.7	2305.6	2232.0	2118.8	1985.8	1815.9	1643.2	1476.2	1363.0	1354.5
27.5°	2389.1	2404.7	2370.7	2260.3	2091.9	1919.2	1722.5	1508.8	1324.8	1231.4	1218.6
30°	2533.5	2520.8	2414.6	2246.2	2022.6	1814.5	1576.7	1337.5	1190.3	1115.3	1104.0
32.5°	2700.5	2660.9	2448.6	2206.6	1930.6	1677.2	1418.2	1228.5	1111.1	1036.0	1030.4
35°	2975.1	2861.9	2503.8	2145.7	1808.8	1515.9	1272.4	1135.1	1043.1	949.7	935.6
37.5°	3372.8	3159.1	2584.5	2089.1	1677.2	1360.2	1162.0	1060.1	979.4	874.7	854.9
40°	3786.1	3508.7	2717.5	2026.8	1554.1	1245.5	1101.2	1029.0	949.7	850.6	823.7
42.5°	4164.0	3841.3	2873.2	1949.0	1425.3	1153.5	1071.4	1020.5	941.2	847.8	826.6
45°	4506.5	4154.1	3033.1	1859.8	1283.7	1079.9	1047.4	1004.9	924.2	835.1	818.1
47.5°	4795.3	4420.2	3194.5	1756.5	1147.9	1034.6	1021.9	976.6	901.6	815.3	801.1
50°	5034.5	4611.3	3286.5	1647.5	1036.0	1000.7	985.1	928.5	852.1	771.4	762.9
52.5°	5211.4	4730.2	3370.0	1589.5	948.3	945.5	935.6	880.4	806.8	723.3	706.3
55°	5334.5	4827.8	3333.2	1544.2	854.9	876.1	870.5	836.5	774.2	676.5	662.4
57.5°	5341.6	4836.3	3253.9	1275.2	762.9	792.6	802.5	808.2	738.8	652.5	635.5
60°	5334.5	4774.0	3106.7	935.6	673.7	709.1	745.9	745.9	697.8	612.9	600.1
62.5°	5302.0	4650.9	2764.2	666.6	602.9	649.7	697.8	676.5	635.5	567.6	554.8
65°	5153.4	4445.7	2162.7	543.5	573.2	615.7	638.3	608.6	556.2	485.5	479.8
67.5°	4883.0	3975.8	1251.2	498.2	547.7	586.0	604.4	559.1	509.5	441.6	438.8
69°	4585.8	3500.2	704.9	486.9	532.2	566.1	581.7	532.2	484.1	418.9	406.2
70°	4319.7	3075.6	458.6	477.0	516.6	553.4	564.7	513.8	468.5	402.0	393.5
72.5°	3272.3	1852.7	308.6	435.9	474.1	502.5	519.4	471.3	420.4	353.8	336.9
75°	1787.6	503.9	271.8	373.7	421.8	460.0	464.2	403.4	329.8	261.8	254.8
77.5°	348.2	172.7	233.5	308.6	335.4	380.7	377.9	336.9	285.9	222.2	213.7
80°	131.6	124.6	195.3	220.8	236.4	284.5	301.5	271.8	237.8	151.4	130.2
82.5°	89.2	92.0	145.8	130.2	144.4	168.4	212.3	206.6	188.2	103.3	92.0
85°	62.3	72.2	80.7	55.2	70.8	106.2	140.1	135.9	116.1	72.2	65.1
87.5°	18.4	19.8	22.6	28.3	43.9	79.3	114.6	94.8	63.7	53.8	46.7
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)