

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: P509529

Luminaire Tested: **VERD-G-CA2-110-760-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-110-760-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16306 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

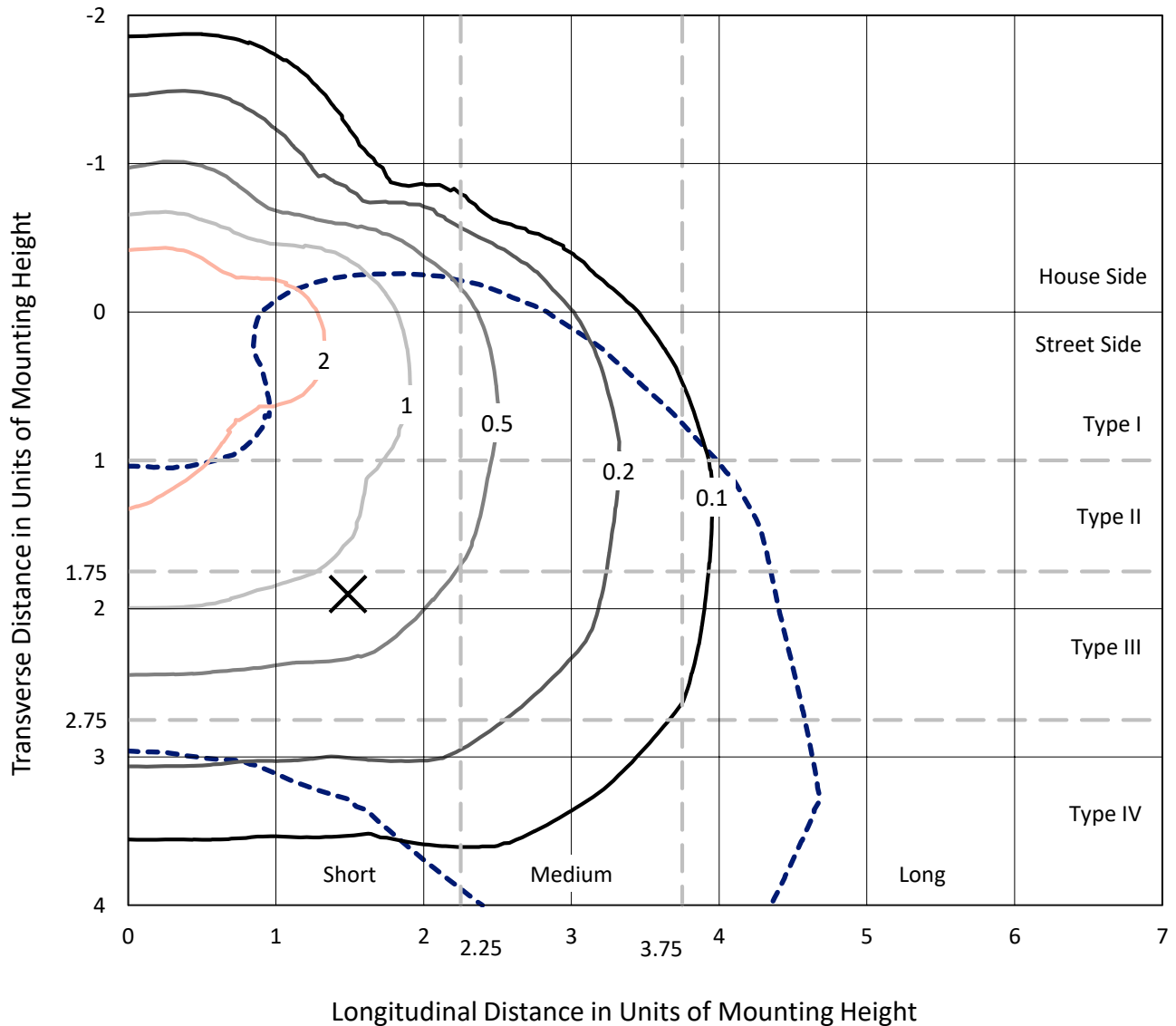
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

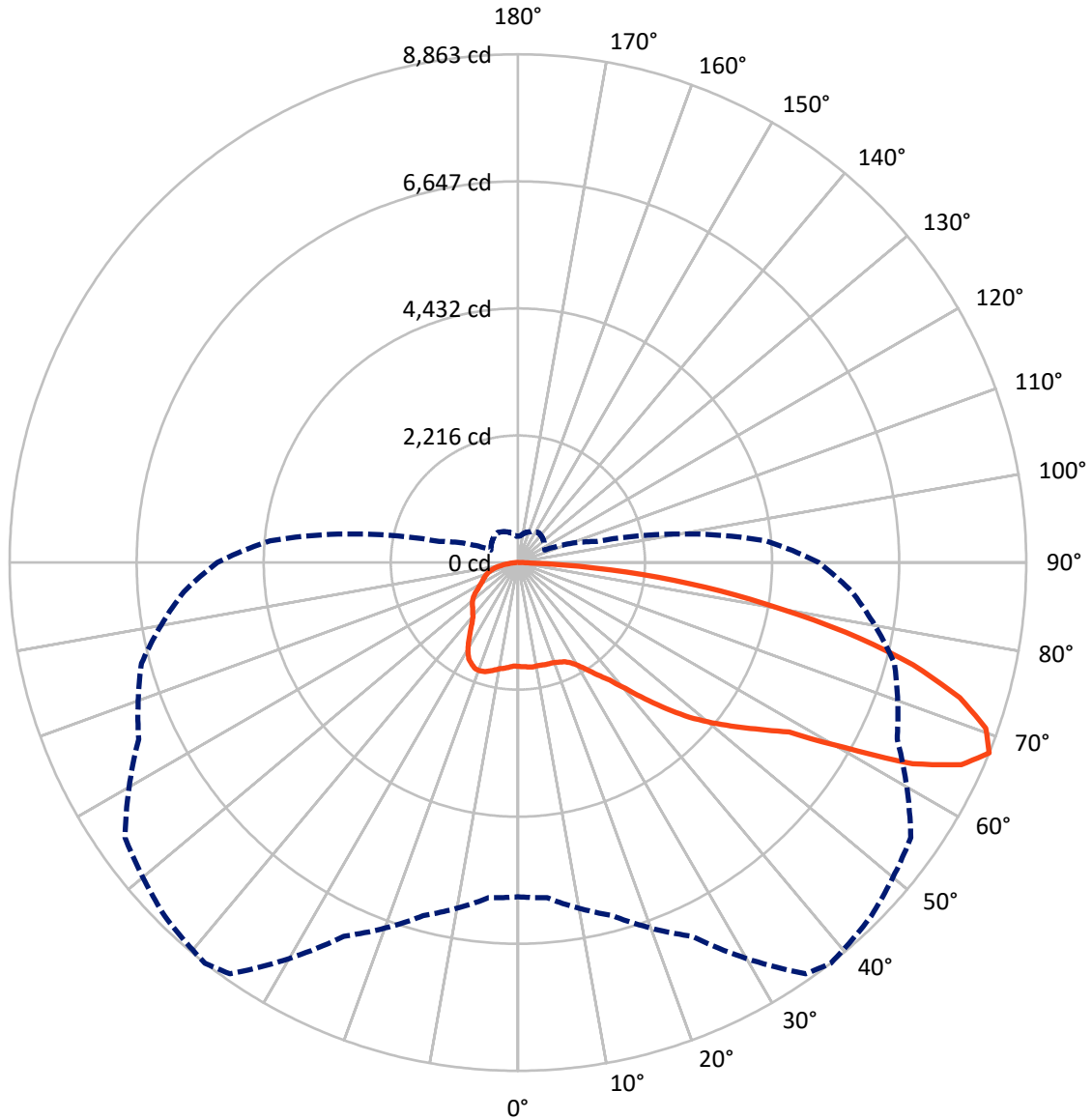
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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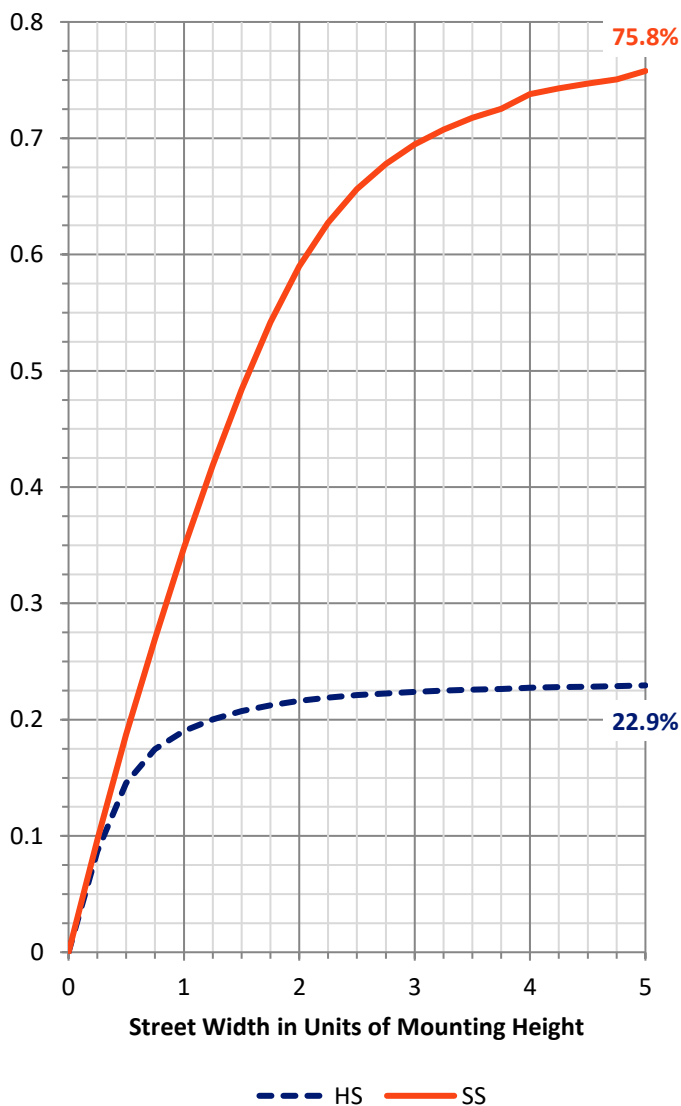
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3783.5	0.0	3783.5
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	12522.5	0.0	12522.5
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	16306.0	0.0	16306.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	1.1
10°-20°	542.1	3.3
20°-30°	918.8	5.6
30°-40°	1408.0	8.6
40°-50°	2319.9	14.2
50°-60°	3315.9	20.3
60°-70°	4130.7	25.3
70°-80°	2943.6	18.1
80°-90°	551.4	3.4
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°	16306.0	100.0
0°-180°	16306.0	100.0

**Coefficient of Utilization**



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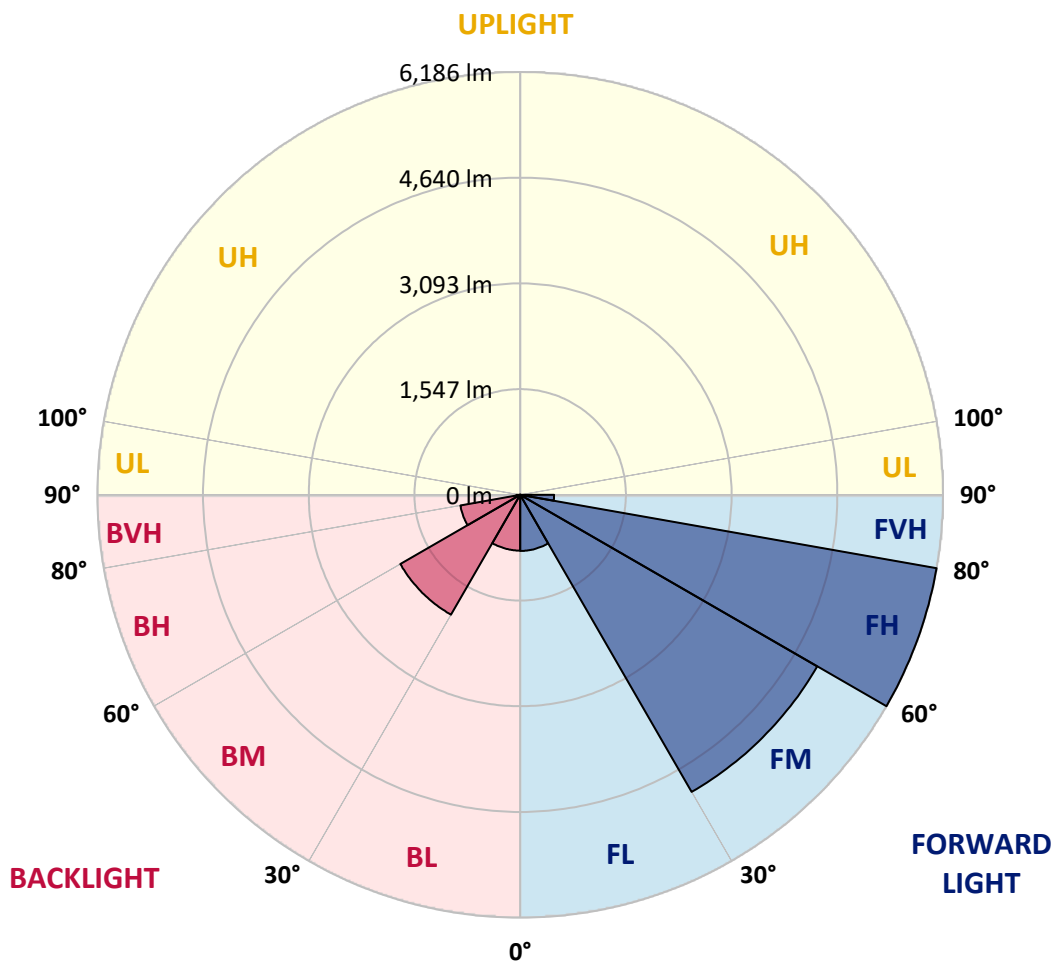
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.8	5.0			
FM (30°-60°)	5018.6	30.8			
FH (60°-80°)	6186.1	37.9			G3/7500
FVH (80°-90°)	497.1	3.0			G3/500
BL (0°-30°)	815.8	5.0	B2/1000		
BM (30°-60°)	2025.2	12.4	B2/2500		
BH (60°-80°)	888.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	54.3	0.3			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°	38°	45°	55°	65°	75°	85°
0°	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6
2.5°	1845.2	1852.8	1838.7	1836.6	1827.9	1817.0	1819.2	1810.5	1799.7	1804.0	1806.2
5°	1856.1	1856.1	1845.2	1834.4	1830.0	1827.9	1830.0	1820.3	1818.1	1825.7	1819.2
7.5°	1846.3	1852.8	1834.4	1834.4	1826.8	1839.8	1840.9	1829.0	1837.6	1837.6	1836.6
10°	1844.1	1846.3	1838.7	1823.5	1822.5	1830.0	1845.2	1849.6	1853.9	1852.8	1857.1
12.5°	1819.2	1817.0	1801.9	1806.2	1826.8	1834.4	1860.4	1872.3	1888.6	1892.9	1895.1
15°	1787.8	1796.5	1797.5	1810.5	1832.2	1844.1	1870.1	1894.0	1929.7	1938.4	1937.3
17.5°	1791.0	1794.3	1799.7	1807.3	1840.9	1846.3	1888.6	1914.6	1959.0	1989.3	2004.5
20°	1811.6	1805.1	1816.0	1835.5	1853.9	1858.2	1902.6	1942.7	2003.4	2043.5	2060.8
22.5°	1846.3	1847.4	1852.8	1852.8	1865.8	1885.3	1926.5	1957.9	2032.7	2089.0	2119.3
25°	1878.8	1881.0	1887.5	1885.3	1907.0	1915.6	1954.7	2002.3	2087.9	2154.0	2212.5
27.5°	1927.6	1934.1	1929.7	1930.8	1973.1	1981.7	1999.1	2063.0	2150.8	2239.6	2343.6
30°	2018.6	2018.6	2014.2	2018.6	2064.1	2085.8	2091.2	2154.0	2225.5	2332.8	2489.9
32.5°	2149.7	2150.8	2123.7	2145.4	2196.3	2234.2	2250.5	2350.1	2430.3	2482.3	2684.9
35°	2430.3	2418.4	2390.2	2327.4	2359.9	2406.5	2458.5	2585.3	2761.9	2955.8	3159.5
37.5°	2860.5	2859.4	2759.7	2634.0	2577.7	2601.5	2674.1	2863.7	3140.0	3624.3	3804.2
40°	3338.3	3350.2	3206.1	3049.0	2883.2	2885.4	2903.8	3141.1	3540.9	4240.9	4335.1
42.5°	3815.0	3795.5	3636.3	3485.7	3260.3	3246.2	3197.4	3421.7	3960.2	4733.9	4746.9
45°	4239.8	4230.0	4053.4	3900.6	3688.3	3634.1	3578.8	3721.9	4360.0	5132.6	5047.0
47.5°	4638.5	4651.5	4407.7	4270.1	4059.9	4032.8	3968.9	4059.9	4755.5	5445.7	5290.8
50°	5092.5	5097.9	4806.5	4636.3	4428.3	4393.6	4368.7	4484.7	5164.0	5744.8	5538.9
52.5°	5600.7	5494.5	5210.6	4976.6	4777.2	4751.2	4737.1	4858.5	5611.5	6007.0	5702.5
55°	6239.9	6098.0	5807.6	5419.7	5129.3	5133.7	5084.9	5226.9	5988.6	6187.9	5861.8
57.5°	6519.5	6552.0	6497.8	6144.6	5635.3	5572.5	5452.2	5561.7	6347.2	6400.3	5987.5
60°	7046.1	7171.8	7054.7	6857.5	6706.9	6542.2	5955.0	5996.1	6674.4	6635.4	6001.6
62.5°	7081.8	7125.2	7494.6	7526.1	7672.3	7727.6	7241.1	6489.1	6971.3	6753.5	6049.2
65°	6730.8	6779.5	7224.8	7616.0	8421.0	8496.9	8343.0	7391.7	7211.8	6817.4	6011.3
67.5°	5828.2	5868.3	6374.3	7191.3	8753.7	8863.1	8713.6	8362.5	7296.4	6795.8	5844.5
70°	4985.2	5008.0	5428.4	6571.5	8525.1	8654.0	8594.4	8399.4	7293.1	6667.9	5476.1
72.5°	3915.8	3981.9	4321.0	5450.1	7947.6	8055.9	8073.2	8172.9	7107.8	6247.5	4652.6
75°	2839.9	2875.6	3260.3	4234.4	6859.7	7118.7	7423.1	7799.1	6411.1	5303.8	3440.1
77.5°	2001.2	2035.9	2397.8	3210.4	5551.9	5846.6	6397.0	6618.1	5201.9	3975.4	1810.5
80°	1317.5	1313.2	1657.8	2376.1	4166.1	4373.0	4781.5	4485.7	3018.7	1728.2	197.2
82.5°	773.6	817.0	1061.8	1632.9	2911.4	3026.2	3015.4	2362.1	1198.4	178.8	100.8
85°	446.4	462.7	626.3	967.6	1604.7	1620.9	1451.9	916.6	296.9	80.2	59.6
87.5°	199.4	191.8	249.2	319.6	292.5	217.8	135.4	37.9	22.8	15.2	9.8
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°	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6
2.5°	1797.5	1792.1	1819.2	1804.0	1817.0	1809.5	1803.0	1811.6	1827.9	1842.0	1833.3
5°	1811.6	1814.9	1836.6	1818.1	1835.5	1832.2	1823.5	1833.3	1859.3	1872.3	1871.2
7.5°	1827.9	1830.0	1852.8	1845.2	1852.8	1846.3	1860.4	1853.9	1876.6	1885.3	1879.9
10°	1847.4	1850.6	1871.2	1872.3	1875.6	1871.2	1877.7	1881.0	1894.0	1911.3	1900.5
12.5°	1889.6	1897.2	1912.4	1928.6	1926.5	1909.1	1914.6	1897.2	1909.1	1914.6	1923.2
15°	1948.2	1966.6	1975.2	1998.0	1977.4	1967.7	1947.1	1912.4	1901.6	1896.1	1887.5
17.5°	2011.0	2028.3	2044.6	2073.8	2040.3	2014.2	1978.5	1913.5	1864.7	1847.4	1839.8
20°	2081.4	2097.7	2126.9	2146.4	2096.6	2040.3	1982.8	1887.5	1791.0	1724.9	1732.5
22.5°	2160.5	2196.3	2215.8	2210.4	2139.9	2063.0	1964.4	1819.2	1695.7	1597.1	1590.6
25°	2270.0	2290.5	2298.1	2248.3	2163.8	2046.8	1902.6	1738.0	1565.7	1455.2	1438.9
27.5°	2384.8	2406.5	2366.4	2273.2	2156.2	2008.8	1833.3	1599.3	1415.1	1308.9	1297.0
30°	2532.2	2526.7	2413.0	2265.6	2112.8	1917.8	1706.5	1457.3	1287.2	1188.6	1183.2
32.5°	2692.5	2652.4	2450.9	2228.8	2030.5	1798.6	1545.1	1323.0	1191.9	1093.3	1088.9
35°	3071.8	2887.6	2506.2	2182.2	1909.1	1633.9	1395.6	1222.2	1116.0	1004.4	982.7
37.5°	3628.7	3331.8	2619.9	2134.5	1770.5	1471.4	1271.0	1147.4	1046.7	927.5	906.9
40°	4147.7	3783.6	2819.3	2098.8	1645.9	1340.3	1185.4	1095.4	997.9	878.7	852.7
42.5°	4516.1	4134.7	3058.8	2040.3	1521.2	1236.3	1149.6	1075.9	984.9	874.4	853.8
45°	4813.0	4438.1	3296.0	1974.2	1375.0	1147.4	1112.8	1059.7	968.7	861.4	837.6
47.5°	5022.1	4628.8	3460.7	1899.4	1235.2	1093.3	1081.3	1033.7	943.7	843.0	827.8
50°	5237.7	4842.2	3573.4	1822.5	1109.5	1052.1	1038.0	975.2	892.8	802.9	786.6
52.5°	5378.5	4946.2	3638.4	1807.3	1002.2	995.7	978.4	918.8	840.8	743.3	723.8
55°	5485.8	5038.3	3628.7	1718.4	905.8	922.1	911.2	866.8	798.5	703.2	690.2
57.5°	5511.8	5052.4	3539.8	1443.2	814.8	823.5	828.9	837.6	771.5	692.4	670.7
60°	5586.6	4986.3	3382.7	1038.0	707.5	729.2	772.5	780.1	734.6	644.7	631.7
62.5°	5538.9	4941.9	3041.4	731.4	631.7	676.1	717.3	717.3	654.4	571.0	562.3
65°	5455.5	4766.4	2379.4	576.4	591.6	637.1	675.0	649.0	594.8	516.8	511.4
67.5°	5243.1	4338.4	1420.5	519.0	563.4	606.8	633.9	594.8	543.9	467.0	458.3
70°	4633.1	3457.5	540.7	491.9	535.3	565.6	582.9	542.8	493.0	416.1	408.5
72.5°	3678.5	2162.7	343.5	458.3	499.5	526.6	537.4	490.8	411.7	324.0	315.3
75°	2213.6	617.6	298.0	396.6	439.9	486.5	468.1	407.4	347.8	272.0	266.5
77.5°	560.2	187.4	265.5	319.6	357.6	412.8	411.7	367.3	303.4	222.1	213.5
80°	134.4	131.1	215.6	236.2	269.8	316.4	312.1	305.5	240.5	153.9	126.8
82.5°	85.6	91.0	146.3	132.2	153.9	184.2	209.1	197.2	179.9	94.3	84.5
85°	57.4	72.6	71.5	49.8	69.3	104.0	135.4	123.5	101.8	58.5	52.0
87.5°	8.7	9.8	13.0	19.5	30.3	50.9	67.2	66.1	49.8	36.8	34.7
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)