

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: P509513

Luminaire Tested: **VERD-G-CA2-110-740-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509513  
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-CA2-110-740-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16359 lumens  
Efficiency: N/A  
Efficacy: 144.5 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

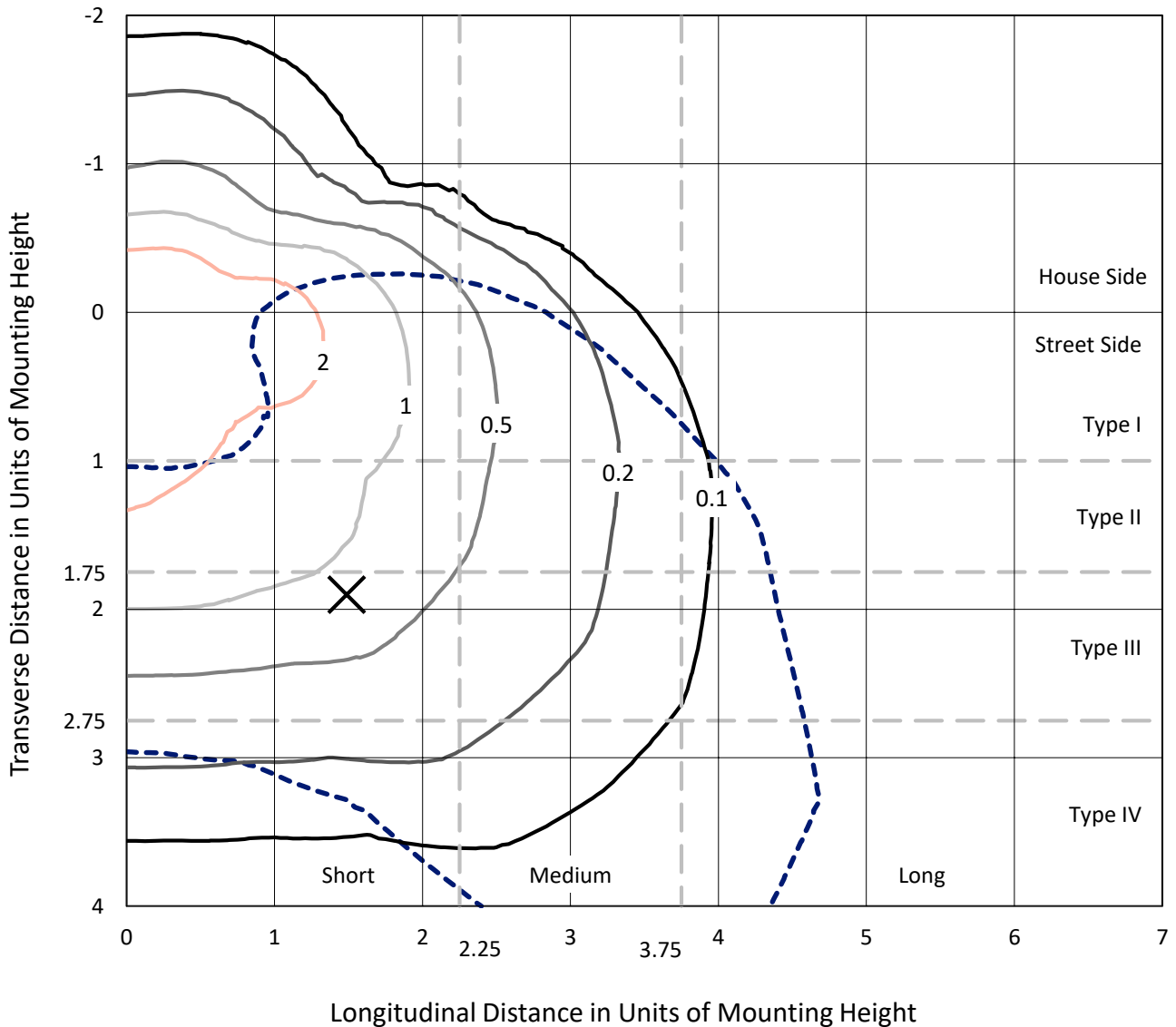
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509513  
 CATALOG NUMBER: VERD-G-CA2-110-740-U-T4

### Iso-Footcandle Lines of Horizontal Illumination

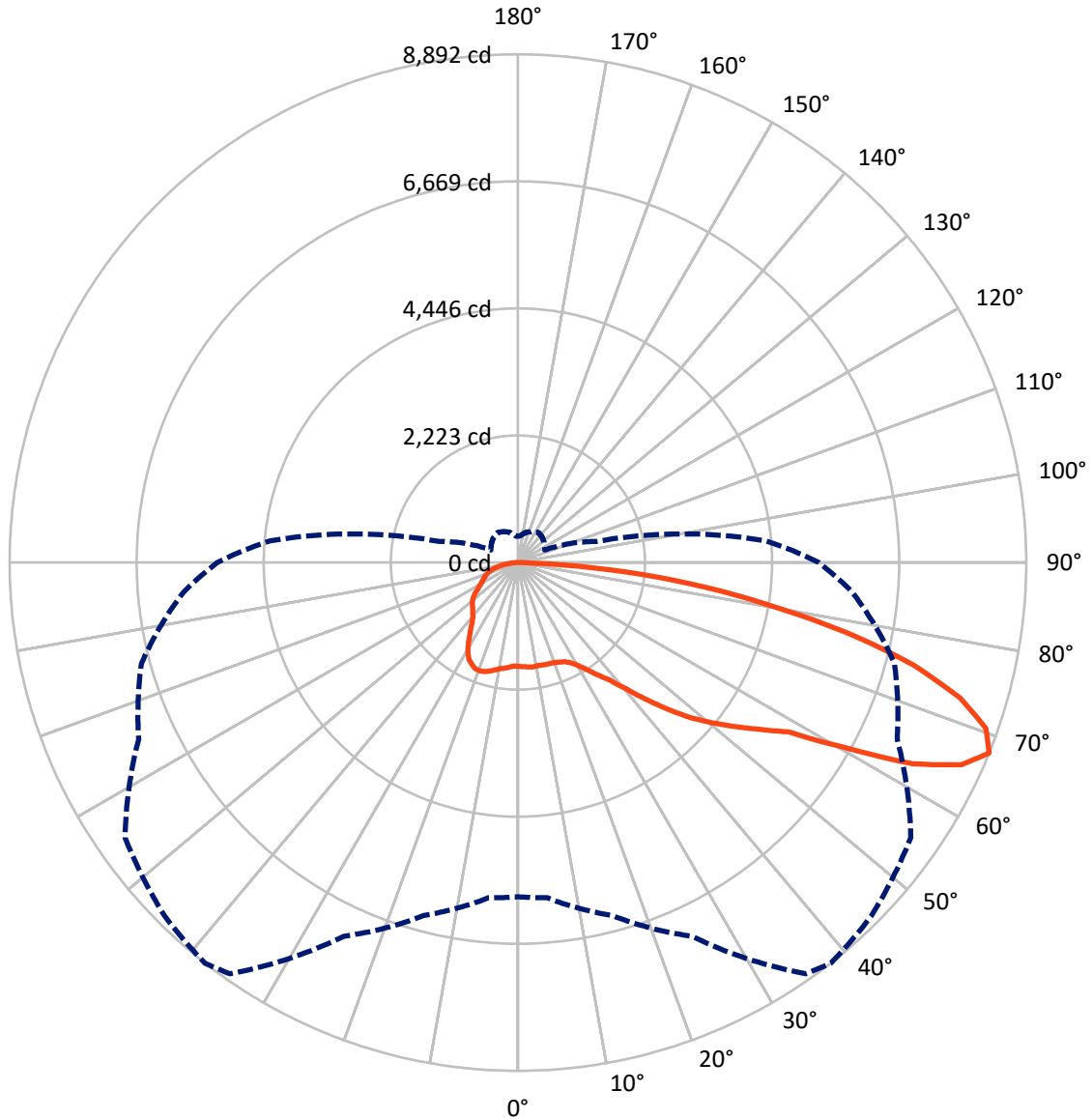
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P509513  
CATALOG NUMBER: VERD-G-CA2-110-740-U-T4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509513

CATALOG NUMBER: VERD-G-CA2-110-740-U-T4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3795.8	0.0	3795.8
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	12563.2	0.0	12563.2
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	16359.0	0.0	16359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.3	1.1
10°-20°	543.8	3.3
20°-30°	921.8	5.6
30°-40°	1412.5	8.6
40°-50°	2327.5	14.2
50°-60°	3326.6	20.3
60°-70°	4144.1	25.3
70°-80°	2953.1	18.1
80°-90°	553.2	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°	16359.0	100.0
0°-180°	16359.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509513

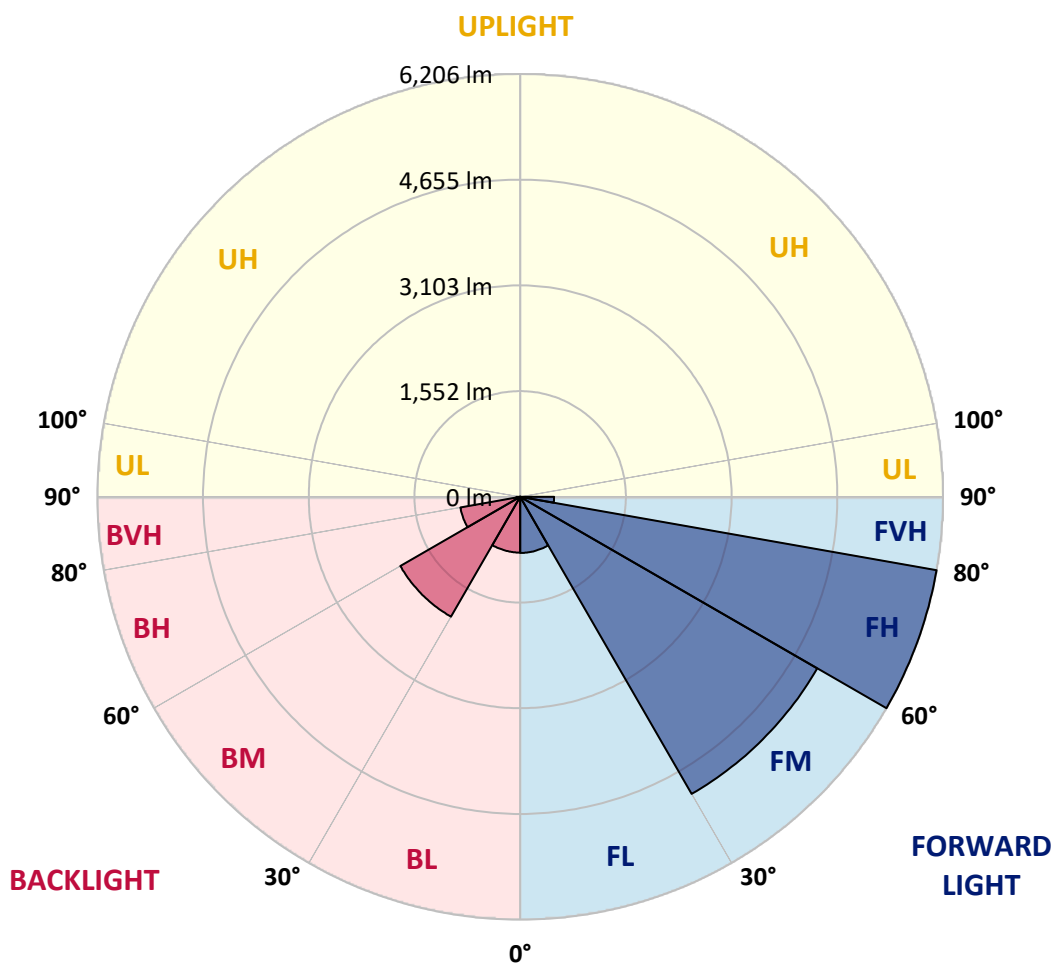
CATALOG NUMBER: VERD-G-CA2-110-740-U-T4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.4	5.0			
FM (30°-60°)	5034.9	30.8			
FH (60°-80°)	6206.2	37.9			G3/7500
FVH (80°-90°)	498.7	3.0			G3/500
BL (0°-30°)	818.5	5.0	B2/1000		
BM (30°-60°)	2031.7	12.4	B2/2500		
BH (60°-80°)	891.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	54.5	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





REPORT NUMBER: P509513

CATALOG NUMBER: VERD-G-CA2-110-740-U-T4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5
2.5°	1851.2	1858.8	1844.7	1842.5	1833.8	1823.0	1825.1	1816.4	1805.6	1809.9	1812.1
5°	1862.1	1862.1	1851.2	1840.3	1836.0	1833.8	1836.0	1826.2	1824.0	1831.6	1825.1
7.5°	1852.3	1858.8	1840.3	1840.3	1832.7	1845.8	1846.9	1834.9	1843.6	1843.6	1842.5
10°	1850.1	1852.3	1844.7	1829.5	1828.4	1836.0	1851.2	1855.6	1859.9	1858.8	1863.2
12.5°	1825.1	1823.0	1807.7	1812.1	1832.7	1840.3	1866.4	1878.4	1894.7	1899.0	1901.2
15°	1793.6	1802.3	1803.4	1816.4	1838.2	1850.1	1876.2	1900.1	1936.0	1944.7	1943.6
17.5°	1796.9	1800.1	1805.6	1813.2	1846.9	1852.3	1894.7	1920.8	1965.4	1995.8	2011.0
20°	1817.5	1811.0	1821.9	1841.4	1859.9	1864.3	1908.8	1949.0	2009.9	2050.1	2067.5
22.5°	1852.3	1853.4	1858.8	1858.8	1871.9	1891.4	1932.7	1964.3	2039.3	2095.8	2126.2
25°	1884.9	1887.1	1893.6	1891.4	1913.2	1921.9	1961.0	2008.8	2094.7	2161.0	2219.7
27.5°	1933.8	1940.4	1936.0	1937.1	1979.5	1988.2	2005.6	2069.7	2157.8	2246.9	2351.3
30°	2025.1	2025.1	2020.8	2025.1	2070.8	2092.5	2098.0	2161.0	2232.8	2340.4	2498.0
32.5°	2156.7	2157.8	2130.6	2152.3	2203.4	2241.5	2257.8	2357.8	2438.2	2490.4	2693.7
35°	2438.2	2426.3	2398.0	2334.9	2367.6	2414.3	2466.5	2593.7	2770.8	2965.4	3169.8
37.5°	2869.8	2868.7	2768.7	2642.6	2586.0	2610.0	2682.8	2873.0	3150.2	3636.1	3816.6
40°	3349.1	3361.1	3216.5	3058.9	2892.6	2894.8	2913.2	3151.3	3552.4	4254.6	4349.2
42.5°	3827.4	3807.9	3648.1	3497.0	3270.9	3256.7	3207.8	3432.8	3973.1	4749.2	4762.3
45°	4253.6	4243.8	4066.6	3913.3	3700.3	3645.9	3590.5	3734.0	4374.2	5149.3	5063.4
47.5°	4653.6	4666.6	4422.0	4284.0	4073.1	4045.9	3981.8	4073.1	4771.0	5463.4	5308.0
50°	5109.1	5114.5	4822.1	4651.4	4442.7	4407.9	4382.9	4499.2	5180.8	5763.4	5556.9
52.5°	5618.9	5512.3	5227.5	4992.7	4792.7	4766.6	4752.5	4874.3	5629.7	6026.5	5721.1
55°	6260.2	6117.8	5826.5	5437.3	5146.0	5150.4	5101.4	5243.8	6008.0	6208.0	5880.8
57.5°	6540.7	6573.3	6518.9	6164.6	5653.7	5590.6	5469.9	5579.7	6367.8	6421.1	6006.9
60°	7069.0	7195.1	7077.7	6879.8	6728.7	6563.5	5974.3	6015.6	6696.1	6657.0	6021.1
62.5°	7104.8	7148.3	7519.0	7550.5	7697.3	7752.7	7264.6	6510.2	6994.0	6775.5	6068.9
65°	6752.6	6801.6	7248.3	7640.8	8448.4	8524.5	8370.1	7415.7	7235.3	6839.6	6030.9
67.5°	5847.1	5887.4	6395.0	7214.6	8782.1	8891.9	8741.9	8389.7	7320.1	6817.9	5863.5
70°	5001.4	5024.3	5446.0	6592.9	8552.8	8682.1	8622.3	8426.7	7316.8	6689.6	5493.9
72.5°	3928.5	3994.8	4335.1	5467.8	7973.4	8082.1	8099.5	8199.5	7130.9	6267.8	4667.7
75°	2849.1	2885.0	3270.9	4248.1	6882.0	7141.8	7447.3	7824.5	6432.0	5321.0	3451.3
77.5°	2007.7	2042.5	2405.6	3220.9	5570.0	5865.6	6417.8	6639.6	5218.8	3988.3	1816.4
80°	1321.8	1317.5	1663.2	2383.9	4179.6	4387.3	4797.1	4500.3	3028.5	1733.8	197.8
82.5°	776.1	819.6	1065.3	1638.2	2920.9	3036.1	3025.2	2369.7	1202.3	179.4	101.1
85°	447.9	464.2	628.3	970.7	1609.9	1626.2	1456.6	919.6	297.8	80.4	59.8
87.5°	200.0	192.4	250.0	320.7	293.5	218.5	135.9	38.0	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



REPORT NUMBER: P509513

CATALOG NUMBER: VERD-G-CA2-110-740-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5
2.5°	1803.4	1798.0	1825.1	1809.9	1823.0	1815.3	1808.8	1817.5	1833.8	1848.0	1839.3
5°	1817.5	1820.8	1842.5	1824.0	1841.4	1838.2	1829.5	1839.3	1865.3	1878.4	1877.3
7.5°	1833.8	1836.0	1858.8	1851.2	1858.8	1852.3	1866.4	1859.9	1882.7	1891.4	1886.0
10°	1853.4	1856.7	1877.3	1878.4	1881.7	1877.3	1883.8	1887.1	1900.1	1917.5	1906.7
12.5°	1895.8	1903.4	1918.6	1934.9	1932.7	1915.4	1920.8	1903.4	1915.4	1920.8	1929.5
15°	1954.5	1973.0	1981.7	2004.5	1983.8	1974.1	1953.4	1918.6	1907.7	1902.3	1893.6
17.5°	2017.5	2034.9	2051.2	2080.6	2046.9	2020.8	1984.9	1919.7	1870.8	1853.4	1845.8
20°	2088.2	2104.5	2133.8	2153.4	2103.4	2046.9	1989.3	1893.6	1796.9	1730.6	1738.2
22.5°	2167.5	2203.4	2223.0	2217.5	2146.9	2069.7	1970.8	1825.1	1701.2	1602.3	1595.8
25°	2277.3	2298.0	2305.6	2255.6	2170.8	2053.4	1908.8	1743.6	1570.8	1459.9	1443.6
27.5°	2392.6	2414.3	2374.1	2280.6	2163.2	2015.4	1839.3	1604.5	1419.7	1313.1	1301.2
30°	2540.4	2535.0	2420.8	2273.0	2119.7	1924.0	1712.1	1462.1	1291.4	1192.5	1187.0
32.5°	2701.3	2661.1	2458.9	2236.0	2037.1	1804.5	1550.1	1327.3	1195.7	1096.8	1092.5
35°	3081.7	2896.9	2514.3	2189.3	1915.4	1639.2	1400.1	1226.2	1119.6	1007.7	985.9
37.5°	3640.5	3342.6	2628.4	2141.5	1776.2	1476.2	1275.1	1151.2	1050.1	930.5	909.8
40°	4161.2	3795.9	2828.5	2105.6	1651.2	1344.7	1189.2	1099.0	1001.2	881.6	855.5
42.5°	4530.8	4148.1	3068.7	2046.9	1526.2	1240.3	1153.3	1079.4	988.1	877.2	856.6
45°	4828.6	4452.5	3306.8	1980.6	1379.4	1151.2	1116.4	1063.1	971.8	864.2	840.3
47.5°	5038.4	4643.8	3472.0	1905.6	1239.2	1096.8	1084.9	1037.0	946.8	845.7	830.5
50°	5254.7	4857.9	3585.0	1828.4	1113.1	1055.5	1041.4	978.3	895.7	805.5	789.2
52.5°	5396.0	4962.3	3650.3	1813.2	1005.5	999.0	981.6	921.8	843.5	745.7	726.1
55°	5503.6	5054.7	3640.5	1724.0	908.8	925.1	914.2	869.6	801.1	705.5	692.4
57.5°	5529.7	5068.8	3551.3	1447.9	817.4	826.1	831.6	840.3	774.0	694.6	672.9
60°	5604.7	5002.5	3393.7	1041.4	709.8	731.6	775.1	782.7	737.0	646.8	633.7
62.5°	5556.9	4958.0	3051.3	733.7	633.7	678.3	719.6	719.6	656.6	572.9	564.2
65°	5473.2	4781.9	2387.1	578.3	593.5	639.2	677.2	651.1	596.8	518.5	513.1
67.5°	5260.1	4352.5	1425.1	520.7	565.3	608.7	635.9	596.8	545.7	468.5	459.8
70°	4648.2	3468.7	542.4	493.5	537.0	567.4	584.8	544.6	494.6	417.4	409.8
72.5°	3690.5	2169.7	344.6	459.8	501.1	528.3	539.2	492.4	413.1	325.0	316.3
75°	2220.8	619.6	298.9	397.9	441.3	488.1	469.6	408.7	348.9	272.8	267.4
77.5°	562.0	188.1	266.3	320.7	358.7	414.2	413.1	368.5	304.4	222.8	214.1
80°	134.8	131.5	216.3	237.0	270.7	317.4	313.1	306.5	241.3	154.4	127.2
82.5°	85.9	91.3	146.7	132.6	154.4	184.8	209.8	197.8	180.4	94.6	84.8
85°	57.6	72.8	71.7	50.0	69.6	104.4	135.9	123.9	102.2	58.7	52.2
87.5°	8.7	9.8	13.0	19.6	30.4	51.1	67.4	66.3	50.0	37.0	34.8
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)