

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: P509110

Luminaire Tested: **VERD-CA2-110-727-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-110-727-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

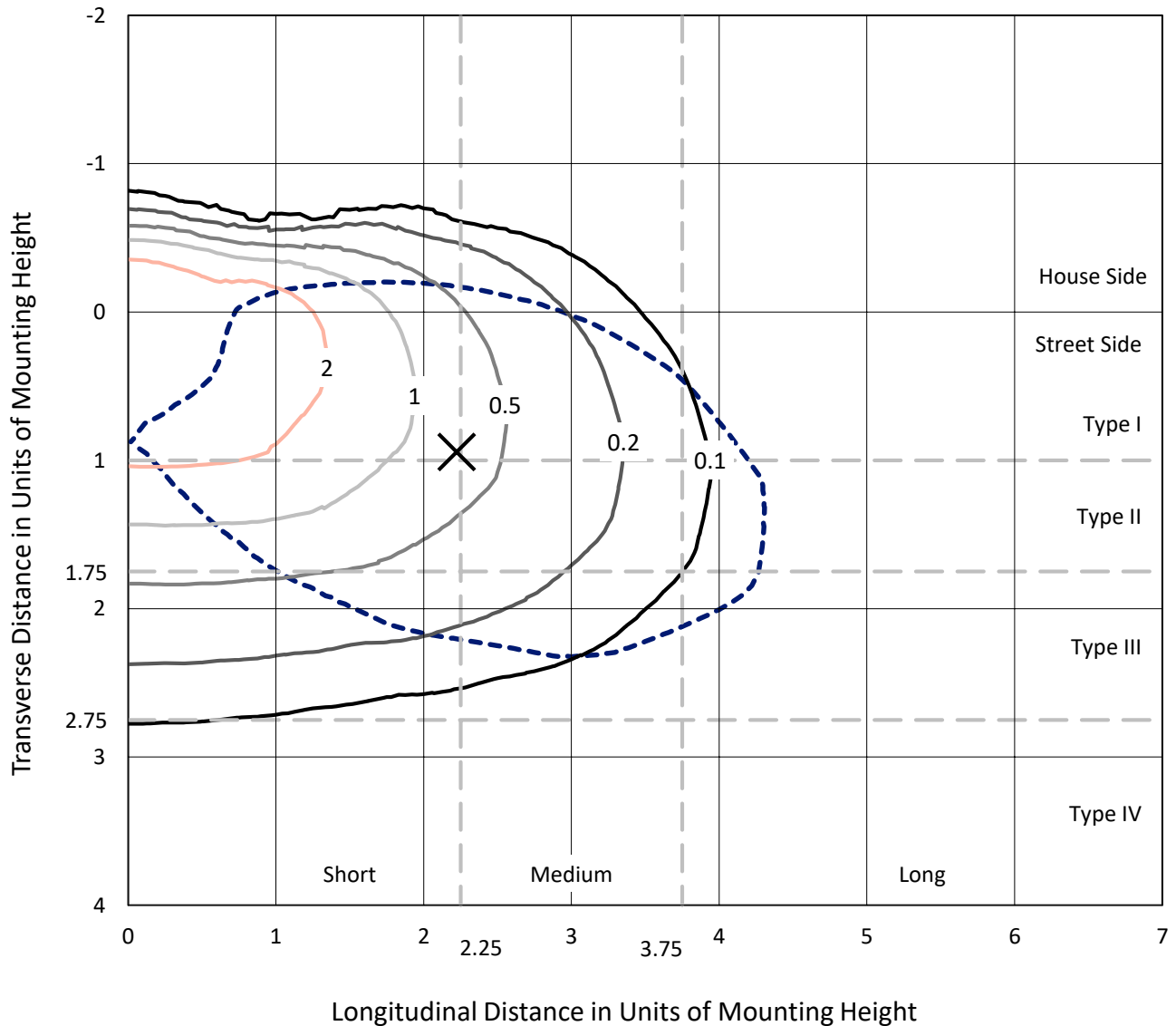
Lumens per Lamp: N/A  
Luminaire Lumens: 12751 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): 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: P509110  
 CATALOG NUMBER: VERD-CA2-110-727-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

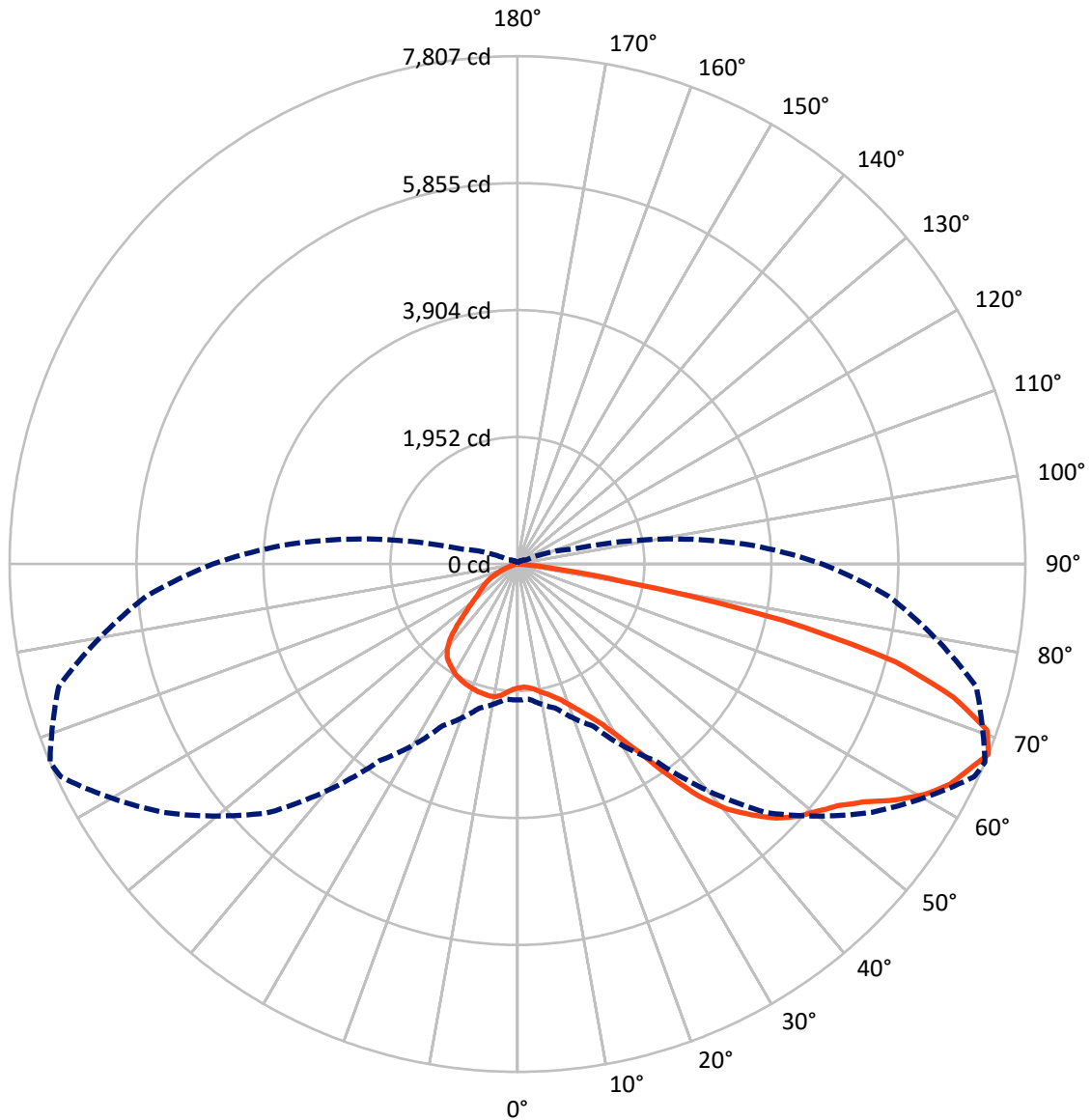
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P509110  
CATALOG NUMBER: VERD-CA2-110-727-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509110  
 CATALOG NUMBER: VERD-CA2-110-727-U-T3-HSS

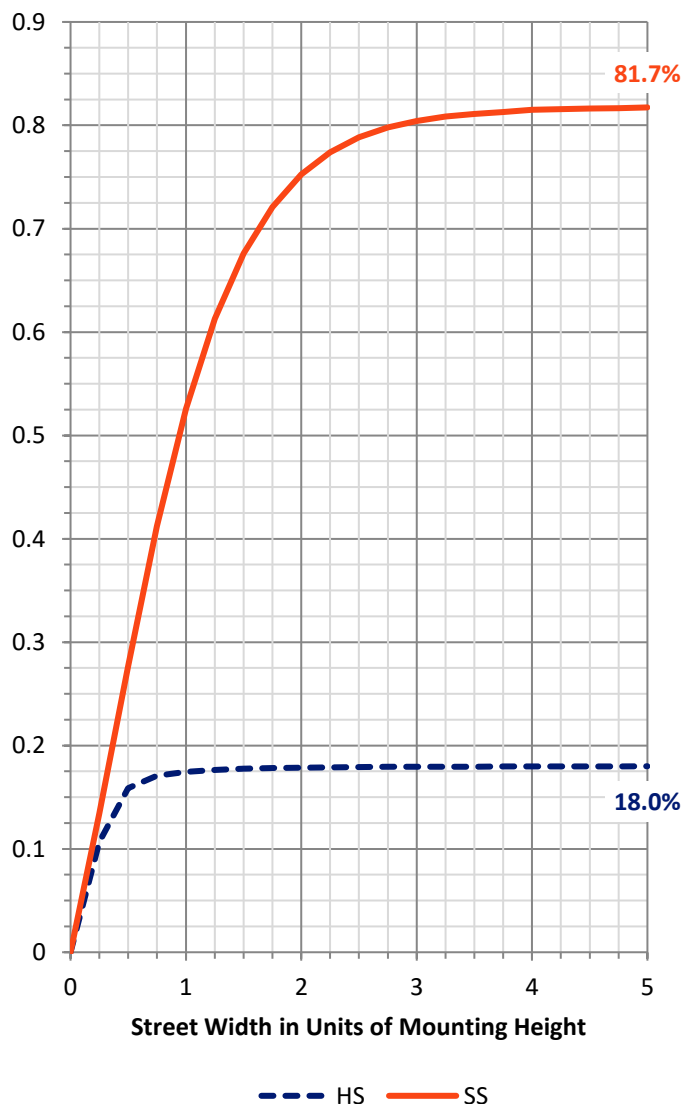
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2323.3	0.0	2323.3
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	10427.7	0.0	10427.7
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	12751.0	0.0	12751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.7	1.5
10°-20°	597.4	4.7
20°-30°	1019.4	8.0
30°-40°	1586.7	12.4
40°-50°	2239.8	17.6
50°-60°	2697.7	21.2
60°-70°	2787.9	21.9
70°-80°	1535.8	12.0
80°-90°	95.7	0.8
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°	12751.0	100.0
0°-180°	12751.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509110

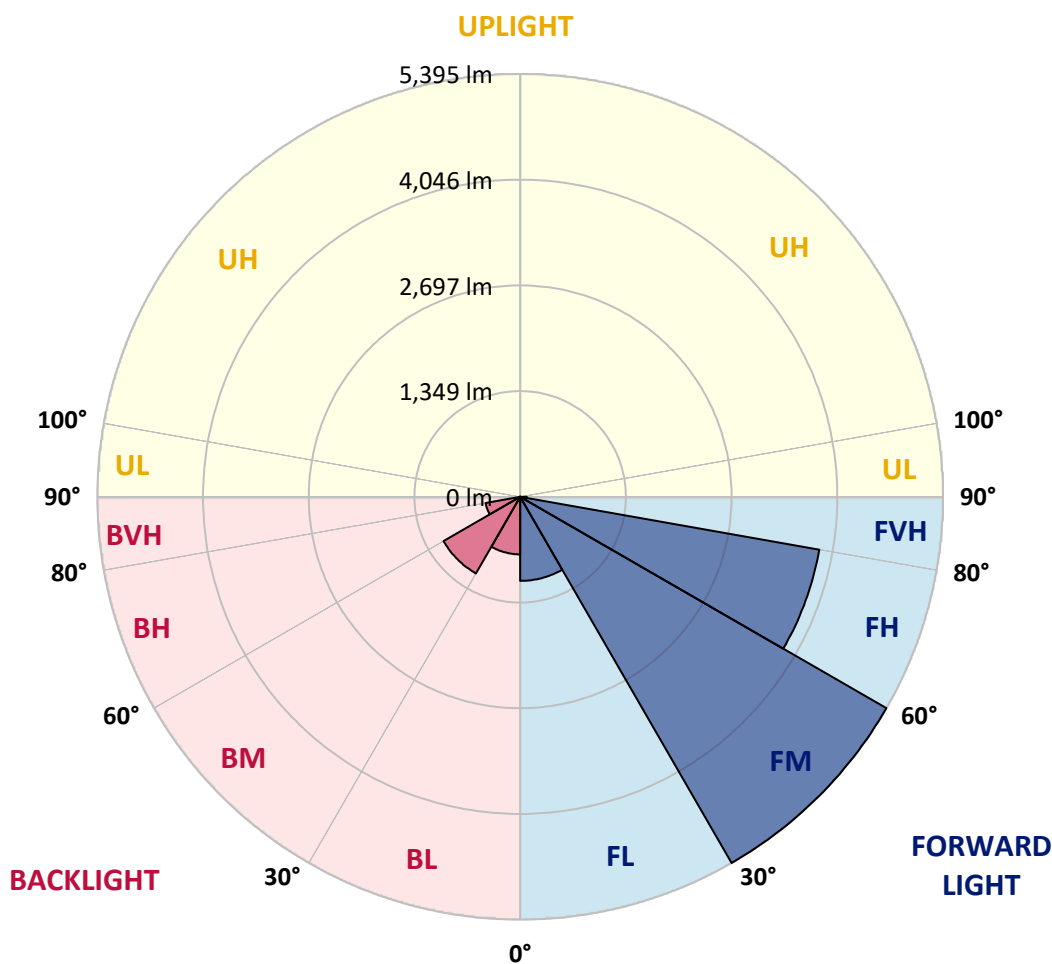
CATALOG NUMBER: VERD-CA2-110-727-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.9	8.4			
FM (30°-60°)	5394.7	42.3			
FH (60°-80°)	3875.8	30.4			G2/5000
FVH (80°-90°)	84.2	0.7			G1/100
BL (0°-30°)	734.6	5.8	B2/1000		
BM (30°-60°)	1129.4	8.9	B2/2500		
BH (60°-80°)	447.8	3.5	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





REPORT NUMBER: P509110

CATALOG NUMBER: VERD-CA2-110-727-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9
2.5°	1886.2	1905.3	1905.3	1899.4	1902.4	1889.1	1880.3	1890.6	1893.5	1902.4	1914.2
5°	1923.1	1945.2	1943.7	1933.4	1924.5	1912.7	1900.9	1909.8	1911.2	1914.2	1929.0
7.5°	2001.3	2021.9	2013.1	2002.8	1998.3	1971.8	1946.7	1945.2	1948.1	1957.0	1973.2
10°	2103.1	2119.3	2116.4	2100.2	2088.4	2048.5	2013.1	1999.8	2001.3	2004.2	2032.3
12.5°	2218.2	2240.4	2224.1	2202.0	2181.3	2123.8	2075.1	2055.9	2052.9	2060.3	2083.9
15°	2331.9	2355.5	2343.7	2330.4	2283.2	2219.7	2157.7	2126.7	2123.8	2123.8	2138.5
17.5°	2480.9	2489.8	2482.4	2463.2	2410.1	2330.4	2256.6	2210.8	2203.5	2207.9	2210.8
20°	2646.2	2662.5	2653.6	2632.9	2556.2	2470.6	2377.6	2323.0	2318.6	2323.0	2295.0
22.5°	2846.9	2852.9	2848.4	2814.5	2745.1	2631.5	2509.0	2447.0	2447.0	2451.4	2393.9
25°	3018.1	3053.6	3043.2	3001.9	2920.7	2821.9	2674.3	2597.5	2602.0	2604.9	2525.2
27.5°	3217.4	3246.9	3239.5	3208.5	3155.4	3030.0	2852.9	2802.7	2798.2	2793.8	2669.8
30°	3407.8	3429.9	3444.7	3437.3	3394.5	3276.4	3118.5	3081.6	3093.4	3084.6	2870.6
32.5°	3562.7	3601.1	3642.4	3651.3	3639.5	3534.7	3419.6	3438.8	3453.5	3558.3	3429.9
35°	3695.6	3736.9	3804.8	3875.6	3888.9	3847.6	3790.0	3930.2	3973.0	4187.0	4051.3
37.5°	3834.3	3869.7	3937.6	4049.8	4123.6	4145.7	4201.8	4423.2	4526.5	4711.0	4458.6
40°	3897.8	3933.2	4051.3	4192.9	4346.4	4470.4	4582.6	4839.4	4954.5	5010.6	4682.9
42.5°	3834.3	3868.2	4058.6	4325.8	4533.9	4808.4	4935.3	5192.1	5268.8	5262.9	4958.9
45°	3772.3	3804.8	4004.0	4359.7	4703.6	5119.8	5227.5	5515.3	5571.4	5500.6	5118.3
47.5°	3692.6	3736.9	3943.5	4339.1	4855.6	5401.7	5500.6	5745.6	5795.7	5690.9	5301.3
50°	3595.2	3633.6	3874.2	4306.6	4956.0	5612.7	5717.5	5961.0	5974.3	5876.9	5466.6
52.5°	3483.0	3503.7	3764.9	4241.6	5043.0	5767.7	5887.2	6142.6	6173.6	6147.0	5662.9
55°	3316.3	3353.2	3633.6	4139.8	5048.9	5848.9	6018.6	6399.4	6455.4	6393.5	5782.4
57.5°	3140.6	3180.5	3471.2	3998.1	4961.9	5900.5	6257.7	6732.9	6843.6	6644.4	5879.9
60°	2947.3	2982.7	3269.0	3788.6	4806.9	5974.3	6504.1	7124.0	7193.4	6858.4	5944.8
62.5°	2723.0	2751.0	3024.1	3534.7	4569.3	5955.1	6716.7	7438.4	7460.5	7050.2	5938.9
65°	2449.9	2448.5	2702.3	3180.5	4179.7	5801.6	6755.0	7596.3	7622.9	7174.2	5885.8
67.5°	2089.8	2085.4	2297.9	2748.1	3688.2	5401.7	6653.2	7743.9	7807.3	7304.1	5730.8
70°	1638.2	1644.1	1805.0	2206.4	2993.1	4792.1	6384.6	7645.0	7658.3	7054.6	5329.4
72.5°	1158.6	1155.6	1264.8	1536.4	2212.3	3741.3	5611.2	6970.5	7011.8	6437.7	4643.1
75°	531.3	553.5	826.5	938.7	1335.7	2547.3	4616.5	5922.7	6002.4	5541.9	3620.3
77.5°	98.9	101.8	177.1	357.2	522.5	919.5	2758.4	4011.4	4178.2	3776.7	2039.6
80°	78.2	79.7	104.8	171.2	218.4	413.2	907.7	1653.0	1689.9	1472.9	735.0
82.5°	57.6	59.0	78.2	110.7	101.8	178.6	377.8	481.1	510.7	475.2	292.2
85°	33.9	35.4	45.8	54.6	53.1	70.8	63.5	57.6	51.7	42.8	36.9
87.5°	8.9	11.8	19.2	19.2	14.8	13.3	11.8	10.3	11.8	10.3	10.3
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: P509110

CATALOG NUMBER: VERD-CA2-110-727-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9
2.5°	1917.2	1915.7	1920.1	1931.9	1942.2	1943.7	1958.5	1977.7	1968.8	1993.9	1985.0
5°	1937.8	1942.2	1958.5	1977.7	1995.4	2010.1	2032.3	2064.7	2054.4	2078.0	2069.2
7.5°	1985.0	1992.4	2017.5	2036.7	2057.4	2052.9	2072.1	2091.3	2067.7	2092.8	2081.0
10°	2041.1	2050.0	2064.7	2072.1	2066.2	2063.3	2058.8	2055.9	2024.9	2042.6	2035.2
12.5°	2091.3	2092.8	2088.4	2069.2	2055.9	2020.5	2004.2	1996.8	1949.6	1962.9	1954.0
15°	2140.0	2119.3	2097.2	2052.9	2016.0	1961.4	1926.0	1895.0	1850.7	1868.4	1850.7
17.5°	2193.1	2162.1	2104.6	2039.6	1964.4	1884.7	1827.1	1776.9	1710.5	1707.6	1701.7
20°	2261.0	2215.3	2122.3	2016.0	1908.3	1788.8	1697.2	1613.1	1512.8	1499.5	1472.9
22.5°	2346.6	2278.7	2148.9	1985.0	1838.9	1688.4	1533.4	1394.7	1267.8	1227.9	1213.2
25°	2445.5	2361.4	2163.6	1957.0	1772.5	1542.3	1331.2	1151.2	1002.1	959.3	947.5
27.5°	2569.5	2466.2	2185.8	1915.7	1666.3	1363.7	1089.2	889.9	757.1	687.8	677.4
30°	2740.7	2582.8	2216.8	1874.4	1537.9	1154.1	844.2	612.5	487.0	445.7	438.3
32.5°	3207.1	2860.2	2250.7	1800.6	1368.1	920.9	560.8	391.1	307.0	273.0	270.1
35°	3798.9	3367.9	2374.7	1716.4	1163.0	639.1	348.3	233.2	187.4	174.2	174.2
37.5°	4181.1	3762.0	2581.3	1598.4	892.9	391.1	209.6	152.0	143.2	141.7	141.7
40°	4381.9	3936.1	2730.4	1436.0	597.7	227.3	147.6	131.4	128.4	125.4	125.4
42.5°	4637.2	4085.2	2858.8	1216.1	346.8	159.4	129.9	119.5	115.1	112.2	112.2
45°	4778.9	4247.5	2777.6	954.9	197.8	143.2	119.5	107.7	103.3	103.3	103.3
47.5°	4917.6	4402.5	2674.3	686.3	168.2	131.4	112.2	100.4	95.9	98.9	98.9
50°	5075.5	4507.3	2510.5	513.6	159.4	122.5	101.8	91.5	88.6	93.0	93.0
52.5°	5223.1	4517.6	2247.7	410.3	147.6	113.6	94.5	84.1	81.2	84.1	84.1
55°	5265.9	4485.2	2172.5	326.2	140.2	104.8	88.6	78.2	70.8	70.8	69.4
57.5°	5255.6	4421.7	1989.5	276.0	131.4	95.9	81.2	69.4	60.5	57.6	57.6
60°	5220.1	4333.1	1796.1	240.6	122.5	88.6	72.3	59.0	50.2	47.2	47.2
62.5°	5175.9	4166.4	1523.1	209.6	113.6	85.6	60.5	48.7	42.8	39.8	39.8
65°	4989.9	3906.6	1219.1	178.6	104.8	75.3	53.1	42.8	36.9	33.9	33.9
67.5°	4681.5	3511.1	881.1	152.0	97.4	63.5	47.2	36.9	31.0	29.5	28.0
70°	4221.0	2965.0	546.1	131.4	84.1	57.6	41.3	32.5	28.0	23.6	23.6
72.5°	3518.5	2321.5	286.3	103.3	66.4	48.7	36.9	29.5	23.6	20.7	19.2
75°	2473.6	1431.6	206.6	79.7	45.8	39.8	31.0	25.1	20.7	17.7	16.2
77.5°	1194.0	492.9	144.6	59.0	32.5	29.5	23.6	20.7	16.2	14.8	14.8
80°	436.9	280.4	103.3	42.8	26.6	23.6	17.7	16.2	13.3	11.8	11.8
82.5°	196.3	132.8	59.0	28.0	19.2	17.7	13.3	10.3	10.3	10.3	10.3
85°	32.5	28.0	19.2	13.3	10.3	8.9	8.9	7.4	7.4	7.4	7.4
87.5°	8.9	8.9	7.4	7.4	5.9	4.4	3.0	3.0	3.0	4.4	4.4
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)