

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: P509577

Luminaire Tested: **VERD-G-CA2-120-760-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509577  
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-CA2-120-760-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17585 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

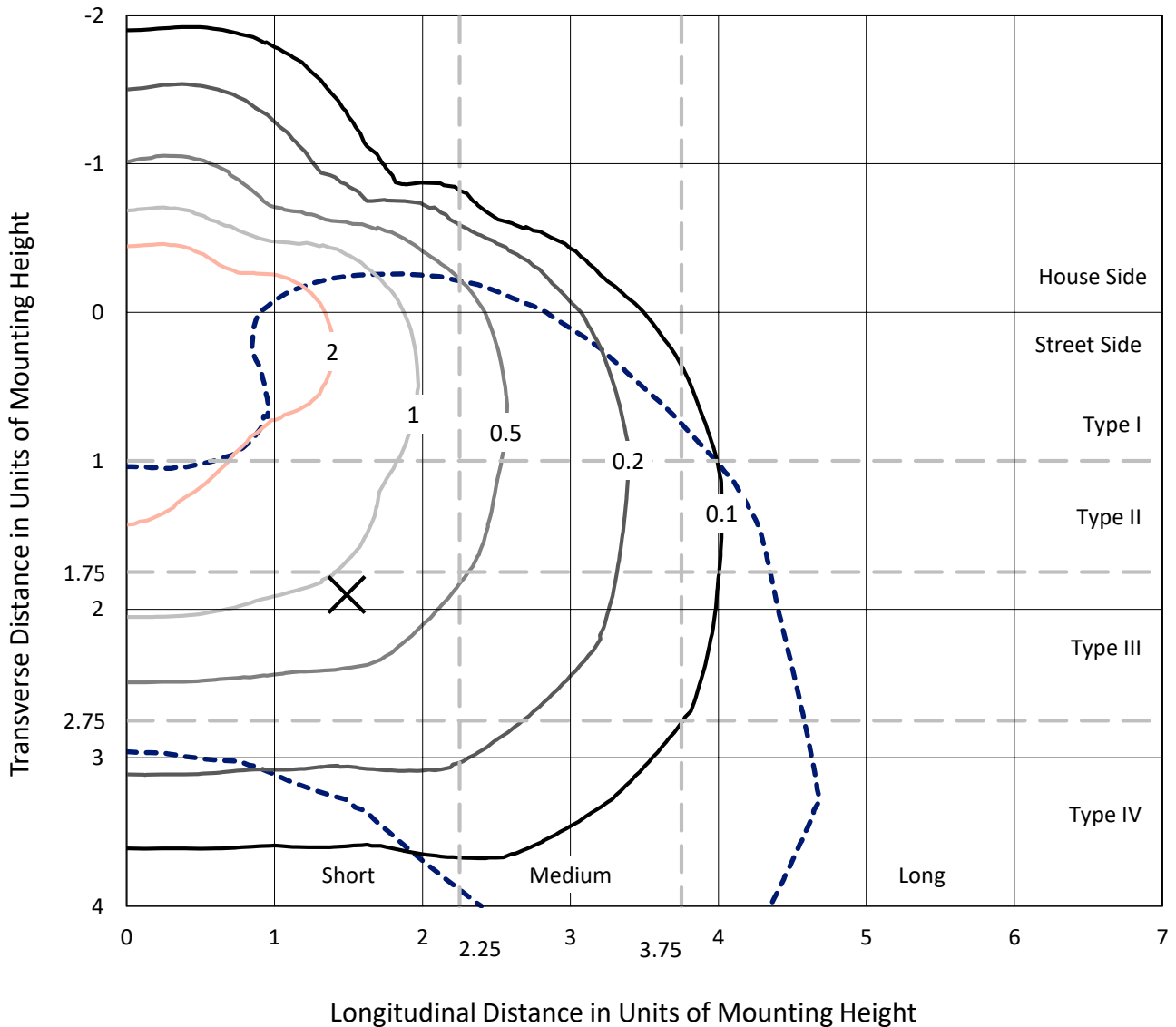
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

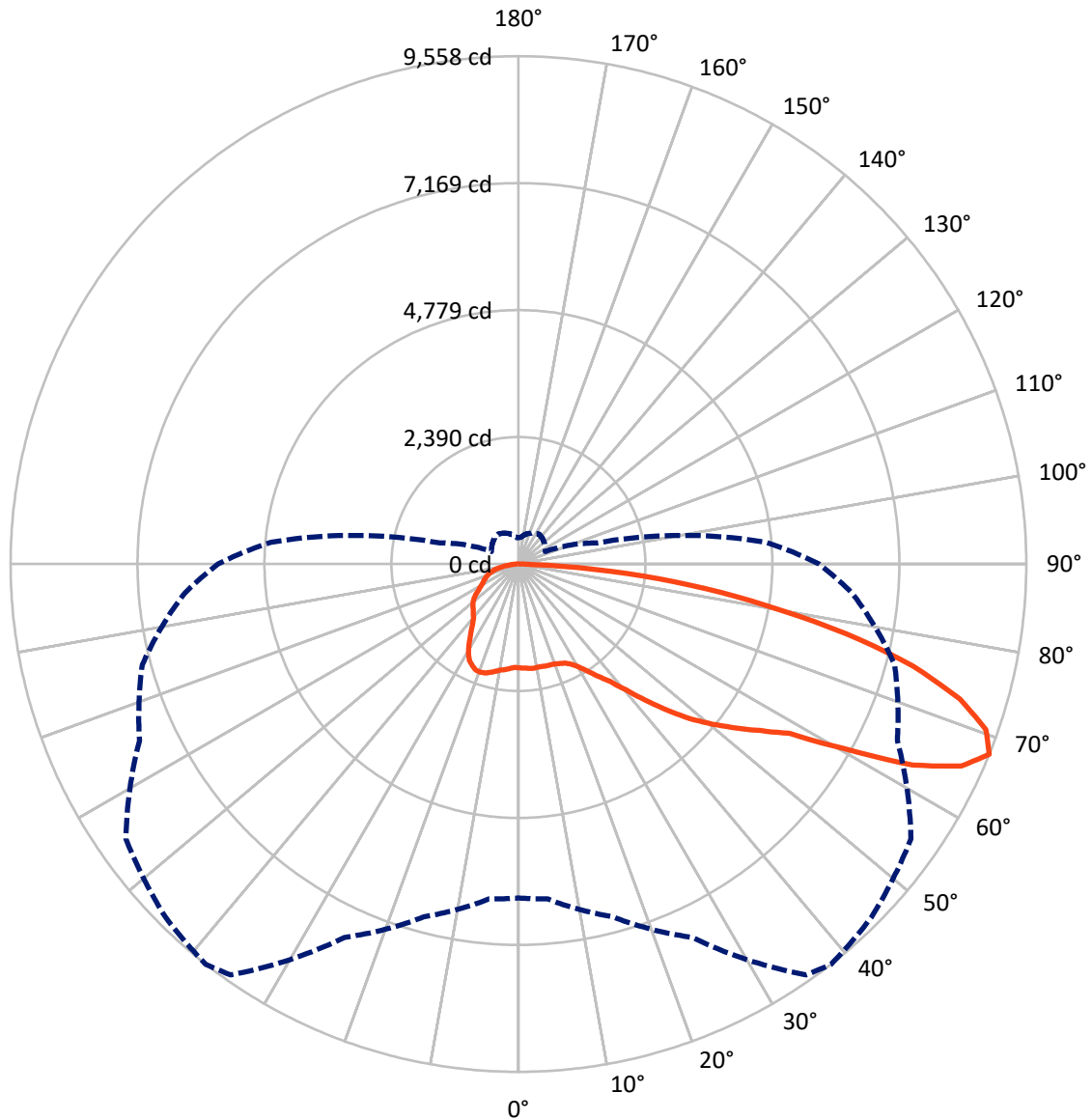
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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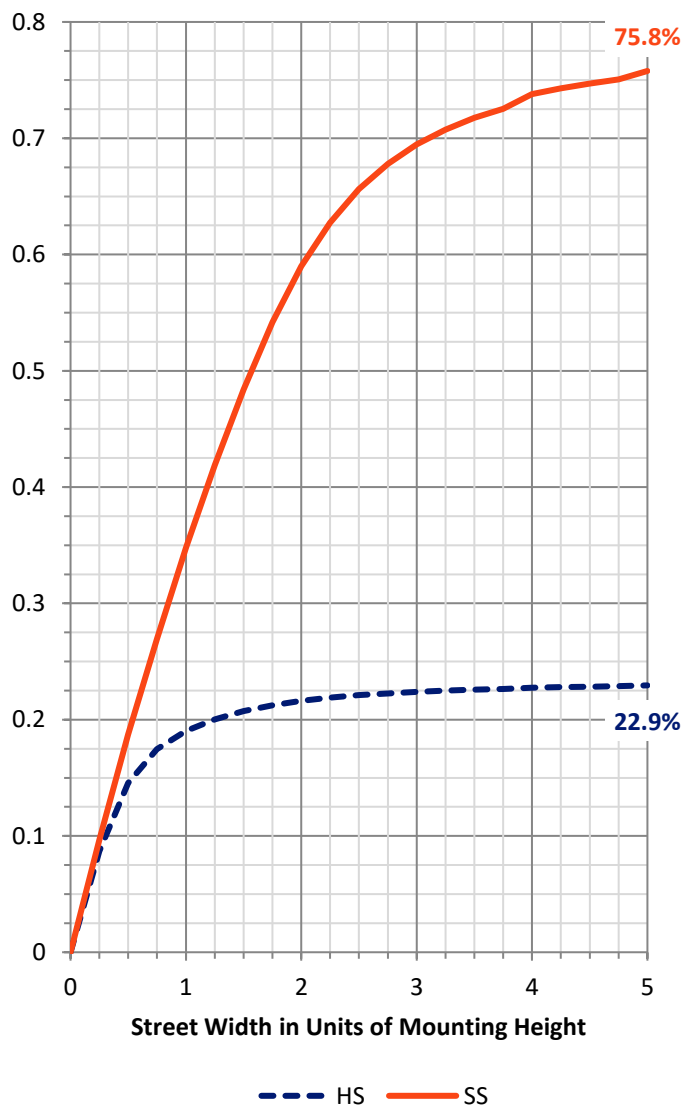
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4080.2	0.0	4080.2
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	13504.8	0.0	13504.8
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	17585.0	0.0	17585.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.6	1.1
10°-20°	584.6	3.3
20°-30°	990.8	5.6
30°-40°	1518.4	8.6
40°-50°	2501.9	14.2
50°-60°	3575.9	20.3
60°-70°	4454.7	25.3
70°-80°	3174.5	18.1
80°-90°	594.6	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°	17585.0	100.0
0°-180°	17585.0	100.0

**Coefficient of Utilization**



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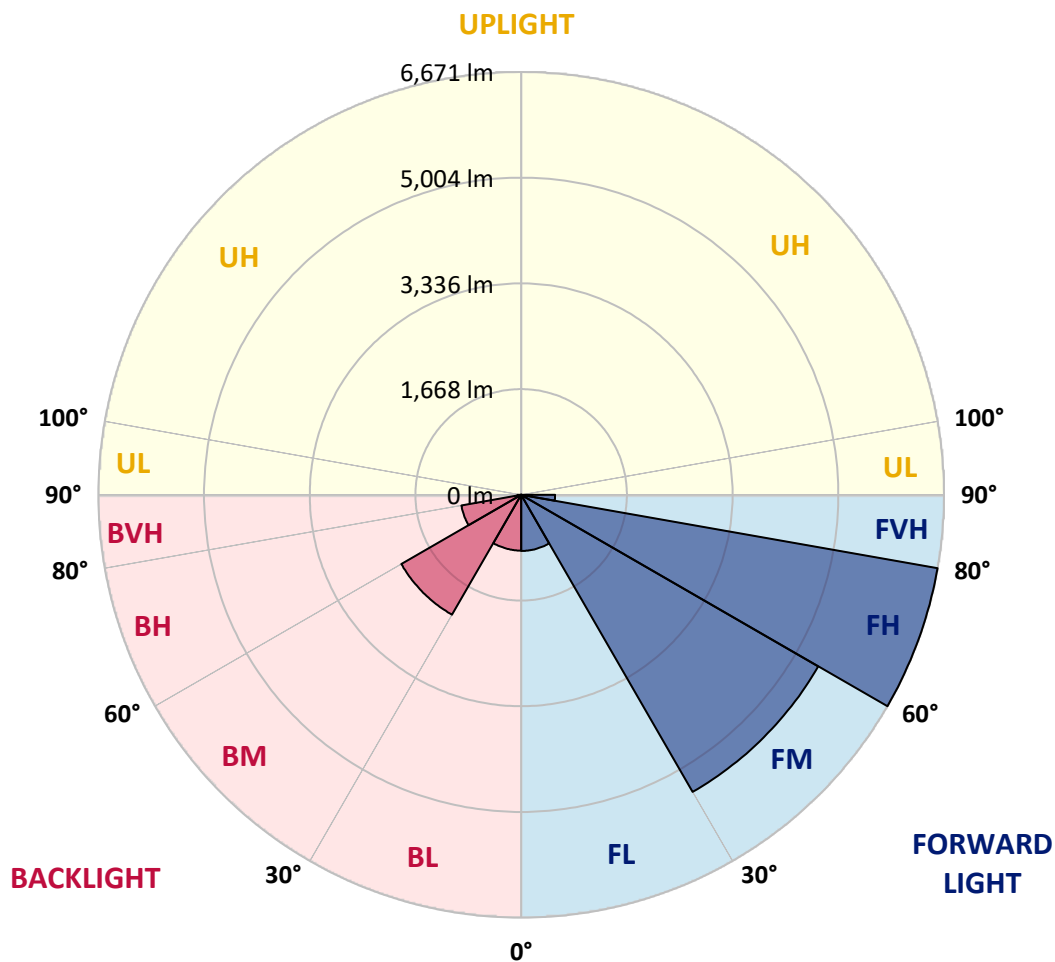
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.1	5.0			
FM	(30°-60°)	5412.2	30.8			
FH	(60°-80°)	6671.3	37.9			G3/7500
FVH	(80°-90°)	536.1	3.0			G4/750
BL	(0°-30°)	879.8	5.0	B2/1000		
BM	(30°-60°)	2184.0	12.4	B2/2500		
BH	(60°-80°)	957.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	58.6	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7
2.5°	1990.0	1998.1	1982.9	1980.6	1971.3	1959.6	1961.9	1952.6	1940.9	1945.5	1947.9
5°	2001.6	2001.6	1990.0	1978.3	1973.6	1971.3	1973.6	1963.1	1960.7	1968.9	1961.9
7.5°	1991.1	1998.1	1978.3	1978.3	1970.1	1984.1	1985.3	1972.4	1981.8	1981.8	1980.6
10°	1988.8	1991.1	1982.9	1966.6	1965.4	1973.6	1990.0	1994.6	1999.3	1998.1	2002.8
12.5°	1961.9	1959.6	1943.2	1947.9	1970.1	1978.3	2006.3	2019.2	2036.7	2041.4	2043.7
15°	1928.0	1937.4	1938.5	1952.6	1975.9	1988.8	2016.8	2042.5	2081.1	2090.4	2089.3
17.5°	1931.5	1935.0	1940.9	1949.1	1985.3	1991.1	2036.7	2064.7	2112.6	2145.4	2161.7
20°	1953.7	1946.7	1958.4	1979.4	1999.3	2004.0	2051.9	2095.1	2160.6	2203.8	2222.5
22.5°	1991.1	1992.3	1998.1	1998.1	2012.2	2033.2	2077.6	2111.5	2192.1	2252.9	2285.6
25°	2026.2	2028.5	2035.5	2033.2	2056.6	2065.9	2108.0	2159.4	2251.7	2323.0	2386.1
27.5°	2078.8	2085.8	2081.1	2082.3	2127.8	2137.2	2155.9	2224.8	2319.5	2415.3	2527.5
30°	2176.9	2176.9	2172.2	2176.9	2226.0	2249.4	2255.2	2323.0	2400.1	2515.8	2685.2
32.5°	2318.3	2319.5	2290.3	2313.6	2368.5	2409.4	2427.0	2534.5	2620.9	2677.0	2895.5
35°	2620.9	2608.1	2577.7	2509.9	2545.0	2595.2	2651.3	2788.0	2978.5	3187.7	3407.3
37.5°	3084.8	3083.7	2976.2	2840.6	2779.9	2805.6	2883.9	3088.3	3386.3	3908.6	4102.6
40°	3600.1	3613.0	3457.6	3288.2	3109.4	3111.7	3131.6	3387.5	3818.7	4573.5	4675.2
42.5°	4114.3	4093.2	3921.5	3759.1	3516.0	3500.8	3448.2	3690.1	4270.9	5105.2	5119.2
45°	4572.3	4561.8	4371.4	4206.6	3977.6	3919.1	3859.5	4013.8	4702.0	5535.2	5442.9
47.5°	5002.3	5016.4	4753.5	4605.1	4378.4	4349.2	4280.2	4378.4	5128.5	5872.9	5705.8
50°	5491.9	5497.8	5183.5	5000.0	4775.7	4738.3	4711.4	4836.4	5569.1	6195.4	5973.4
52.5°	6040.0	5925.5	5619.3	5366.9	5151.9	5123.9	5108.7	5239.5	6051.7	6478.2	6149.8
55°	6729.4	6576.3	6263.2	5844.8	5531.7	5536.3	5483.8	5636.8	6458.3	6673.3	6321.6
57.5°	7030.9	7065.9	7007.5	6626.6	6077.4	6009.6	5879.9	5997.9	6845.1	6902.3	6457.1
60°	7598.7	7734.3	7608.1	7395.4	7233.0	7055.4	6422.1	6466.5	7197.9	7155.9	6472.3
62.5°	7637.3	7684.0	8082.5	8116.4	8274.1	8333.7	7809.1	6998.1	7518.1	7283.3	6523.7
65°	7258.7	7311.3	7791.5	8213.4	9081.6	9163.4	8997.4	7971.5	7777.5	7352.2	6482.8
67.5°	6285.4	6328.6	6874.3	7755.3	9440.3	9558.3	9397.1	9018.5	7868.7	7328.8	6302.9
70°	5376.3	5400.8	5854.2	7086.9	9193.7	9332.8	9268.5	9058.2	7865.2	7190.9	5905.6
72.5°	4223.0	4294.2	4660.0	5877.5	8570.9	8687.8	8706.5	8814.0	7665.3	6737.6	5017.5
75°	3062.6	3101.2	3516.0	4566.5	7397.8	7677.0	8005.4	8410.9	6914.0	5719.8	3710.0
77.5°	2158.2	2195.6	2585.9	3462.3	5987.4	6305.2	6898.8	7137.2	5610.0	4287.2	1952.6
80°	1420.9	1416.2	1787.8	2562.5	4492.9	4716.1	5156.6	4837.6	3255.4	1863.8	212.7
82.5°	834.3	881.0	1145.1	1760.9	3139.8	3263.6	3251.9	2547.3	1292.4	192.8	108.7
85°	481.4	498.9	675.4	1043.5	1730.5	1748.1	1565.8	988.5	320.2	86.5	64.3
87.5°	215.0	206.8	268.8	344.7	315.5	234.9	146.1	40.9	24.5	16.4	10.5
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°	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7
2.5°	1938.5	1932.7	1961.9	1945.5	1959.6	1951.4	1944.4	1953.7	1971.3	1986.4	1977.1
5°	1953.7	1957.2	1980.6	1960.7	1979.4	1975.9	1966.6	1977.1	2005.1	2019.2	2018.0
7.5°	1971.3	1973.6	1998.1	1990.0	1998.1	1991.1	2006.3	1999.3	2023.8	2033.2	2027.3
10°	1992.3	1995.8	2018.0	2019.2	2022.7	2018.0	2025.0	2028.5	2042.5	2061.2	2049.5
12.5°	2037.9	2046.0	2062.4	2079.9	2077.6	2058.9	2064.7	2046.0	2058.9	2064.7	2074.1
15°	2101.0	2120.8	2130.2	2154.7	2132.5	2122.0	2099.8	2062.4	2050.7	2044.9	2035.5
17.5°	2168.7	2187.4	2205.0	2236.5	2200.3	2172.2	2133.7	2063.6	2011.0	1992.3	1984.1
20°	2244.7	2262.2	2293.8	2314.8	2261.0	2200.3	2138.4	2035.5	1931.5	1860.2	1868.4
22.5°	2330.0	2368.5	2389.6	2383.7	2307.8	2224.8	2118.5	1961.9	1828.7	1722.4	1715.4
25°	2448.0	2470.2	2478.4	2424.6	2333.5	2207.3	2051.9	1874.3	1688.5	1569.3	1551.8
27.5°	2571.9	2595.2	2552.0	2451.5	2325.3	2166.4	1977.1	1724.7	1526.1	1411.5	1398.7
30°	2730.8	2724.9	2602.2	2443.3	2278.6	2068.2	1840.4	1571.6	1388.2	1281.8	1276.0
32.5°	2903.7	2860.5	2643.1	2403.6	2189.8	1939.7	1666.3	1426.7	1285.3	1179.0	1174.3
35°	3312.7	3114.0	2702.7	2353.4	2058.9	1762.1	1505.0	1318.1	1203.6	1083.2	1059.8
37.5°	3913.3	3593.1	2825.4	2301.9	1909.3	1586.8	1370.6	1237.4	1128.8	1000.2	978.0
40°	4473.0	4080.4	3040.4	2263.4	1774.9	1445.4	1278.3	1181.4	1076.2	947.7	919.6
42.5°	4870.3	4459.0	3298.7	2200.3	1640.6	1333.3	1239.8	1160.3	1062.2	943.0	920.8
45°	5190.5	4786.2	3554.6	2129.0	1482.8	1237.4	1200.0	1142.8	1044.6	929.0	903.2
47.5°	5416.0	4991.8	3732.2	2048.4	1332.1	1179.0	1166.2	1114.7	1017.8	909.1	892.7
50°	5648.5	5222.0	3853.7	1965.4	1196.5	1134.6	1119.4	1051.6	962.8	865.9	848.3
52.5°	5800.4	5334.2	3923.8	1949.1	1080.9	1073.8	1055.2	990.9	906.8	801.6	780.6
55°	5916.1	5433.5	3913.3	1853.2	976.9	994.4	982.7	934.8	861.2	758.4	744.3
57.5°	5944.2	5448.7	3817.5	1556.4	878.7	888.1	893.9	903.2	832.0	746.7	723.3
60°	6024.8	5377.4	3648.1	1119.4	763.0	786.4	833.1	841.3	792.2	695.3	681.2
62.5°	5973.4	5329.5	3280.0	788.7	681.2	729.1	773.5	773.5	705.8	615.8	606.5
65°	5883.4	5140.2	2566.0	621.6	638.0	687.1	728.0	699.9	641.5	557.4	551.5
67.5°	5654.4	4678.7	1531.9	559.7	607.6	654.4	683.6	641.5	586.6	503.6	494.3
70°	4996.5	3728.7	583.1	530.5	577.2	610.0	628.7	585.4	531.7	448.7	440.5
72.5°	3967.1	2332.3	370.4	494.3	538.7	567.9	579.6	529.3	444.0	349.4	340.0
75°	2387.2	666.0	321.3	427.7	474.4	524.7	504.8	439.4	375.1	293.3	287.5
77.5°	604.1	202.2	286.3	344.7	385.6	445.2	444.0	396.1	327.2	239.5	230.2
80°	144.9	141.4	232.5	254.7	291.0	341.2	336.5	329.5	259.4	165.9	136.7
82.5°	92.3	98.2	157.7	142.6	165.9	198.6	225.5	212.7	194.0	101.7	91.1
85°	61.9	78.3	77.1	53.8	74.8	112.2	146.1	133.2	109.8	63.1	56.1
87.5°	9.3	10.5	14.0	21.0	32.7	54.9	72.4	71.3	53.8	39.7	37.4
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)