

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: P509825

Luminaire Tested: **VERD-M-CA3-150-722-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-722-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 940mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18007 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

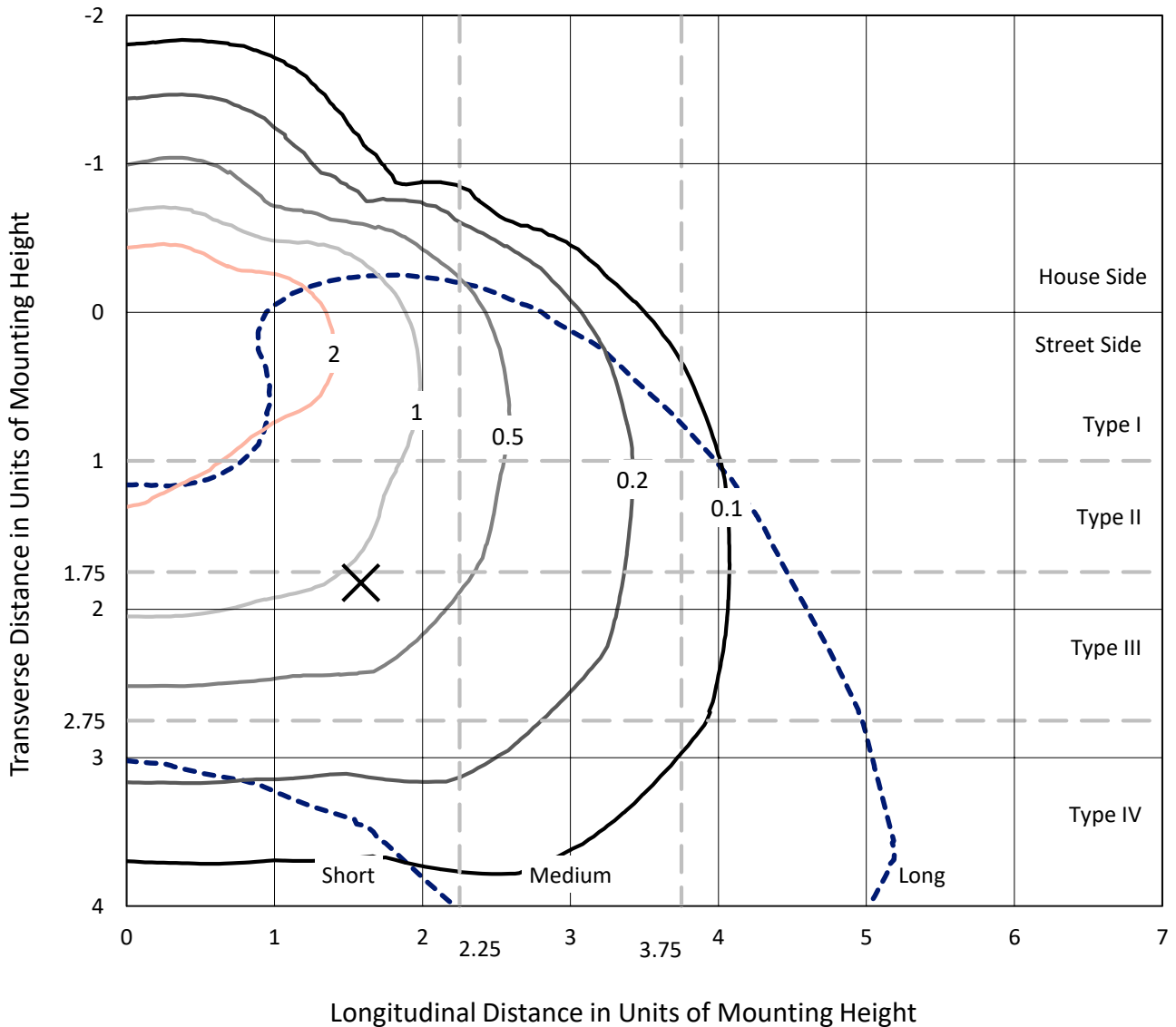
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

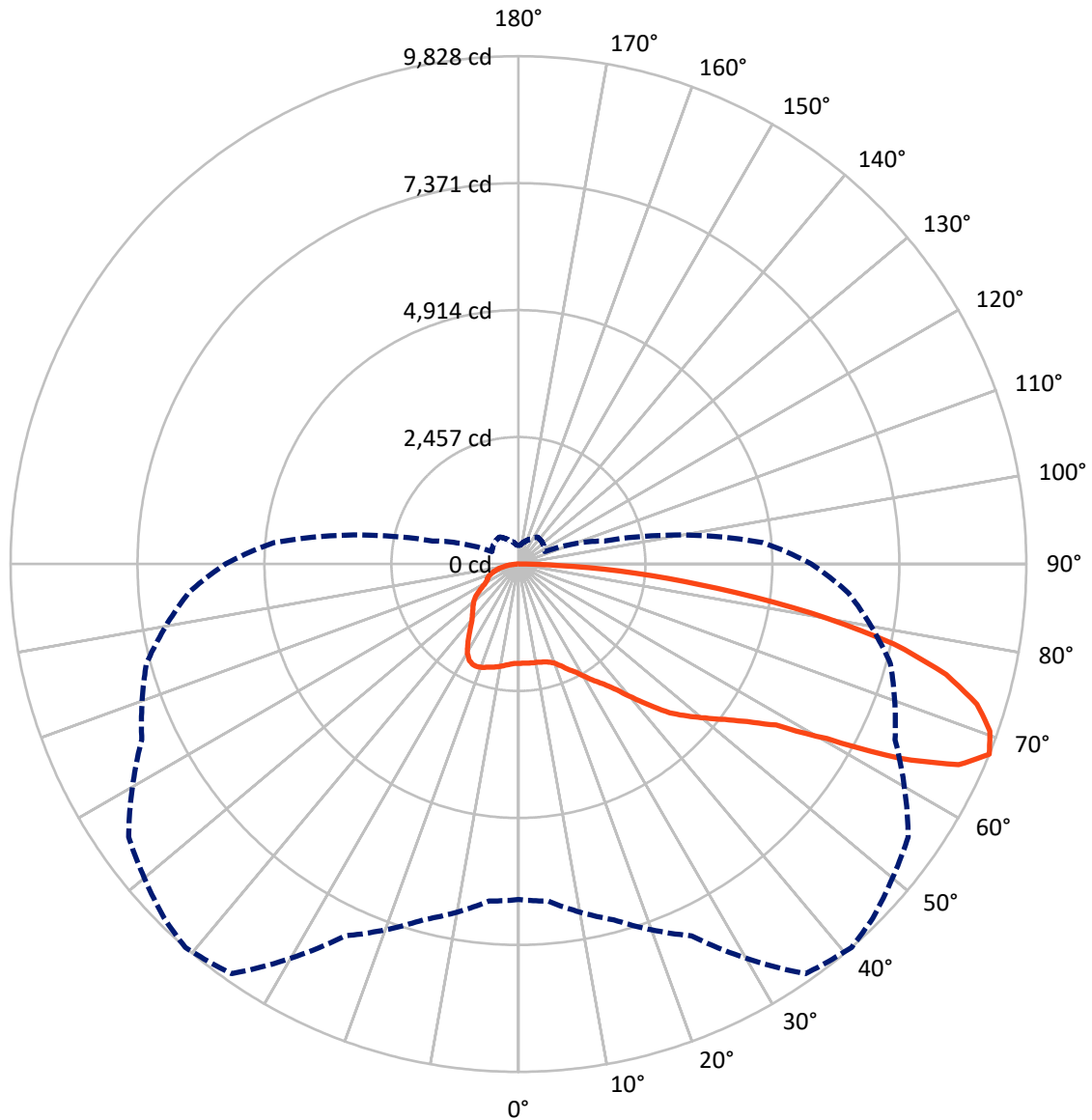
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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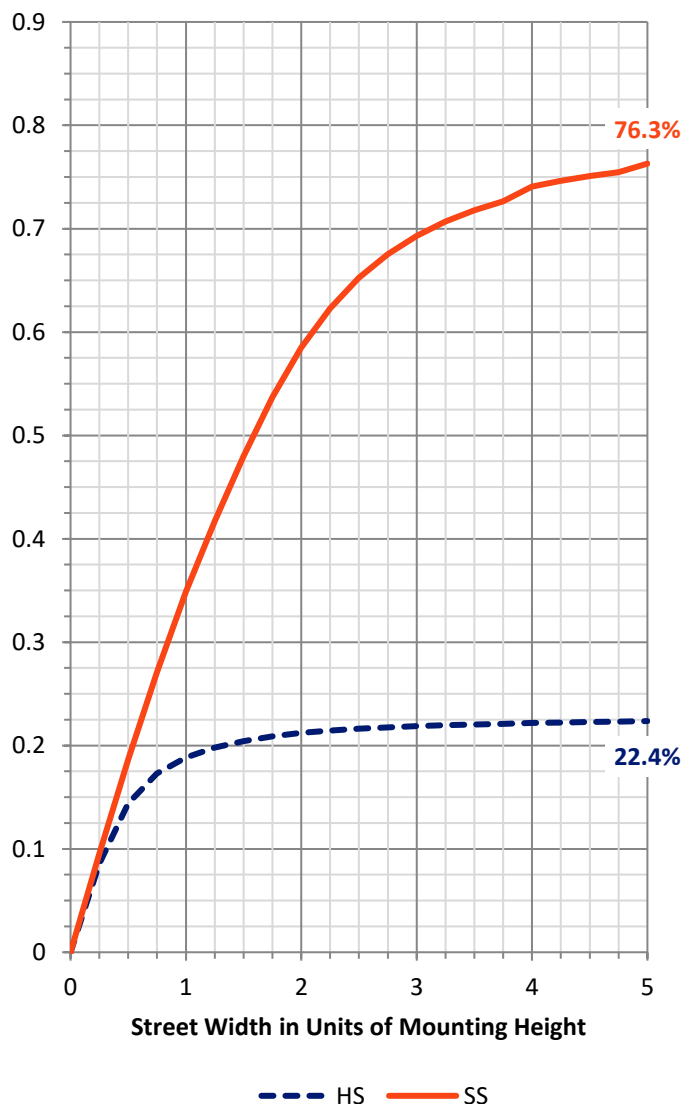
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4074.9	0.0	4074.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	13932.1	0.0	13932.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	18007.0	0.0	18007.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.8	1.0
10°-20°	576.2	3.2
20°-30°	1030.4	5.7
30°-40°	1615.6	9.0
40°-50°	2505.4	13.9
50°-60°	3531.9	19.6
60°-70°	4502.4	25.0
70°-80°	3369.3	18.7
80°-90°	690.1	3.8
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°	18007.0	100.0
0°-180°	18007.0	100.0

**Coefficient of Utilization**



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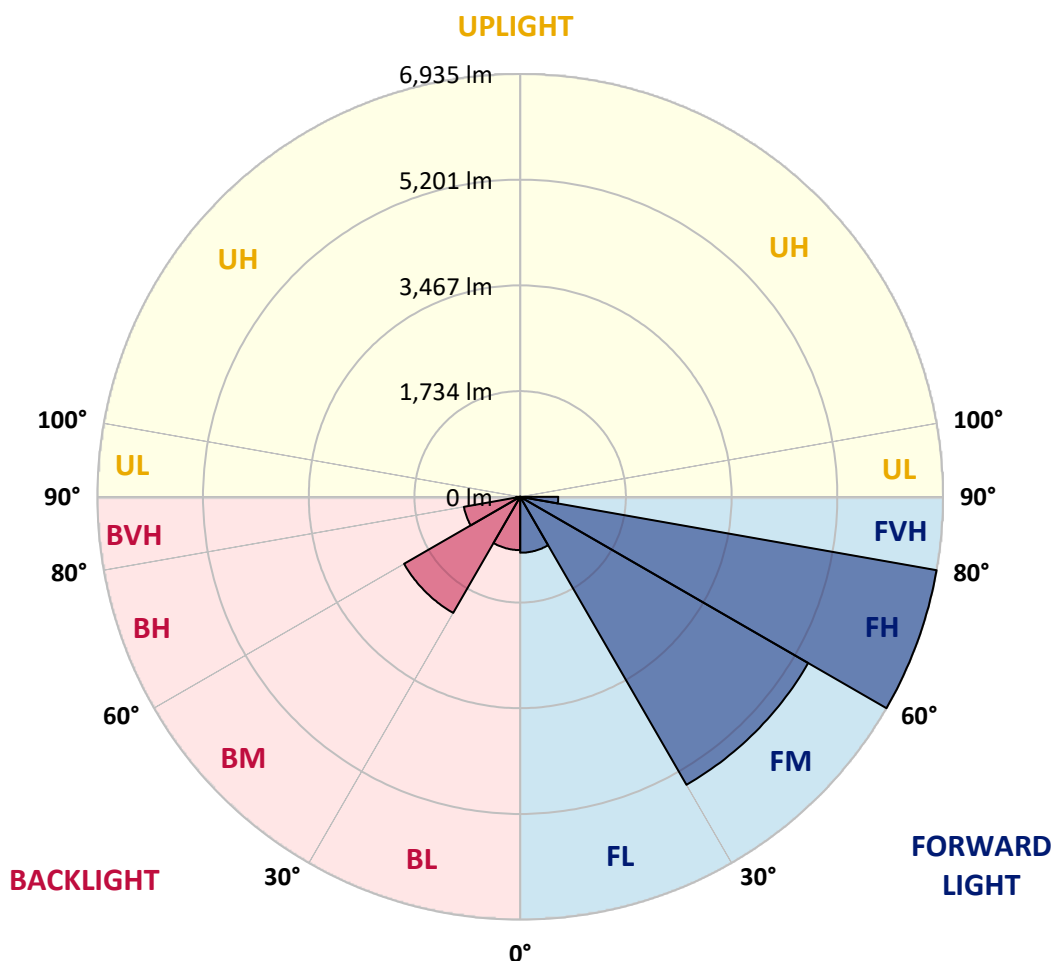
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	917.5	5.1			
FM	(30°-60°)	5454.2	30.3			
FH	(60°-80°)	6934.9	38.5			G3/7500
FVH	(80°-90°)	625.6	3.5			G4/750
BL	(0°-30°)	874.9	4.9	B2/1000		
BM	(30°-60°)	2198.8	12.2	B2/2500		
BH	(60°-80°)	936.8	5.2	B2/1000		G2/1000
BVH	(80°-90°)	64.5	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1898.9	1920.9	1917.7	1913.6	1920.1	1920.9	1902.2	1909.5	1913.6	1920.1	1930.7
5°	1903.8	1925.8	1924.2	1916.9	1921.7	1924.2	1907.1	1920.1	1920.1	1922.6	1934.8
7.5°	1893.2	1914.4	1914.4	1912.0	1922.6	1932.3	1916.9	1928.3	1934.8	1941.3	1949.5
10°	1883.4	1901.4	1907.9	1906.3	1930.7	1933.2	1922.6	1950.3	1960.9	1967.4	1977.2
12.5°	1872.8	1894.8	1903.8	1912.8	1938.9	1947.8	1942.1	1970.6	1992.6	2004.1	2014.7
15°	1868.0	1892.4	1907.1	1920.1	1948.6	1964.9	1964.9	2008.1	2034.2	2048.9	2067.6
17.5°	1902.2	1927.4	1938.9	1949.5	1975.5	1997.5	1995.9	2046.4	2084.7	2107.6	2141.8
20°	1986.9	2017.1	2023.6	2027.7	2044.0	2052.1	2049.7	2104.3	2157.3	2200.5	2238.8
22.5°	2134.5	2152.4	2155.6	2139.3	2143.4	2149.9	2145.9	2176.0	2236.3	2286.9	2355.3
25°	2255.1	2283.6	2275.4	2251.8	2255.1	2264.0	2251.8	2298.3	2341.5	2407.5	2476.7
27.5°	2382.2	2403.4	2394.4	2379.8	2376.5	2370.0	2367.5	2427.0	2490.6	2542.8	2645.5
30°	2537.1	2548.5	2522.4	2515.9	2521.6	2525.6	2510.2	2586.0	2643.8	2718.8	2857.3
32.5°	2797.9	2808.5	2771.0	2670.7	2673.2	2691.9	2678.9	2774.2	2883.4	2974.7	3115.7
35°	3130.4	3130.4	3101.0	2960.0	2853.3	2854.1	2857.3	2991.8	3194.8	3399.3	3544.4
37.5°	3467.0	3478.4	3423.0	3294.2	3158.9	3087.2	3026.9	3199.6	3465.3	3921.7	4137.7
40°	3817.4	3835.3	3752.2	3634.0	3478.4	3396.9	3326.8	3431.9	3790.5	4439.2	4610.4
42.5°	4123.8	4149.1	4063.5	3938.8	3830.4	3738.4	3632.4	3674.8	4148.3	4930.7	5027.7
45°	4409.1	4422.9	4350.4	4247.7	4158.1	4107.5	4033.4	4082.3	4557.4	5411.5	5393.6
47.5°	4619.4	4639.7	4573.7	4518.3	4426.2	4396.0	4395.2	4529.7	5017.9	5794.6	5711.4
50°	4960.8	4945.3	4797.0	4729.4	4673.1	4682.9	4706.6	4938.8	5559.0	6163.8	5978.8
52.5°	5533.8	5505.2	5176.0	5035.0	4965.7	4997.5	5009.7	5309.6	6105.1	6482.4	6199.6
55°	6274.6	6183.3	5943.7	5565.6	5348.0	5378.1	5364.3	5708.2	6541.9	6786.4	6363.4
57.5°	6764.4	6850.0	6735.1	6519.1	5978.8	5880.1	5847.5	6102.6	6946.1	7077.4	6532.9
60°	7189.8	7331.6	7514.2	7375.6	7229.8	6860.6	6556.6	6550.9	7302.3	7271.3	6601.4
62.5°	7638.9	7713.9	7995.0	8080.6	8351.2	8283.5	7876.0	7118.1	7658.4	7413.1	6641.3
65°	7184.9	7285.2	7797.0	8264.0	9265.6	9363.4	9230.6	8172.7	7905.4	7485.7	6584.3
67.5°	6493.8	6549.2	7128.7	7938.8	9679.6	9827.9	9694.3	9207.7	8042.3	7453.9	6408.3
70°	5607.9	5673.1	6226.5	7331.6	9658.4	9678.0	9625.8	9303.1	7987.7	7304.7	5964.9
72.5°	4546.8	4629.1	5115.7	6263.2	9195.5	9280.3	9198.0	9114.0	7834.5	6887.5	5201.3
75°	3440.1	3549.3	3983.7	4993.4	8126.2	8553.3	8563.9	8823.1	7239.5	5904.6	3775.0
77.5°	2346.4	2450.7	2862.2	3804.4	6745.7	7427.8	7605.5	7889.1	6048.8	4363.4	2059.5
80°	1321.1	1311.3	1833.7	2718.0	5145.0	5744.0	5967.3	5955.9	4247.7	2240.4	419.7
82.5°	610.4	612.1	938.1	1735.1	3483.3	3878.5	3969.0	3454.7	1490.6	379.8	133.7
85°	304.0	307.3	451.5	870.4	1966.6	2272.2	2159.7	1437.6	319.5	110.8	79.9
87.5°	120.6	115.7	178.5	357.8	709.9	752.2	656.9	287.7	57.9	39.1	26.9
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°	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1928.3	1929.9	1937.2	1922.6	1926.6	1923.4	1920.9	1934.0	1933.2	1935.6	1931.5
5°	1934.0	1938.0	1945.4	1938.9	1945.4	1942.1	1944.6	1962.5	1964.9	1964.1	1964.1
7.5°	1949.5	1953.5	1967.4	1959.2	1973.9	1969.8	1970.6	1987.8	1991.0	1986.1	1984.5
10°	1982.1	1985.3	2004.9	2003.2	2008.9	2005.7	2002.4	2009.8	2008.1	2000.8	1997.5
12.5°	2019.5	2028.5	2050.5	2051.3	2058.7	2042.4	2025.2	2022.8	2017.9	2006.5	2004.1
15°	2075.8	2086.4	2119.8	2111.6	2106.7	2071.7	2043.2	2020.4	2000.8	1991.0	1982.1
17.5°	2156.5	2174.4	2220.8	2195.6	2159.7	2108.4	2058.7	2008.9	1967.4	1932.3	1918.5
20°	2259.1	2279.5	2318.6	2285.2	2230.6	2154.0	2073.3	1983.7	1893.2	1815.8	1804.4
22.5°	2381.4	2414.0	2442.5	2365.9	2285.2	2188.2	2073.3	1944.6	1794.6	1678.9	1650.4
25°	2524.0	2549.3	2540.3	2432.7	2316.2	2193.9	2050.5	1875.3	1663.4	1528.9	1506.1
27.5°	2678.9	2690.3	2621.0	2464.5	2319.5	2160.5	1986.1	1752.2	1510.2	1404.2	1382.2
30°	2869.6	2835.3	2703.3	2484.1	2286.9	2086.4	1871.2	1572.1	1385.5	1292.6	1267.3
32.5°	3075.0	3012.2	2762.0	2470.2	2215.1	1962.5	1693.5	1445.0	1302.4	1189.1	1167.9
35°	3466.1	3287.7	2847.6	2428.7	2090.4	1797.0	1521.6	1347.2	1214.3	1092.9	1073.3
37.5°	3994.3	3683.7	2967.4	2370.8	1942.9	1636.5	1393.6	1242.9	1127.9	1002.4	971.5
40°	4405.0	4083.9	3159.7	2308.9	1806.8	1484.1	1300.7	1188.3	1070.9	937.2	910.3
42.5°	4796.2	4449.8	3396.1	2239.6	1666.7	1378.1	1260.0	1176.0	1055.4	919.3	894.0
45°	5141.8	4745.7	3599.8	2170.3	1508.5	1280.3	1229.8	1152.4	1033.4	896.5	872.0
47.5°	5421.3	5000.0	3776.7	2095.3	1365.1	1206.2	1190.7	1109.2	991.0	850.0	820.7
50°	5673.9	5215.1	3898.9	2015.5	1224.9	1145.9	1126.3	1030.1	907.1	782.4	763.6
52.5°	5829.6	5361.0	3972.3	2028.5	1092.1	1078.2	1046.4	947.8	833.7	727.0	702.5
55°	5992.6	5498.7	3971.4	1955.2	981.2	976.4	946.2	870.4	780.8	691.1	676.4
57.5°	6059.4	5511.0	3897.3	1610.4	883.4	852.5	846.0	806.0	727.8	643.0	626.7
60°	6104.3	5457.2	3757.1	1099.4	760.4	738.4	770.2	743.3	672.4	583.5	567.2
62.5°	6060.3	5398.5	3389.5	793.8	666.7	678.9	709.0	679.7	605.5	524.9	511.0
65°	5955.1	5174.4	2676.4	618.6	625.1	652.0	675.6	626.7	490.6	410.8	402.6
67.5°	5668.2	4748.1	1722.1	567.2	601.5	629.2	637.3	530.6	444.2	367.6	358.6
70°	5064.3	3811.7	663.4	534.6	577.8	590.1	556.6	486.5	408.3	342.3	334.1
72.5°	3961.7	2502.8	383.0	489.0	527.3	515.9	516.7	436.8	368.4	305.6	299.1
75°	2462.1	906.3	340.7	435.2	446.6	467.8	440.9	379.0	317.0	279.5	271.4
77.5°	814.2	257.5	315.4	374.9	400.2	384.7	369.2	323.6	271.4	242.1	238.0
80°	197.2	193.2	282.8	293.4	313.8	287.7	286.1	268.9	229.0	211.9	207.8
82.5°	121.4	138.5	224.9	182.6	209.5	211.9	241.2	221.7	167.1	173.6	167.9
85°	75.0	106.8	118.2	88.0	88.8	119.0	144.3	133.7	100.2	94.5	93.7
87.5°	25.3	22.0	25.3	18.7	25.3	43.2	65.2	61.9	41.6	28.5	26.9
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)