

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: P509561

Luminaire Tested: **VERD-G-CA2-120-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509561
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-CA2-120-740-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17642 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

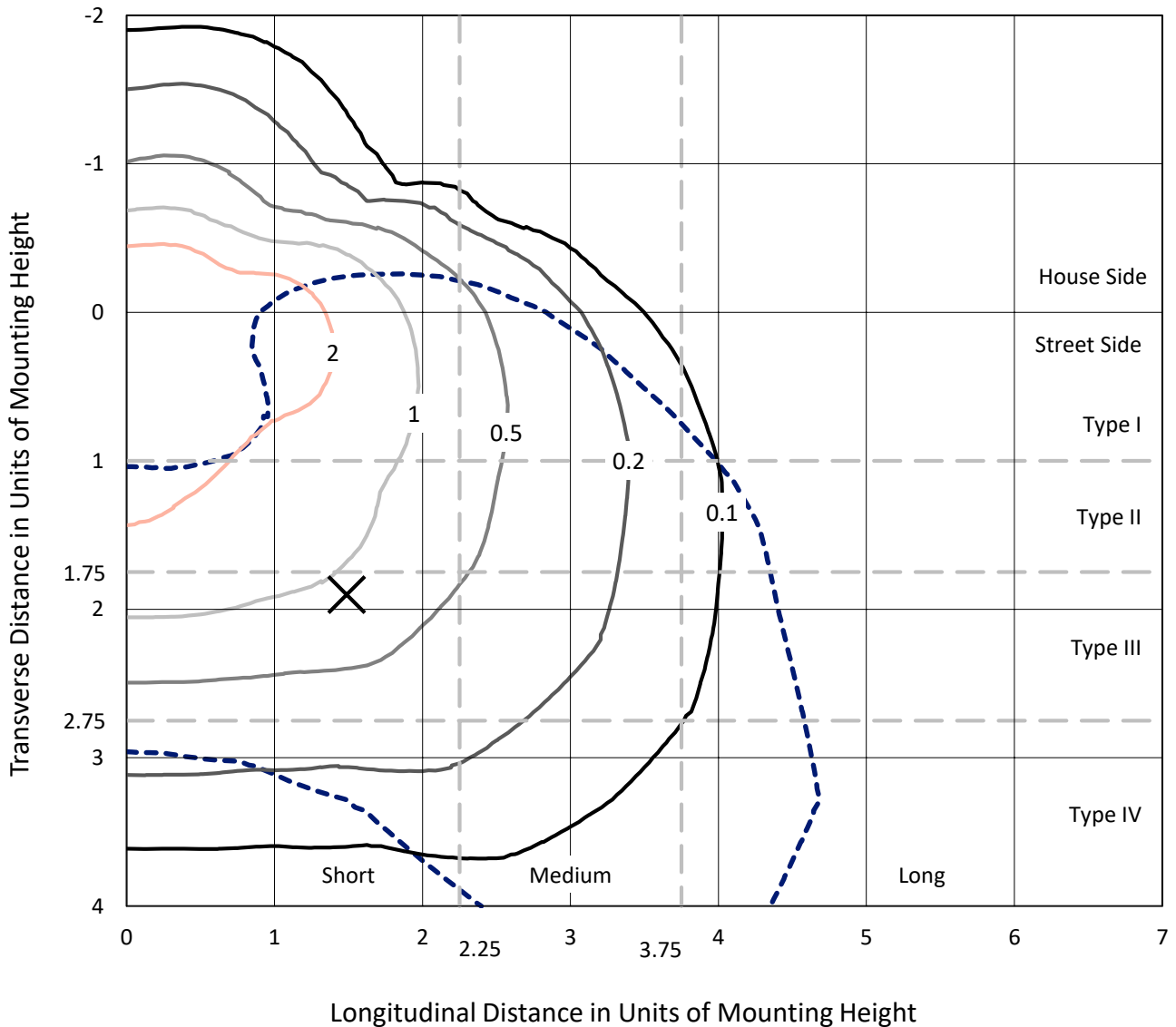
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

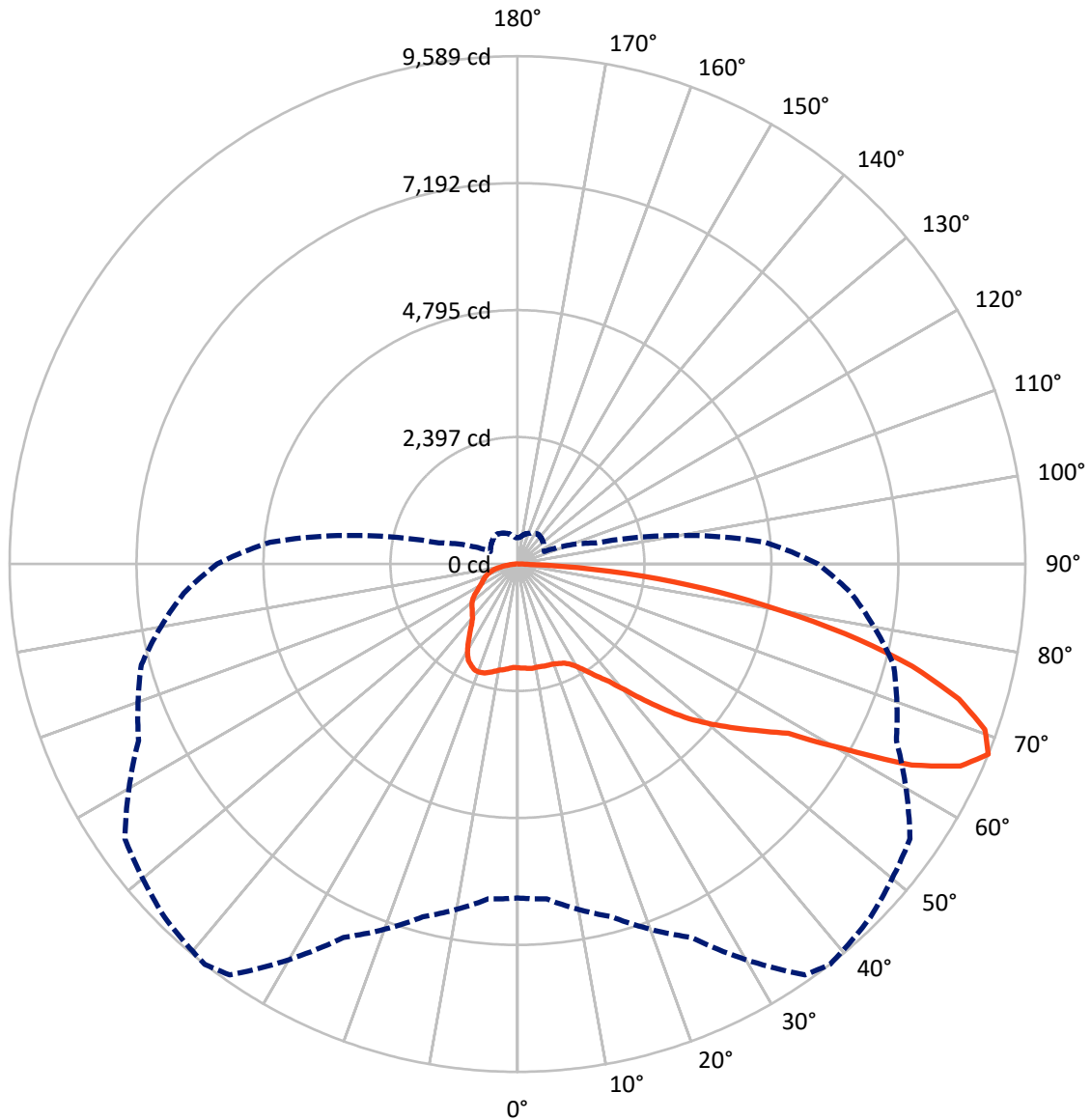
✕ Max cd
 - - - 1/2 Max cd



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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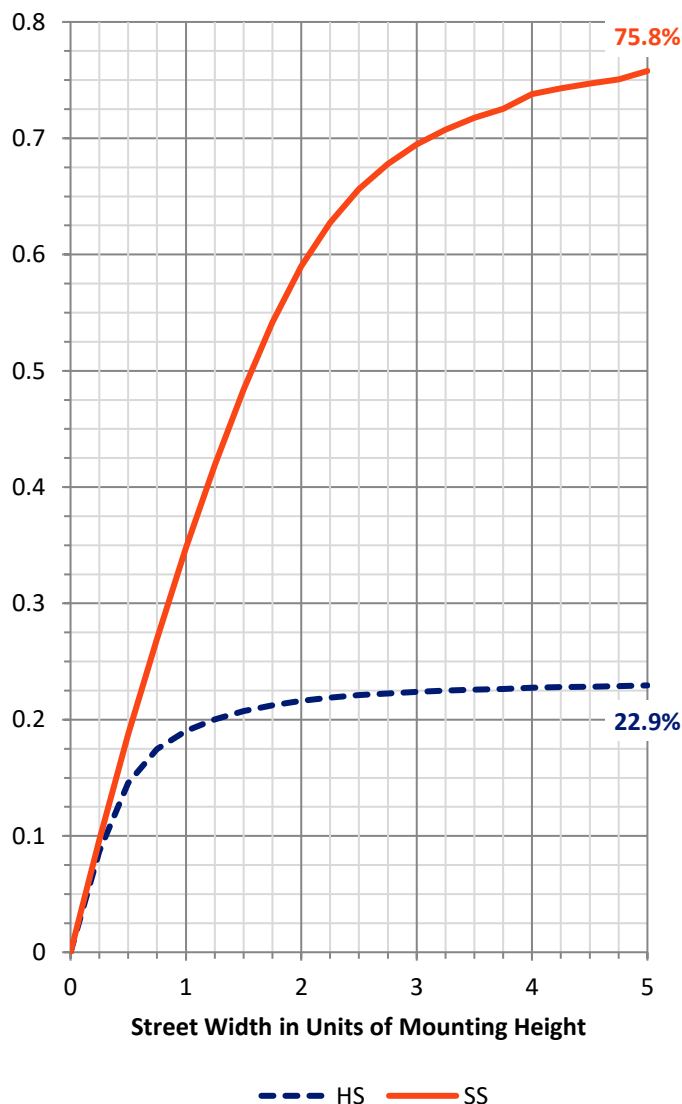
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4093.5	0.0	4093.5
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	13548.5	0.0	13548.5
	% Fixture	76.8	0.0	76.8
Total	Lumens	17642.0	0.0	17642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	1.1
10°-20°	586.5	3.3
20°-30°	994.0	5.6
30°-40°	1523.3	8.6
40°-50°	2510.0	14.2
50°-60°	3587.5	20.3
60°-70°	4469.1	25.3
70°-80°	3184.7	18.1
80°-90°	596.6	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°	17642.0	100.0
0°-180°	17642.0	100.0

Coefficient of Utilization



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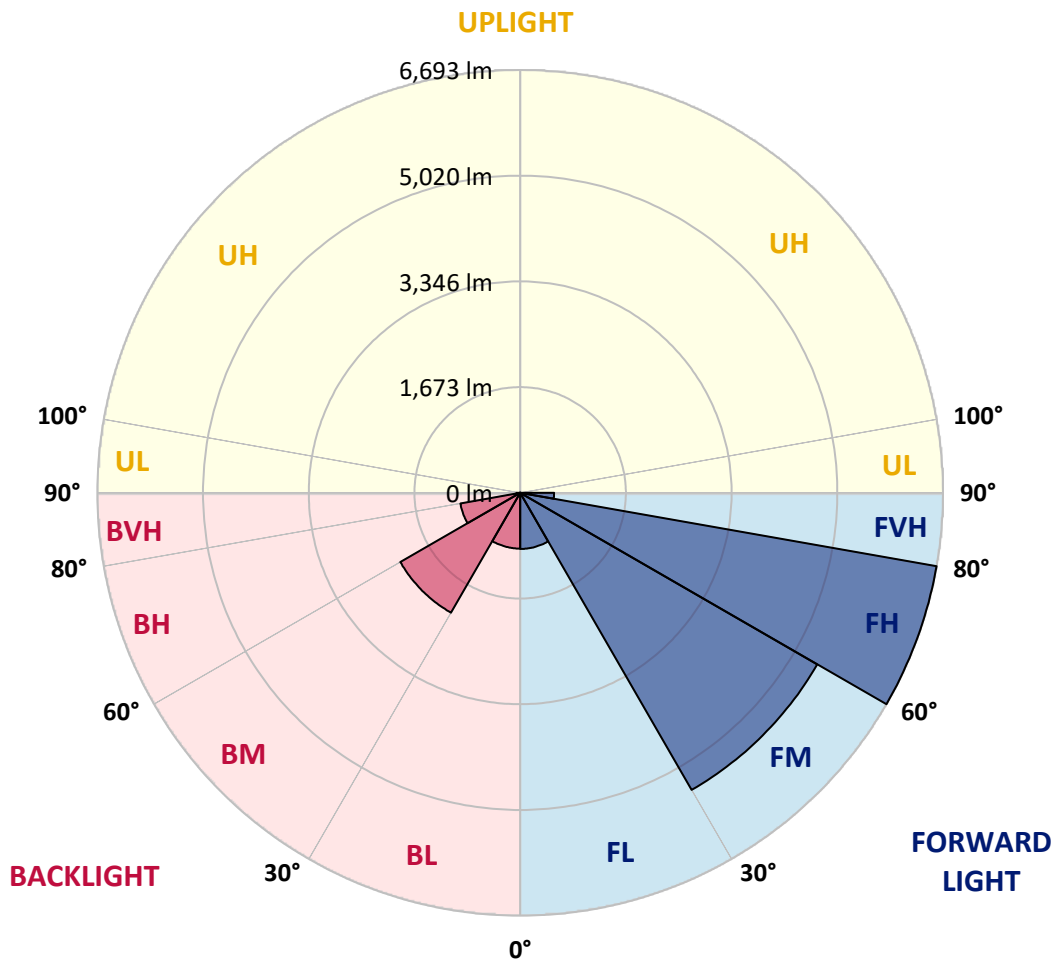
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	888.0	5.0			
FM	(30°-60°)	5429.8	30.8			
FH	(60°-80°)	6693.0	37.9			G3/7500
FVH	(80°-90°)	537.8	3.0			G4/750
BL	(0°-30°)	882.7	5.0	B2/1000		
BM	(30°-60°)	2191.1	12.4	B2/2500		
BH	(60°-80°)	960.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	58.8	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°	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1
2.5°	1996.4	2004.6	1989.4	1987.0	1977.6	1965.9	1968.3	1958.9	1947.2	1951.9	1954.2
5°	2008.1	2008.1	1996.4	1984.7	1980.0	1977.6	1980.0	1969.4	1967.1	1975.3	1968.3
7.5°	1997.6	2004.6	1984.7	1984.7	1976.5	1990.5	1991.7	1978.8	1988.2	1988.2	1987.0
10°	1995.2	1997.6	1989.4	1973.0	1971.8	1980.0	1996.4	2001.1	2005.8	2004.6	2009.3
12.5°	1968.3	1965.9	1949.5	1954.2	1976.5	1984.7	2012.8	2025.7	2043.3	2048.0	2050.3
15°	1934.3	1943.7	1944.8	1958.9	1982.3	1995.2	2023.4	2049.2	2087.8	2097.2	2096.0
17.5°	1937.8	1941.3	1947.2	1955.4	1991.7	1997.6	2043.3	2071.4	2119.5	2152.3	2168.7
20°	1960.1	1953.0	1964.8	1985.9	2005.8	2010.5	2058.5	2101.9	2167.6	2210.9	2229.7
22.5°	1997.6	1998.7	2004.6	2004.6	2018.7	2039.8	2084.3	2118.3	2199.2	2260.2	2293.0
25°	2032.7	2035.1	2042.1	2039.8	2063.2	2072.6	2114.8	2166.4	2259.0	2330.5	2393.8
27.5°	2085.5	2092.5	2087.8	2089.0	2134.7	2144.1	2162.9	2232.0	2327.0	2423.1	2535.7
30°	2184.0	2184.0	2179.3	2184.0	2233.2	2256.7	2262.5	2330.5	2407.9	2523.9	2693.9
32.5°	2325.8	2327.0	2297.7	2321.1	2376.2	2417.3	2434.8	2542.7	2629.4	2685.7	2904.9
35°	2629.4	2616.5	2586.1	2518.1	2553.2	2603.6	2659.9	2797.1	2988.2	3198.0	3418.4
37.5°	3094.8	3093.7	2985.8	2849.8	2788.9	2814.7	2893.2	3098.4	3397.3	3921.3	4115.9
40°	3611.8	3624.7	3468.8	3298.8	3119.5	3121.8	3141.7	3398.5	3831.0	4588.3	4690.3
42.5°	4127.6	4106.5	3934.2	3771.2	3527.4	3512.2	3459.4	3702.1	4284.7	5121.7	5135.8
45°	4587.2	4576.6	4385.5	4220.2	3990.5	3931.8	3872.1	4026.8	4717.3	5553.1	5460.5
47.5°	5018.6	5032.6	4768.9	4620.0	4392.6	4363.2	4294.1	4392.6	5145.2	5891.9	5724.3
50°	5509.7	5515.6	5200.3	5016.2	4791.1	4753.6	4726.7	4852.1	5587.1	6215.5	5992.7
52.5°	6059.5	5944.7	5637.5	5384.3	5168.6	5140.5	5125.2	5256.5	6071.3	6499.2	6169.7
55°	6751.2	6597.6	6283.5	5863.8	5549.6	5554.3	5501.5	5655.1	6479.2	6694.9	6342.1
57.5°	7053.6	7088.8	7030.2	6648.0	6097.1	6029.1	5898.9	6017.3	6867.3	6924.7	6478.1
60°	7623.4	7759.4	7632.8	7419.4	7256.4	7078.3	6442.9	6487.4	7221.3	7179.1	6493.3
62.5°	7662.1	7709.0	8108.7	8142.7	8301.0	8360.7	7834.4	7020.8	7542.5	7306.9	6544.9
65°	7282.2	7335.0	7816.8	8240.0	9111.0	9193.1	9026.6	7997.3	7802.7	7376.0	6503.8
67.5°	6305.7	6349.1	6896.6	7780.5	9470.9	9589.3	9427.5	9047.7	7894.2	7352.6	6323.3
70°	5393.7	5418.3	5873.2	7109.9	9223.5	9363.0	9298.6	9087.6	7890.7	7214.2	5924.7
72.5°	4236.6	4308.2	4675.1	5896.6	8598.7	8715.9	8734.7	8842.6	7690.2	6759.4	5033.8
75°	3072.6	3111.2	3527.4	4581.3	7421.7	7701.9	8031.3	8438.1	6936.4	5738.3	3722.0
77.5°	2165.2	2202.7	2594.3	3473.5	6006.8	6325.7	6921.2	7160.3	5628.1	4301.1	1958.9
80°	1425.5	1420.8	1793.6	2570.8	4507.4	4731.3	5173.3	4853.3	3266.0	1869.8	213.4
82.5°	837.0	883.9	1148.8	1766.6	3149.9	3274.2	3262.5	2555.6	1296.5	193.4	109.0
85°	483.0	500.6	677.6	1046.9	1736.2	1753.7	1570.9	991.8	321.2	86.7	64.5
87.5°	215.7	207.5	269.6	345.8	316.5	235.6	146.5	41.0	24.6	16.4	10.6
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°	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1
2.5°	1944.8	1939.0	1968.3	1951.9	1965.9	1957.7	1950.7	1960.1	1977.6	1992.9	1983.5
5°	1960.1	1963.6	1987.0	1967.1	1985.9	1982.3	1973.0	1983.5	2011.6	2025.7	2024.5
7.5°	1977.6	1980.0	2004.6	1996.4	2004.6	1997.6	2012.8	2005.8	2030.4	2039.8	2033.9
10°	1998.7	2002.3	2024.5	2025.7	2029.2	2024.5	2031.6	2035.1	2049.2	2067.9	2056.2
12.5°	2044.5	2052.7	2069.1	2086.7	2084.3	2065.6	2071.4	2052.7	2065.6	2071.4	2080.8
15°	2107.8	2127.7	2137.1	2161.7	2139.4	2128.9	2106.6	2069.1	2057.4	2051.5	2042.1
17.5°	2175.8	2194.5	2212.1	2243.8	2207.4	2179.3	2140.6	2070.3	2017.5	1998.7	1990.5
20°	2252.0	2269.5	2301.2	2322.3	2268.4	2207.4	2145.3	2042.1	1937.8	1866.3	1874.5
22.5°	2337.5	2376.2	2397.3	2391.5	2315.3	2232.0	2125.4	1968.3	1834.6	1727.9	1720.9
25°	2455.9	2478.2	2486.4	2432.5	2341.1	2214.4	2058.5	1880.3	1694.0	1574.4	1556.8
27.5°	2580.2	2603.6	2560.3	2459.5	2332.8	2173.4	1983.5	1730.3	1531.0	1416.1	1403.2
30°	2739.6	2733.8	2610.7	2451.2	2286.0	2074.9	1846.4	1576.7	1392.7	1286.0	1280.1
32.5°	2913.1	2869.8	2651.7	2411.4	2196.9	1946.0	1671.7	1431.4	1289.5	1182.8	1178.1
35°	3323.4	3124.1	2711.5	2361.0	2065.6	1767.8	1509.9	1322.3	1207.5	1086.7	1063.3
37.5°	3926.0	3604.8	2834.6	2309.4	1915.5	1592.0	1375.1	1241.5	1132.4	1003.5	981.2
40°	4487.5	4093.6	3050.3	2270.7	1780.7	1450.1	1282.5	1185.2	1079.7	950.7	922.6
42.5°	4886.1	4473.4	3309.4	2207.4	1645.9	1337.6	1243.8	1164.1	1065.6	946.0	923.8
45°	5207.3	4801.7	3566.1	2135.9	1487.6	1241.5	1203.9	1146.5	1048.0	932.0	906.2
47.5°	5433.5	5008.0	3744.3	2055.0	1336.4	1182.8	1169.9	1118.4	1021.1	912.0	895.6
50°	5666.8	5238.9	3866.2	1971.8	1200.4	1138.3	1123.0	1055.1	966.0	868.7	851.1
52.5°	5819.2	5351.5	3936.5	1955.4	1084.4	1077.3	1058.6	994.1	909.7	804.2	783.1
55°	5935.3	5451.1	3926.0	1859.2	980.0	997.6	985.9	937.8	864.0	760.8	746.7
57.5°	5963.4	5466.4	3829.9	1561.5	881.6	890.9	896.8	906.2	834.7	749.1	725.6
60°	6044.3	5394.9	3659.9	1123.0	765.5	788.9	835.8	844.0	794.8	697.5	683.4
62.5°	5992.7	5346.8	3290.6	791.3	683.4	731.5	776.1	776.1	708.1	617.8	608.4
65°	5902.5	5156.9	2574.3	623.7	640.1	689.3	730.3	702.2	643.6	559.2	553.3
67.5°	5672.7	4693.8	1536.9	561.5	609.6	656.5	685.8	643.6	588.5	505.3	495.9
70°	5012.7	3740.8	585.0	532.2	579.1	611.9	630.7	587.3	533.4	450.2	442.0
72.5°	3979.9	2339.9	371.6	495.9	540.4	569.7	581.5	531.0	445.5	350.5	341.1
75°	2395.0	668.2	322.4	429.1	475.9	526.4	506.4	440.8	376.3	294.2	288.4
77.5°	606.1	202.8	287.2	345.8	386.9	446.6	445.5	397.4	328.2	240.3	230.9
80°	145.4	141.8	233.3	255.6	291.9	342.3	337.6	330.6	260.2	166.5	137.2
82.5°	92.6	98.5	158.3	143.0	166.5	199.3	226.3	213.4	194.6	102.0	91.4
85°	62.1	78.5	77.4	53.9	75.0	112.5	146.5	133.6	110.2	63.3	56.3
87.5°	9.4	10.6	14.1	21.1	32.8	55.1	72.7	71.5	53.9	39.9	37.5
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)