

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: P509576

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
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-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15739 lumens
Efficiency: N/A
Efficacy: 126.2 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

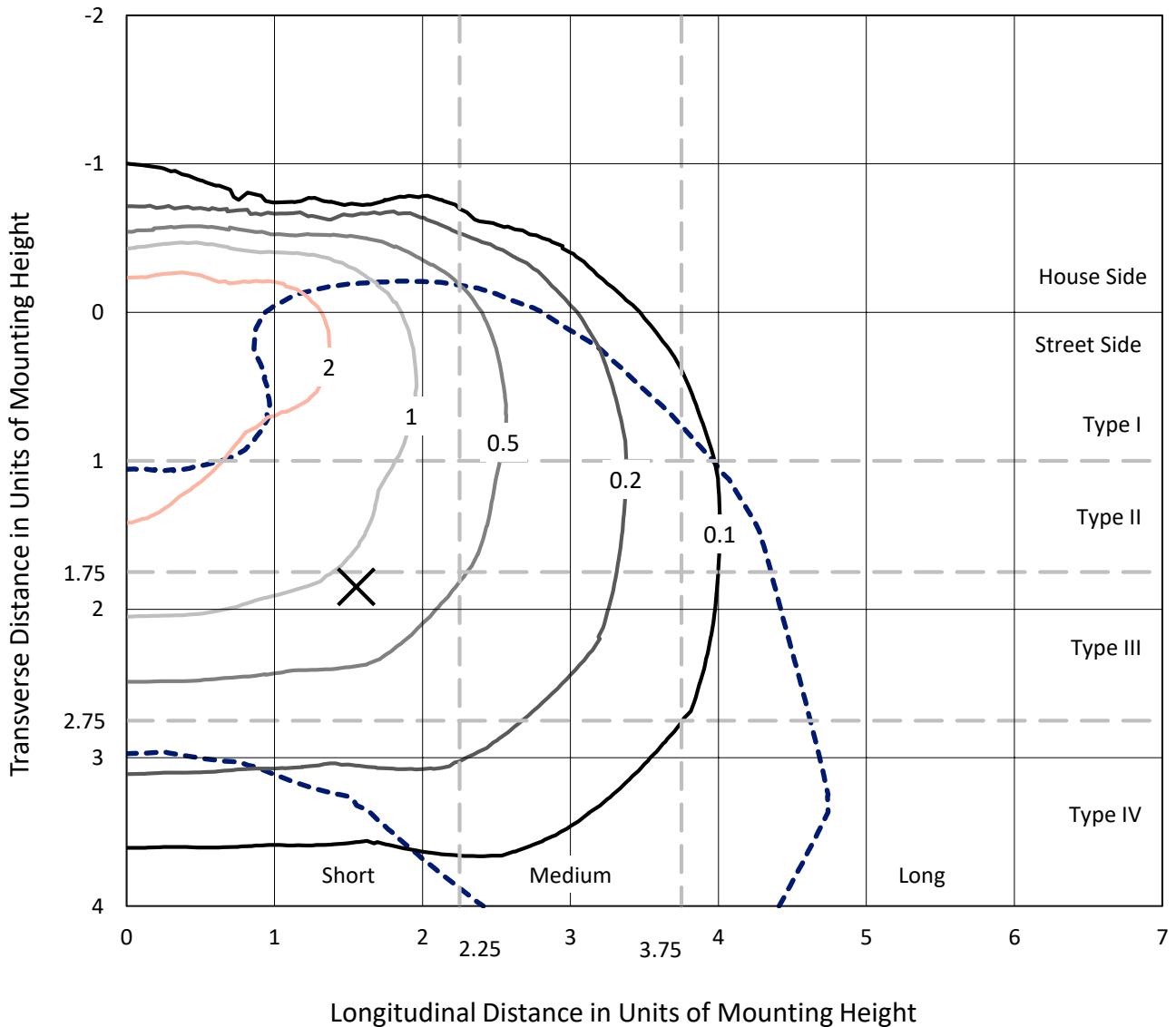
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

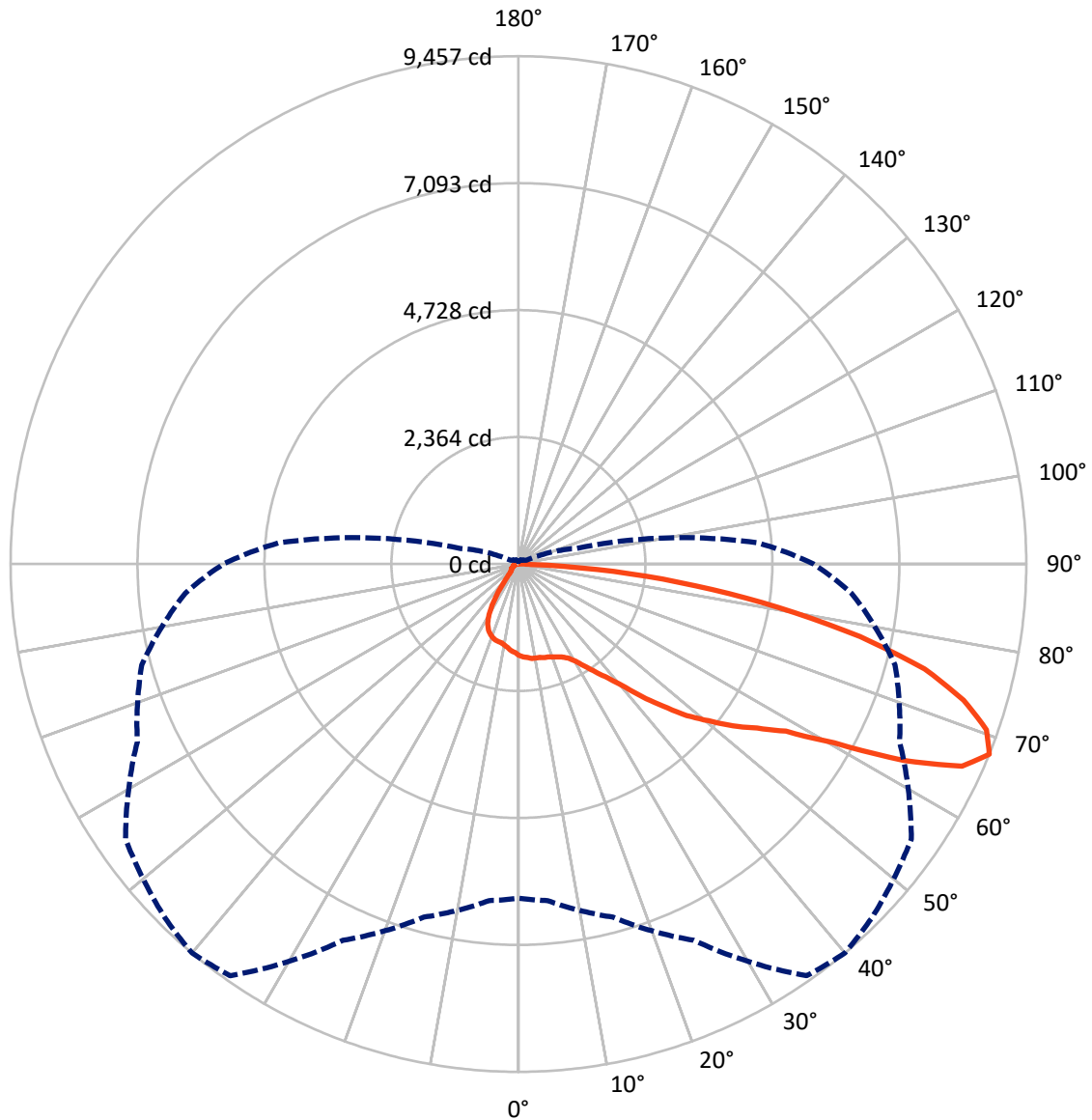
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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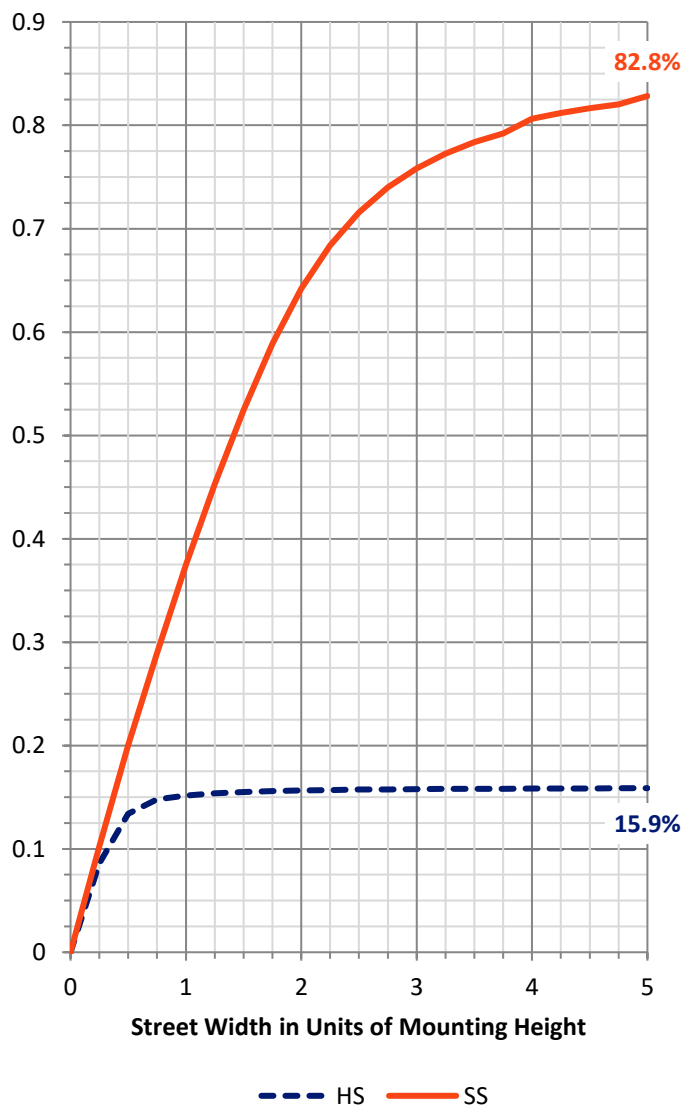
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2525.9	0.0	2525.9
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	13213.1	0.0	13213.1
	% Fixture	84.0	0.0	84.0
Total	Lumens	15739.0	0.0	15739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.0
10°-20°	478.2	3.0
20°-30°	795.6	5.1
30°-40°	1251.0	7.9
40°-50°	2166.0	13.8
50°-60°	3201.8	20.3
60°-70°	4162.5	26.4
70°-80°	2979.4	18.9
80°-90°	543.3	3.5
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°	15739.0	100.0
0°-180°	15739.0	100.0

Coefficient of Utilization



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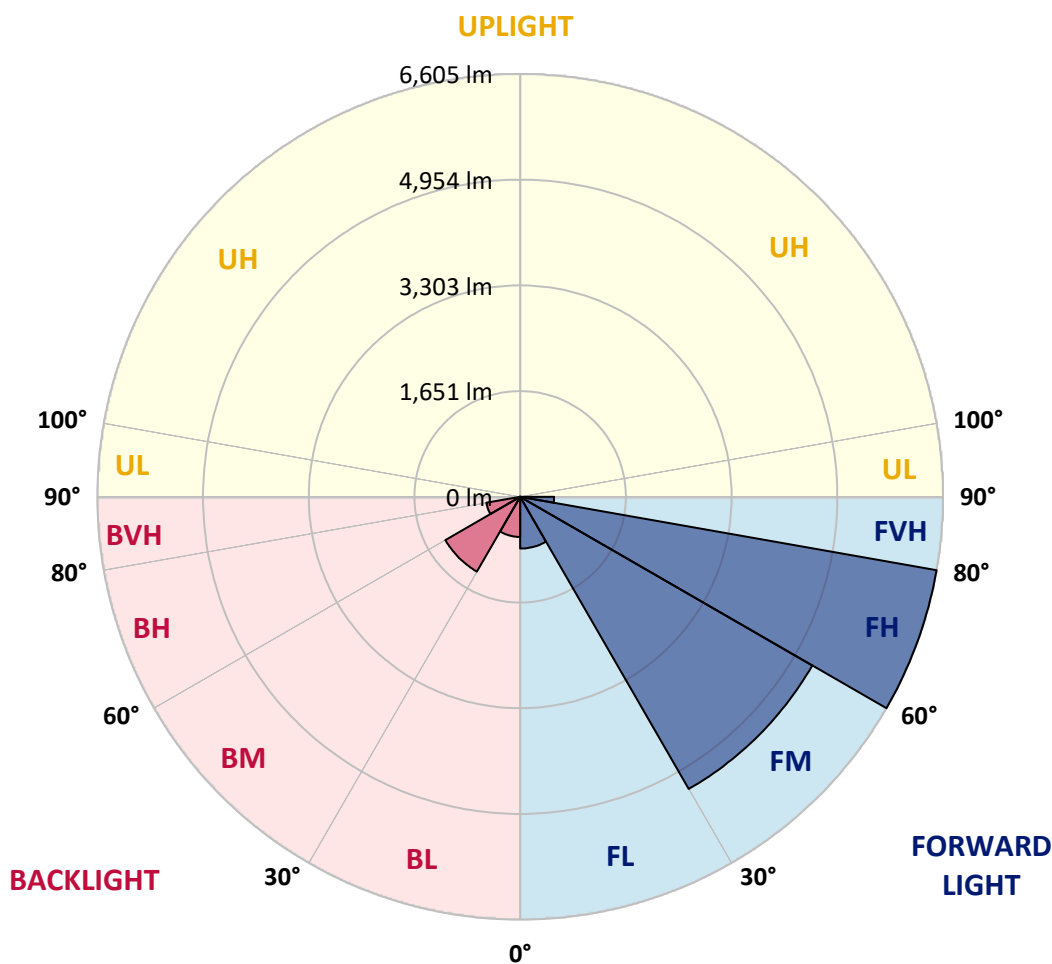
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	808.4	5.1			
FM	(30°-60°)	5269.5	33.5			
FH	(60°-80°)	6605.3	42.0			G3/7500
FVH	(80°-90°)	530.0	3.4			G4/750
BL	(0°-30°)	626.6	4.0	B2/1000		
BM	(30°-60°)	1349.3	8.6	B2/2500		
BH	(60°-80°)	536.7	3.4	B2/1000		G2/1000
BVH	(80°-90°)	13.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7
2.5°	1772.6	1771.5	1759.8	1753.9	1737.6	1731.7	1732.9	1725.9	1709.5	1711.9	1695.5
5°	1775.0	1783.2	1765.6	1761.0	1755.1	1748.1	1756.3	1746.9	1732.9	1737.6	1720.1
7.5°	1785.5	1789.0	1780.8	1776.1	1762.1	1776.1	1775.0	1766.8	1757.4	1749.3	1742.3
10°	1789.0	1785.5	1769.1	1765.6	1765.6	1779.6	1785.5	1789.0	1789.0	1776.1	1771.5
12.5°	1771.5	1769.1	1752.8	1759.8	1775.0	1784.3	1803.0	1814.7	1833.4	1819.4	1812.4
15°	1744.6	1750.4	1757.4	1759.8	1787.8	1808.9	1826.4	1847.4	1879.0	1879.0	1876.6
17.5°	1752.8	1764.5	1772.6	1784.3	1811.2	1818.2	1842.7	1876.6	1929.2	1932.7	1938.6
20°	1793.7	1793.7	1796.0	1804.2	1827.6	1848.6	1869.6	1912.9	1973.6	1993.5	1999.3
22.5°	1838.1	1835.7	1846.3	1845.1	1863.8	1877.8	1904.7	1942.1	2018.0	2055.4	2070.6
25°	1874.3	1881.3	1890.7	1879.0	1915.2	1921.0	1942.1	1987.6	2068.3	2134.9	2167.6
27.5°	1936.2	1940.9	1938.6	1944.4	1980.6	1984.1	2004.0	2069.4	2144.2	2235.4	2306.6
30°	2042.6	2026.2	2028.5	2041.4	2094.0	2101.0	2122.0	2185.1	2244.7	2365.1	2477.3
32.5°	2188.6	2188.6	2162.9	2187.5	2248.2	2266.9	2298.5	2393.1	2451.5	2515.8	2700.4
35°	2467.9	2467.9	2449.2	2384.9	2415.3	2462.1	2520.5	2651.4	2831.3	3041.6	3238.0
37.5°	2930.6	2923.6	2850.0	2734.3	2668.9	2685.2	2742.5	2954.0	3246.1	3759.1	3909.8
40°	3483.3	3463.5	3325.6	3164.3	2997.2	2969.2	2996.1	3261.3	3677.3	4438.0	4495.3
42.5°	3974.1	3972.9	3770.8	3634.1	3420.2	3373.5	3342.0	3572.1	4109.7	4931.1	4951.0
45°	4442.7	4431.0	4234.7	4086.3	3891.2	3772.0	3763.8	3925.0	4564.2	5375.2	5291.0
47.5°	4859.9	4877.4	4657.7	4515.1	4299.0	4217.2	4151.7	4289.6	4982.5	5753.8	5579.7
50°	5340.1	5371.7	5043.3	4886.7	4668.2	4587.6	4623.8	4725.5	5399.7	6063.4	5836.7
52.5°	5946.6	5846.1	5520.1	5251.3	5048.0	5008.3	5016.4	5157.8	5882.3	6317.0	6015.5
55°	6660.5	6512.1	6184.9	5765.5	5433.6	5396.2	5392.7	5536.4	6328.7	6554.2	6153.4
57.5°	6929.3	7006.4	6877.9	6568.2	5981.6	5871.8	5786.5	5919.7	6729.5	6815.9	6298.3
60°	7549.8	7632.7	7538.1	7339.4	7140.8	6758.7	6384.8	6371.9	7103.4	7066.0	6359.1
62.5°	7618.7	7591.8	8012.5	8082.6	8200.6	8052.2	7775.3	6971.4	7441.1	7193.4	6407.0
65°	7233.1	7236.6	7801.0	8186.6	9002.2	9078.2	8906.4	7924.9	7694.7	7243.6	6373.1
67.5°	6223.5	6292.5	6806.6	7730.9	9357.5	9456.8	9311.9	8931.0	7831.4	7261.1	6225.8
70°	5348.3	5350.6	5836.7	6964.3	9170.5	9245.3	9178.7	8996.4	7778.8	7122.1	5826.2
72.5°	4209.0	4196.1	4622.6	5761.9	8510.3	8669.2	8633.0	8758.0	7586.0	6619.6	4956.8
75°	3039.3	3065.0	3497.4	4438.0	7320.7	7813.9	7989.1	8370.1	6898.9	5621.7	3634.1
77.5°	2127.9	2153.6	2568.4	3371.2	5908.0	6502.8	6784.4	7118.6	5591.3	4166.9	1862.6
80°	1391.7	1415.1	1771.5	2532.2	4404.1	4911.3	5122.8	4923.0	3283.5	1750.4	204.5
82.5°	808.6	854.2	1125.3	1737.6	3086.0	3326.8	3338.4	2590.6	1226.9	156.6	95.8
85°	393.8	423.0	673.1	1030.6	1688.5	1775.0	1646.4	964.0	286.3	74.8	54.9
87.5°	58.4	77.1	265.3	389.1	286.3	234.9	141.4	32.7	18.7	9.3	7.0
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°	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7
2.5°	1686.2	1685.0	1688.5	1673.3	1674.5	1655.8	1648.8	1645.3	1661.6	1659.3	1671.0
5°	1707.2	1695.5	1694.3	1657.0	1653.4	1630.1	1616.1	1595.0	1611.4	1607.9	1607.9
7.5°	1720.1	1708.4	1701.4	1657.0	1626.6	1585.7	1562.3	1545.9	1544.8	1541.3	1542.4
10°	1741.1	1735.2	1697.9	1648.8	1607.9	1555.3	1510.9	1485.2	1473.5	1474.7	1466.5
12.5°	1787.8	1776.1	1725.9	1667.5	1602.0	1529.6	1472.3	1426.8	1403.4	1398.7	1385.9
15°	1854.4	1841.6	1778.5	1711.9	1617.2	1531.9	1446.6	1366.0	1326.3	1309.9	1298.2
17.5°	1932.7	1912.9	1840.4	1764.5	1648.8	1529.6	1422.1	1313.4	1237.5	1194.2	1190.7
20°	1994.7	1985.3	1902.3	1820.5	1668.6	1514.4	1381.2	1237.5	1124.1	1044.7	1028.3
22.5°	2076.5	2077.6	1985.3	1862.6	1685.0	1488.7	1316.9	1131.1	976.9	870.5	851.8
25°	2194.5	2176.9	2072.9	1896.5	1688.5	1459.5	1229.3	997.9	796.9	677.7	656.7
27.5°	2335.9	2310.2	2144.2	1914.0	1673.3	1401.0	1112.4	823.8	588.9	486.1	469.7
30°	2485.4	2424.7	2202.6	1921.0	1626.6	1306.4	946.5	601.8	417.2	344.7	337.7
32.5°	2677.1	2588.3	2252.9	1897.7	1555.3	1162.7	733.8	412.5	288.6	250.1	252.4
35°	3069.7	2852.3	2331.2	1872.0	1454.8	982.7	513.0	273.4	223.2	218.5	219.7
37.5°	3663.3	3318.6	2469.1	1834.6	1305.2	751.4	329.5	211.5	212.7	212.7	212.7
40°	4237.0	3828.1	2680.6	1761.0	1121.8	525.8	217.3	199.8	205.7	204.5	205.7
42.5°	4646.0	4206.7	2902.6	1671.0	910.3	333.0	195.1	188.1	191.6	190.5	194.0
45°	4977.9	4531.5	3104.7	1543.6	681.2	217.3	191.6	178.8	175.3	174.1	177.6
47.5°	5223.3	4745.3	3249.6	1384.7	454.6	187.0	183.5	164.8	160.1	160.1	161.3
50°	5461.6	4951.0	3292.9	1203.6	280.4	182.3	172.9	153.1	146.1	143.7	146.1
52.5°	5627.6	5021.1	3302.2	999.1	188.1	177.6	160.1	139.1	130.9	129.7	130.9
55°	5769.0	5164.8	3226.3	744.3	168.3	167.1	148.4	125.0	115.7	120.4	122.7
57.5°	5804.0	5178.9	3074.4	491.9	167.1	153.1	135.5	112.2	105.2	109.8	111.0
60°	5892.8	5121.6	2885.1	302.6	163.6	136.7	120.4	99.3	94.6	95.8	98.2
62.5°	5816.9	5090.0	2561.4	211.5	150.7	125.0	112.2	91.1	83.0	81.8	81.8
65°	5739.7	4904.3	1958.4	175.3	134.4	116.9	101.7	80.6	71.3	66.6	66.6
67.5°	5494.4	4488.3	1118.3	162.4	121.5	107.5	92.3	73.6	61.9	56.1	53.8
70°	4876.2	3595.5	344.7	148.4	122.7	100.5	85.3	64.3	53.8	45.6	44.4
72.5°	3818.7	2248.2	161.3	130.9	126.2	93.5	79.5	59.6	47.9	38.6	37.4
75°	2247.1	538.7	132.0	97.0	107.5	99.3	78.3	57.3	42.1	31.5	30.4
77.5°	488.4	130.9	118.0	65.4	80.6	95.8	74.8	50.2	37.4	24.5	23.4
80°	118.0	102.8	107.5	50.2	53.8	66.6	60.8	43.2	33.9	19.9	18.7
82.5°	79.5	77.1	94.6	31.5	26.9	24.5	25.7	26.9	28.0	15.2	14.0
85°	52.6	66.6	50.2	17.5	15.2	12.9	12.9	11.7	16.4	9.3	9.3
87.5°	8.2	7.0	8.2	7.0	7.0	5.8	4.7	4.7	3.5	4.7	4.7
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)