

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: P509560

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509560
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-CA2-120-740-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15790 lumens
Efficiency: N/A
Efficacy: 126.6 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

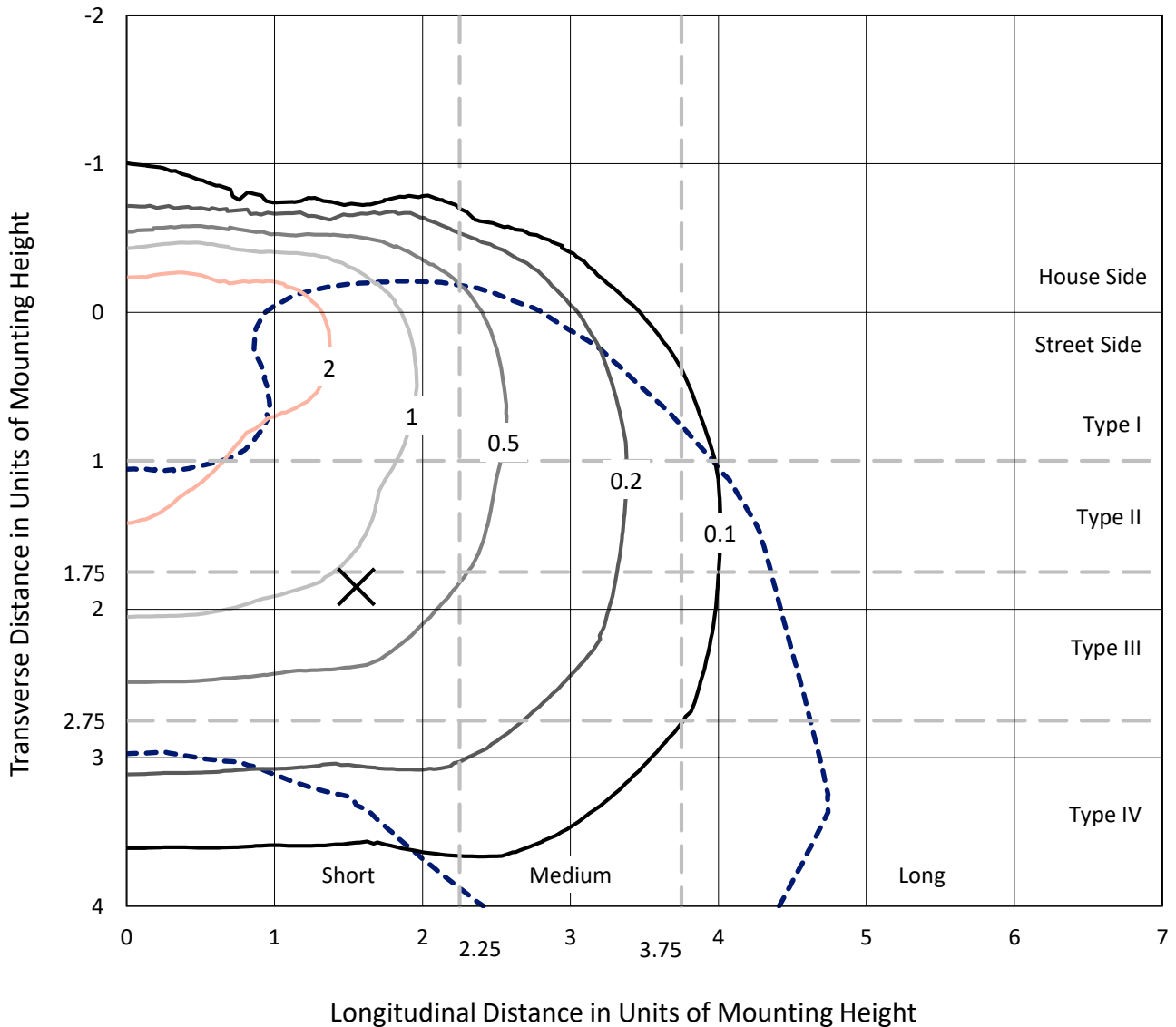
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

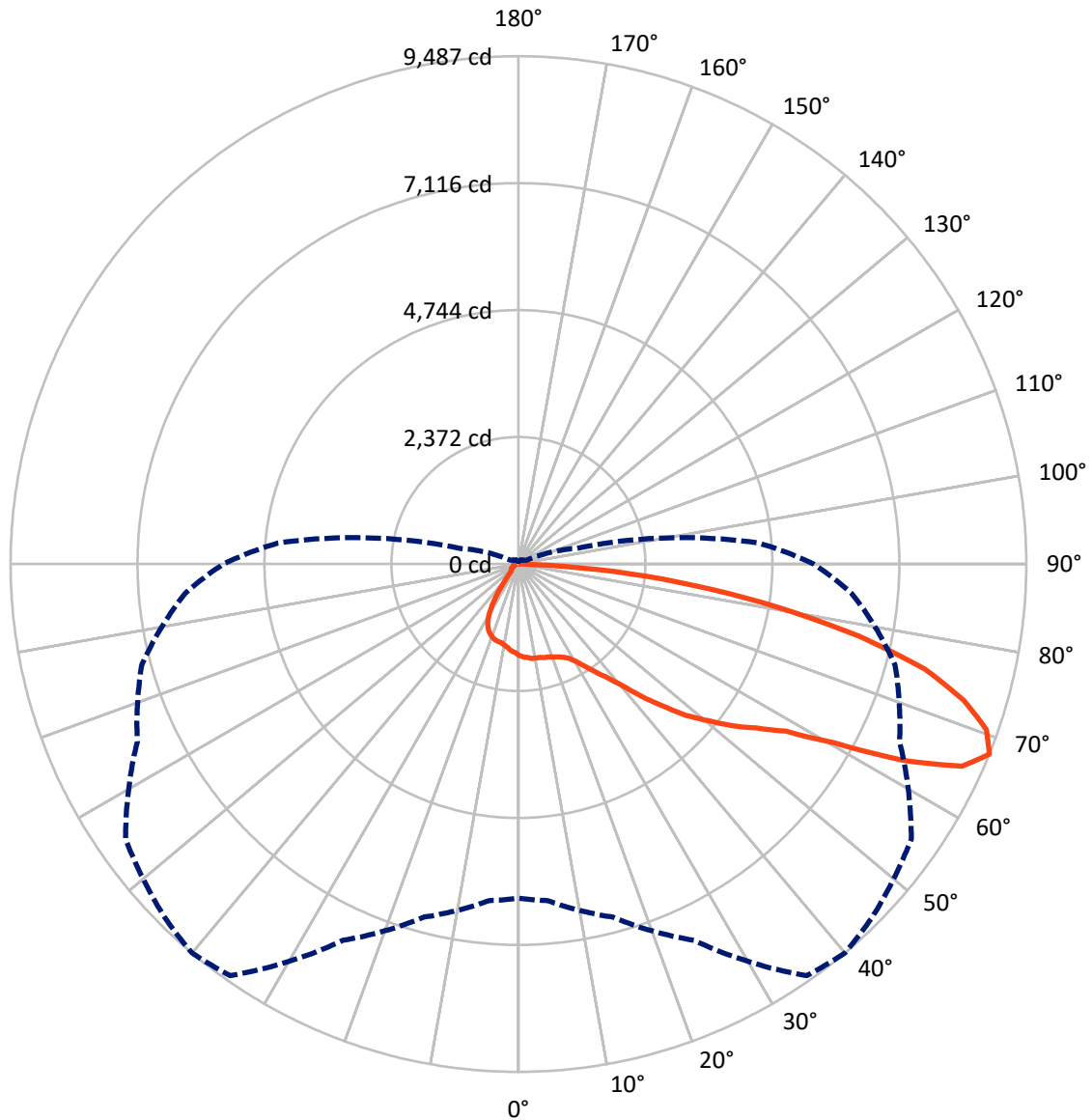
✕ Max cd
 - - - 1/2 Max cd



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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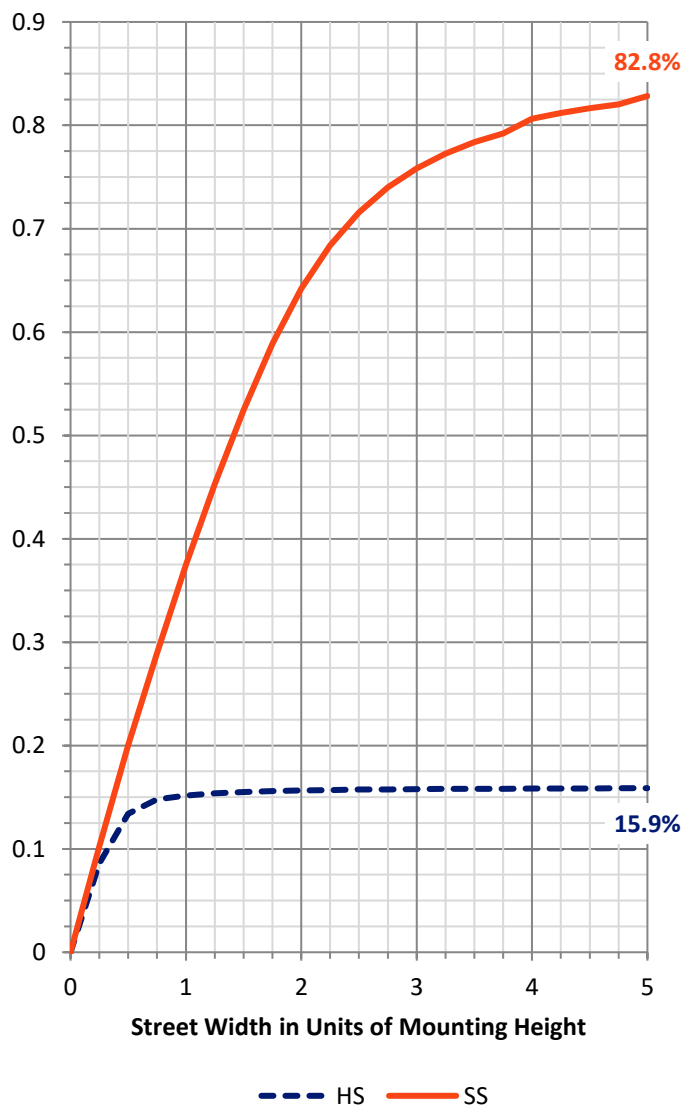
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.0	0.0	2534.0
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	13256.0	0.0	13256.0
	% Fixture	84.0	0.0	84.0
Total	Lumens	15790.0	0.0	15790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.0
10°-20°	479.8	3.0
20°-30°	798.1	5.1
30°-40°	1255.0	7.9
40°-50°	2173.0	13.8
50°-60°	3212.1	20.3
60°-70°	4176.0	26.4
70°-80°	2989.1	18.9
80°-90°	545.1	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°	15790.0	100.0
0°-180°	15790.0	100.0

Coefficient of Utilization



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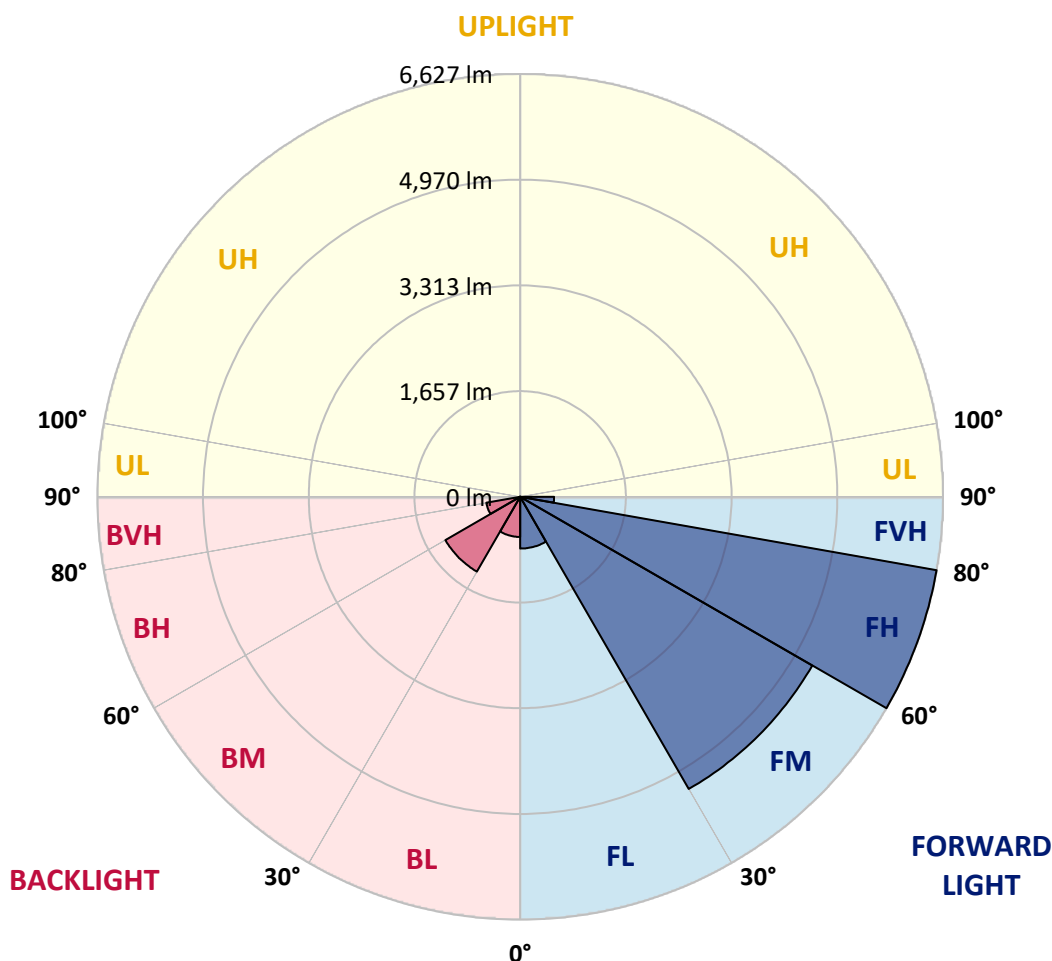
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.0	5.1			
FM	(30°-60°)	5286.6	33.5			
FH	(60°-80°)	6626.7	42.0			G3/7500
FVH	(80°-90°)	531.7	3.4			G4/750
BL	(0°-30°)	628.6	4.0	B2/1000		
BM	(30°-60°)	1353.6	8.6	B2/2500		
BH	(60°-80°)	538.4	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°	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2
2.5°	1778.4	1777.2	1765.5	1759.6	1743.2	1737.3	1738.5	1731.5	1715.1	1717.4	1701.0
5°	1780.7	1788.9	1771.3	1766.7	1760.8	1753.8	1762.0	1752.6	1738.5	1743.2	1725.6
7.5°	1791.3	1794.8	1786.6	1781.9	1767.8	1781.9	1780.7	1772.5	1763.1	1754.9	1747.9
10°	1794.8	1791.3	1774.9	1771.3	1771.3	1785.4	1791.3	1794.8	1794.8	1781.9	1777.2
12.5°	1777.2	1774.9	1758.5	1765.5	1780.7	1790.1	1808.9	1820.6	1839.3	1825.3	1818.2
15°	1750.2	1756.1	1763.1	1765.5	1793.6	1814.7	1832.3	1853.4	1885.1	1885.1	1882.7
17.5°	1758.5	1770.2	1778.4	1790.1	1817.1	1824.1	1848.7	1882.7	1935.5	1939.0	1944.8
20°	1799.5	1799.5	1801.8	1810.0	1833.5	1854.6	1875.7	1919.1	1980.0	1999.9	2005.8
22.5°	1844.0	1841.7	1852.2	1851.1	1869.8	1883.9	1910.9	1948.4	2024.6	2062.1	2077.3
25°	1880.4	1887.4	1896.8	1885.1	1921.4	1927.3	1948.4	1994.1	2075.0	2141.8	2174.6
27.5°	1942.5	1947.2	1944.8	1950.7	1987.0	1990.6	2010.5	2076.1	2151.2	2242.6	2314.1
30°	2049.2	2032.8	2035.1	2048.0	2100.8	2107.8	2128.9	2192.2	2252.0	2372.7	2485.3
32.5°	2195.7	2195.7	2169.9	2194.5	2255.5	2274.3	2305.9	2400.9	2459.5	2524.0	2709.2
35°	2475.9	2475.9	2457.1	2392.7	2423.1	2470.0	2528.7	2660.0	2840.5	3051.5	3248.4
37.5°	2940.1	2933.1	2859.2	2743.2	2677.5	2693.9	2751.4	2963.6	3256.7	3771.3	3922.5
40°	3494.6	3474.7	3336.4	3174.6	3007.0	2978.8	3005.8	3271.9	3689.2	4452.4	4509.8
42.5°	3987.0	3985.8	3783.0	3645.9	3431.3	3384.4	3352.8	3583.7	4123.0	4947.1	4967.0
45°	4457.1	4445.4	4248.4	4099.5	3903.8	3784.2	3776.0	3937.8	4579.0	5392.6	5308.2
47.5°	4875.6	4893.2	4672.8	4529.8	4312.9	4230.8	4165.2	4303.5	4998.7	5772.4	5597.7
50°	5357.4	5389.1	5059.7	4902.6	4683.3	4602.5	4638.8	4740.8	5417.2	6083.1	5855.6
52.5°	5965.8	5865.0	5537.9	5268.3	5064.3	5024.5	5032.7	5174.5	5901.4	6337.5	6035.0
55°	6682.1	6533.2	6205.0	5784.1	5451.2	5413.7	5410.2	5554.4	6349.2	6575.4	6173.3
57.5°	6951.7	7029.1	6900.2	6589.5	6001.0	5890.8	5805.2	5938.9	6751.3	6838.0	6318.7
60°	7574.2	7657.5	7562.5	7363.2	7163.9	6780.6	6405.5	6392.6	7126.4	7088.9	6379.7
62.5°	7643.4	7616.4	8038.5	8108.8	8227.2	8078.3	7800.5	6993.9	7465.2	7216.7	6427.7
65°	7256.5	7260.1	7826.3	8213.1	9031.4	9107.6	8935.3	7950.5	7719.6	7267.1	6393.7
67.5°	6243.7	6312.8	6828.7	7755.9	9387.8	9487.4	9342.1	8959.9	7856.8	7284.7	6246.0
70°	5365.6	5368.0	5855.6	6986.9	9200.2	9275.2	9208.4	9025.5	7804.0	7145.2	5845.1
72.5°	4222.6	4209.7	4637.6	5780.6	8537.9	8697.3	8661.0	8786.4	7610.6	6641.1	4972.9
75°	3049.2	3074.9	3508.7	4452.4	7344.5	7839.2	8015.0	8397.2	6921.3	5639.9	3645.9
77.5°	2134.8	2160.6	2576.7	3382.1	5927.2	6523.9	6806.4	7141.7	5609.5	4180.4	1868.6
80°	1396.2	1419.7	1777.2	2540.4	4418.4	4927.2	5139.4	4938.9	3294.2	1756.1	205.2
82.5°	811.2	857.0	1128.9	1743.2	3096.0	3337.5	3349.3	2599.0	1230.9	157.1	96.1
85°	395.1	424.4	675.2	1034.0	1694.0	1780.7	1651.8	967.1	287.2	75.0	55.1
87.5°	58.6	77.4	266.1	390.4	287.2	235.6	141.8	32.8	18.8	9.4	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°	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2
2.5°	1691.6	1690.5	1694.0	1678.7	1679.9	1661.2	1654.1	1650.6	1667.0	1664.7	1676.4
5°	1712.7	1701.0	1699.8	1662.3	1658.8	1635.4	1621.3	1600.2	1616.6	1613.1	1613.1
7.5°	1725.6	1713.9	1706.9	1662.3	1631.8	1590.8	1567.4	1551.0	1549.8	1546.3	1547.4
10°	1746.7	1740.9	1703.4	1654.1	1613.1	1560.3	1515.8	1490.0	1478.3	1479.4	1471.2
12.5°	1793.6	1781.9	1731.5	1672.9	1607.2	1534.5	1477.1	1431.4	1407.9	1403.2	1390.3
15°	1860.4	1847.5	1784.2	1717.4	1622.5	1536.9	1451.3	1370.4	1330.6	1314.1	1302.4
17.5°	1939.0	1919.1	1846.4	1770.2	1654.1	1534.5	1426.7	1317.7	1241.5	1198.1	1194.6
20°	2001.1	1991.7	1908.5	1826.4	1674.0	1519.3	1385.7	1241.5	1127.8	1048.0	1031.6
22.5°	2083.2	2084.4	1991.7	1868.6	1690.5	1493.5	1321.2	1134.8	980.0	873.4	854.6
25°	2201.6	2184.0	2079.7	1902.6	1694.0	1464.2	1233.3	1001.1	799.5	679.9	658.8
27.5°	2343.4	2317.6	2151.2	1920.2	1678.7	1405.6	1116.0	826.5	590.8	487.7	471.3
30°	2493.5	2432.5	2209.8	1927.3	1631.8	1310.6	949.6	603.7	418.5	345.8	338.8
32.5°	2685.7	2596.6	2260.2	1903.8	1560.3	1166.4	736.2	413.8	289.6	250.9	253.2
35°	3079.6	2861.6	2338.7	1878.0	1459.5	985.9	514.6	274.3	223.9	219.2	220.4
37.5°	3675.2	3329.3	2477.1	1840.5	1309.5	753.8	330.6	212.2	213.4	213.4	213.4
40°	4250.8	3840.5	2689.3	1766.7	1125.4	527.5	218.0	200.5	206.3	205.2	206.3
42.5°	4661.1	4220.3	2912.0	1676.4	913.2	334.1	195.8	188.7	192.3	191.1	194.6
45°	4994.0	4546.2	3114.8	1548.6	683.5	218.0	192.3	179.4	175.8	174.7	178.2
47.5°	5240.2	4760.7	3260.2	1389.2	456.0	187.6	184.1	165.3	160.6	160.6	161.8
50°	5479.3	4967.0	3303.5	1207.5	281.4	182.9	173.5	153.6	146.5	144.2	146.5
52.5°	5645.8	5037.4	3312.9	1002.3	188.7	178.2	160.6	139.5	131.3	130.1	131.3
55°	5787.6	5181.6	3236.7	746.8	168.8	167.6	148.9	125.4	116.1	120.7	123.1
57.5°	5822.8	5195.6	3084.3	493.5	167.6	153.6	136.0	112.5	105.5	110.2	111.4
60°	5911.9	5138.2	2894.4	303.6	164.1	137.2	120.7	99.6	95.0	96.1	98.5
62.5°	5835.7	5106.5	2569.7	212.2	151.2	125.4	112.5	91.4	83.2	82.1	82.1
65°	5758.3	4920.1	1964.8	175.8	134.8	117.2	102.0	80.9	71.5	66.8	66.8
67.5°	5512.2	4502.8	1121.9	162.9	121.9	107.9	92.6	73.9	62.1	56.3	53.9
70°	4892.0	3607.2	345.8	148.9	123.1	100.8	85.6	64.5	53.9	45.7	44.5
72.5°	3831.1	2255.5	161.8	131.3	126.6	93.8	79.7	59.8	48.1	38.7	37.5
75°	2254.3	540.4	132.5	97.3	107.9	99.6	78.5	57.4	42.2	31.7	30.5
77.5°	490.0	131.3	118.4	65.6	80.9	96.1	75.0	50.4	37.5	24.6	23.4
80°	118.4	103.2	107.9	50.4	53.9	66.8	61.0	43.4	34.0	19.9	18.8
82.5°	79.7	77.4	95.0	31.7	27.0	24.6	25.8	27.0	28.1	15.2	14.1
85°	52.8	66.8	50.4	17.6	15.2	12.9	12.9	11.7	16.4	9.4	9.4
87.5°	8.2	7.0	8.2	7.0	7.0	5.9	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)