

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: P509545

Luminaire Tested: **VERD-G-CA2-120-727-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509545
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-CA2-120-727-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14939 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

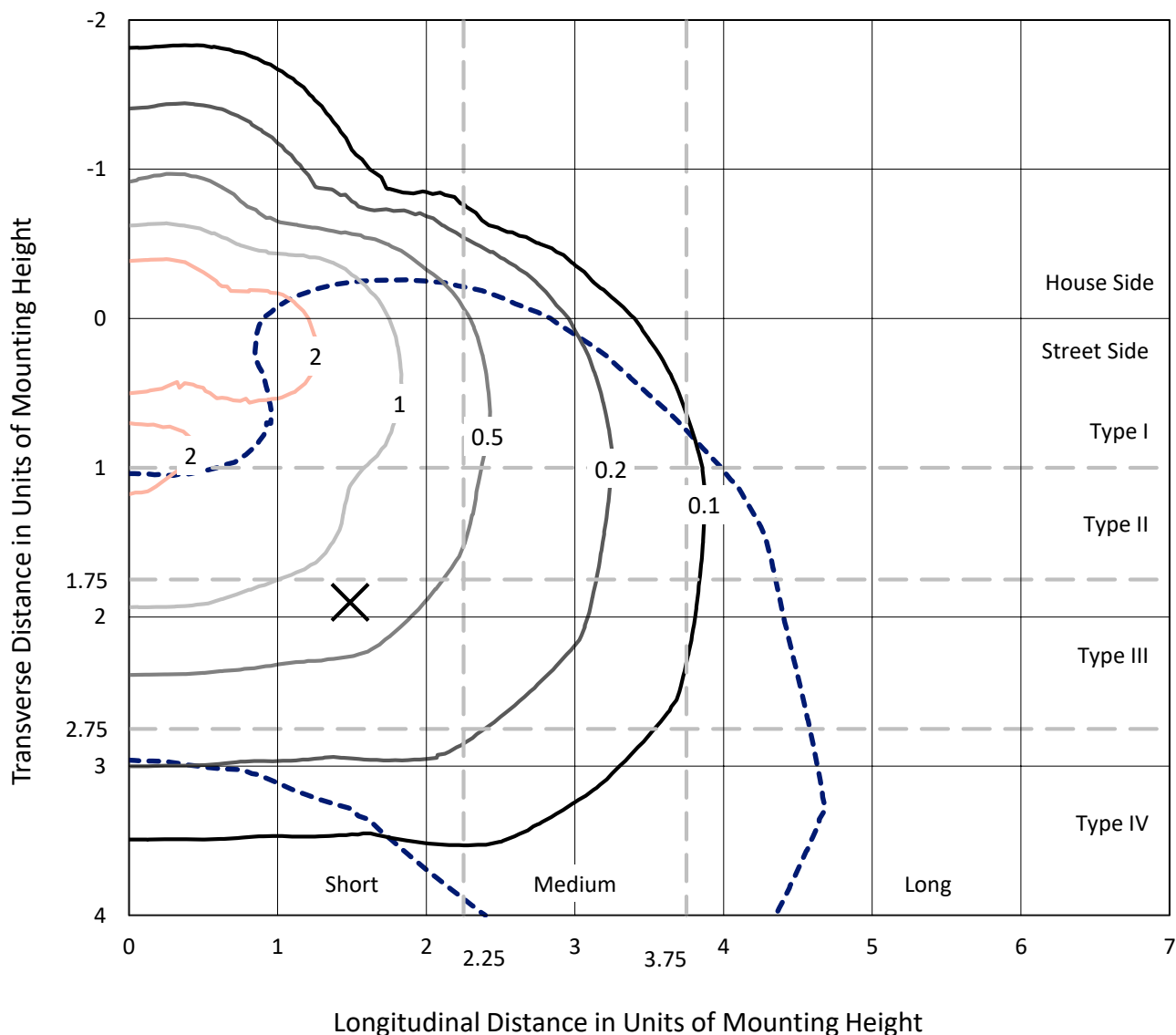
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

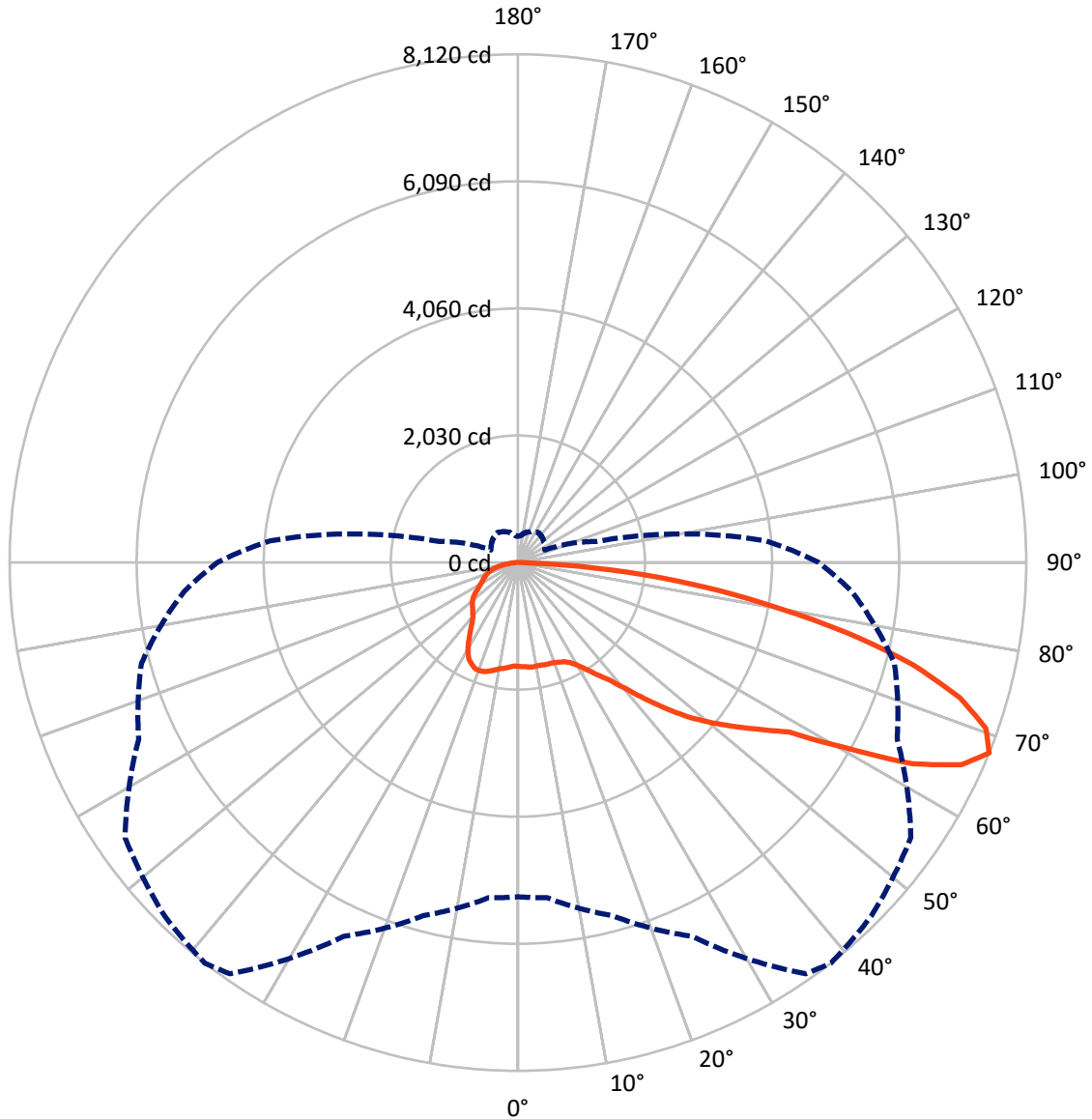
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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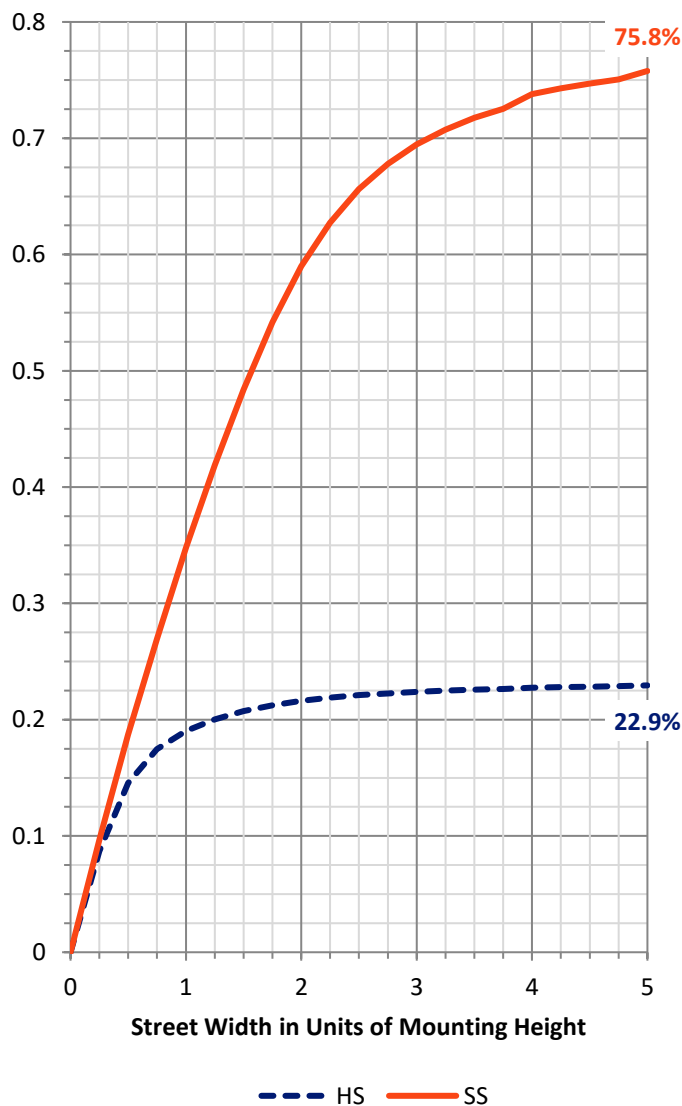
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3466.3	0.0	3466.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11472.7	0.0	11472.7
	% Fixture	76.8	0.0	76.8
Total	Lumens	14939.0	0.0	14939.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.1
10°-20°	496.6	3.3
20°-30°	841.7	5.6
30°-40°	1289.9	8.6
40°-50°	2125.4	14.2
50°-60°	3037.9	20.3
60°-70°	3784.4	25.3
70°-80°	2696.8	18.1
80°-90°	505.2	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°	14939.0	100.0
0°-180°	14939.0	100.0



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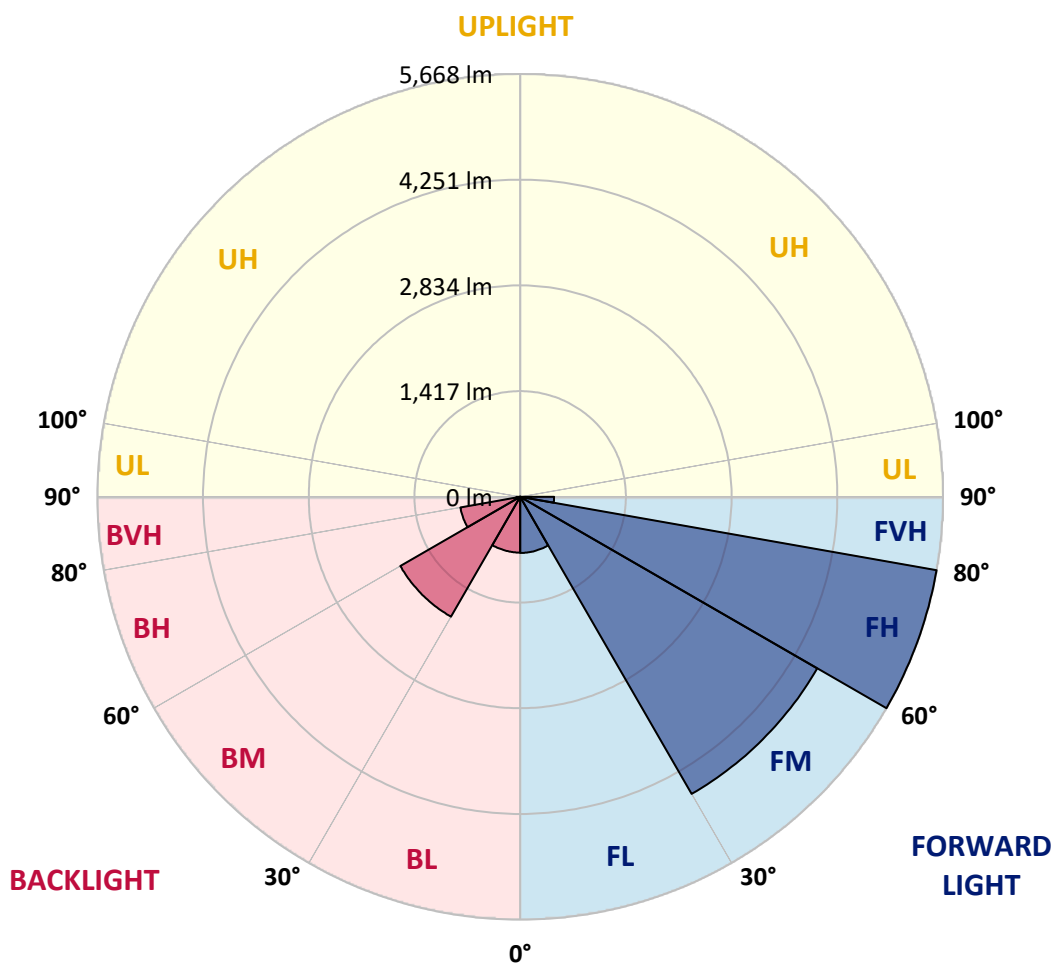
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.0	5.0			
FM	(30°-60°)	4597.9	30.8			
FH	(60°-80°)	5667.5	37.9			G3/7500
FVH	(80°-90°)	455.4	3.0			G3/500
BL	(0°-30°)	747.4	5.0	B2/1000		
BM	(30°-60°)	1855.4	12.4	B2/2500		
BH	(60°-80°)	813.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	49.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8
2.5°	1690.5	1697.5	1684.6	1682.6	1674.6	1664.7	1666.7	1658.8	1648.8	1652.8	1654.8
5°	1700.5	1700.5	1690.5	1680.6	1676.6	1674.6	1676.6	1667.7	1665.7	1672.7	1666.7
7.5°	1691.5	1697.5	1680.6	1680.6	1673.7	1685.6	1686.6	1675.6	1683.6	1683.6	1682.6
10°	1689.5	1691.5	1684.6	1670.7	1669.7	1676.6	1690.5	1694.5	1698.5	1697.5	1701.4
12.5°	1666.7	1664.7	1650.8	1654.8	1673.7	1680.6	1704.4	1715.3	1730.2	1734.2	1736.2
15°	1637.9	1645.9	1646.8	1658.8	1678.6	1689.5	1713.4	1735.2	1768.0	1775.9	1774.9
17.5°	1640.9	1643.9	1648.8	1655.8	1686.6	1691.5	1730.2	1754.1	1794.8	1822.6	1836.4
20°	1659.8	1653.8	1663.7	1681.6	1698.5	1702.4	1743.1	1779.9	1835.5	1872.2	1888.1
22.5°	1691.5	1692.5	1697.5	1697.5	1709.4	1727.3	1765.0	1793.8	1862.3	1913.9	1941.7
25°	1721.3	1723.3	1729.2	1727.3	1747.1	1755.1	1790.8	1834.5	1912.9	1973.4	2027.0
27.5°	1766.0	1771.9	1768.0	1768.9	1807.7	1815.6	1831.5	1890.1	1970.5	2051.9	2147.2
30°	1849.4	1849.4	1845.4	1849.4	1891.0	1910.9	1915.9	1973.4	2039.0	2137.2	2281.2
32.5°	1969.5	1970.5	1945.6	1965.5	2012.2	2046.9	2061.8	2153.1	2226.6	2274.2	2459.8
35°	2226.6	2215.7	2189.8	2132.3	2162.0	2204.7	2252.4	2368.5	2530.3	2708.0	2894.6
37.5°	2620.7	2619.7	2528.3	2413.2	2361.6	2383.4	2449.9	2623.6	2876.8	3320.5	3485.3
40°	3058.4	3069.4	2937.3	2793.4	2641.5	2643.5	2660.4	2877.8	3244.1	3885.3	3971.7
42.5°	3495.2	3477.3	3331.4	3193.4	2987.0	2974.1	2929.4	3134.9	3628.2	4337.0	4348.9
45°	3884.3	3875.4	3713.6	3573.6	3379.1	3329.4	3278.8	3409.8	3994.5	4702.3	4623.9
47.5°	4249.6	4261.6	4038.2	3912.1	3719.6	3694.7	3636.2	3719.6	4356.9	4989.2	4847.2
50°	4665.6	4670.5	4403.5	4247.7	4057.1	4025.3	4002.5	4108.7	4731.1	5263.2	5074.6
52.5°	5131.1	5033.9	4773.8	4559.4	4376.7	4352.9	4340.0	4451.2	5141.1	5503.4	5224.5
55°	5716.8	5586.8	5320.7	4965.4	4699.3	4703.3	4658.6	4788.7	5486.5	5669.2	5370.4
57.5°	5972.9	6002.7	5953.1	5629.5	5162.9	5105.3	4995.1	5095.4	5815.1	5863.7	5485.5
60°	6455.4	6570.5	6463.3	6282.6	6144.7	5993.8	5455.7	5493.5	6114.9	6079.1	5498.4
62.5°	6488.1	6527.8	6866.3	6895.1	7029.1	7079.8	6634.0	5945.1	6386.9	6187.3	5542.1
65°	6166.5	6211.2	6619.2	6977.5	7715.1	7784.6	7643.6	6772.0	6607.2	6245.9	5507.4
67.5°	5339.6	5376.3	5839.9	6588.4	8019.8	8120.1	7983.1	7661.5	6684.7	6226.1	5354.5
70°	4567.3	4588.1	4973.3	6020.6	7810.4	7928.5	7873.9	7695.2	6681.7	6108.9	5017.0
72.5°	3587.5	3648.1	3958.8	4993.2	7281.3	7380.5	7396.4	7487.8	6512.0	5723.8	4262.5
75°	2601.8	2634.6	2987.0	3879.4	6284.6	6521.9	6800.8	7145.3	5873.7	4859.1	3151.7
77.5°	1833.5	1865.2	2196.8	2941.3	5086.5	5356.5	5860.8	6063.3	4765.8	3642.1	1658.8
80°	1207.1	1203.1	1518.8	2176.9	3816.8	4006.4	4380.7	4109.7	2765.6	1583.3	180.7
82.5°	708.8	748.5	972.8	1496.0	2667.3	2772.5	2762.6	2164.0	1097.9	163.8	92.3
85°	409.0	423.9	573.8	886.5	1470.2	1485.0	1330.2	839.8	272.0	73.5	54.6
87.5°	182.7	175.7	228.3	292.8	268.0	199.5	124.1	34.7	20.8	13.9	8.9
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°	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8	1659.8
2.5°	1646.8	1641.9	1666.7	1652.8	1664.7	1657.8	1651.8	1659.8	1674.6	1687.5	1679.6
5°	1659.8	1662.7	1682.6	1665.7	1681.6	1678.6	1670.7	1679.6	1703.4	1715.3	1714.4
7.5°	1674.6	1676.6	1697.5	1690.5	1697.5	1691.5	1704.4	1698.5	1719.3	1727.3	1722.3
10°	1692.5	1695.5	1714.4	1715.3	1718.3	1714.4	1720.3	1723.3	1735.2	1751.1	1741.2
12.5°	1731.2	1738.2	1752.1	1767.0	1765.0	1749.1	1754.1	1738.2	1749.1	1754.1	1762.0
15°	1784.8	1801.7	1809.6	1830.5	1811.6	1802.7	1783.8	1752.1	1742.1	1737.2	1729.2
17.5°	1842.4	1858.3	1873.2	1900.0	1869.2	1845.4	1812.6	1753.1	1708.4	1692.5	1685.6
20°	1906.9	1921.8	1948.6	1966.5	1920.8	1869.2	1816.6	1729.2	1640.9	1580.3	1587.3
22.5°	1979.4	2012.2	2030.0	2025.1	1960.5	1890.1	1799.7	1666.7	1553.5	1463.2	1457.2
25°	2079.7	2098.5	2105.5	2059.8	1982.4	1875.2	1743.1	1592.3	1434.4	1333.2	1318.3
27.5°	2184.9	2204.7	2168.0	2082.6	1975.4	1840.4	1679.6	1465.2	1296.4	1199.2	1188.2
30°	2319.9	2314.9	2210.7	2075.7	1935.7	1757.0	1563.5	1335.1	1179.3	1089.0	1084.0
32.5°	2466.8	2430.1	2245.4	2041.9	1860.3	1647.8	1415.6	1212.1	1091.9	1001.6	997.6
35°	2814.2	2645.5	2296.1	1999.2	1749.1	1497.0	1278.6	1119.7	1022.5	920.2	900.4
37.5°	3324.5	3052.5	2400.3	1955.6	1622.0	1348.1	1164.4	1051.2	958.9	849.7	830.9
40°	3800.0	3466.4	2582.9	1922.8	1507.9	1227.9	1086.0	1003.6	914.3	805.1	781.2
42.5°	4137.5	3788.0	2802.3	1869.2	1393.7	1132.6	1053.2	985.7	902.3	801.1	782.2
45°	4409.5	4066.0	3019.7	1808.7	1259.7	1051.2	1019.5	970.8	887.5	789.2	767.3
47.5°	4601.1	4240.7	3170.6	1740.2	1131.6	1001.6	990.7	947.0	864.6	772.3	758.4
50°	4798.6	4436.3	3273.8	1669.7	1016.5	963.9	951.0	893.4	818.0	735.6	720.7
52.5°	4927.6	4531.6	3333.4	1655.8	918.2	912.3	896.4	841.8	770.3	681.0	663.1
55°	5025.9	4615.9	3324.5	1574.4	829.9	844.8	834.8	794.1	731.6	644.2	632.3
57.5°	5049.7	4628.8	3243.1	1322.2	746.5	754.4	759.4	767.3	706.8	634.3	614.5
60°	5118.2	4568.3	3099.1	951.0	648.2	668.1	707.8	714.7	673.0	590.6	578.7
62.5°	5074.6	4527.6	2786.4	670.1	578.7	619.4	657.2	657.2	599.6	523.1	515.2
65°	4998.1	4366.8	2179.9	528.1	542.0	583.7	618.4	594.6	545.0	473.5	468.5
67.5°	4803.6	3974.7	1301.4	475.5	516.2	555.9	580.7	545.0	498.3	427.8	419.9
70°	4244.7	3167.6	495.3	450.7	490.4	518.2	534.1	497.3	451.7	381.2	374.2
72.5°	3370.1	1981.4	314.7	419.9	457.6	482.4	492.4	449.7	377.2	296.8	288.9
75°	2028.0	565.8	273.0	363.3	403.0	445.7	428.8	373.2	318.6	249.2	244.2
77.5°	513.2	171.7	243.2	292.8	327.6	378.2	377.2	336.5	277.9	203.5	195.6
80°	123.1	120.1	197.5	216.4	247.2	289.9	285.9	279.9	220.4	141.0	116.1
82.5°	78.4	83.4	134.0	121.1	141.0	168.8	191.6	180.7	164.8	86.4	77.4
85°	52.6	66.5	65.5	45.7	63.5	95.3	124.1	113.2	93.3	53.6	47.6
87.5°	7.9	8.9	11.9	17.9	27.8	46.7	61.5	60.6	45.7	33.8	31.8
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)