

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: P509153

Luminaire Tested: **VERD-CA2-120-722-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-722-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14056 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

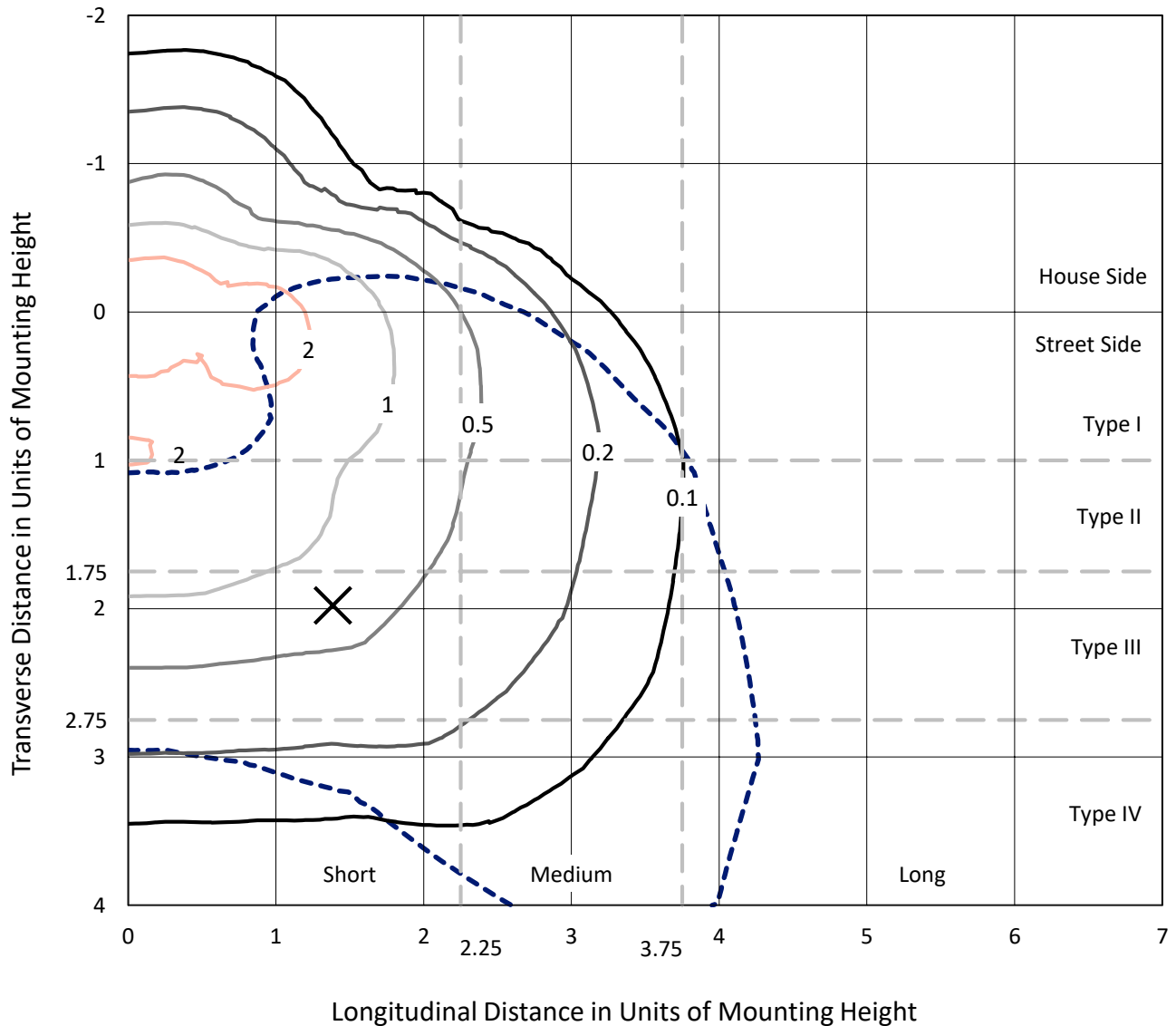
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

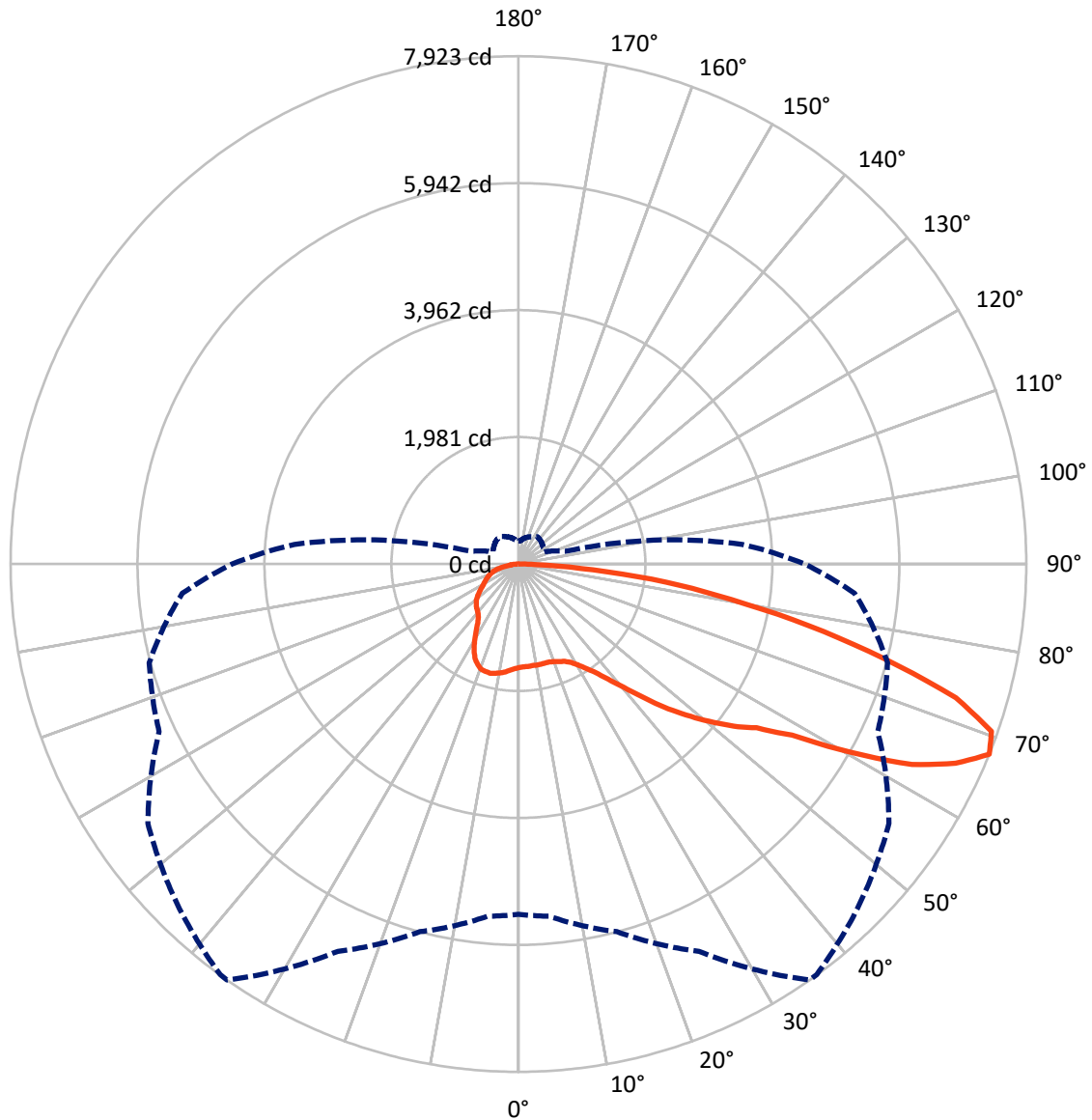
✕ Max cd
 - - - 1/2 Max cd



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 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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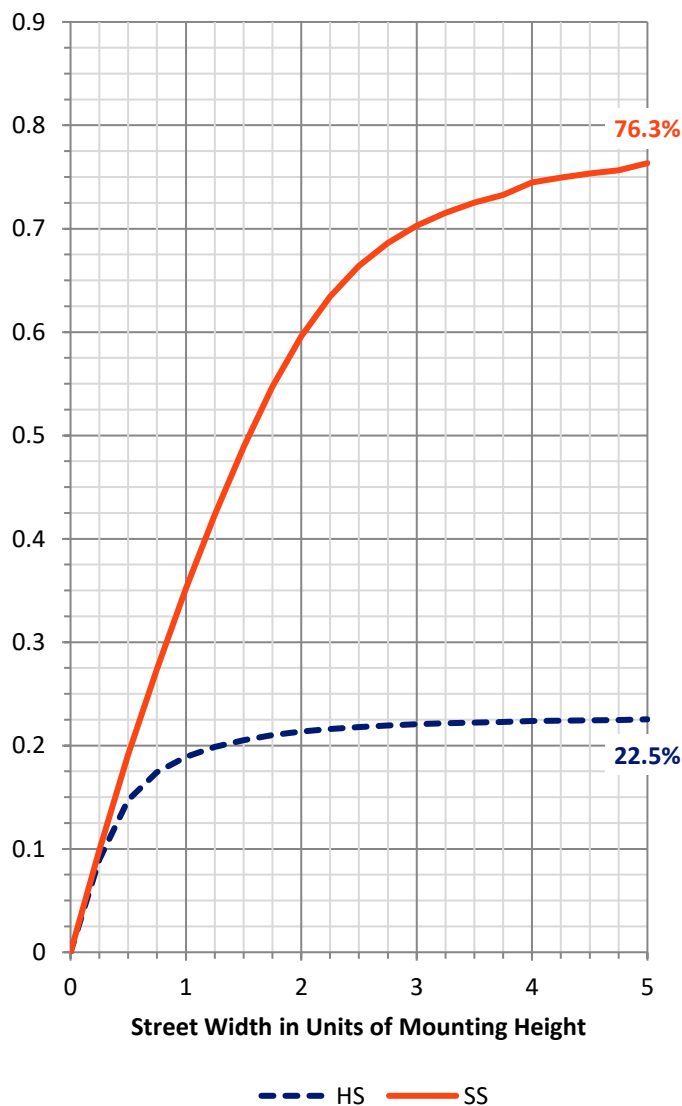
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3202.3	0.0	3202.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10853.7	0.0	10853.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	14056.0	0.0	14056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	1.1
10°-20°	479.5	3.4
20°-30°	800.2	5.7
30°-40°	1231.2	8.8
40°-50°	2029.0	14.4
50°-60°	2898.0	20.6
60°-70°	3608.2	25.7
70°-80°	2435.0	17.3
80°-90°	418.5	3.0
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°	14056.0	100.0
0°-180°	14056.0	100.0

Coefficient of Utilization



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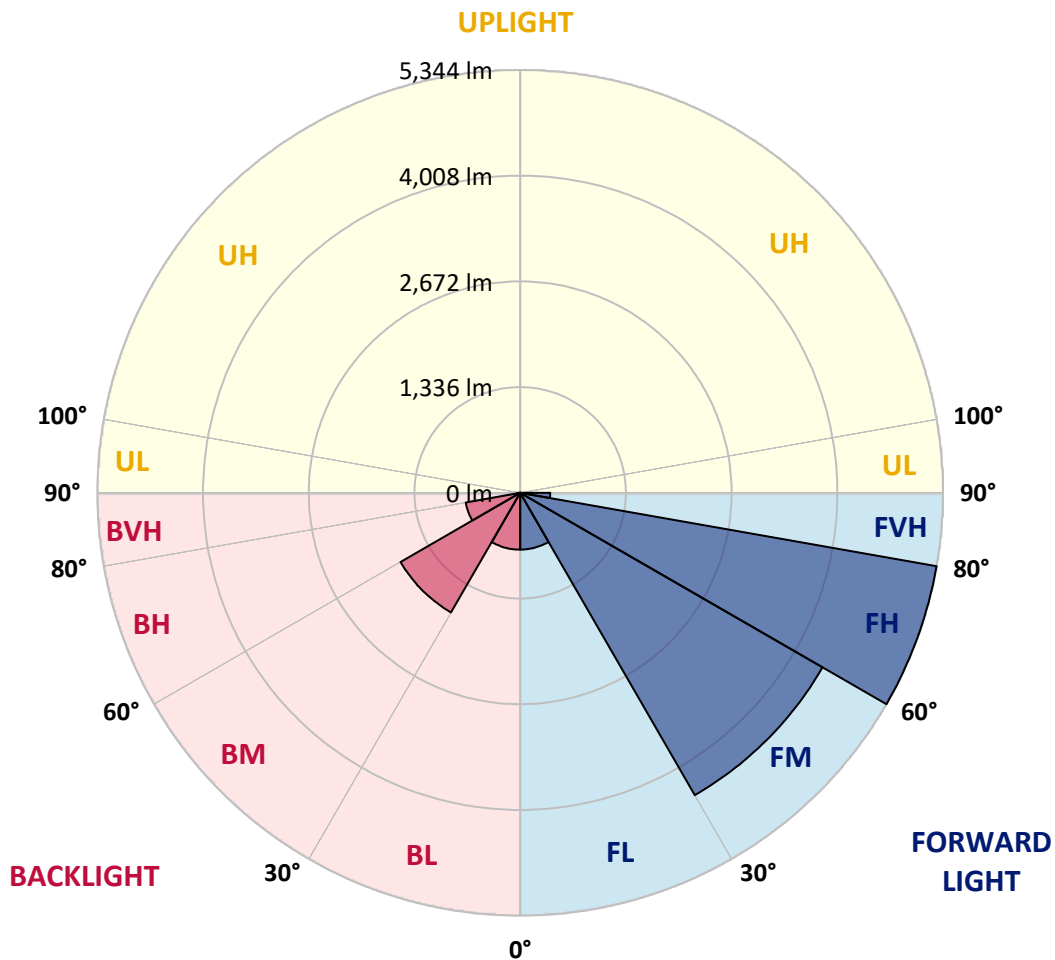
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.3	5.1			
FM	(30°-60°)	4412.3	31.4			
FH	(60°-80°)	5344.2	38.0			G3/7500
FVH	(80°-90°)	379.9	2.7			G3/500
BL	(0°-30°)	718.7	5.1	B2/1000		
BM	(30°-60°)	1745.9	12.4	B2/2500		
BH	(60°-80°)	699.0	5.0	B2/1000		G2/1000
BVH	(80°-90°)	38.6	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°	36°	45°	55°	65°	75°	85°
0°	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2
2.5°	1592.5	1607.6	1606.1	1603.1	1604.6	1606.1	1598.5	1594.0	1600.1	1601.6	1609.2
5°	1591.0	1603.1	1601.6	1601.6	1606.1	1604.6	1592.5	1583.4	1594.0	1601.6	1609.2
7.5°	1589.5	1600.1	1600.1	1595.5	1598.5	1598.5	1592.5	1598.5	1598.5	1610.7	1619.8
10°	1587.9	1597.0	1597.0	1598.5	1603.1	1604.6	1604.6	1609.2	1625.8	1630.4	1648.5
12.5°	1569.8	1577.3	1583.4	1592.5	1601.6	1604.6	1612.2	1625.8	1647.0	1657.6	1678.9
15°	1554.6	1565.2	1575.8	1584.9	1598.5	1601.6	1618.2	1641.0	1663.7	1686.4	1718.2
17.5°	1560.7	1574.3	1586.4	1594.0	1604.6	1607.6	1624.3	1654.6	1691.0	1724.3	1768.3
20°	1574.3	1589.5	1601.6	1610.7	1624.3	1627.3	1641.0	1669.8	1716.7	1768.3	1818.3
22.5°	1607.6	1618.2	1631.9	1636.4	1651.6	1654.6	1663.7	1692.5	1753.1	1818.3	1881.9
25°	1637.9	1650.1	1660.7	1665.2	1681.9	1684.9	1701.6	1725.8	1797.0	1871.3	1963.7
27.5°	1677.3	1689.5	1703.1	1707.6	1736.4	1739.5	1747.0	1783.4	1854.6	1941.0	2056.1
30°	1753.1	1760.7	1775.8	1794.0	1822.8	1825.8	1842.5	1880.4	1931.9	2038.0	2191.0
32.5°	1868.3	1878.9	1872.8	1897.0	1939.5	1939.5	1997.0	2060.7	2124.3	2198.6	2401.6
35°	2089.5	2083.4	2077.4	2056.1	2081.9	2091.0	2171.3	2278.9	2456.2	2665.3	2865.3
37.5°	2363.7	2362.2	2330.4	2281.9	2280.4	2283.4	2356.2	2538.0	2819.8	3285.0	3500.1
40°	2785.0	2797.1	2685.0	2584.9	2528.9	2516.8	2574.3	2803.1	3181.9	3801.7	3948.6
42.5°	3206.2	3180.4	3089.5	2927.4	2833.4	2825.9	2836.5	3036.5	3533.5	4219.9	4272.9
45°	3578.9	3598.6	3456.2	3357.7	3185.0	3188.0	3141.0	3324.4	3882.0	4515.3	4524.4
47.5°	3959.2	3974.4	3797.1	3685.0	3519.8	3519.8	3445.6	3591.0	4192.6	4797.2	4779.0
50°	4365.3	4400.2	4177.4	4007.7	3856.2	3850.2	3827.4	3918.3	4498.7	5035.0	4962.3
52.5°	4913.8	4794.1	4583.5	4353.2	4203.2	4185.0	4163.8	4229.0	4850.2	5229.0	5080.5
55°	5480.5	5318.4	5103.2	4794.1	4510.8	4536.5	4483.5	4557.8	5172.9	5460.8	5235.1
57.5°	5824.5	5885.1	5768.4	5503.2	5036.6	5032.0	4832.0	4871.4	5462.3	5656.3	5398.7
60°	6186.6	6271.5	6350.2	6192.7	5971.4	5871.4	5357.8	5204.7	5788.1	5798.7	5380.5
62.5°	6376.0	6359.3	6701.8	6720.0	6891.2	6903.3	6401.8	5636.6	5980.5	5918.4	5444.2
65°	6038.1	6047.2	6610.9	6904.8	7494.2	7529.1	7345.7	6395.7	6142.7	5974.5	5371.4
67.5°	5465.4	5516.9	5939.6	6666.9	7923.0	7917.0	7520.0	7056.3	6185.1	5962.4	5265.4
70°	4469.9	4524.4	4957.8	6013.9	7829.1	7779.1	7445.7	7109.4	6148.7	5853.3	4736.5
72.5°	3428.9	3421.3	3869.8	4803.2	7138.2	7186.6	7065.4	6735.1	5974.5	5386.6	3880.5
75°	2416.8	2378.9	2777.4	3641.1	5886.6	6065.4	6479.0	6388.1	5315.4	4433.5	2594.0
77.5°	1586.4	1644.0	1962.2	2692.5	4629.0	4779.0	5350.2	5169.9	3933.5	2828.9	936.4
80°	1007.6	1059.1	1316.7	1922.8	3365.3	3433.5	3900.2	3288.0	2101.6	933.4	130.3
82.5°	612.1	619.7	848.5	1300.1	2321.3	2321.3	2456.2	1838.0	822.8	121.2	84.9
85°	325.8	344.0	457.6	701.5	1169.7	1257.6	1113.7	701.5	159.1	66.7	51.5
87.5°	103.0	104.5	150.0	271.2	251.5	259.1	86.4	36.4	18.2	12.1	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°	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2	1615.2
2.5°	1612.2	1613.7	1622.8	1627.3	1628.9	1624.3	1634.9	1650.1	1645.5	1662.2	1656.1
5°	1612.2	1619.8	1631.9	1630.4	1642.5	1648.5	1660.7	1675.8	1671.3	1695.5	1686.4
7.5°	1624.3	1636.4	1645.5	1663.7	1672.8	1669.8	1697.0	1709.2	1703.1	1721.3	1712.2
10°	1654.6	1668.2	1680.4	1700.1	1713.7	1707.6	1722.8	1730.4	1719.8	1737.9	1733.4
12.5°	1689.5	1704.6	1728.9	1742.5	1753.1	1742.5	1742.5	1737.9	1722.8	1739.5	1728.9
15°	1728.9	1748.6	1781.9	1797.0	1794.0	1775.8	1759.2	1727.3	1686.4	1694.0	1678.9
17.5°	1781.9	1806.1	1844.0	1853.1	1841.0	1797.0	1753.1	1695.5	1622.8	1604.6	1592.5
20°	1839.5	1866.7	1919.8	1915.2	1888.0	1810.7	1741.0	1651.6	1537.9	1486.4	1462.2
22.5°	1918.3	1945.5	1995.5	1968.3	1912.2	1810.7	1692.5	1568.2	1433.4	1357.6	1341.0
25°	2004.6	2042.5	2063.7	2003.1	1906.1	1769.8	1627.3	1463.7	1291.0	1209.1	1192.5
27.5°	2110.7	2136.4	2115.2	2007.7	1875.8	1701.6	1521.3	1324.3	1159.1	1089.4	1065.2
30°	2234.9	2238.0	2154.6	1998.6	1807.6	1604.6	1391.0	1183.4	1056.1	990.9	975.8
32.5°	2400.1	2369.8	2189.5	1956.1	1715.2	1471.3	1245.5	1089.4	983.4	901.6	880.3
35°	2830.4	2692.5	2266.8	1907.7	1603.1	1322.8	1119.7	1004.6	915.2	822.8	806.1
37.5°	3388.0	3144.1	2403.1	1857.6	1475.8	1186.4	1036.4	954.6	878.8	775.8	753.1
40°	3806.2	3524.4	2613.7	1803.1	1359.1	1089.4	990.9	934.9	851.5	757.6	733.4
42.5°	4125.9	3841.1	2830.4	1742.5	1250.0	1013.7	959.1	921.2	840.9	753.1	733.4
45°	4347.1	4062.3	3016.8	1671.3	1110.6	948.5	934.9	898.5	821.2	736.4	716.7
47.5°	4571.4	4218.3	3121.3	1597.0	994.0	912.2	900.0	859.1	787.9	707.6	692.5
50°	4766.9	4395.6	3210.7	1521.3	901.6	868.2	860.6	806.1	737.9	662.1	642.4
52.5°	4822.9	4438.1	3174.4	1516.7	818.2	821.2	806.1	762.2	698.5	616.7	597.0
55°	4950.2	4556.2	3086.5	1377.3	737.9	748.5	745.5	722.8	663.7	587.9	572.7
57.5°	5004.7	4466.8	2959.2	1024.3	654.6	663.7	689.4	689.4	637.9	569.7	556.1
60°	4997.2	4469.9	2731.9	716.7	572.7	597.0	633.4	633.4	592.4	525.8	509.1
62.5°	4939.6	4354.7	2354.6	547.0	521.2	556.1	598.5	571.2	534.9	460.6	448.5
65°	4844.1	4038.0	1631.9	480.3	492.4	533.4	554.6	521.2	477.3	410.6	403.0
67.5°	4462.3	3507.7	759.1	439.4	468.2	500.0	518.2	471.2	425.8	365.2	356.1
70°	3798.6	2566.8	327.3	407.6	439.4	462.1	480.3	431.8	383.3	330.3	327.3
72.5°	2762.2	1369.8	272.7	357.6	390.9	415.2	437.9	389.4	342.4	280.3	280.3
75°	1330.4	227.3	234.9	297.0	327.3	375.8	386.4	318.2	265.2	213.6	209.1
77.5°	163.6	147.0	203.0	236.4	262.1	287.9	313.6	275.8	228.8	175.8	166.7
80°	103.0	103.0	160.6	165.2	178.8	206.1	230.3	215.2	180.3	101.5	93.9
82.5°	75.8	81.8	106.1	78.8	93.9	118.2	134.9	153.0	130.3	71.2	66.7
85°	48.5	53.0	50.0	39.4	51.5	78.8	107.6	106.1	87.9	53.0	50.0
87.5°	10.6	10.6	10.6	9.1	10.6	13.6	25.8	50.0	36.4	28.8	27.3
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)