

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: P509097

Luminaire Tested: **VERD-CA2-100-760-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509097
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-CA2-100-760-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1370mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13977 lumens
Efficiency: N/A
Efficacy: 135.2 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

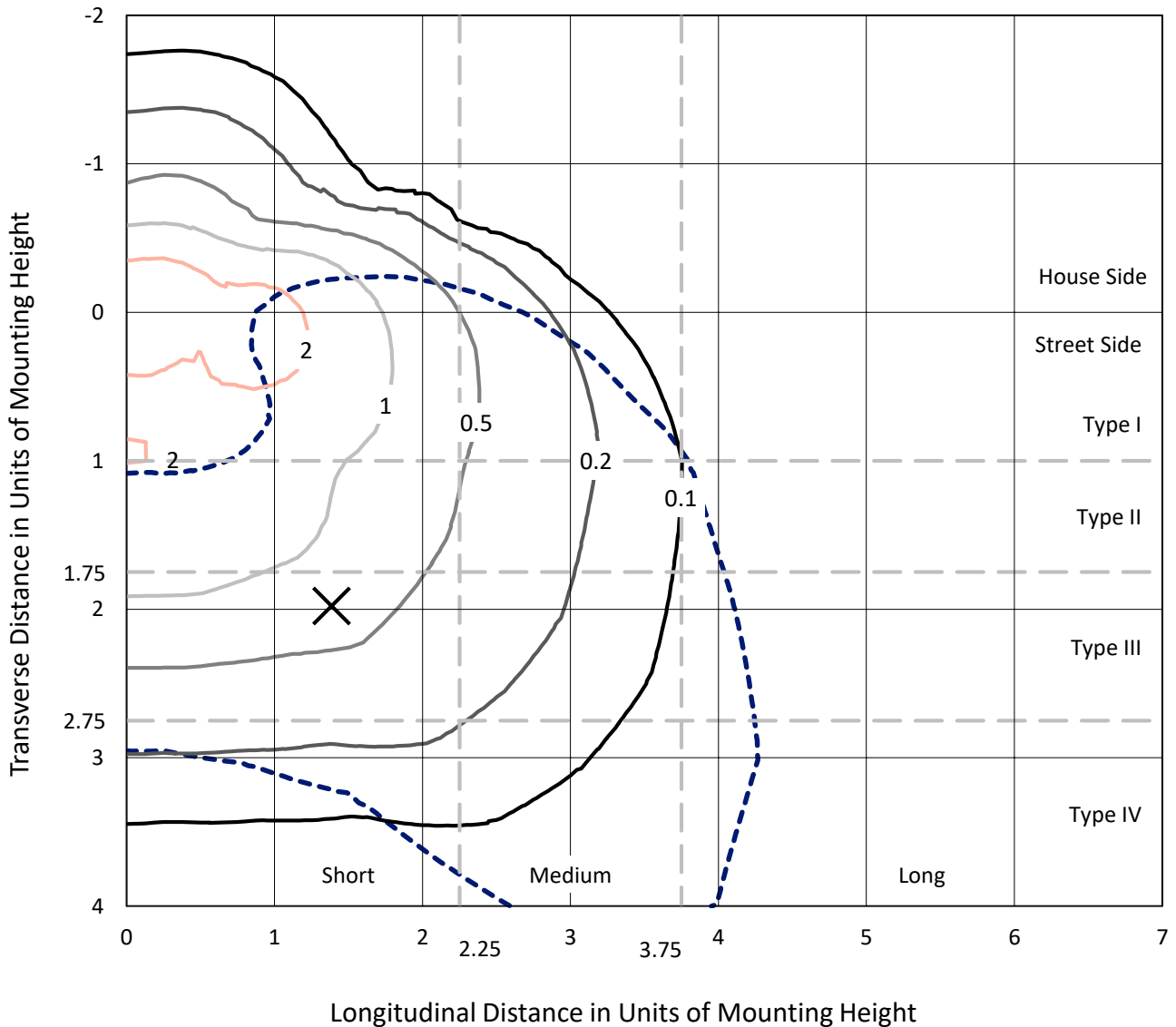
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

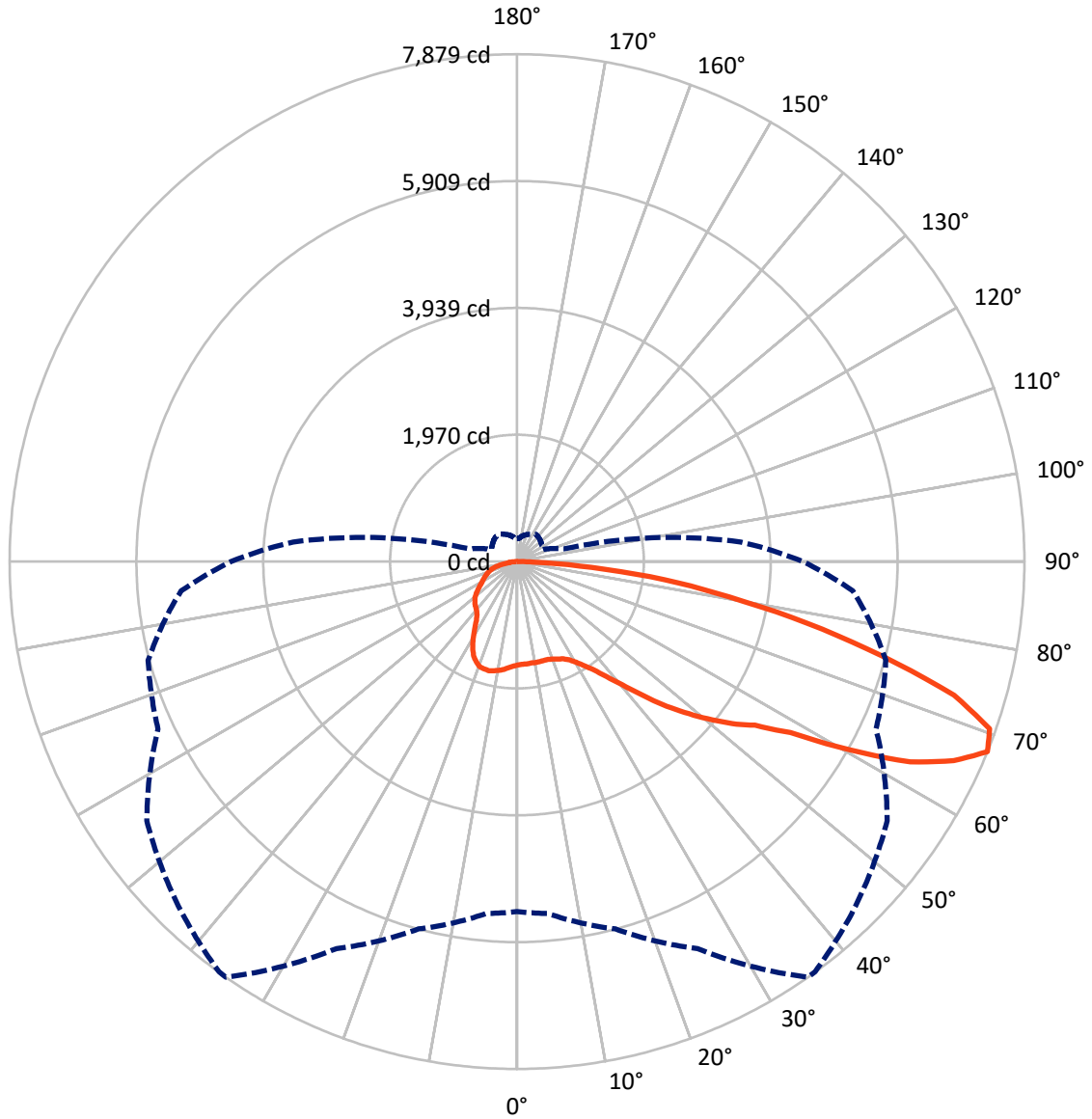
× Max cd
 - - - 1/2 Max cd



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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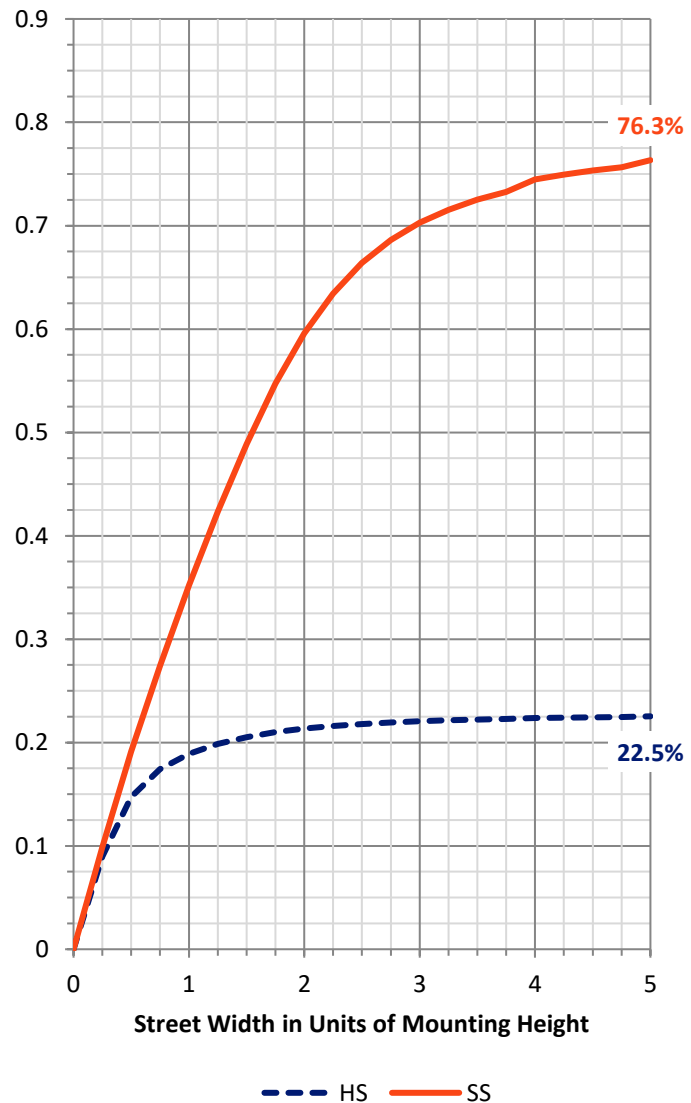
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3184.3	0.0	3184.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10792.7	0.0	10792.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	13977.0	0.0	13977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.1
10°-20°	476.8	3.4
20°-30°	795.7	5.7
30°-40°	1224.3	8.8
40°-50°	2017.6	14.4
50°-60°	2881.8	20.6
60°-70°	3588.0	25.7
70°-80°	2421.3	17.3
80°-90°	416.2	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°	13977.0	100.0
0°-180°	13977.0	100.0

Coefficient of Utilization



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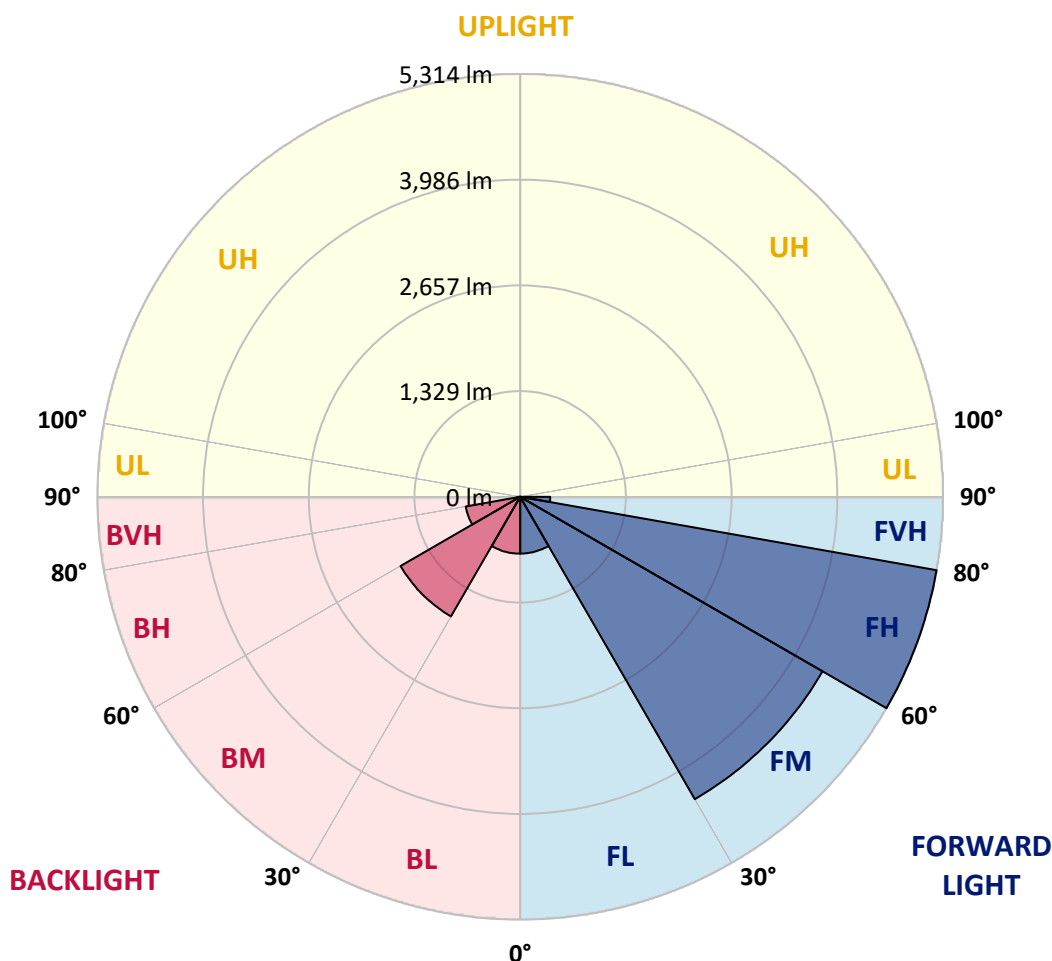
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.3	5.1			
FM	(30°-60°)	4387.5	31.4			
FH	(60°-80°)	5314.1	38.0			G3/7500
FVH	(80°-90°)	377.8	2.7			G3/500
BL	(0°-30°)	714.7	5.1	B2/1000		
BM	(30°-60°)	1736.1	12.4	B2/2500		
BH	(60°-80°)	695.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	38.4	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°	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1
2.5°	1583.5	1598.6	1597.1	1594.1	1595.6	1597.1	1589.6	1585.0	1591.1	1592.6	1600.1
5°	1582.0	1594.1	1592.6	1592.6	1597.1	1595.6	1583.5	1574.5	1585.0	1592.6	1600.1
7.5°	1580.5	1591.1	1591.1	1586.5	1589.6	1589.6	1583.5	1589.6	1589.6	1601.6	1610.7
10°	1579.0	1588.1	1588.1	1589.6	1594.1	1595.6	1595.6	1600.1	1616.7	1621.2	1639.3
12.5°	1560.9	1568.5	1574.5	1583.5	1592.6	1595.6	1603.1	1616.7	1637.8	1648.3	1669.4
15°	1545.9	1556.4	1567.0	1576.0	1589.6	1592.6	1609.1	1631.8	1654.4	1677.0	1708.6
17.5°	1551.9	1565.5	1577.5	1585.0	1595.6	1598.6	1615.2	1645.3	1681.5	1714.6	1758.3
20°	1565.5	1580.5	1592.6	1601.6	1615.2	1618.2	1631.8	1660.4	1707.1	1758.3	1808.0
22.5°	1598.6	1609.1	1622.7	1627.2	1642.3	1645.3	1654.4	1683.0	1743.2	1808.0	1871.3
25°	1628.7	1640.8	1651.3	1655.9	1672.4	1675.4	1692.0	1716.1	1786.9	1860.8	1952.7
27.5°	1667.9	1680.0	1693.5	1698.0	1726.7	1729.7	1737.2	1773.4	1844.2	1930.1	2044.6
30°	1743.2	1750.8	1765.8	1783.9	1812.6	1815.6	1832.1	1869.8	1921.0	2026.5	2178.7
32.5°	1857.8	1868.3	1862.3	1886.4	1928.6	1928.6	1985.8	2049.1	2112.4	2186.2	2388.1
35°	2077.7	2071.7	2065.7	2044.6	2070.2	2079.2	2159.1	2266.1	2442.4	2650.3	2849.2
37.5°	2350.4	2348.9	2317.3	2269.1	2267.6	2270.6	2342.9	2523.7	2804.0	3266.5	3480.5
40°	2769.3	2781.4	2669.9	2570.4	2514.7	2502.6	2559.9	2787.4	3164.1	3780.3	3926.4
42.5°	3188.2	3162.6	3072.2	2910.9	2817.5	2810.0	2820.5	3019.4	3513.6	4196.1	4248.9
45°	3558.8	3578.4	3436.8	3338.8	3167.1	3170.1	3123.4	3305.7	3860.2	4489.9	4499.0
47.5°	3937.0	3952.1	3775.8	3664.3	3500.1	3500.1	3426.2	3570.9	4169.0	4770.2	4752.1
50°	4340.8	4375.4	4154.0	3985.2	3834.5	3828.5	3805.9	3896.3	4473.4	5006.7	4934.4
52.5°	4886.2	4767.2	4557.8	4328.7	4179.6	4161.5	4140.4	4205.2	4822.9	5199.6	5051.9
55°	5449.7	5288.5	5074.5	4767.2	4485.4	4511.0	4458.3	4532.1	5143.9	5430.1	5205.6
57.5°	5791.7	5852.0	5736.0	5472.3	5008.3	5003.7	4804.8	4844.0	5431.6	5624.5	5368.4
60°	6151.8	6236.2	6314.6	6157.9	5937.9	5838.4	5327.7	5175.5	5755.6	5766.1	5350.3
62.5°	6340.2	6323.6	6664.1	6682.2	6852.4	6864.5	6365.8	5604.9	5946.9	5885.1	5413.6
65°	6004.2	6013.2	6573.7	6866.0	7452.1	7486.8	7304.5	6359.8	6108.1	5940.9	5341.2
67.5°	5434.6	5485.9	5906.2	6629.5	7878.5	7872.5	7477.7	7016.7	6150.3	5928.8	5235.8
70°	4444.7	4499.0	4929.9	5980.1	7785.1	7735.4	7403.9	7069.4	6114.2	5820.4	4709.9
72.5°	3409.6	3402.1	3848.1	4776.2	7098.0	7146.3	7025.7	6697.3	5940.9	5356.3	3858.6
75°	2403.2	2365.5	2761.8	3620.6	5853.5	6031.3	6442.6	6352.2	5285.5	4408.6	2579.5
77.5°	1577.5	1634.8	1951.2	2677.4	4603.0	4752.1	5320.1	5140.8	3911.4	2813.0	931.1
80°	1002.0	1053.2	1309.3	1912.0	3346.4	3414.2	3878.2	3269.5	2089.8	928.1	129.6
82.5°	608.7	616.2	843.7	1292.7	2308.3	2308.3	2442.4	1827.6	818.1	120.5	84.4
85°	323.9	342.0	455.0	697.6	1163.2	1250.6	1107.4	697.6	158.2	66.3	51.2
87.5°	102.5	104.0	149.2	269.7	250.1	257.6	85.9	36.2	18.1	12.1	10.5
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°	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1
2.5°	1603.1	1604.6	1613.7	1618.2	1619.7	1615.2	1625.7	1640.8	1636.3	1652.8	1646.8
5°	1603.1	1610.7	1622.7	1621.2	1633.3	1639.3	1651.3	1666.4	1661.9	1686.0	1677.0
7.5°	1615.2	1627.2	1636.3	1654.4	1663.4	1660.4	1687.5	1699.6	1693.5	1711.6	1702.6
10°	1645.3	1658.9	1670.9	1690.5	1704.1	1698.0	1713.1	1720.6	1710.1	1728.2	1723.7
12.5°	1680.0	1695.0	1719.1	1732.7	1743.2	1732.7	1732.7	1728.2	1713.1	1729.7	1719.1
15°	1719.1	1738.7	1771.9	1786.9	1783.9	1765.8	1749.3	1717.6	1677.0	1684.5	1669.4
17.5°	1771.9	1796.0	1833.6	1842.7	1830.6	1786.9	1743.2	1686.0	1613.7	1595.6	1583.5
20°	1829.1	1856.2	1909.0	1904.5	1877.3	1800.5	1731.2	1642.3	1529.3	1478.1	1454.0
22.5°	1907.5	1934.6	1984.3	1957.2	1901.4	1800.5	1683.0	1559.4	1425.3	1350.0	1333.4
25°	1993.4	2031.0	2052.1	1991.9	1895.4	1759.8	1618.2	1455.5	1283.7	1202.3	1185.8
27.5°	2098.8	2124.4	2103.3	1996.4	1865.3	1692.0	1512.7	1316.9	1152.6	1083.3	1059.2
30°	2222.4	2225.4	2142.5	1987.3	1797.5	1595.6	1383.1	1176.7	1050.2	985.4	970.3
32.5°	2386.6	2356.5	2177.2	1945.1	1705.6	1463.0	1238.5	1083.3	977.8	896.5	875.4
35°	2814.5	2677.4	2254.0	1896.9	1594.1	1315.3	1113.4	998.9	910.0	818.1	801.6
37.5°	3369.0	3126.4	2389.6	1847.2	1467.5	1179.7	1030.6	949.2	873.9	771.4	748.8
40°	3784.8	3504.6	2599.0	1793.0	1351.5	1083.3	985.4	929.6	846.8	753.3	729.2
42.5°	4102.7	3819.5	2814.5	1732.7	1243.0	1008.0	953.7	916.1	836.2	748.8	729.2
45°	4322.7	4039.4	2999.8	1661.9	1104.4	943.2	929.6	893.5	816.6	732.3	712.7
47.5°	4545.7	4194.6	3103.8	1588.1	988.4	907.0	895.0	854.3	783.5	703.6	688.6
50°	4740.1	4370.9	3192.7	1512.7	896.5	863.3	855.8	801.6	733.8	658.4	638.8
52.5°	4795.8	4413.1	3156.5	1508.2	813.6	816.6	801.6	757.9	694.6	613.2	593.6
55°	4922.4	4530.6	3069.1	1369.6	733.8	744.3	741.3	718.7	659.9	584.6	569.5
57.5°	4976.6	4441.7	2942.6	1018.5	650.9	659.9	685.5	685.5	634.3	566.5	553.0
60°	4969.1	4444.7	2716.6	712.7	569.5	593.6	629.8	629.8	589.1	522.8	506.2
62.5°	4911.8	4330.2	2341.4	543.9	518.3	553.0	595.1	568.0	531.9	458.0	446.0
65°	4816.9	4015.3	1622.7	477.6	489.7	530.4	551.5	518.3	474.6	408.3	400.8
67.5°	4437.2	3488.0	754.9	436.9	465.6	497.2	515.3	468.6	423.4	363.1	354.1
70°	3777.3	2552.3	325.4	405.3	436.9	459.5	477.6	429.4	381.2	328.5	325.4
72.5°	2746.7	1362.1	271.2	355.6	388.7	412.8	435.4	387.2	340.5	278.7	278.7
75°	1322.9	226.0	233.5	295.3	325.4	373.7	384.2	316.4	263.7	212.4	207.9
77.5°	162.7	146.1	201.9	235.0	260.7	286.3	311.9	274.2	227.5	174.8	165.7
80°	102.5	102.5	159.7	164.2	177.8	204.9	229.0	214.0	179.3	100.9	93.4
82.5°	75.3	81.4	105.5	78.3	93.4	117.5	134.1	152.2	129.6	70.8	66.3
85°	48.2	52.7	49.7	39.2	51.2	78.3	107.0	105.5	87.4	52.7	49.7
87.5°	10.5	10.5	10.5	9.0	10.5	13.6	25.6	49.7	36.2	28.6	27.1
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)