

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: P509113

Luminaire Tested: **VERD-CA2-110-727-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509113
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-CA2-110-727-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13691 lumens
Efficiency: N/A
Efficacy: 120.5 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

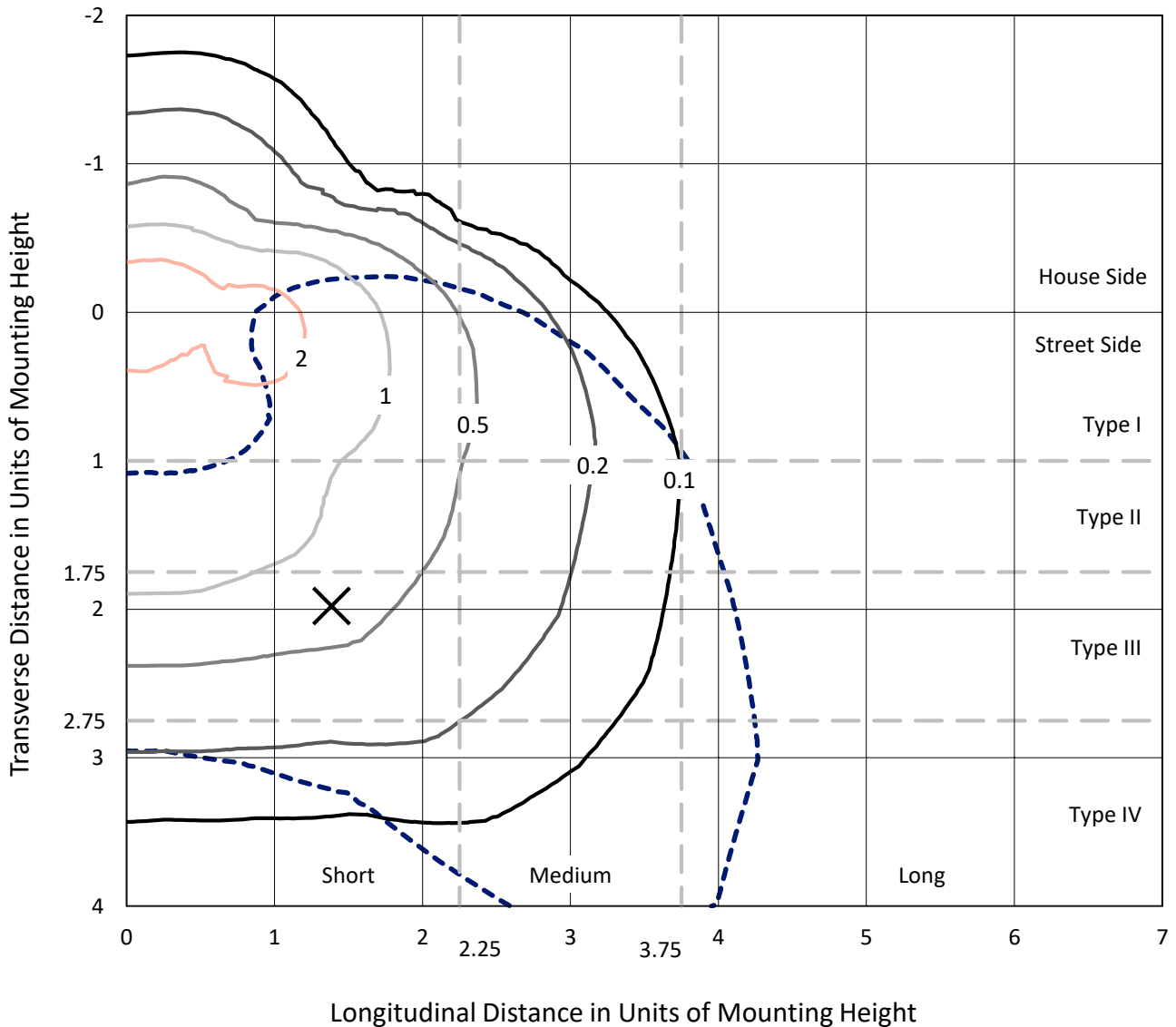
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

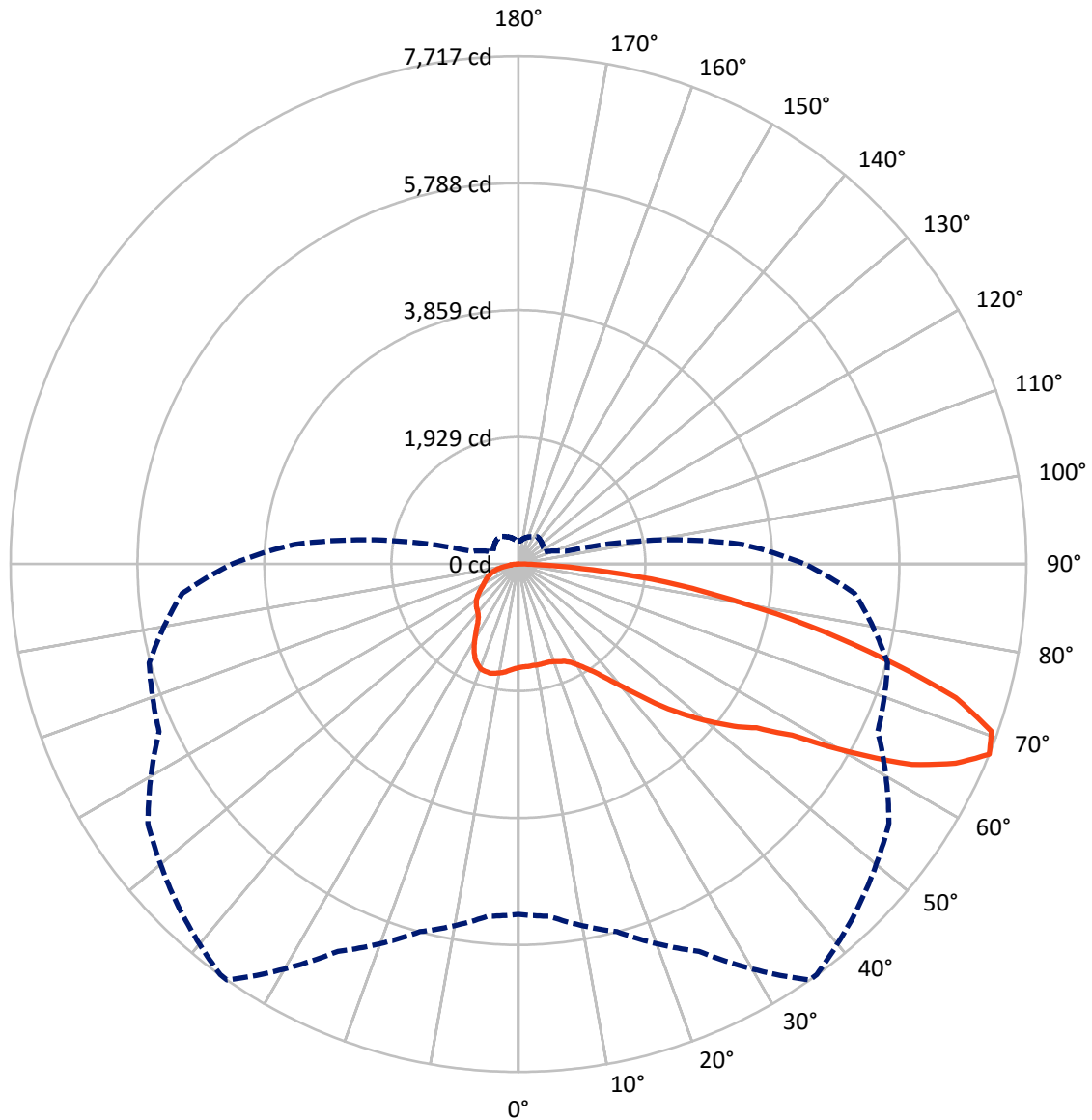
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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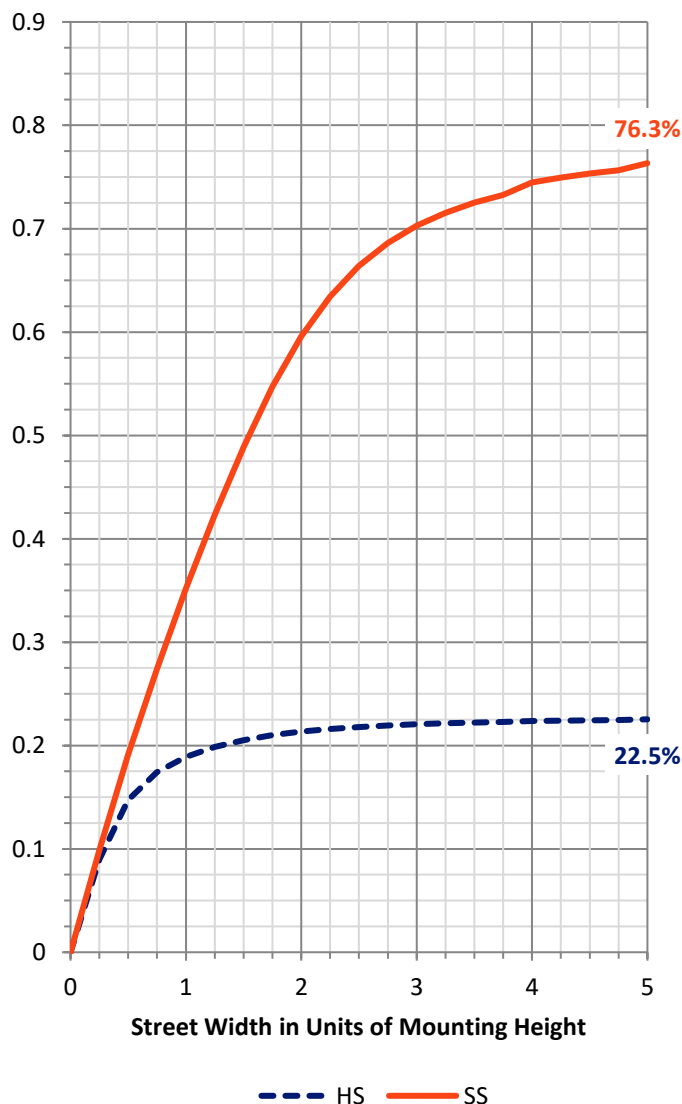
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3119.1	0.0	3119.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10571.9	0.0	10571.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	13691.0	0.0	13691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.1
10°-20°	467.0	3.4
20°-30°	779.4	5.7
30°-40°	1199.2	8.8
40°-50°	1976.3	14.4
50°-60°	2822.8	20.6
60°-70°	3514.5	25.7
70°-80°	2371.7	17.3
80°-90°	407.7	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°	13691.0	100.0
0°-180°	13691.0	100.0

Coefficient of Utilization



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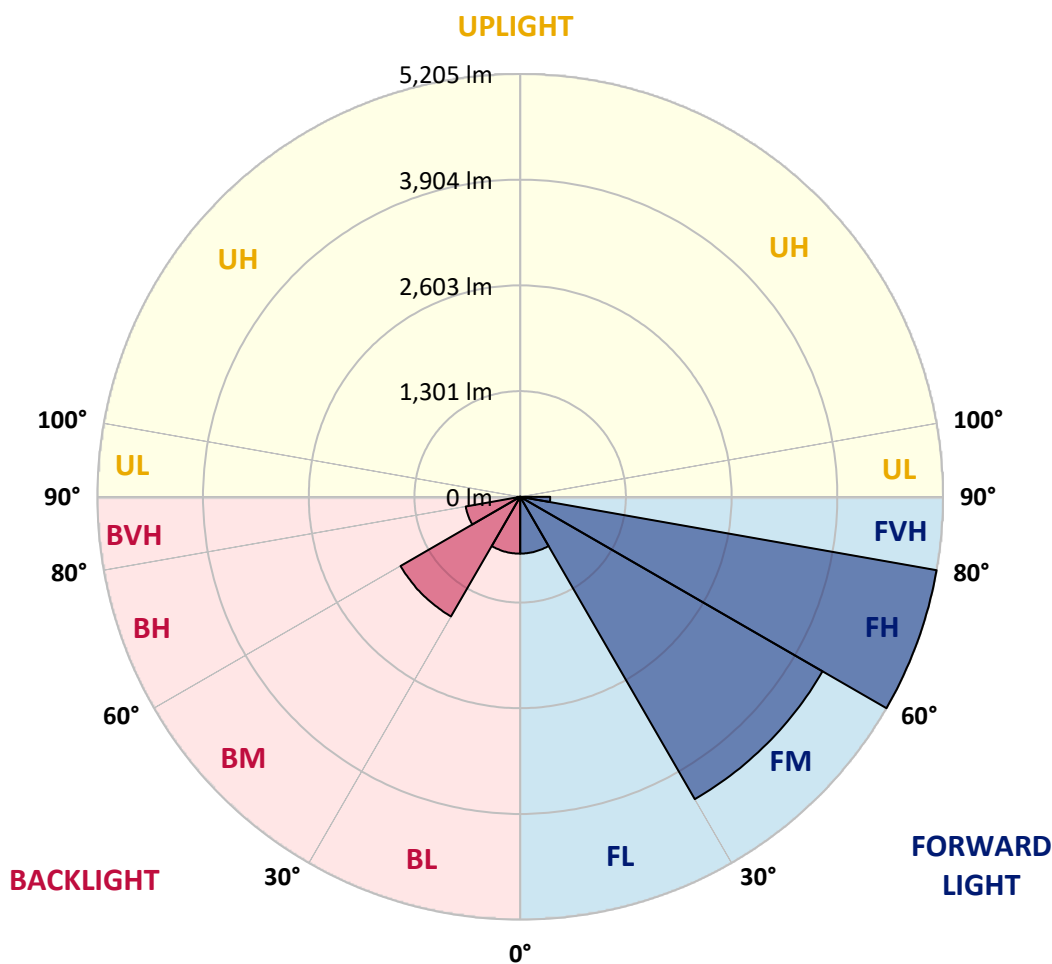
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.7	5.1			
FM	(30°-60°)	4297.8	31.4			
FH	(60°-80°)	5205.4	38.0			G3/7500
FVH	(80°-90°)	370.1	2.7			G3/500
BL	(0°-30°)	700.0	5.1	B2/1000		
BM	(30°-60°)	1700.6	12.4	B2/2500		
BH	(60°-80°)	680.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	37.6	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°	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3
2.5°	1551.1	1565.9	1564.4	1561.5	1562.9	1564.4	1557.0	1552.6	1558.5	1560.0	1567.4
5°	1549.7	1561.5	1560.0	1560.0	1564.4	1562.9	1551.1	1542.3	1552.6	1560.0	1567.4
7.5°	1548.2	1558.5	1558.5	1554.1	1557.0	1557.0	1551.1	1557.0	1557.0	1568.8	1577.7
10°	1546.7	1555.6	1555.6	1557.0	1561.5	1562.9	1562.9	1567.4	1583.6	1588.0	1605.7
12.5°	1529.0	1536.4	1542.3	1551.1	1560.0	1562.9	1570.3	1583.6	1604.3	1614.6	1635.3
15°	1514.2	1524.6	1534.9	1543.8	1557.0	1560.0	1576.2	1598.4	1620.5	1642.6	1673.6
17.5°	1520.1	1533.4	1545.2	1552.6	1562.9	1565.9	1582.1	1611.6	1647.1	1679.5	1722.3
20°	1533.4	1548.2	1560.0	1568.8	1582.1	1585.1	1598.4	1626.4	1672.2	1722.3	1771.0
22.5°	1565.9	1576.2	1589.5	1593.9	1608.7	1611.6	1620.5	1648.5	1707.6	1771.0	1833.0
25°	1595.4	1607.2	1617.5	1622.0	1638.2	1641.2	1657.4	1681.0	1750.4	1822.7	1912.7
27.5°	1633.8	1645.6	1658.9	1663.3	1691.3	1694.3	1701.7	1737.1	1806.5	1890.6	2002.7
30°	1707.6	1715.0	1729.7	1747.4	1775.5	1778.4	1794.7	1831.5	1881.7	1985.0	2134.1
32.5°	1819.7	1830.1	1824.2	1847.8	1889.1	1889.1	1945.2	2007.2	2069.2	2141.5	2339.2
35°	2035.2	2029.3	2023.4	2002.7	2027.8	2036.7	2114.9	2219.7	2392.4	2596.0	2790.9
37.5°	2302.3	2300.9	2269.9	2222.7	2221.2	2224.1	2295.0	2472.1	2746.6	3199.7	3409.2
40°	2712.6	2724.4	2615.2	2517.8	2463.2	2451.4	2507.5	2730.3	3099.3	3702.9	3846.1
42.5°	3122.9	3097.8	3009.3	2851.4	2759.9	2752.5	2762.8	2957.6	3441.7	4110.3	4161.9
45°	3486.0	3505.2	3366.4	3270.5	3102.3	3105.2	3059.5	3238.0	3781.2	4398.1	4406.9
47.5°	3856.4	3871.2	3698.5	3589.3	3428.4	3428.4	3356.1	3497.8	4083.7	4672.6	4654.9
50°	4252.0	4285.9	4069.0	3903.7	3756.1	3750.2	3728.0	3816.6	4381.8	4904.3	4833.5
52.5°	4786.2	4669.6	4464.5	4240.2	4094.0	4076.3	4055.7	4119.1	4724.2	5093.2	4948.6
55°	5338.2	5180.3	4970.7	4669.6	4393.6	4418.7	4367.1	4439.4	5038.6	5319.0	5099.1
57.5°	5673.2	5732.3	5618.6	5360.3	4905.8	4901.3	4706.5	4744.9	5320.5	5509.4	5258.5
60°	6026.0	6108.6	6185.3	6031.9	5816.4	5719.0	5218.7	5069.6	5637.8	5648.1	5240.8
62.5°	6210.4	6194.2	6527.7	6545.5	6712.2	6724.0	6235.5	5490.2	5825.2	5764.7	5302.8
65°	5881.3	5890.2	6439.2	6725.5	7299.6	7333.6	7155.0	6229.6	5983.2	5819.3	5231.9
67.5°	5323.4	5373.6	5785.4	6493.8	7717.3	7711.4	7324.7	6873.1	6024.5	5807.5	5128.6
70°	4353.8	4406.9	4829.0	5857.7	7625.8	7577.1	7252.4	6924.8	5989.1	5701.3	4613.6
72.5°	3339.9	3332.5	3769.4	4678.5	6952.8	7000.0	6882.0	6560.2	5819.3	5246.7	3779.7
75°	2354.0	2317.1	2705.3	3546.5	5733.7	5907.9	6310.8	6222.2	5177.3	4318.4	2526.7
77.5°	1545.2	1601.3	1911.2	2622.6	4508.8	4654.9	5211.3	5035.6	3831.3	2755.4	912.1
80°	981.4	1031.6	1282.5	1872.9	3277.9	3344.3	3798.9	3202.6	2047.0	909.1	126.9
82.5°	596.2	603.6	826.5	1266.3	2261.0	2261.0	2392.4	1790.2	801.4	118.1	82.6
85°	317.3	335.0	445.7	683.3	1139.4	1225.0	1084.8	683.3	155.0	64.9	50.2
87.5°	100.4	101.8	146.1	264.2	245.0	252.4	84.1	35.4	17.7	11.8	10.3
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°	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3
2.5°	1570.3	1571.8	1580.7	1585.1	1586.6	1582.1	1592.5	1607.2	1602.8	1619.0	1613.1
5°	1570.3	1577.7	1589.5	1588.0	1599.8	1605.7	1617.5	1632.3	1627.9	1651.5	1642.6
7.5°	1582.1	1593.9	1602.8	1620.5	1629.4	1626.4	1653.0	1664.8	1658.9	1676.6	1667.7
10°	1611.6	1624.9	1636.7	1655.9	1669.2	1663.3	1678.1	1685.4	1675.1	1692.8	1688.4
12.5°	1645.6	1660.3	1684.0	1697.2	1707.6	1697.2	1697.2	1692.8	1678.1	1694.3	1684.0
15°	1684.0	1703.1	1735.6	1750.4	1747.4	1729.7	1713.5	1682.5	1642.6	1650.0	1635.3
17.5°	1735.6	1759.2	1796.1	1805.0	1793.2	1750.4	1707.6	1651.5	1580.7	1562.9	1551.1
20°	1791.7	1818.3	1869.9	1865.5	1838.9	1763.7	1695.8	1608.7	1498.0	1447.8	1424.2
22.5°	1868.4	1895.0	1943.7	1917.1	1862.5	1763.7	1648.5	1527.5	1396.2	1322.4	1306.1
25°	1952.6	1989.5	2010.1	1951.1	1856.6	1723.8	1585.1	1425.7	1257.4	1177.7	1161.5
27.5°	2055.9	2081.0	2060.3	1955.5	1827.1	1657.4	1481.8	1289.9	1129.0	1061.1	1037.5
30°	2176.9	2179.9	2098.7	1946.7	1760.7	1562.9	1354.8	1152.7	1028.7	965.2	950.5
32.5°	2337.8	2308.3	2132.6	1905.3	1670.7	1433.1	1213.2	1061.1	957.8	878.1	857.5
35°	2756.9	2622.6	2207.9	1858.1	1561.5	1288.4	1090.7	978.5	891.4	801.4	785.2
37.5°	3300.0	3062.4	2340.7	1809.4	1437.5	1155.6	1009.5	929.8	856.0	755.6	733.5
40°	3707.4	3432.9	2545.9	1756.3	1323.9	1061.1	965.2	910.6	829.4	737.9	714.3
42.5°	4018.8	3741.3	2756.9	1697.2	1217.6	987.4	934.2	897.3	819.1	733.5	714.3
45°	4234.3	3956.8	2938.4	1627.9	1081.8	923.9	910.6	875.2	799.9	717.3	698.1
47.5°	4452.7	4108.8	3040.3	1555.6	968.2	888.5	876.7	836.8	767.4	689.2	674.5
50°	4643.1	4281.5	3127.4	1481.8	878.1	845.7	838.3	785.2	718.7	645.0	625.8
52.5°	4697.7	4322.8	3091.9	1477.3	797.0	799.9	785.2	742.4	680.4	600.7	581.5
55°	4821.6	4437.9	3006.3	1341.6	718.7	729.1	726.1	704.0	646.4	572.6	557.9
57.5°	4874.8	4350.8	2882.4	997.7	637.6	646.4	671.5	671.5	621.3	554.9	541.6
60°	4867.4	4353.8	2661.0	698.1	557.9	581.5	616.9	616.9	577.1	512.1	495.9
62.5°	4811.3	4241.6	2293.5	532.8	507.7	541.6	583.0	556.4	521.0	448.7	436.9
65°	4718.3	3933.2	1589.5	467.8	479.7	519.5	540.2	507.7	464.9	400.0	392.6
67.5°	4346.4	3416.6	739.4	428.0	456.0	487.0	504.7	459.0	414.7	355.7	346.8
70°	3700.0	2500.1	318.8	397.0	428.0	450.1	467.8	420.6	373.4	321.7	318.8
72.5°	2690.5	1334.2	265.7	348.3	380.8	404.4	426.5	379.3	333.5	273.0	273.0
75°	1295.8	221.4	228.8	289.3	318.8	366.0	376.3	309.9	258.3	208.1	203.7
77.5°	159.4	143.2	197.8	230.2	255.3	280.4	305.5	268.6	222.9	171.2	162.3
80°	100.4	100.4	156.4	160.9	174.2	200.7	224.3	209.6	175.6	98.9	91.5
82.5°	73.8	79.7	103.3	76.7	91.5	115.1	131.4	149.1	126.9	69.4	64.9
85°	47.2	51.7	48.7	38.4	50.2	76.7	104.8	103.3	85.6	51.7	48.7
87.5°	10.3	10.3	10.3	8.9	10.3	13.3	25.1	48.7	35.4	28.0	26.6
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)