

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: P509552

Luminaire Tested: **VERD-G-CA2-120-730-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509552
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-CA2-120-730-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15504 lumens
Efficiency: N/A
Efficacy: 124.3 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

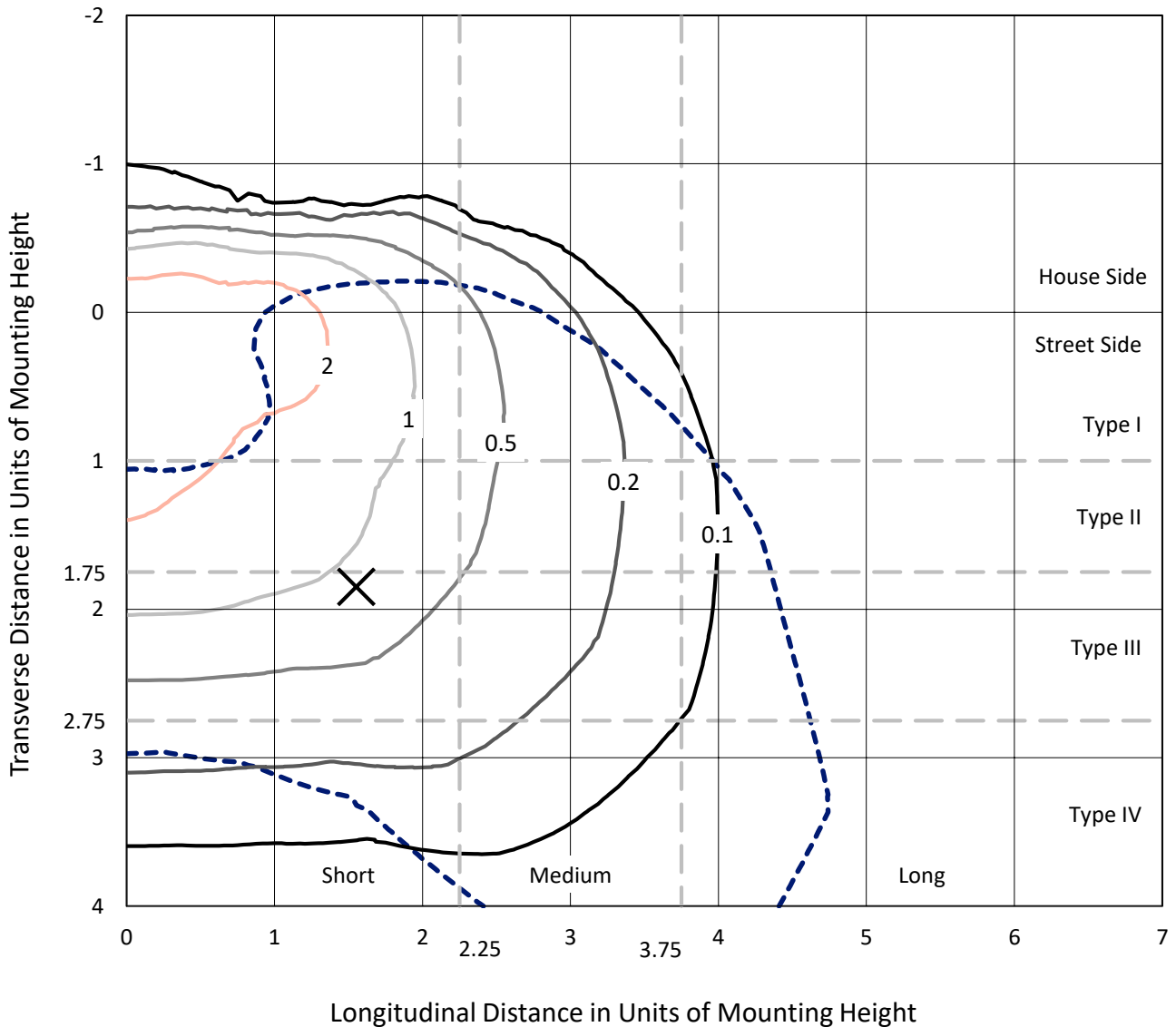
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

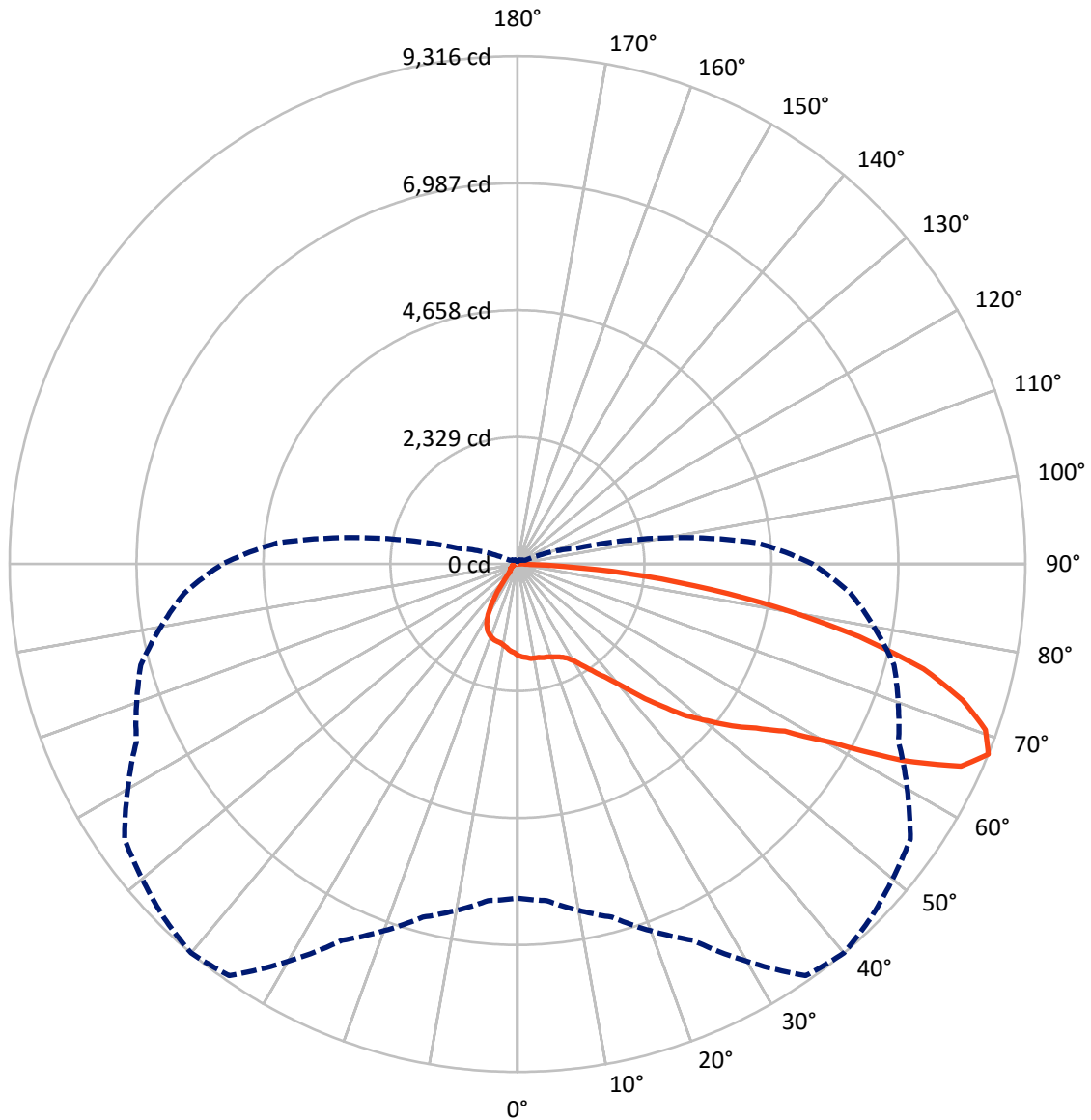
✕ Max cd
 - - - 1/2 Max cd



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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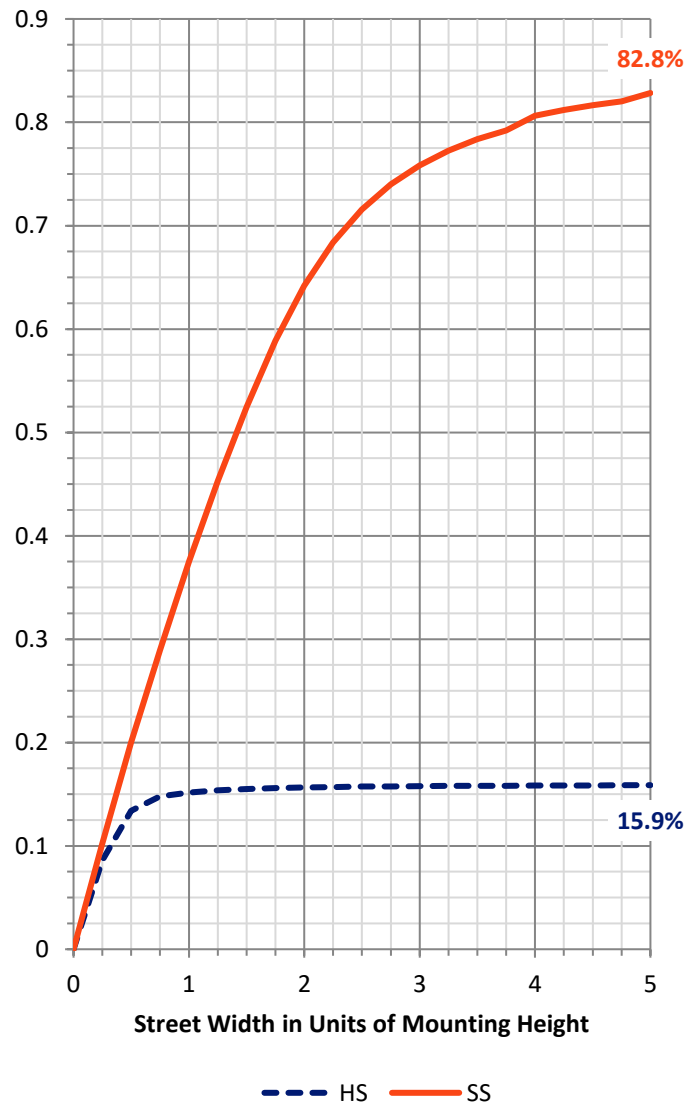
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2488.1	0.0	2488.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	13015.9	0.0	13015.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	15504.0	0.0	15504.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	1.0
10°-20°	471.1	3.0
20°-30°	783.7	5.1
30°-40°	1232.3	7.9
40°-50°	2133.7	13.8
50°-60°	3154.0	20.3
60°-70°	4100.4	26.4
70°-80°	2934.9	18.9
80°-90°	535.2	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°	15504.0	100.0
0°-180°	15504.0	100.0



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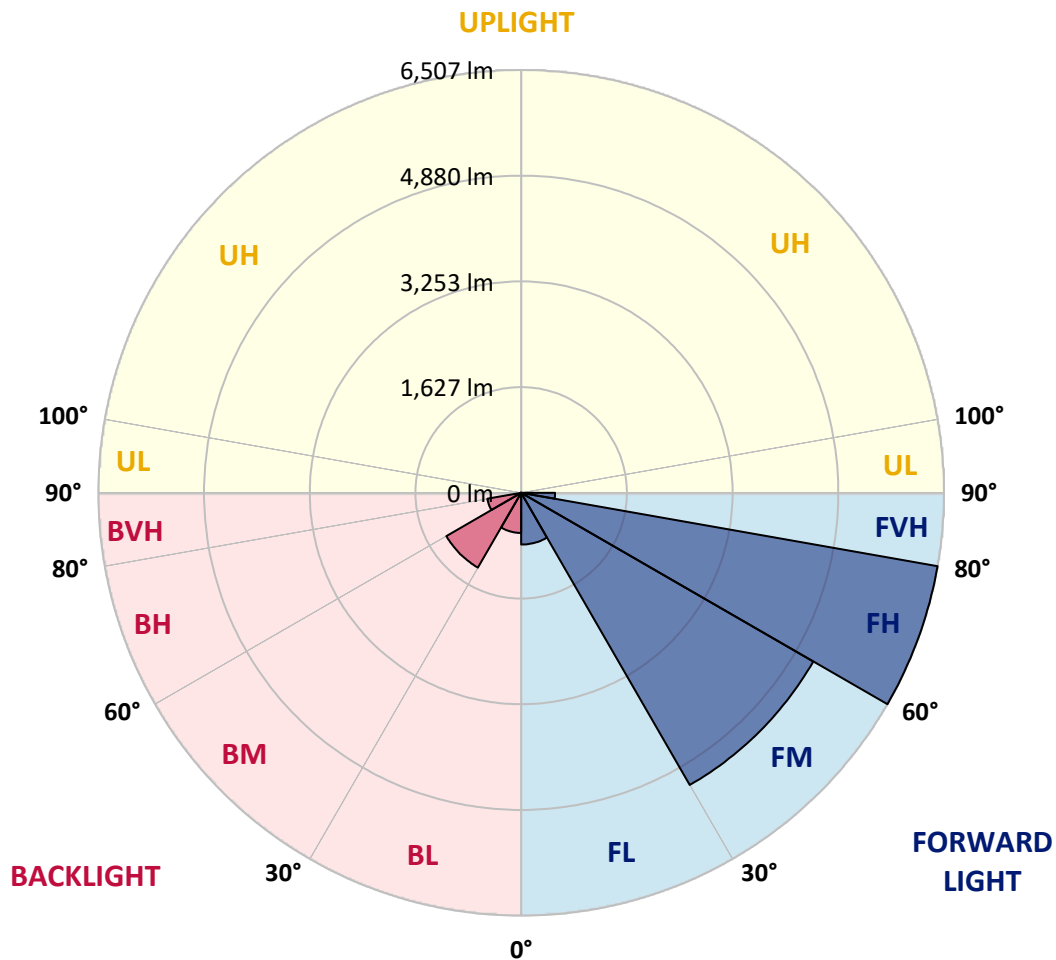
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	796.3	5.1			
FM	(30°-60°)	5190.8	33.5			
FH	(60°-80°)	6506.7	42.0			G3/7500
FVH	(80°-90°)	522.0	3.4			G4/750
BL	(0°-30°)	617.2	4.0	B2/1000		
BM	(30°-60°)	1329.1	8.6	B2/2500		
BH	(60°-80°)	528.6	3.4	B2/1000		G2/1000
BVH	(80°-90°)	13.2	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°	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1746.2	1745.0	1733.5	1727.8	1711.6	1705.9	1707.0	1700.1	1684.0	1686.3	1670.2
5°	1748.5	1756.5	1739.3	1734.7	1728.9	1722.0	1730.1	1720.8	1707.0	1711.6	1694.4
7.5°	1758.8	1762.3	1754.2	1749.6	1735.8	1749.6	1748.5	1740.4	1731.2	1723.1	1716.2
10°	1762.3	1758.8	1742.7	1739.3	1739.3	1753.1	1758.8	1762.3	1762.3	1749.6	1745.0
12.5°	1745.0	1742.7	1726.6	1733.5	1748.5	1757.7	1776.1	1787.6	1806.0	1792.2	1785.3
15°	1718.5	1724.3	1731.2	1733.5	1761.1	1781.9	1799.1	1819.8	1850.9	1850.9	1848.6
17.5°	1726.6	1738.1	1746.2	1757.7	1784.2	1791.1	1815.2	1848.6	1900.4	1903.9	1909.6
20°	1766.9	1766.9	1769.2	1777.2	1800.3	1821.0	1841.7	1884.3	1944.2	1963.7	1969.5
22.5°	1810.6	1808.3	1818.7	1817.5	1836.0	1849.8	1876.2	1913.1	1987.9	2024.7	2039.7
25°	1846.3	1853.2	1862.4	1850.9	1886.6	1892.4	1913.1	1958.0	2037.4	2103.0	2135.2
27.5°	1907.3	1911.9	1909.6	1915.4	1951.1	1954.5	1974.1	2038.5	2112.2	2202.0	2272.2
30°	2012.1	1996.0	1998.3	2010.9	2062.7	2069.6	2090.3	2152.5	2211.2	2329.8	2440.3
32.5°	2155.9	2155.9	2130.6	2154.8	2214.7	2233.1	2264.1	2357.4	2414.9	2478.2	2660.1
35°	2431.1	2431.1	2412.6	2349.3	2379.3	2425.3	2482.9	2611.8	2789.0	2996.2	3189.6
37.5°	2886.9	2880.0	2807.5	2693.5	2629.0	2645.2	2701.6	2909.9	3197.7	3703.0	3851.5
40°	3431.3	3411.8	3275.9	3117.1	2952.5	2924.9	2951.3	3212.6	3622.4	4371.8	4428.2
42.5°	3914.8	3913.6	3714.5	3579.8	3369.2	3323.1	3292.1	3518.8	4048.3	4857.5	4877.1
45°	4376.4	4364.8	4171.5	4025.3	3833.1	3715.6	3707.6	3866.4	4496.1	5294.9	5212.0
47.5°	4787.3	4804.6	4588.2	4447.7	4234.8	4154.2	4089.7	4225.6	4908.2	5667.9	5496.3
50°	5260.4	5291.5	4968.0	4813.8	4598.5	4519.1	4554.8	4654.9	5319.1	5972.9	5749.6
52.5°	5857.8	5758.8	5437.6	5172.9	4972.6	4933.5	4941.5	5080.8	5794.5	6222.7	5925.7
55°	6561.1	6414.9	6092.6	5679.4	5352.5	5315.6	5312.2	5453.8	6234.2	6456.3	6061.5
57.5°	6825.8	6901.8	6775.2	6470.1	5892.3	5784.1	5700.1	5831.3	6629.0	6714.2	6204.3
60°	7437.0	7518.8	7425.5	7229.9	7034.2	6657.8	6289.4	6276.8	6997.3	6960.5	6264.1
62.5°	7505.0	7478.5	7892.9	7961.9	8078.2	7932.0	7659.2	6867.3	7330.0	7086.0	6311.3
65°	7125.1	7128.6	7684.5	8064.4	8867.8	8942.6	8773.4	7806.5	7579.8	7135.5	6277.9
67.5°	6130.6	6198.5	6705.0	7615.5	9217.7	9315.6	9172.9	8797.6	7714.5	7152.7	6132.9
70°	5268.4	5270.7	5749.6	6860.4	9033.6	9107.2	9041.6	8862.1	7662.7	7015.8	5739.2
72.5°	4146.1	4133.5	4553.6	5675.9	8383.2	8539.8	8504.1	8627.2	7472.7	6520.8	4882.8
75°	2993.9	3019.2	3445.1	4371.8	7211.4	7697.2	7869.8	8245.1	6795.9	5537.8	3579.8
77.5°	2096.1	2121.4	2530.0	3320.8	5819.8	6405.7	6683.1	7012.3	5507.9	4104.7	1834.8
80°	1370.9	1393.9	1745.0	2494.4	4338.4	4837.9	5046.3	4849.4	3234.5	1724.3	201.4
82.5°	796.5	841.4	1108.5	1711.6	3040.0	3277.1	3288.6	2551.9	1208.6	154.2	94.4
85°	387.9	416.7	663.0	1015.2	1663.3	1748.5	1621.9	949.6	282.0	73.7	54.1
87.5°	57.6	76.0	261.3	383.3	282.0	231.4	139.3	32.2	18.4	9.2	6.9
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°	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1661.0	1659.8	1663.3	1648.3	1649.5	1631.1	1624.2	1620.7	1636.8	1634.5	1646.0
5°	1681.7	1670.2	1669.0	1632.2	1628.8	1605.7	1591.9	1571.2	1587.3	1583.9	1583.9
7.5°	1694.4	1682.9	1676.0	1632.2	1602.3	1562.0	1539.0	1522.9	1521.7	1518.3	1519.4
10°	1715.1	1709.3	1672.5	1624.2	1583.9	1532.1	1488.3	1463.0	1451.5	1452.6	1444.6
12.5°	1761.1	1749.6	1700.1	1642.6	1578.1	1506.7	1450.3	1405.5	1382.4	1377.8	1365.2
15°	1826.7	1814.1	1751.9	1686.3	1593.1	1509.0	1425.0	1345.6	1306.5	1290.3	1278.8
17.5°	1903.9	1884.3	1812.9	1738.1	1624.2	1506.7	1400.8	1293.8	1219.0	1176.4	1172.9
20°	1964.9	1955.7	1873.9	1793.4	1643.7	1491.8	1360.6	1219.0	1107.3	1029.1	1012.9
22.5°	2045.4	2046.6	1955.7	1834.8	1659.8	1466.5	1297.3	1114.2	962.3	857.5	839.1
25°	2161.7	2144.4	2042.0	1868.2	1663.3	1437.7	1210.9	983.0	785.0	667.6	646.9
27.5°	2301.0	2275.7	2112.2	1885.4	1648.3	1380.1	1095.8	811.5	580.1	478.8	462.7
30°	2448.3	2388.5	2169.8	1892.4	1602.3	1286.9	932.4	592.8	410.9	339.6	332.7
32.5°	2637.1	2549.6	2219.3	1869.3	1532.1	1145.3	722.9	406.3	284.3	246.3	248.6
35°	3023.9	2809.8	2296.4	1844.0	1433.1	968.0	505.3	269.3	219.9	215.2	216.4
37.5°	3608.6	3269.0	2432.2	1807.2	1285.7	740.1	324.6	208.3	209.5	209.5	209.5
40°	4173.8	3770.9	2640.5	1734.7	1105.0	518.0	214.1	196.8	202.6	201.4	202.6
42.5°	4576.6	4143.8	2859.3	1646.0	896.7	328.1	192.2	185.3	188.8	187.6	191.1
45°	4903.5	4463.8	3058.4	1520.6	671.1	214.1	188.8	176.1	172.7	171.5	175.0
47.5°	5145.3	4674.5	3201.1	1364.0	447.8	184.2	180.7	162.3	157.7	157.7	158.8
50°	5380.1	4877.1	3243.7	1185.6	276.3	179.6	170.4	150.8	143.9	141.6	143.9
52.5°	5543.5	4946.1	3252.9	984.2	185.3	175.0	157.7	137.0	128.9	127.8	128.9
55°	5682.8	5087.7	3178.1	733.2	165.8	164.6	146.2	123.2	114.0	118.6	120.9
57.5°	5717.4	5101.5	3028.5	484.6	164.6	150.8	133.5	110.5	103.6	108.2	109.4
60°	5804.8	5045.1	2842.0	298.1	161.1	134.7	118.6	97.8	93.2	94.4	96.7
62.5°	5730.0	5014.0	2523.1	208.3	148.5	123.2	110.5	89.8	81.7	80.6	80.6
65°	5654.0	4831.0	1929.2	172.7	132.4	115.1	100.1	79.4	70.2	65.6	65.6
67.5°	5412.3	4421.2	1101.6	160.0	119.7	105.9	90.9	72.5	61.0	55.3	52.9
70°	4803.4	3541.8	339.6	146.2	120.9	99.0	84.0	63.3	52.9	44.9	43.7
72.5°	3761.7	2214.7	158.8	128.9	124.3	92.1	78.3	58.7	47.2	38.0	36.8
75°	2213.5	530.6	130.1	95.5	105.9	97.8	77.1	56.4	41.4	31.1	29.9
77.5°	481.1	128.9	116.3	64.5	79.4	94.4	73.7	49.5	36.8	24.2	23.0
80°	116.3	101.3	105.9	49.5	52.9	65.6	59.9	42.6	33.4	19.6	18.4
82.5°	78.3	76.0	93.2	31.1	26.5	24.2	25.3	26.5	27.6	15.0	13.8
85°	51.8	65.6	49.5	17.3	15.0	12.7	12.7	11.5	16.1	9.2	9.2
87.5°	8.1	6.9	8.1	6.9	6.9	5.8	4.6	4.6	3.5	4.6	4.6
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)