

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: P509512

Luminaire Tested: **VERD-G-CA2-110-740-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509512
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-CA2-110-740-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14642 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

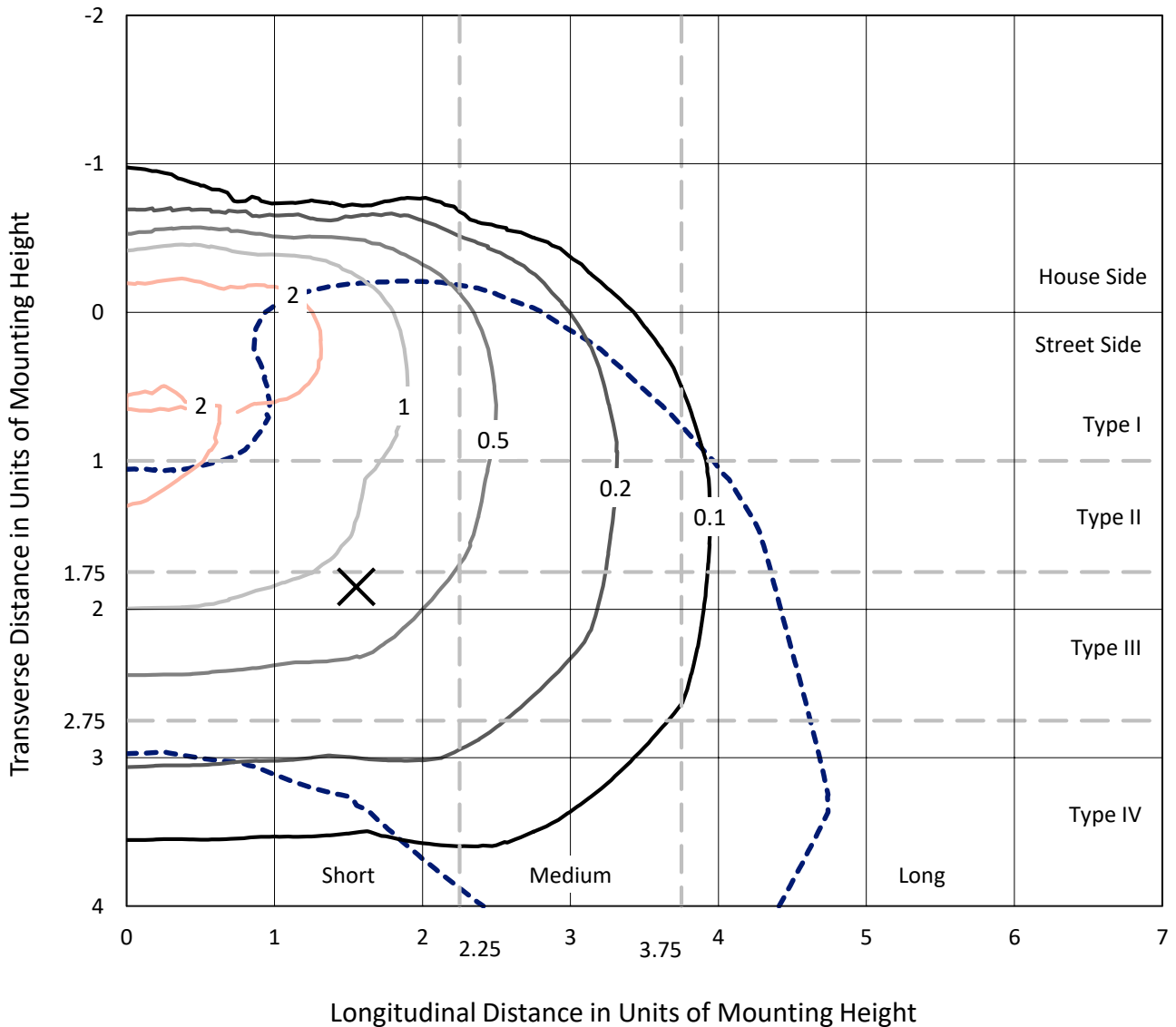
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509512
 CATALOG NUMBER: VERD-G-CA2-110-740-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

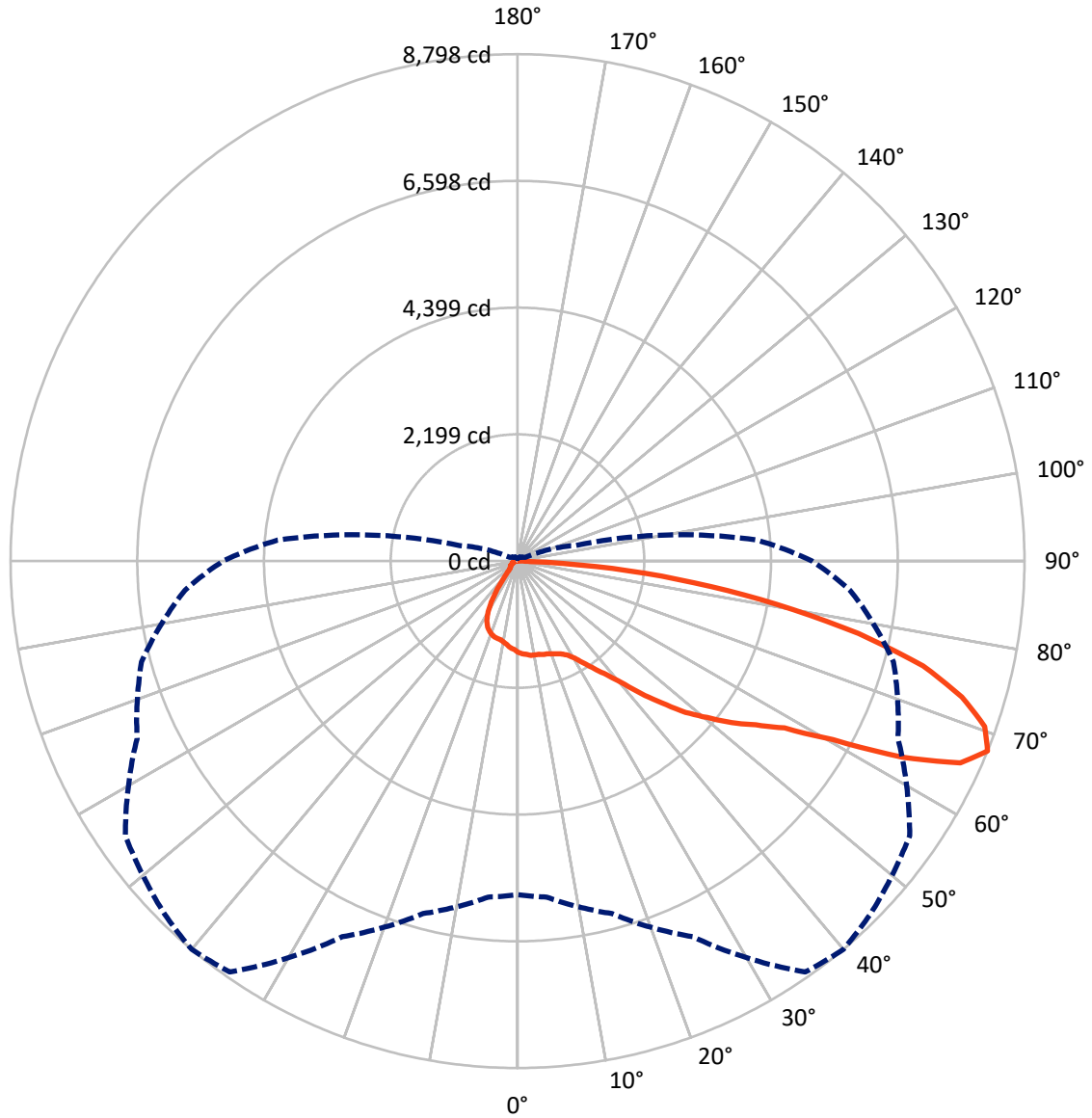
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

REPORT NUMBER: P509512
CATALOG NUMBER: VERD-G-CA2-110-740-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509512

CATALOG NUMBER: VERD-G-CA2-110-740-U-T4-HSS

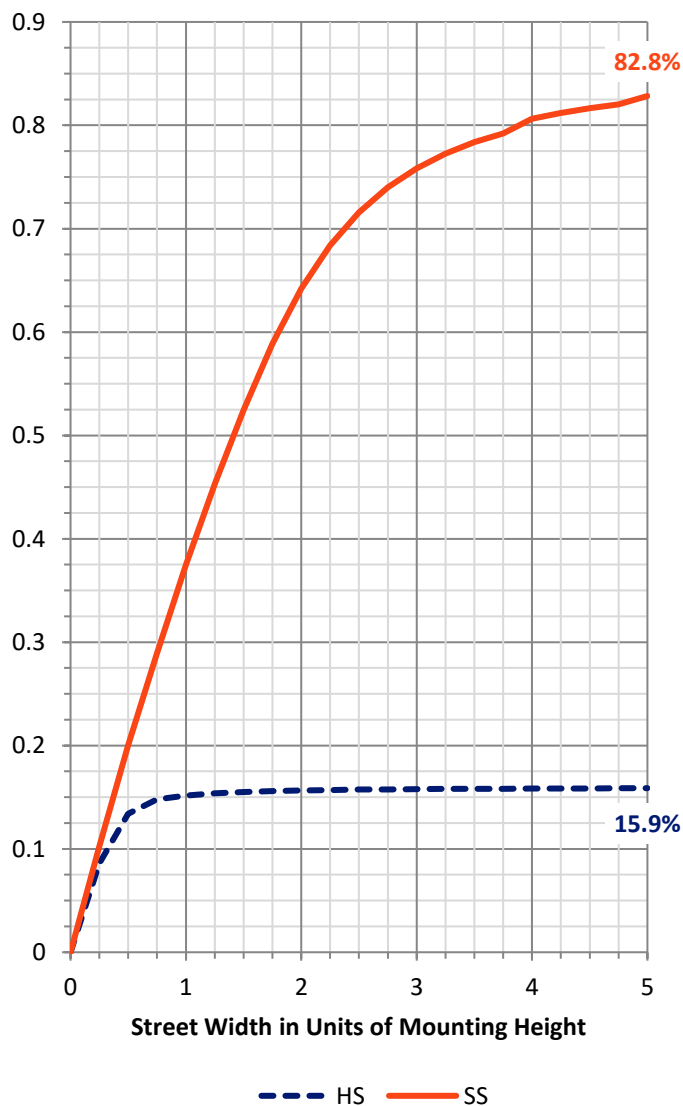
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.8	0.0	2349.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	12292.2	0.0	12292.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	14642.0	0.0	14642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.0
10°-20°	444.9	3.0
20°-30°	740.1	5.1
30°-40°	1163.8	7.9
40°-50°	2015.1	13.8
50°-60°	2978.6	20.3
60°-70°	3872.4	26.4
70°-80°	2771.7	18.9
80°-90°	505.4	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°	14642.0	100.0
0°-180°	14642.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509512

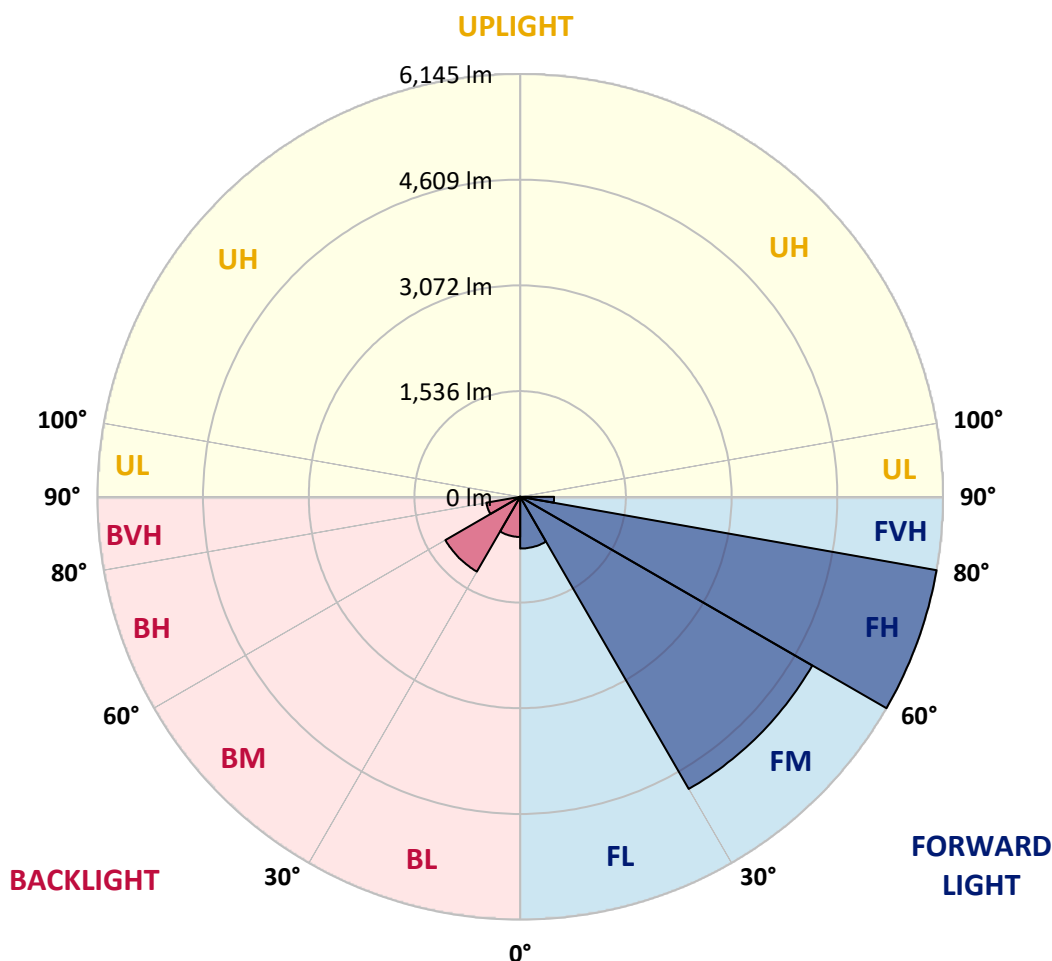
CATALOG NUMBER: VERD-G-CA2-110-740-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.1	5.1			
FM	(30°-60°)	4902.2	33.5			
FH	(60°-80°)	6144.9	42.0			G3/7500
FVH	(80°-90°)	493.0	3.4			G3/500
BL	(0°-30°)	582.9	4.0	B2/1000		
BM	(30°-60°)	1255.2	8.6	B2/2500		
BH	(60°-80°)	499.3	3.4	B1/500		G1/500
BVH	(80°-90°)	12.4	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-G3

Type IV Short





REPORT NUMBER: P509512

CATALOG NUMBER: VERD-G-CA2-110-740-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9
2.5°	1649.1	1648.0	1637.1	1631.7	1616.5	1611.0	1612.1	1605.6	1590.4	1592.6	1577.3
5°	1651.3	1658.9	1642.6	1638.2	1632.8	1626.3	1633.9	1625.2	1612.1	1616.5	1600.2
7.5°	1661.0	1664.3	1656.7	1652.3	1639.3	1652.3	1651.3	1643.6	1635.0	1627.3	1620.8
10°	1664.3	1661.0	1645.8	1642.6	1642.6	1655.6	1661.0	1664.3	1664.3	1652.3	1648.0
12.5°	1648.0	1645.8	1630.6	1637.1	1651.3	1660.0	1677.3	1688.2	1705.6	1692.6	1686.0
15°	1623.0	1628.4	1635.0	1637.1	1663.2	1682.8	1699.1	1718.7	1748.0	1748.0	1745.8
17.5°	1630.6	1641.5	1649.1	1660.0	1685.0	1691.5	1714.3	1745.8	1794.8	1798.0	1803.4
20°	1668.7	1668.7	1670.8	1678.4	1700.2	1719.7	1739.3	1779.5	1836.1	1854.5	1860.0
22.5°	1710.0	1707.8	1717.6	1716.5	1733.9	1746.9	1771.9	1806.7	1877.4	1912.2	1926.3
25°	1743.7	1750.2	1758.9	1748.0	1781.7	1787.1	1806.7	1849.1	1924.1	1986.1	2016.5
27.5°	1801.3	1805.6	1803.4	1808.9	1842.6	1845.8	1864.3	1925.2	1994.8	2079.6	2145.9
30°	1900.2	1885.0	1887.2	1899.1	1948.0	1954.6	1974.1	2032.8	2088.3	2200.2	2304.6
32.5°	2036.1	2036.1	2012.2	2035.0	2091.5	2108.9	2138.3	2226.3	2280.7	2340.5	2512.2
35°	2295.9	2295.9	2278.5	2218.7	2247.0	2290.5	2344.8	2466.6	2634.0	2829.6	3012.3
37.5°	2726.4	2719.8	2651.4	2543.7	2482.9	2498.1	2551.4	2748.1	3019.9	3497.1	3637.3
40°	3240.6	3222.1	3093.8	2943.8	2788.3	2762.2	2787.2	3034.0	3421.0	4128.7	4182.0
42.5°	3697.1	3696.0	3508.0	3380.8	3181.9	3138.4	3109.0	3323.2	3823.2	4587.4	4605.9
45°	4133.0	4122.2	3939.5	3801.5	3619.9	3509.1	3501.5	3651.5	4246.1	5000.5	4922.3
47.5°	4521.1	4537.4	4333.1	4200.4	3999.3	3923.2	3862.4	3990.6	4635.3	5352.7	5190.8
50°	4967.9	4997.3	4691.8	4546.1	4342.8	4267.8	4301.5	4396.1	5023.3	5640.8	5429.9
52.5°	5532.1	5438.6	5135.3	4885.3	4696.1	4659.2	4666.8	4798.3	5472.3	5876.7	5596.2
55°	6196.3	6058.2	5753.9	5363.6	5054.9	5020.1	5016.8	5150.5	5887.6	6097.4	5724.5
57.5°	6446.3	6518.1	6398.5	6110.4	5564.7	5462.5	5383.2	5507.1	6260.4	6340.9	5859.3
60°	7023.6	7100.7	7012.7	6827.9	6643.1	6287.6	5939.7	5927.8	6608.3	6573.5	5915.8
62.5°	7087.7	7062.7	7454.0	7519.3	7629.1	7491.0	7233.4	6485.5	6922.5	6692.0	5960.4
65°	6729.0	6732.2	7257.3	7616.0	8374.8	8445.4	8285.6	7372.5	7158.4	6738.7	5928.9
67.5°	5789.7	5853.9	6332.2	7192.1	8705.3	8797.7	8662.9	8308.5	7285.5	6755.1	5791.9
70°	4975.5	4977.7	5429.9	6478.9	8531.3	8600.9	8538.9	8369.3	7236.6	6625.7	5420.1
72.5°	3915.6	3903.7	4300.4	5360.3	7917.1	8065.0	8031.3	8147.6	7057.3	6158.2	4611.3
75°	2827.5	2851.4	3253.6	4128.7	6810.5	7269.2	7432.3	7786.7	6418.1	5229.9	3380.8
77.5°	1979.6	2003.5	2389.4	3136.2	5496.2	6049.5	6311.5	6622.4	5201.6	3876.5	1732.8
80°	1294.7	1316.4	1648.0	2355.7	4097.2	4569.0	4765.7	4579.8	3054.7	1628.4	190.2
82.5°	752.3	794.6	1046.8	1616.5	2871.0	3094.9	3105.8	2410.0	1141.4	145.7	89.1
85°	366.3	393.5	626.2	958.8	1570.8	1651.3	1531.7	896.8	266.3	69.6	51.1
87.5°	54.4	71.7	246.8	362.0	266.3	218.5	131.5	30.4	17.4	8.7	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509512

CATALOG NUMBER: VERD-G-CA2-110-740-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9	1584.9
2.5°	1568.6	1567.6	1570.8	1556.7	1557.8	1540.4	1533.9	1530.6	1545.8	1543.6	1554.5
5°	1588.2	1577.3	1576.3	1541.5	1538.2	1516.5	1503.4	1483.8	1499.1	1495.8	1495.8
7.5°	1600.2	1589.3	1582.8	1541.5	1513.2	1475.2	1453.4	1438.2	1437.1	1433.8	1434.9
10°	1619.7	1614.3	1579.5	1533.9	1495.8	1446.9	1405.6	1381.7	1370.8	1371.9	1364.3
12.5°	1663.2	1652.3	1605.6	1551.2	1490.4	1423.0	1369.7	1327.3	1305.6	1301.2	1289.3
15°	1725.2	1713.2	1654.5	1592.6	1504.5	1425.1	1345.8	1270.8	1233.8	1218.6	1207.7
17.5°	1798.0	1779.5	1712.1	1641.5	1533.9	1423.0	1323.0	1221.9	1151.2	1111.0	1107.7
20°	1855.6	1846.9	1769.7	1693.7	1552.3	1408.8	1284.9	1151.2	1045.8	971.8	956.6
22.5°	1931.7	1932.8	1846.9	1732.8	1567.6	1384.9	1225.1	1052.3	908.8	809.9	792.5
25°	2041.5	2025.2	1928.5	1764.3	1570.8	1357.7	1143.6	928.4	741.4	630.5	610.9
27.5°	2173.1	2149.1	1994.8	1780.6	1556.7	1303.4	1034.9	766.4	547.9	452.2	437.0
30°	2312.2	2255.7	2049.1	1787.1	1513.2	1215.3	880.5	559.8	388.1	320.7	314.2
32.5°	2490.5	2407.9	2095.9	1765.4	1446.9	1081.6	682.7	383.7	268.5	232.6	234.8
35°	2855.7	2653.5	2168.7	1741.5	1353.4	914.2	477.2	254.4	207.6	203.3	204.4
37.5°	3408.0	3087.3	2297.0	1706.7	1214.3	699.0	306.6	196.8	197.8	197.8	197.8
40°	3941.7	3561.2	2493.7	1638.2	1043.6	489.2	202.2	185.9	191.3	190.2	191.3
42.5°	4322.2	3913.5	2700.3	1554.5	846.8	309.8	181.5	175.0	178.3	177.2	180.5
45°	4630.9	4215.7	2888.3	1436.0	633.8	202.2	178.3	166.3	163.1	162.0	165.2
47.5°	4859.2	4414.6	3023.1	1288.2	422.9	173.9	170.7	153.3	148.9	148.9	150.0
50°	5081.0	4605.9	3063.4	1119.7	260.9	169.6	160.9	142.4	135.9	133.7	135.9
52.5°	5235.3	4671.1	3072.1	929.4	175.0	165.2	148.9	129.4	121.8	120.7	121.8
55°	5366.9	4804.8	3001.4	692.5	156.5	155.5	138.1	116.3	107.6	112.0	114.1
57.5°	5399.5	4817.9	2860.1	457.7	155.5	142.4	126.1	104.4	97.8	102.2	103.3
60°	5482.1	4764.6	2684.0	281.6	152.2	127.2	112.0	92.4	88.1	89.1	91.3
62.5°	5411.4	4735.3	2382.9	196.8	140.2	116.3	104.4	84.8	77.2	76.1	76.1
65°	5339.7	4562.4	1821.9	163.1	125.0	108.7	94.6	75.0	66.3	62.0	62.0
67.5°	5111.4	4175.4	1040.3	151.1	113.1	100.0	85.9	68.5	57.6	52.2	50.0
70°	4536.3	3344.9	320.7	138.1	114.1	93.5	79.4	59.8	50.0	42.4	41.3
72.5°	3552.5	2091.5	150.0	121.8	117.4	87.0	73.9	55.4	44.6	35.9	34.8
75°	2090.4	501.1	122.8	90.2	100.0	92.4	72.8	53.3	39.1	29.4	28.3
77.5°	454.4	121.8	109.8	60.9	75.0	89.1	69.6	46.7	34.8	22.8	21.7
80°	109.8	95.7	100.0	46.7	50.0	62.0	56.5	40.2	31.5	18.5	17.4
82.5°	73.9	71.7	88.1	29.4	25.0	22.8	23.9	25.0	26.1	14.1	13.0
85°	48.9	62.0	46.7	16.3	14.1	12.0	12.0	10.9	15.2	8.7	8.7
87.5°	7.6	6.5	7.6	6.5	6.5	5.4	4.3	4.3	3.3	4.3	4.3
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)