

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: P509528

Luminaire Tested: **VERD-G-CA2-110-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509528
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-CA2-110-760-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14594 lumens
Efficiency: N/A
Efficacy: 128.9 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

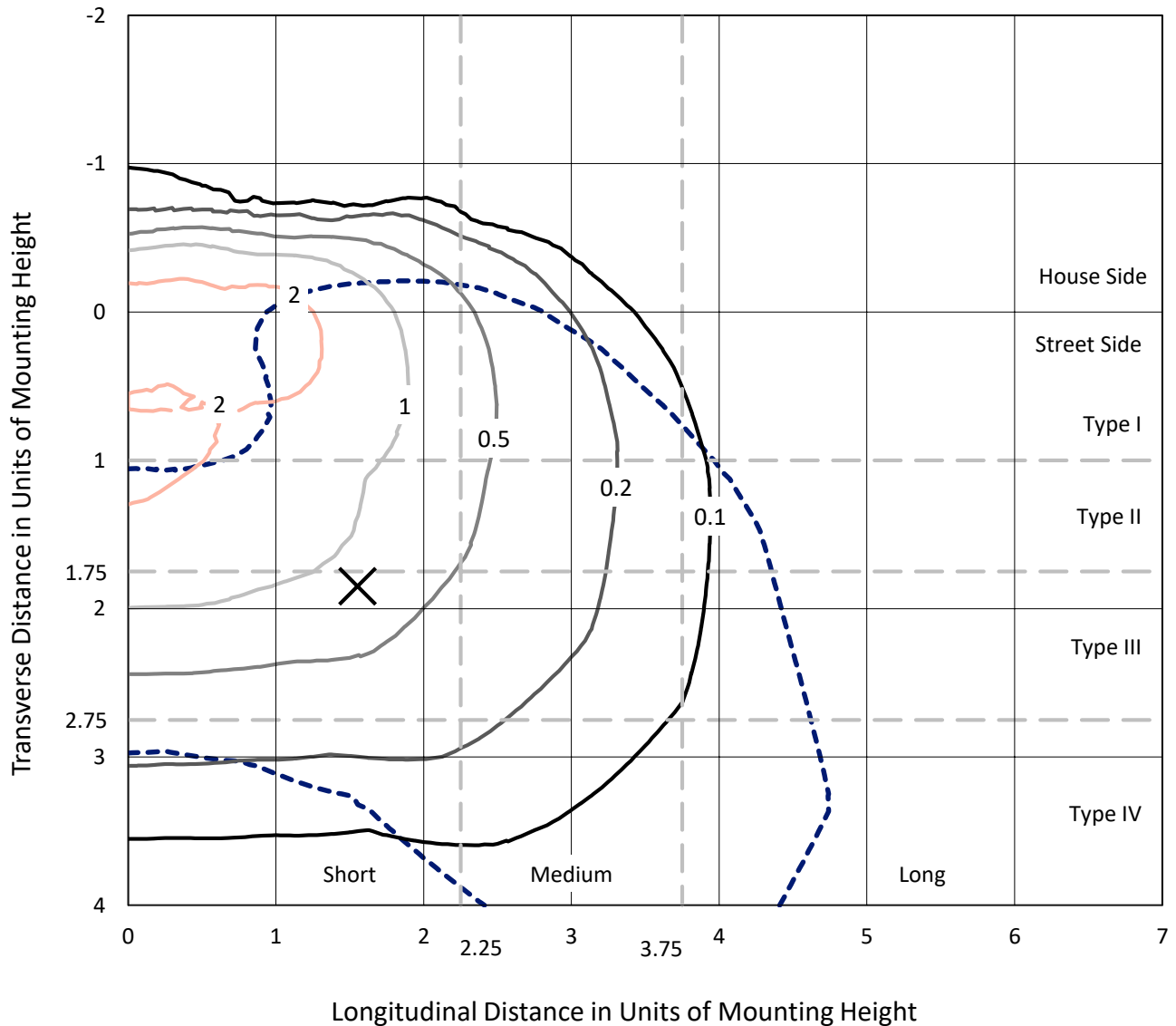
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

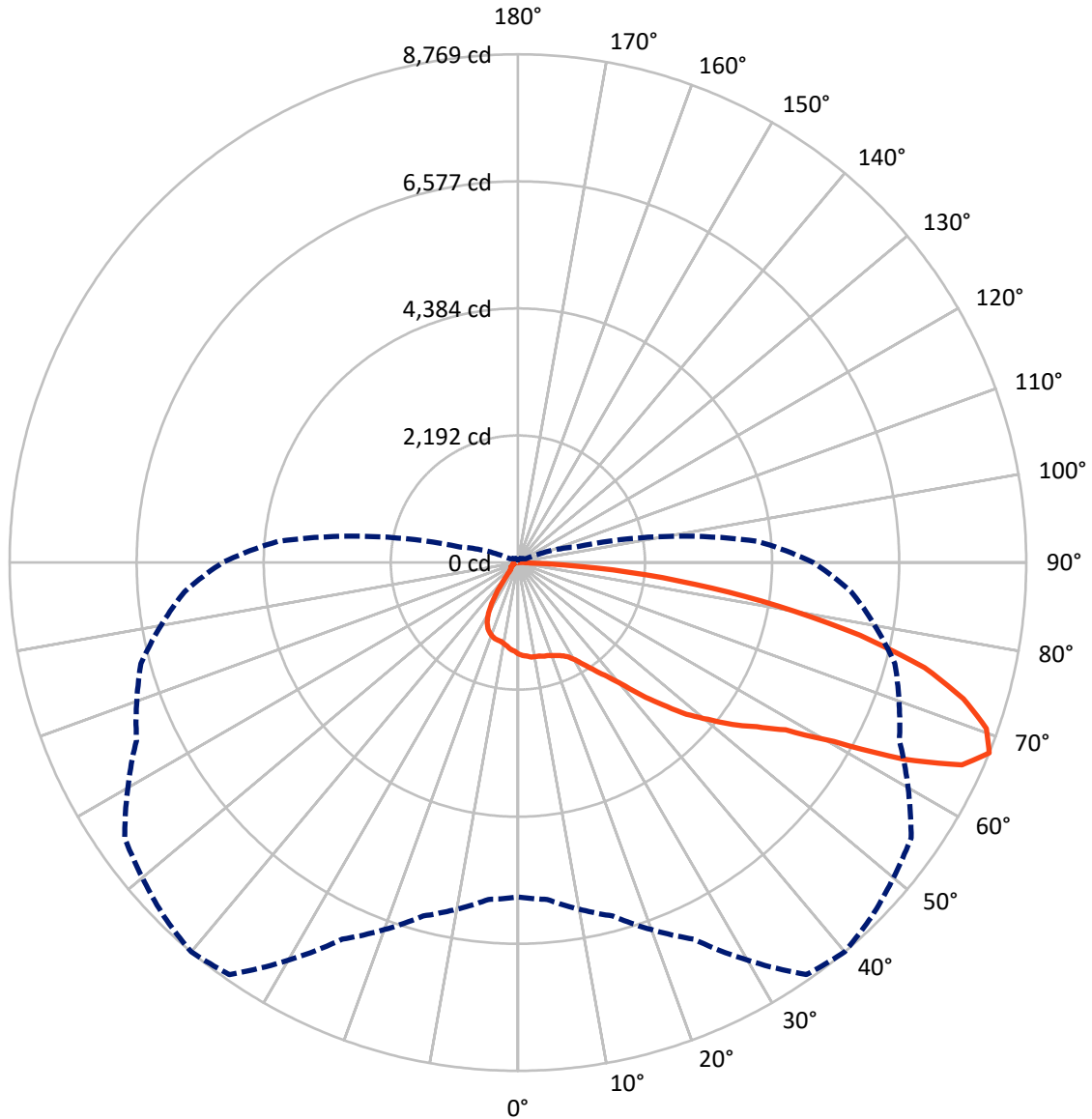
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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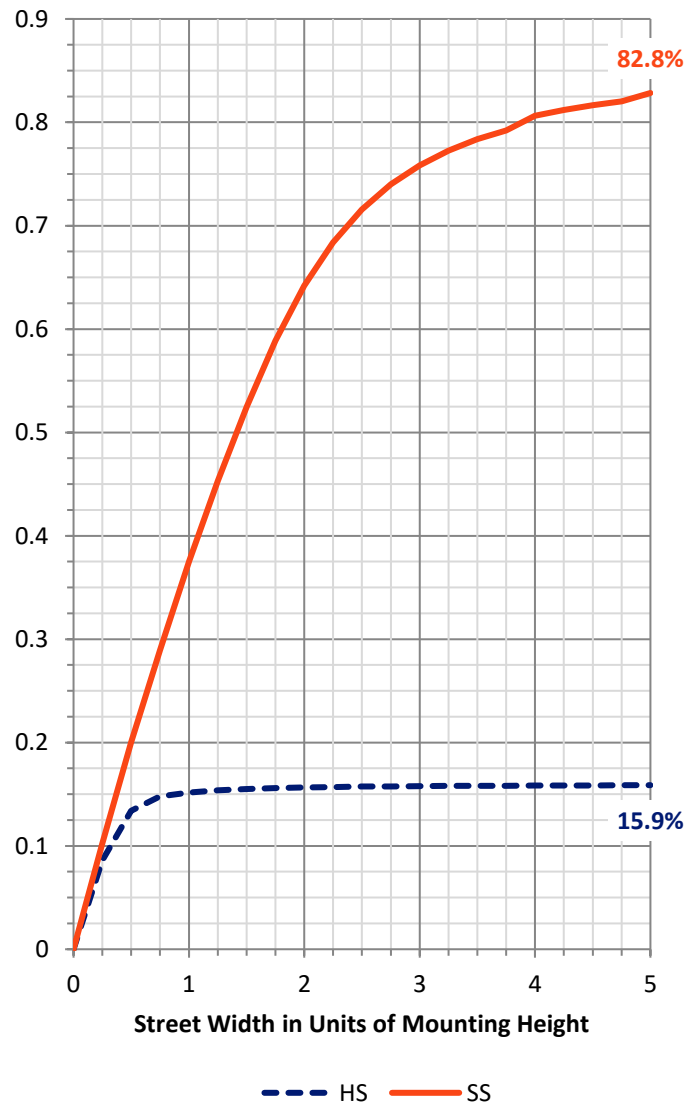
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.1	0.0	2342.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	12251.9	0.0	12251.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	14594.0	0.0	14594.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.0
10°-20°	443.4	3.0
20°-30°	737.7	5.1
30°-40°	1160.0	7.9
40°-50°	2008.4	13.8
50°-60°	2968.8	20.3
60°-70°	3859.7	26.4
70°-80°	2762.7	18.9
80°-90°	503.8	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°	14594.0	100.0
0°-180°	14594.0	100.0



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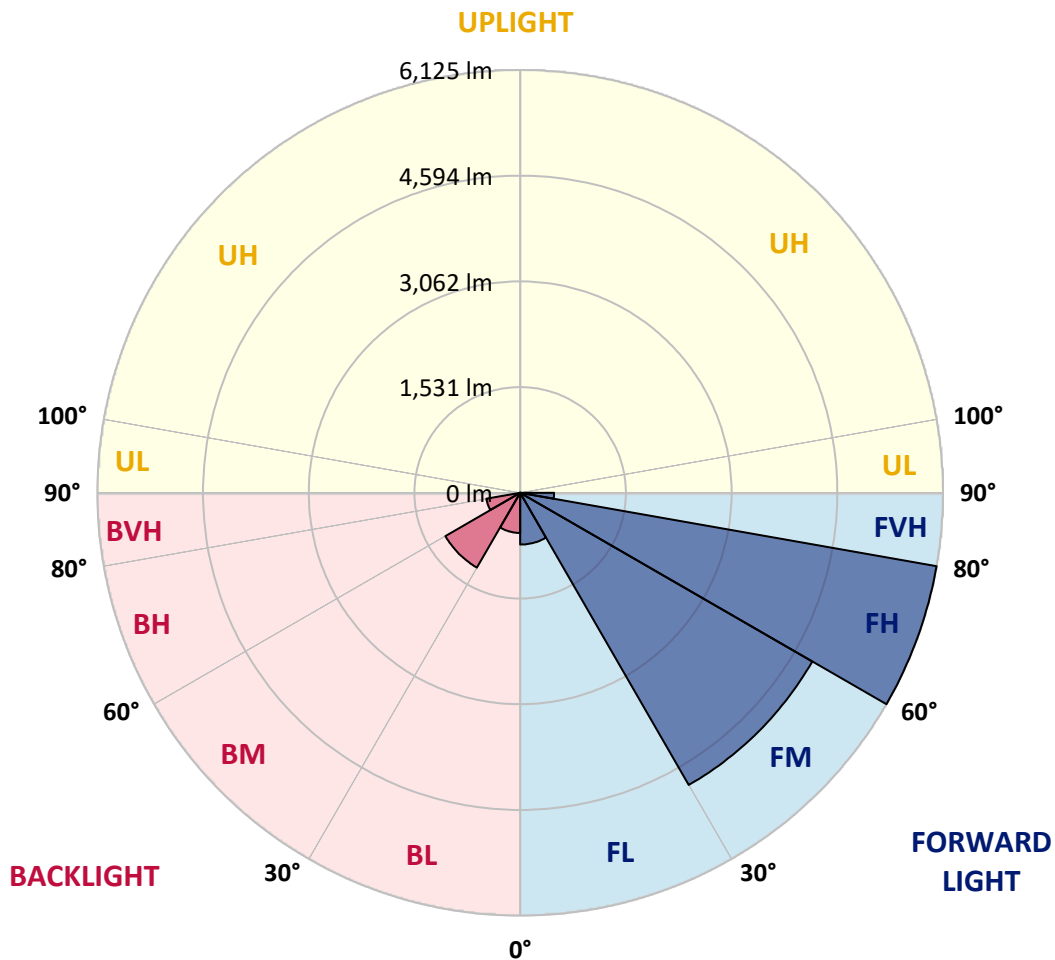
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.6	5.1			
FM	(30°-60°)	4886.2	33.5			
FH	(60°-80°)	6124.7	42.0			G3/7500
FVH	(80°-90°)	491.4	3.4			G3/500
BL	(0°-30°)	581.0	4.0	B2/1000		
BM	(30°-60°)	1251.1	8.6	B2/2500		
BH	(60°-80°)	497.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8
2.5°	1643.7	1642.6	1631.8	1626.3	1611.2	1605.8	1606.8	1600.3	1585.2	1587.3	1572.2
5°	1645.8	1653.4	1637.2	1632.8	1627.4	1620.9	1628.5	1619.8	1606.8	1611.2	1594.9
7.5°	1655.6	1658.8	1651.3	1646.9	1633.9	1646.9	1645.8	1638.3	1629.6	1622.0	1615.5
10°	1658.8	1655.6	1640.4	1637.2	1637.2	1650.2	1655.6	1658.8	1658.8	1646.9	1642.6
12.5°	1642.6	1640.4	1625.3	1631.8	1645.8	1654.5	1671.8	1682.7	1700.0	1687.0	1680.5
15°	1617.7	1623.1	1629.6	1631.8	1657.8	1677.3	1693.5	1713.0	1742.3	1742.3	1740.1
17.5°	1625.3	1636.1	1643.7	1654.5	1679.4	1685.9	1708.7	1740.1	1788.9	1792.1	1797.5
20°	1663.2	1663.2	1665.3	1672.9	1694.6	1714.1	1733.6	1773.7	1830.0	1848.5	1853.9
22.5°	1704.4	1702.2	1711.9	1710.9	1728.2	1741.2	1766.1	1800.8	1871.2	1905.9	1920.0
25°	1737.9	1744.4	1753.1	1742.3	1775.9	1781.3	1800.8	1843.0	1917.8	1979.6	2009.9
27.5°	1795.4	1799.7	1797.5	1803.0	1836.5	1839.8	1858.2	1918.9	1988.2	2072.7	2138.8
30°	1894.0	1878.8	1881.0	1892.9	1941.6	1948.1	1967.6	2026.2	2081.4	2193.0	2297.0
32.5°	2029.4	2029.4	2005.6	2028.3	2084.7	2102.0	2131.3	2219.0	2273.2	2332.8	2504.0
35°	2288.4	2288.4	2271.0	2211.4	2239.6	2282.9	2337.1	2458.5	2625.3	2820.4	3002.4
37.5°	2717.4	2710.9	2642.7	2535.4	2474.7	2489.9	2543.0	2739.1	3010.0	3485.6	3625.4
40°	3229.9	3211.5	3083.7	2934.1	2779.2	2753.2	2778.1	3024.1	3409.8	4115.2	4168.2
42.5°	3685.0	3683.9	3496.5	3369.7	3171.4	3128.1	3098.8	3312.3	3810.7	4572.4	4590.8
45°	4119.5	4108.7	3926.6	3789.0	3608.1	3497.6	3490.0	3639.5	4232.2	4984.1	4906.1
47.5°	4506.3	4522.6	4318.9	4186.7	3986.2	3910.4	3849.7	3977.6	4620.1	5335.2	5173.7
50°	4951.6	4980.9	4676.4	4531.2	4328.6	4253.8	4287.4	4381.7	5006.9	5622.3	5412.1
52.5°	5514.0	5420.8	5118.5	4869.3	4680.7	4643.9	4651.5	4782.6	5454.4	5857.4	5577.9
55°	6176.0	6038.4	5735.0	5346.0	5038.3	5003.6	5000.4	5133.7	5868.3	6077.4	5705.7
57.5°	6425.2	6496.7	6377.5	6090.4	5546.5	5444.6	5365.5	5489.0	6239.9	6320.1	5840.1
60°	7000.5	7077.5	6989.7	6805.5	6621.3	6267.0	5920.3	5908.4	6586.6	6552.0	5896.4
62.5°	7064.5	7039.5	7429.6	7494.6	7604.0	7466.4	7209.6	6464.2	6899.8	6670.1	5940.9
65°	6706.9	6710.2	7233.5	7591.0	8347.3	8417.8	8258.5	7348.3	7134.9	6716.7	5909.4
67.5°	5770.8	5834.7	6311.4	7168.5	8676.7	8768.8	8634.5	8281.2	7261.7	6732.9	5772.9
70°	4959.2	4961.4	5412.1	6457.7	8503.4	8572.7	8510.9	8341.9	7212.9	6604.0	5402.4
72.5°	3902.8	3890.9	4286.3	5342.8	7891.2	8038.5	8004.9	8120.9	7034.1	6138.1	4596.2
75°	2818.2	2842.0	3242.9	4115.2	6788.2	7245.4	7407.9	7761.2	6397.0	5212.7	3369.7
77.5°	1973.1	1996.9	2381.5	3125.9	5478.2	6029.7	6290.8	6600.7	5184.6	3863.8	1727.1
80°	1290.5	1312.1	1642.6	2348.0	4083.7	4554.0	4750.1	4564.8	3044.7	1623.1	189.6
82.5°	749.8	792.0	1043.4	1611.2	2861.5	3084.7	3095.6	2402.1	1137.7	145.2	88.8
85°	365.1	392.2	624.1	955.7	1565.7	1645.8	1526.7	893.9	265.5	69.3	50.9
87.5°	54.2	71.5	246.0	360.8	265.5	217.8	131.1	30.3	17.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8
2.5°	1563.5	1562.4	1565.7	1551.6	1552.7	1535.3	1528.8	1525.6	1540.7	1538.6	1549.4
5°	1583.0	1572.2	1571.1	1536.4	1533.2	1511.5	1498.5	1479.0	1494.2	1490.9	1490.9
7.5°	1594.9	1584.1	1577.6	1536.4	1508.2	1470.3	1448.6	1433.5	1432.4	1429.1	1430.2
10°	1614.4	1609.0	1574.3	1528.8	1490.9	1442.1	1401.0	1377.1	1366.3	1367.4	1359.8
12.5°	1657.8	1646.9	1600.3	1546.2	1485.5	1418.3	1365.2	1323.0	1301.3	1297.0	1285.0
15°	1719.5	1707.6	1649.1	1587.3	1499.6	1420.5	1341.4	1266.6	1229.8	1214.6	1203.8
17.5°	1792.1	1773.7	1706.5	1636.1	1528.8	1418.3	1318.6	1217.9	1147.4	1107.3	1104.1
20°	1849.5	1840.9	1763.9	1688.1	1547.2	1404.2	1280.7	1147.4	1042.3	968.7	953.5
22.5°	1925.4	1926.5	1840.9	1727.1	1562.4	1380.4	1221.1	1048.8	905.8	807.2	789.9
25°	2034.8	2018.6	1922.1	1758.5	1565.7	1353.3	1139.8	925.3	739.0	628.4	608.9
27.5°	2165.9	2142.1	1988.2	1774.8	1551.6	1299.1	1031.5	763.9	546.1	450.7	435.6
30°	2304.6	2248.3	2042.4	1781.3	1508.2	1211.4	877.6	558.0	386.8	319.6	313.1
32.5°	2482.3	2400.0	2089.0	1759.6	1442.1	1078.1	680.4	382.5	267.6	231.9	234.0
35°	2846.4	2644.8	2161.6	1735.8	1349.0	911.2	475.7	253.5	206.9	202.6	203.7
37.5°	3396.8	3077.2	2289.4	1701.1	1210.3	696.7	305.5	196.1	197.2	197.2	197.2
40°	3928.8	3549.6	2485.6	1632.8	1040.2	487.6	201.5	185.3	190.7	189.6	190.7
42.5°	4308.0	3900.6	2691.4	1549.4	844.1	308.8	180.9	174.4	177.7	176.6	179.9
45°	4615.7	4201.8	2878.9	1431.3	631.7	201.5	177.7	165.8	162.5	161.4	164.7
47.5°	4843.3	4400.1	3013.2	1284.0	421.5	173.4	170.1	152.8	148.4	148.4	149.5
50°	5064.3	4590.8	3053.3	1116.0	260.0	169.0	160.4	141.9	135.4	133.3	135.4
52.5°	5218.2	4655.8	3062.0	926.4	174.4	164.7	148.4	128.9	121.4	120.3	121.4
55°	5349.3	4789.1	2991.6	690.2	156.0	154.9	137.6	115.9	107.3	111.6	113.8
57.5°	5381.8	4802.1	2850.7	456.2	154.9	141.9	125.7	104.0	97.5	101.8	102.9
60°	5464.1	4749.0	2675.2	280.6	151.7	126.8	111.6	92.1	87.8	88.8	91.0
62.5°	5393.7	4719.8	2375.0	196.1	139.8	115.9	104.0	84.5	76.9	75.8	75.8
65°	5322.2	4547.5	1816.0	162.5	124.6	108.4	94.3	74.8	66.1	61.8	61.8
67.5°	5094.6	4161.7	1036.9	150.6	112.7	99.7	85.6	68.3	57.4	52.0	49.8
70°	4521.5	3333.9	319.6	137.6	113.8	93.2	79.1	59.6	49.8	42.3	41.2
72.5°	3540.9	2084.7	149.5	121.4	117.0	86.7	73.7	55.3	44.4	35.8	34.7
75°	2083.6	499.5	122.4	89.9	99.7	92.1	72.6	53.1	39.0	29.3	28.2
77.5°	452.9	121.4	109.4	60.7	74.8	88.8	69.3	46.6	34.7	22.8	21.7
80°	109.4	95.3	99.7	46.6	49.8	61.8	56.3	40.1	31.4	18.4	17.3
82.5°	73.7	71.5	87.8	29.3	24.9	22.8	23.8	24.9	26.0	14.1	13.0
85°	48.8	61.8	46.6	16.3	14.1	11.9	11.9	10.8	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)