

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: P509504

Luminaire Tested: **VERD-G-CA2-110-730-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509504
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-CA2-110-730-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14377 lumens
Efficiency: N/A
Efficacy: 127.0 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

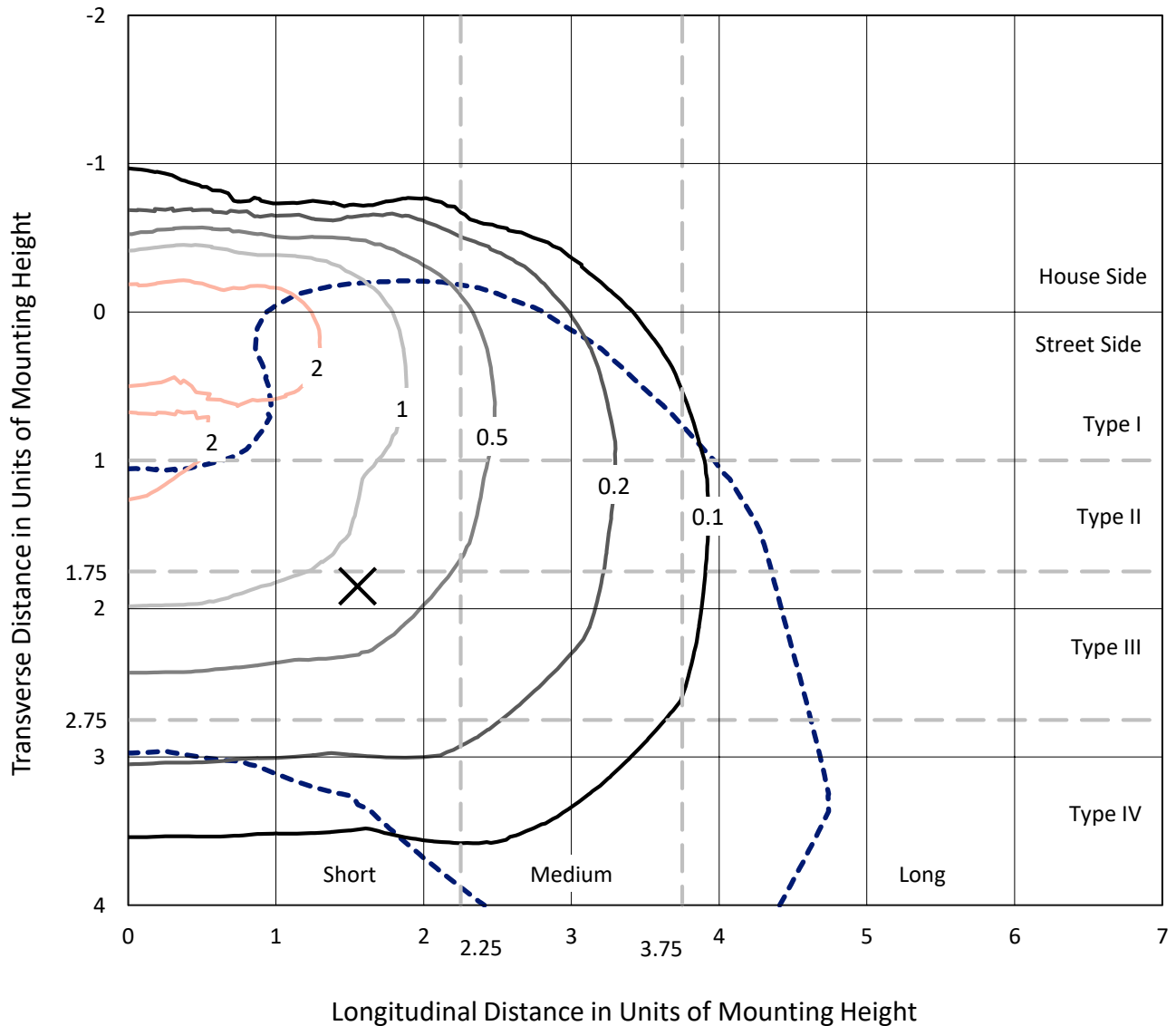
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

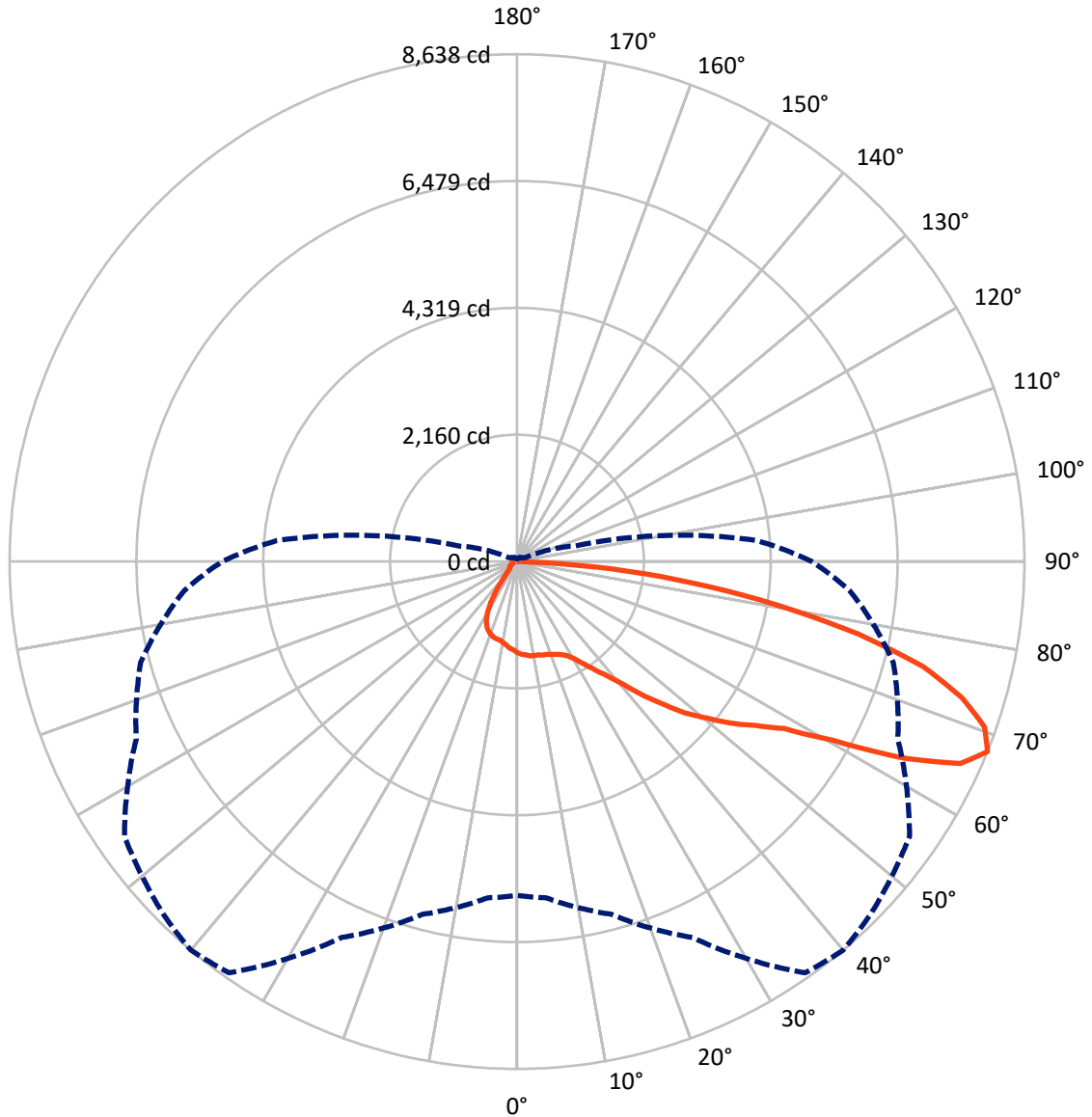
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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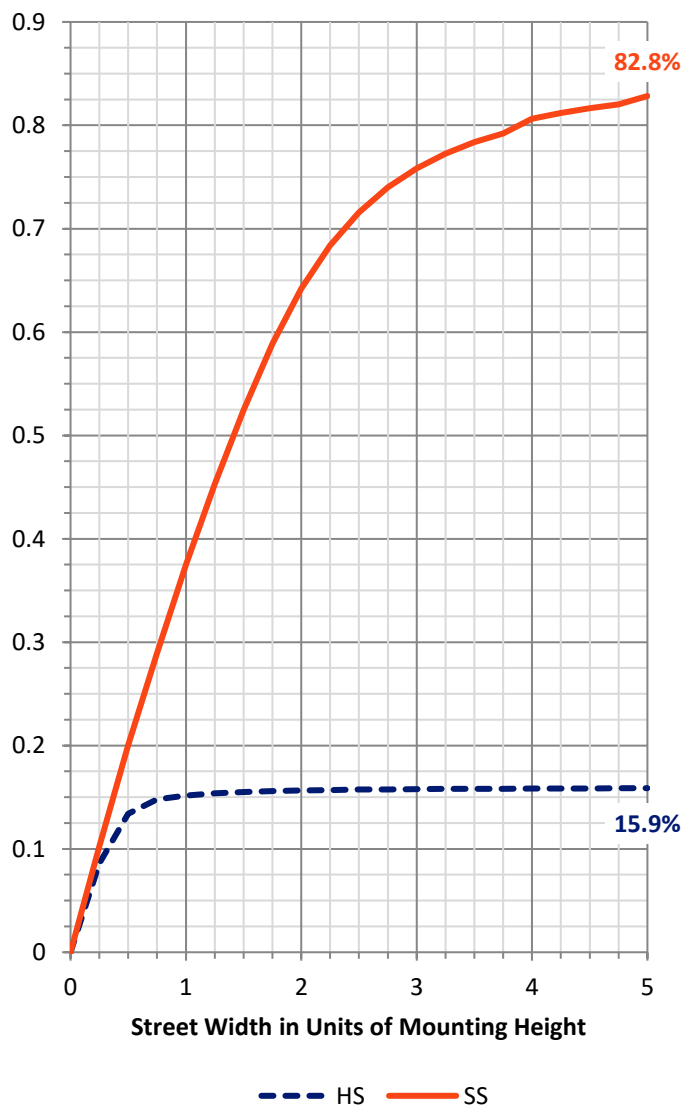
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2307.3	0.0	2307.3
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	12069.7	0.0	12069.7
	% Fixture	84.0	0.0	84.0
Total	Lumens	14377.0	0.0	14377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	1.0
10°-20°	436.8	3.0
20°-30°	726.7	5.1
30°-40°	1142.7	7.9
40°-50°	1978.6	13.8
50°-60°	2924.7	20.3
60°-70°	3802.3	26.4
70°-80°	2721.6	18.9
80°-90°	496.3	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°	14377.0	100.0
0°-180°	14377.0	100.0

Coefficient of Utilization



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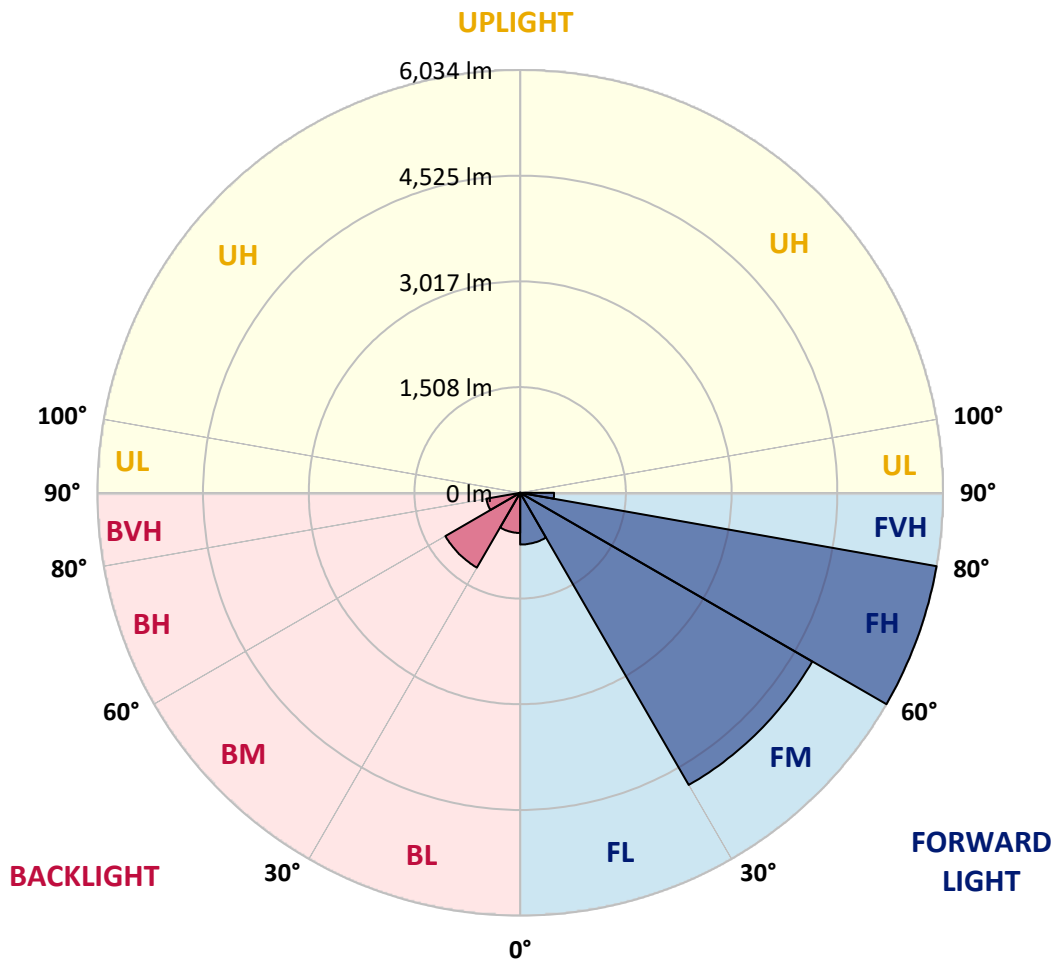
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.4	5.1			
FM (30°-60°)	4813.5	33.5			
FH (60°-80°)	6033.7	42.0			G3/7500
FVH (80°-90°)	484.1	3.4			G3/500
BL (0°-30°)	572.4	4.0	B2/1000		
BM (30°-60°)	1232.5	8.6	B2/2500		
BH (60°-80°)	490.2	3.4	B1/500		G1/500
BVH (80°-90°)	12.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3
2.5°	1619.2	1618.2	1607.5	1602.2	1587.2	1581.9	1582.9	1576.5	1561.6	1563.7	1548.8
5°	1621.4	1628.8	1612.8	1608.6	1603.2	1596.8	1604.3	1595.8	1582.9	1587.2	1571.2
7.5°	1631.0	1634.2	1626.7	1622.4	1609.6	1622.4	1621.4	1613.9	1605.4	1597.9	1591.5
10°	1634.2	1631.0	1616.0	1612.8	1612.8	1625.6	1631.0	1634.2	1634.2	1622.4	1618.2
12.5°	1618.2	1616.0	1601.1	1607.5	1621.4	1629.9	1647.0	1657.7	1674.7	1661.9	1655.5
15°	1593.6	1599.0	1605.4	1607.5	1633.1	1652.3	1668.3	1687.6	1716.4	1716.4	1714.2
17.5°	1601.1	1611.8	1619.2	1629.9	1654.5	1660.9	1683.3	1714.2	1762.3	1765.5	1770.8
20°	1638.5	1638.5	1640.6	1648.1	1669.4	1688.6	1707.8	1747.3	1802.8	1821.0	1826.3
22.5°	1679.0	1676.9	1686.5	1685.4	1702.5	1715.3	1739.9	1774.0	1843.4	1877.5	1891.4
25°	1712.1	1718.5	1727.0	1716.4	1749.5	1754.8	1774.0	1815.6	1889.3	1950.1	1980.0
27.5°	1768.7	1772.9	1770.8	1776.1	1809.2	1812.4	1830.6	1890.4	1958.7	2041.9	2107.0
30°	1865.8	1850.9	1853.0	1864.7	1912.8	1919.2	1938.4	1996.0	2050.5	2160.4	2262.9
32.5°	1999.2	1999.2	1975.7	1998.2	2053.7	2070.7	2099.6	2186.0	2239.4	2298.1	2466.8
35°	2254.3	2254.3	2237.3	2178.6	2206.3	2249.0	2302.4	2421.9	2586.3	2778.4	2957.8
37.5°	2677.0	2670.6	2603.4	2497.7	2437.9	2452.9	2505.2	2698.4	2965.2	3433.8	3571.5
40°	3181.9	3163.8	3037.8	2890.5	2737.9	2712.3	2736.8	2979.1	3359.1	4054.0	4106.3
42.5°	3630.2	3629.1	3444.5	3319.6	3124.3	3081.6	3052.7	3263.0	3754.0	4504.4	4522.6
45°	4058.2	4047.6	3868.2	3732.7	3554.4	3445.6	3438.1	3585.4	4169.2	4910.0	4833.2
47.5°	4439.3	4455.3	4254.6	4124.4	3926.9	3852.2	3792.5	3918.4	4551.4	5255.9	5096.8
50°	4878.0	4906.8	4606.9	4463.8	4264.2	4190.6	4223.7	4316.5	4932.4	5538.7	5331.6
52.5°	5432.0	5340.2	5042.4	4796.9	4611.1	4574.9	4582.3	4711.5	5373.3	5770.3	5494.9
55°	6084.2	5948.6	5649.7	5266.5	4963.4	4929.2	4926.0	5057.3	5781.0	5987.0	5620.9
57.5°	6329.7	6400.1	6282.7	5999.8	5464.0	5363.7	5285.7	5407.4	6147.1	6226.1	5753.3
60°	6896.4	6972.2	6885.8	6704.3	6522.9	6173.8	5832.2	5820.5	6488.7	6454.5	5808.8
62.5°	6959.4	6934.9	7319.1	7383.2	7491.0	7355.4	7102.4	6368.1	6797.2	6570.9	5852.5
65°	6607.2	6610.4	7125.9	7478.2	8223.2	8292.6	8135.7	7239.1	7028.8	6616.8	5821.6
67.5°	5684.9	5747.9	6217.6	7061.9	8547.7	8638.4	8506.1	8158.1	7153.7	6632.8	5687.1
70°	4885.5	4887.6	5331.6	6361.7	8376.9	8445.2	8384.4	8217.9	7105.6	6505.8	5322.0
72.5°	3844.8	3833.0	4222.6	5263.3	7773.8	7919.0	7885.9	8000.1	6929.5	6046.8	4527.9
75°	2776.3	2799.8	3194.7	4054.0	6687.2	7137.7	7297.8	7645.8	6301.9	5135.2	3319.6
77.5°	1943.7	1967.2	2346.1	3079.4	5396.7	5940.1	6197.3	6502.6	5107.5	3806.3	1701.4
80°	1271.3	1292.6	1618.2	2313.0	4023.0	4486.3	4679.5	4496.9	2999.4	1599.0	186.8
82.5°	738.6	780.3	1027.9	1587.2	2819.0	3038.9	3049.5	2366.4	1120.8	143.0	87.5
85°	359.7	386.4	614.8	941.4	1542.4	1621.4	1504.0	880.6	261.5	68.3	50.2
87.5°	53.4	70.4	242.3	355.4	261.5	214.5	129.2	29.9	17.1	8.5	6.4
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°	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3
2.5°	1540.3	1539.2	1542.4	1528.5	1529.6	1512.5	1506.1	1502.9	1517.8	1515.7	1526.4
5°	1559.5	1548.8	1547.7	1513.6	1510.4	1489.0	1476.2	1457.0	1471.9	1468.7	1468.7
7.5°	1571.2	1560.5	1554.1	1513.6	1485.8	1448.5	1427.1	1412.2	1411.1	1407.9	1409.0
10°	1590.4	1585.1	1550.9	1506.1	1468.7	1420.7	1380.1	1356.7	1346.0	1347.1	1339.6
12.5°	1633.1	1622.4	1576.5	1523.2	1463.4	1397.2	1344.9	1303.3	1281.9	1277.7	1265.9
15°	1694.0	1682.2	1624.6	1563.7	1477.3	1399.4	1321.4	1247.8	1211.5	1196.5	1185.9
17.5°	1765.5	1747.3	1681.1	1611.8	1506.1	1397.2	1299.0	1199.8	1130.4	1090.9	1087.7
20°	1822.0	1813.5	1737.7	1663.0	1524.2	1383.3	1261.7	1130.4	1026.8	954.3	939.3
22.5°	1896.8	1897.8	1813.5	1701.4	1539.2	1359.9	1203.0	1033.2	892.3	795.2	778.1
25°	2004.6	1988.6	1893.6	1732.4	1542.4	1333.2	1122.9	911.6	728.0	619.1	599.9
27.5°	2133.7	2110.2	1958.7	1748.4	1528.5	1279.8	1016.2	752.5	538.0	444.0	429.1
30°	2270.3	2214.8	2012.0	1754.8	1485.8	1193.3	864.6	549.7	381.1	314.9	308.5
32.5°	2445.4	2364.3	2057.9	1733.4	1420.7	1062.1	670.3	376.8	263.6	228.4	230.6
35°	2804.0	2605.5	2129.5	1710.0	1328.9	897.7	468.6	249.8	203.9	199.6	200.7
37.5°	3346.3	3031.4	2255.4	1675.8	1192.3	686.3	301.0	193.2	194.3	194.3	194.3
40°	3870.4	3496.8	2448.6	1608.6	1024.7	480.3	198.5	182.5	187.9	186.8	187.9
42.5°	4244.0	3842.6	2651.4	1526.4	831.5	304.2	178.3	171.9	175.1	174.0	177.2
45°	4547.1	4139.4	2836.1	1410.0	622.3	198.5	175.1	163.3	160.1	159.0	162.2
47.5°	4771.3	4334.7	2968.4	1264.9	415.2	170.8	167.6	150.5	146.2	146.2	147.3
50°	4989.0	4522.6	3007.9	1099.4	256.2	166.5	158.0	139.8	133.4	131.3	133.4
52.5°	5140.6	4586.6	3016.5	912.6	171.9	162.2	146.2	127.0	119.5	118.5	119.5
55°	5269.7	4717.9	2947.1	679.9	153.7	152.6	135.6	114.2	105.7	109.9	112.1
57.5°	5301.8	4730.7	2808.3	449.4	152.6	139.8	123.8	102.5	96.1	100.3	101.4
60°	5382.9	4678.4	2635.4	276.5	149.4	124.9	109.9	90.7	86.5	87.5	89.7
62.5°	5313.5	4649.6	2339.7	193.2	137.7	114.2	102.5	83.3	75.8	74.7	74.7
65°	5243.0	4479.9	1789.0	160.1	122.8	106.7	92.9	73.7	65.1	60.8	60.8
67.5°	5018.9	4099.9	1021.5	148.4	111.0	98.2	84.3	67.2	56.6	51.2	49.1
70°	4454.2	3284.4	314.9	135.6	112.1	91.8	77.9	58.7	49.1	41.6	40.6
72.5°	3488.2	2053.7	147.3	119.5	115.3	85.4	72.6	54.4	43.8	35.2	34.2
75°	2052.6	492.1	120.6	88.6	98.2	90.7	71.5	52.3	38.4	28.8	27.8
77.5°	446.2	119.5	107.8	59.8	73.7	87.5	68.3	45.9	34.2	22.4	21.3
80°	107.8	93.9	98.2	45.9	49.1	60.8	55.5	39.5	31.0	18.1	17.1
82.5°	72.6	70.4	86.5	28.8	24.6	22.4	23.5	24.6	25.6	13.9	12.8
85°	48.0	60.8	45.9	16.0	13.9	11.7	11.7	10.7	14.9	8.5	8.5
87.5°	7.5	6.4	7.5	6.4	6.4	5.3	4.3	4.3	3.2	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)