

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: P553500

Luminaire Tested: **VERD-G-CA2-140-722-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-722-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1290mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14897 lumens
Efficiency: N/A
Efficacy: 104.6 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

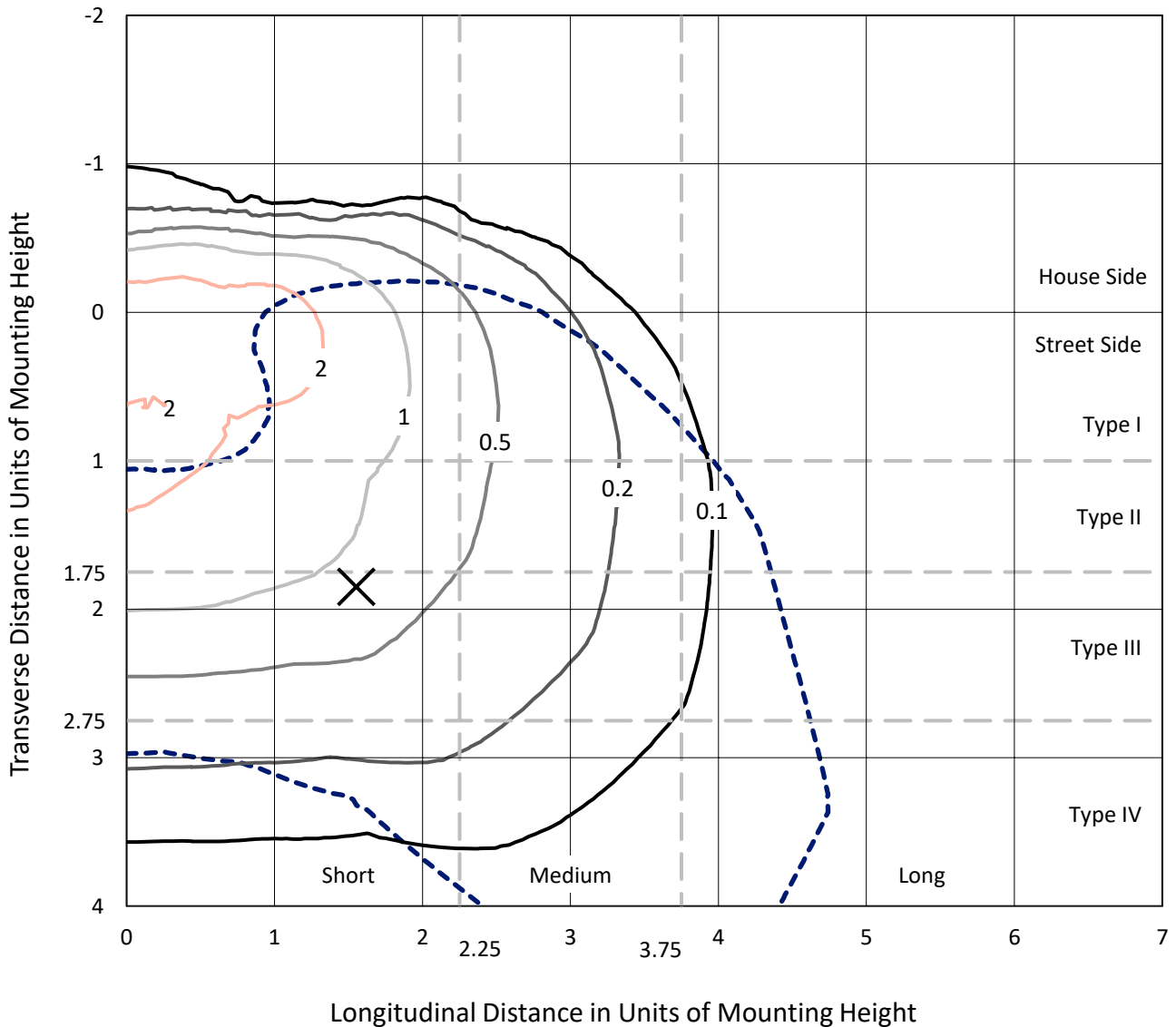
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

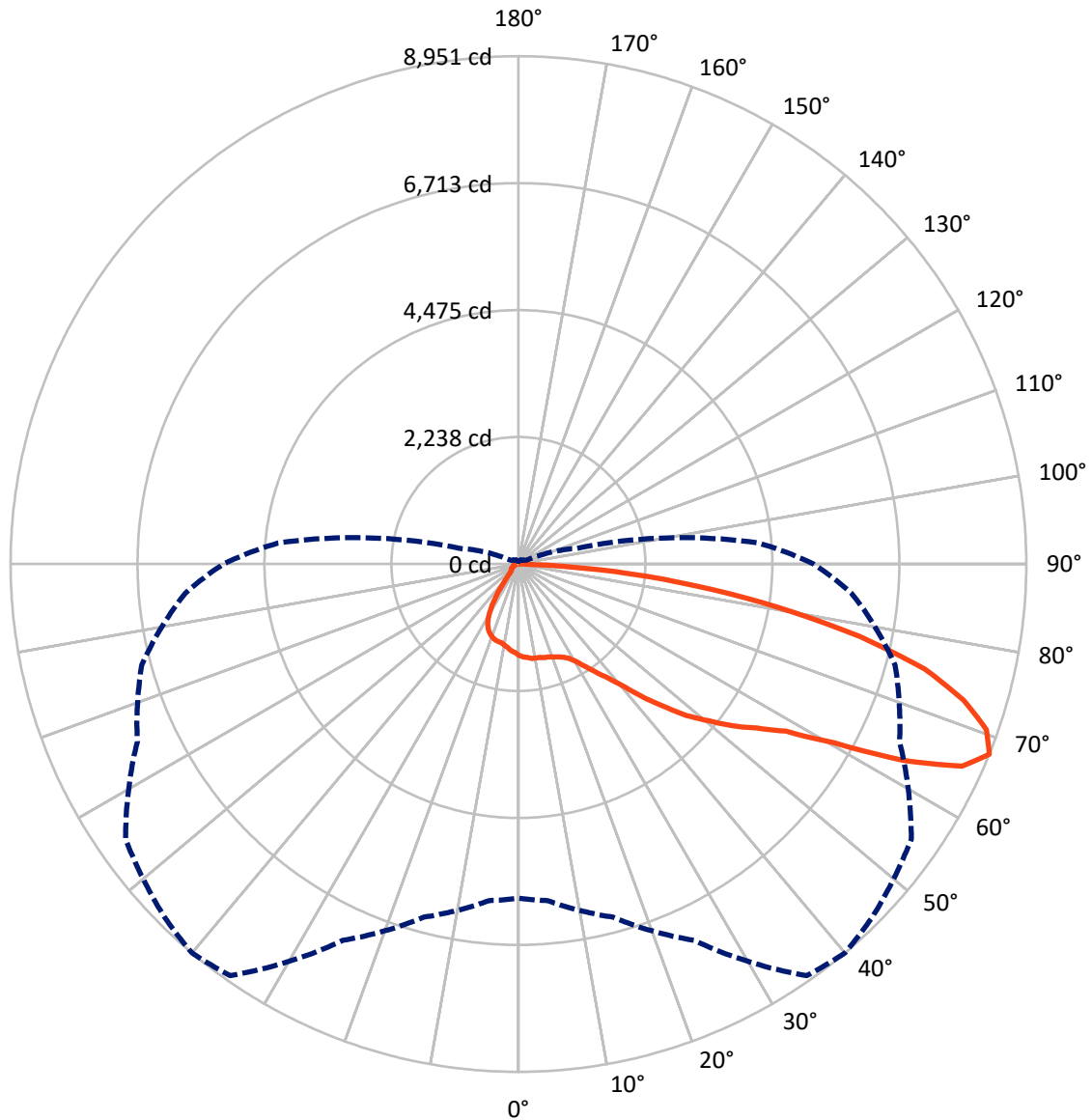
✕ Max cd
 - - - 1/2 Max cd



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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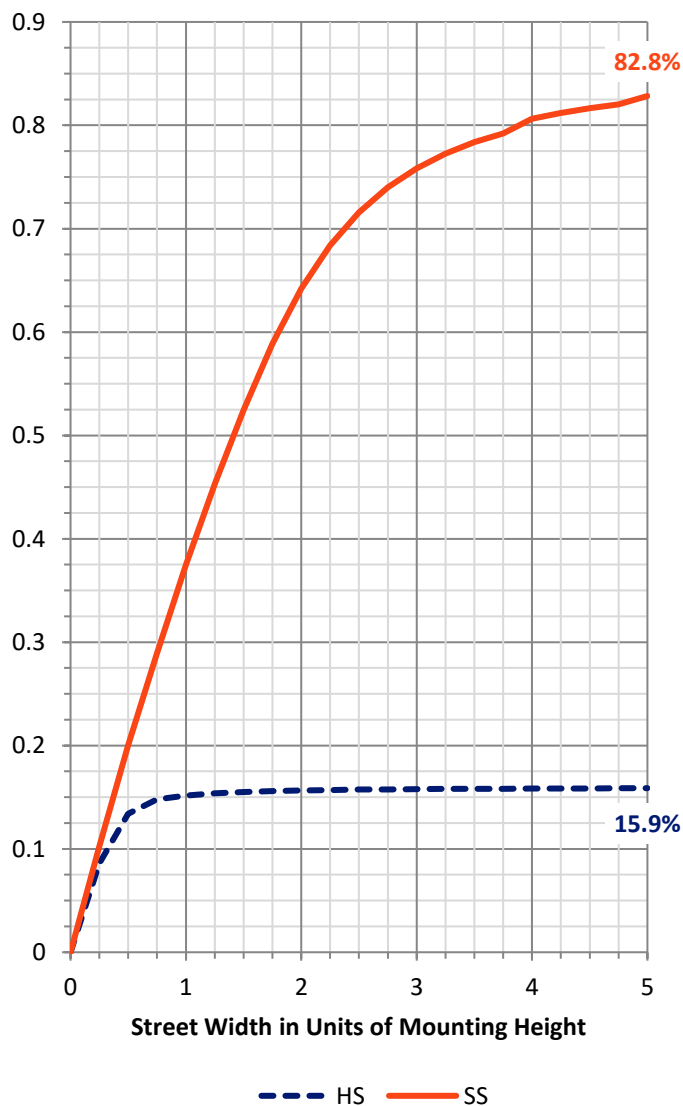
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2390.7	0.0	2390.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	12506.3	0.0	12506.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	14897.0	0.0	14897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.0
10°-20°	452.6	3.0
20°-30°	753.0	5.1
30°-40°	1184.1	7.9
40°-50°	2050.1	13.8
50°-60°	3030.5	20.3
60°-70°	3939.8	26.4
70°-80°	2820.0	18.9
80°-90°	514.2	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°	14897.0	100.0
0°-180°	14897.0	100.0

Coefficient of Utilization



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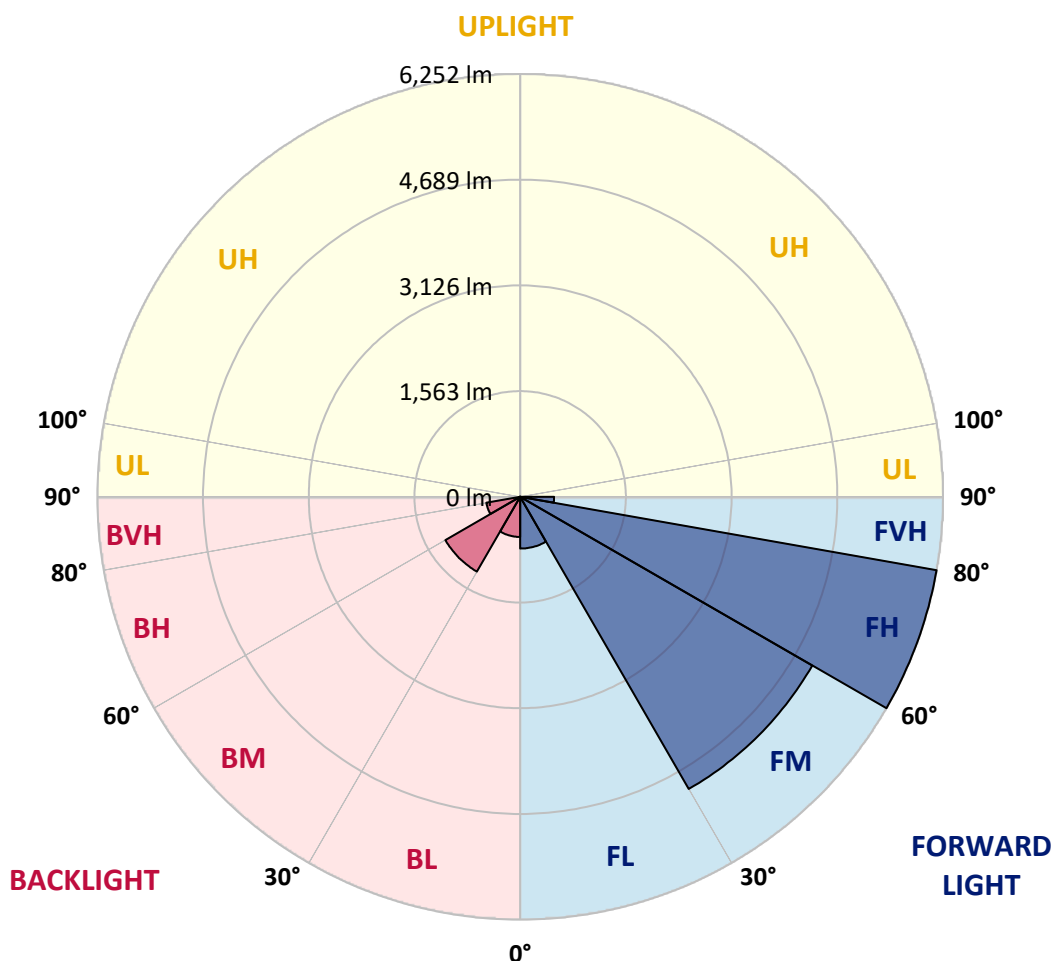
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.1	5.1			
FM	(30°-60°)	4987.6	33.5			
FH	(60°-80°)	6251.9	42.0			G3/7500
FVH	(80°-90°)	501.6	3.4			G4/750
BL	(0°-30°)	593.1	4.0	B2/1000		
BM	(30°-60°)	1277.1	8.6	B2/2500		
BH	(60°-80°)	507.9	3.4	B2/1000		G2/1000
BVH	(80°-90°)	12.6	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°	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6
2.5°	1677.8	1676.7	1665.6	1660.1	1644.6	1639.1	1640.2	1633.6	1618.1	1620.3	1604.8
5°	1680.0	1687.8	1671.2	1666.7	1661.2	1654.6	1662.3	1653.5	1640.2	1644.6	1628.0
7.5°	1690.0	1693.3	1685.5	1681.1	1667.9	1681.1	1680.0	1672.3	1663.4	1655.7	1649.0
10°	1693.3	1690.0	1674.5	1671.2	1671.2	1684.4	1690.0	1693.3	1693.3	1681.1	1676.7
12.5°	1676.7	1674.5	1659.0	1665.6	1680.0	1688.9	1706.6	1717.6	1735.3	1722.0	1715.4
15°	1651.3	1656.8	1663.4	1665.6	1692.2	1712.1	1728.7	1748.6	1778.5	1778.5	1776.2
17.5°	1659.0	1670.1	1677.8	1688.9	1714.3	1720.9	1744.2	1776.2	1826.0	1829.3	1834.9
20°	1697.7	1697.7	1699.9	1707.7	1729.8	1749.7	1769.6	1810.5	1868.0	1886.8	1892.4
22.5°	1739.7	1737.5	1747.5	1746.4	1764.1	1777.3	1802.8	1838.2	1910.1	1945.5	1959.8
25°	1774.0	1780.7	1789.5	1778.5	1812.7	1818.3	1838.2	1881.3	1957.6	2020.7	2051.6
27.5°	1832.6	1837.1	1834.9	1840.4	1874.7	1878.0	1896.8	1958.7	2029.5	2115.8	2183.2
30°	1933.3	1917.8	1920.0	1932.2	1982.0	1988.6	2008.5	2068.2	2124.6	2238.5	2344.7
32.5°	2071.5	2071.5	2047.2	2070.4	2127.9	2145.6	2175.5	2265.1	2320.4	2381.2	2556.0
35°	2335.9	2335.9	2318.2	2257.3	2286.1	2330.3	2385.6	2509.5	2679.8	2878.9	3064.7
37.5°	2773.9	2767.2	2697.5	2588.0	2526.1	2541.6	2595.8	2796.0	3072.5	3558.0	3700.7
40°	3297.0	3278.2	3147.7	2995.1	2836.9	2810.4	2835.8	3086.9	3480.6	4200.6	4254.8
42.5°	3761.5	3760.4	3569.1	3439.7	3237.3	3193.0	3163.2	3381.0	3889.8	4667.3	4686.1
45°	4205.0	4194.0	4008.1	3867.7	3683.0	3570.2	3562.4	3715.1	4320.0	5087.6	5008.0
47.5°	4599.9	4616.5	4408.5	4273.6	4069.0	3991.6	3929.6	4060.1	4716.0	5446.0	5281.2
50°	5054.4	5084.3	4773.5	4625.3	4418.5	4342.2	4376.4	4472.7	5110.8	5739.0	5524.5
52.5°	5628.4	5533.3	5224.8	4970.4	4777.9	4740.3	4748.1	4881.9	5567.6	5979.0	5693.7
55°	6304.2	6163.7	5854.1	5457.0	5142.9	5107.5	5104.2	5240.2	5990.1	6203.6	5824.2
57.5°	6558.6	6631.6	6509.9	6216.8	5661.6	5557.7	5476.9	5603.0	6369.5	6451.3	5961.3
60°	7145.9	7224.4	7134.8	6946.8	6758.8	6397.1	6043.2	6031.0	6723.4	6688.0	6018.9
62.5°	7211.1	7185.7	7583.9	7650.2	7761.9	7621.5	7359.3	6598.4	7043.0	6808.5	6064.2
65°	6846.1	6849.5	7383.7	7748.6	8520.6	8592.5	8429.9	7500.9	7283.0	6856.1	6032.1
67.5°	5890.6	5955.8	6442.5	7317.3	8856.9	8950.9	8813.7	8453.2	7412.4	6872.7	5892.8
70°	5062.2	5064.4	5524.5	6591.8	8679.9	8750.7	8687.6	8515.1	7362.7	6741.1	5514.5
72.5°	3983.8	3971.7	4375.3	5453.7	8055.0	8205.4	8171.1	8289.5	7180.2	6265.5	4691.7
75°	2876.7	2901.0	3310.3	4200.6	6929.1	7395.8	7561.7	7922.3	6529.8	5321.0	3439.7
77.5°	2014.0	2038.4	2431.0	3190.8	5591.9	6154.9	6421.4	6737.8	5292.2	3944.0	1763.0
80°	1317.2	1339.4	1676.7	2396.7	4168.5	4648.5	4848.7	4659.6	3107.9	1656.8	193.6
82.5°	765.4	808.5	1065.1	1644.6	2921.0	3148.8	3159.8	2452.0	1161.3	148.2	90.7
85°	372.7	400.4	637.1	975.5	1598.2	1680.0	1558.4	912.5	271.0	70.8	52.0
87.5°	55.3	73.0	251.1	368.3	271.0	222.3	133.8	31.0	17.7	8.8	6.6
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°	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6
2.5°	1596.0	1594.9	1598.2	1583.8	1584.9	1567.2	1560.6	1557.3	1572.7	1570.5	1581.6
5°	1615.9	1604.8	1603.7	1568.3	1565.0	1542.9	1529.6	1509.7	1525.2	1521.9	1521.9
7.5°	1628.0	1617.0	1610.3	1568.3	1539.6	1500.8	1478.7	1463.2	1462.1	1458.8	1459.9
10°	1647.9	1642.4	1607.0	1560.6	1521.9	1472.1	1430.1	1405.7	1394.7	1395.8	1388.0
12.5°	1692.2	1681.1	1633.6	1578.3	1516.3	1447.8	1393.6	1350.4	1328.3	1323.9	1311.7
15°	1755.2	1743.1	1683.3	1620.3	1530.7	1450.0	1369.2	1292.9	1255.3	1239.8	1228.8
17.5°	1829.3	1810.5	1742.0	1670.1	1560.6	1447.8	1346.0	1243.1	1171.3	1130.3	1127.0
20°	1887.9	1879.1	1800.6	1723.2	1579.4	1433.4	1307.3	1171.3	1064.0	988.8	973.3
22.5°	1965.4	1966.5	1879.1	1763.0	1594.9	1409.0	1246.5	1070.6	924.6	824.0	806.3
25°	2077.1	2060.5	1962.0	1795.0	1598.2	1381.4	1163.5	944.5	754.3	641.5	621.6
27.5°	2210.9	2186.6	2029.5	1811.6	1583.8	1326.1	1052.9	779.7	557.4	460.1	444.6
30°	2352.5	2295.0	2084.8	1818.3	1539.6	1236.5	895.9	569.6	394.8	326.3	319.6
32.5°	2533.8	2449.8	2132.4	1796.1	1472.1	1100.5	694.6	390.4	273.2	236.7	238.9
35°	2905.5	2699.7	2206.5	1771.8	1377.0	930.1	485.5	258.8	211.2	206.8	207.9
37.5°	3467.3	3141.0	2337.0	1736.4	1235.4	711.2	311.9	200.2	201.3	201.3	201.3
40°	4010.4	3623.3	2537.2	1666.7	1061.8	497.7	205.7	189.1	194.7	193.6	194.7
42.5°	4397.5	3981.6	2747.3	1581.6	861.6	315.2	184.7	178.1	181.4	180.3	183.6
45°	4711.6	4289.1	2938.6	1461.0	644.8	205.7	181.4	169.2	165.9	164.8	168.1
47.5°	4943.8	4491.5	3075.8	1310.6	430.2	177.0	173.6	155.9	151.5	151.5	152.6
50°	5169.5	4686.1	3116.7	1139.2	265.4	172.5	163.7	144.9	138.3	136.0	138.3
52.5°	5326.5	4752.5	3125.6	945.6	178.1	168.1	151.5	131.6	123.9	122.8	123.9
55°	5460.3	4888.5	3053.7	704.5	159.3	158.2	140.5	118.3	109.5	113.9	116.1
57.5°	5493.5	4901.8	2909.9	465.6	158.2	144.9	128.3	106.2	99.5	104.0	105.1
60°	5577.6	4847.6	2730.7	286.5	154.8	129.4	113.9	94.0	89.6	90.7	92.9
62.5°	5505.7	4817.7	2424.4	200.2	142.7	118.3	106.2	86.3	78.5	77.4	77.4
65°	5432.7	4641.9	1853.7	165.9	127.2	110.6	96.2	76.3	67.5	63.0	63.0
67.5°	5200.4	4248.2	1058.4	153.7	115.0	101.8	87.4	69.7	58.6	53.1	50.9
70°	4615.3	3403.2	326.3	140.5	116.1	95.1	80.7	60.8	50.9	43.1	42.0
72.5°	3614.4	2127.9	152.6	123.9	119.4	88.5	75.2	56.4	45.3	36.5	35.4
75°	2126.8	509.9	125.0	91.8	101.8	94.0	74.1	54.2	39.8	29.9	28.8
77.5°	462.3	123.9	111.7	61.9	76.3	90.7	70.8	47.6	35.4	23.2	22.1
80°	111.7	97.3	101.8	47.6	50.9	63.0	57.5	40.9	32.1	18.8	17.7
82.5°	75.2	73.0	89.6	29.9	25.4	23.2	24.3	25.4	26.5	14.4	13.3
85°	49.8	63.0	47.6	16.6	14.4	12.2	12.2	11.1	15.5	8.8	8.8
87.5°	7.7	6.6	7.7	6.6	6.6	5.5	4.4	4.4	3.3	4.4	4.4
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)