

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: P509520

Luminaire Tested: **VERD-G-CA2-110-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509520
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-CA2-110-750-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14910 lumens
Efficiency: N/A
Efficacy: 131.7 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

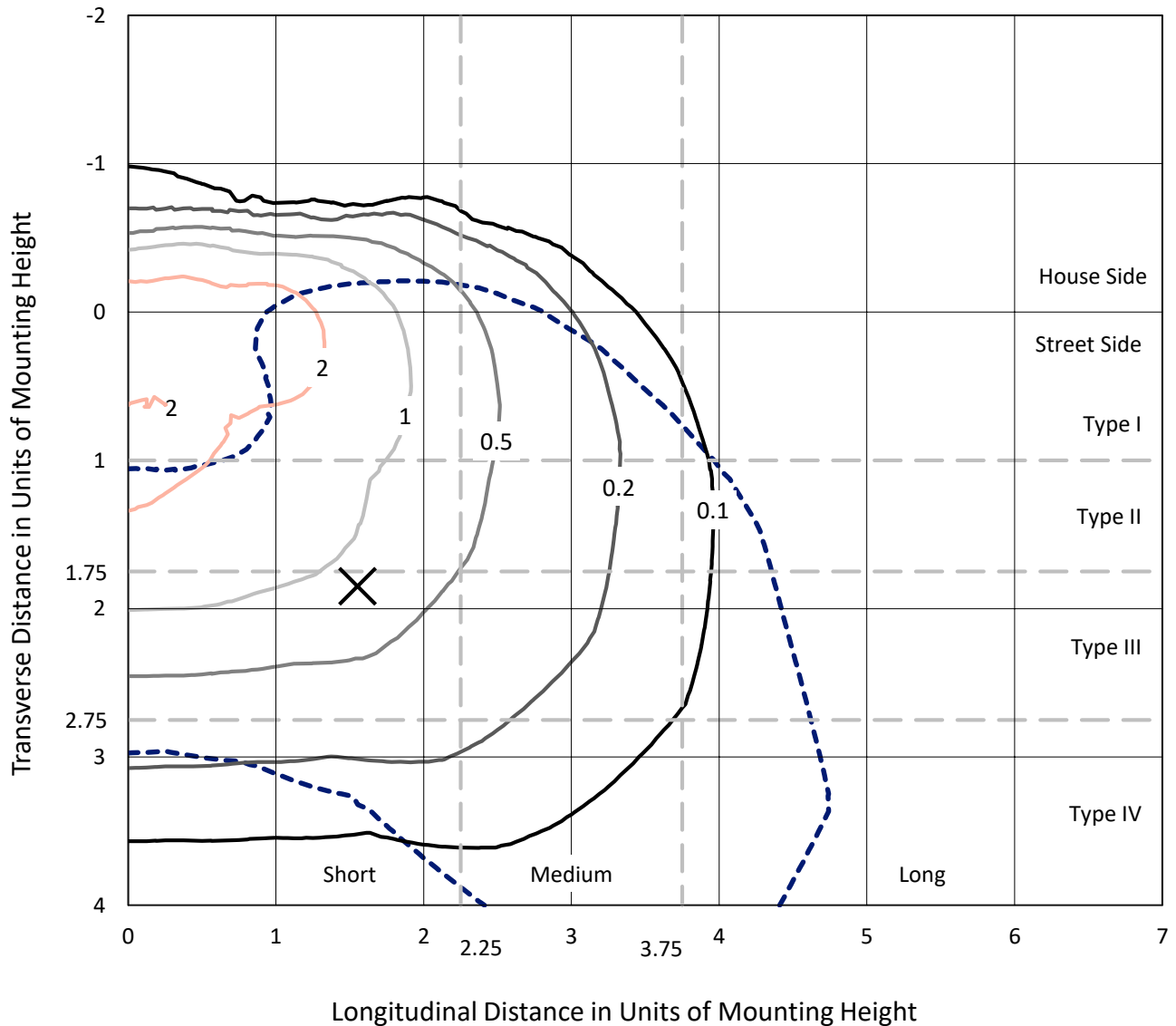
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509520
 CATALOG NUMBER: VERD-G-CA2-110-750-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

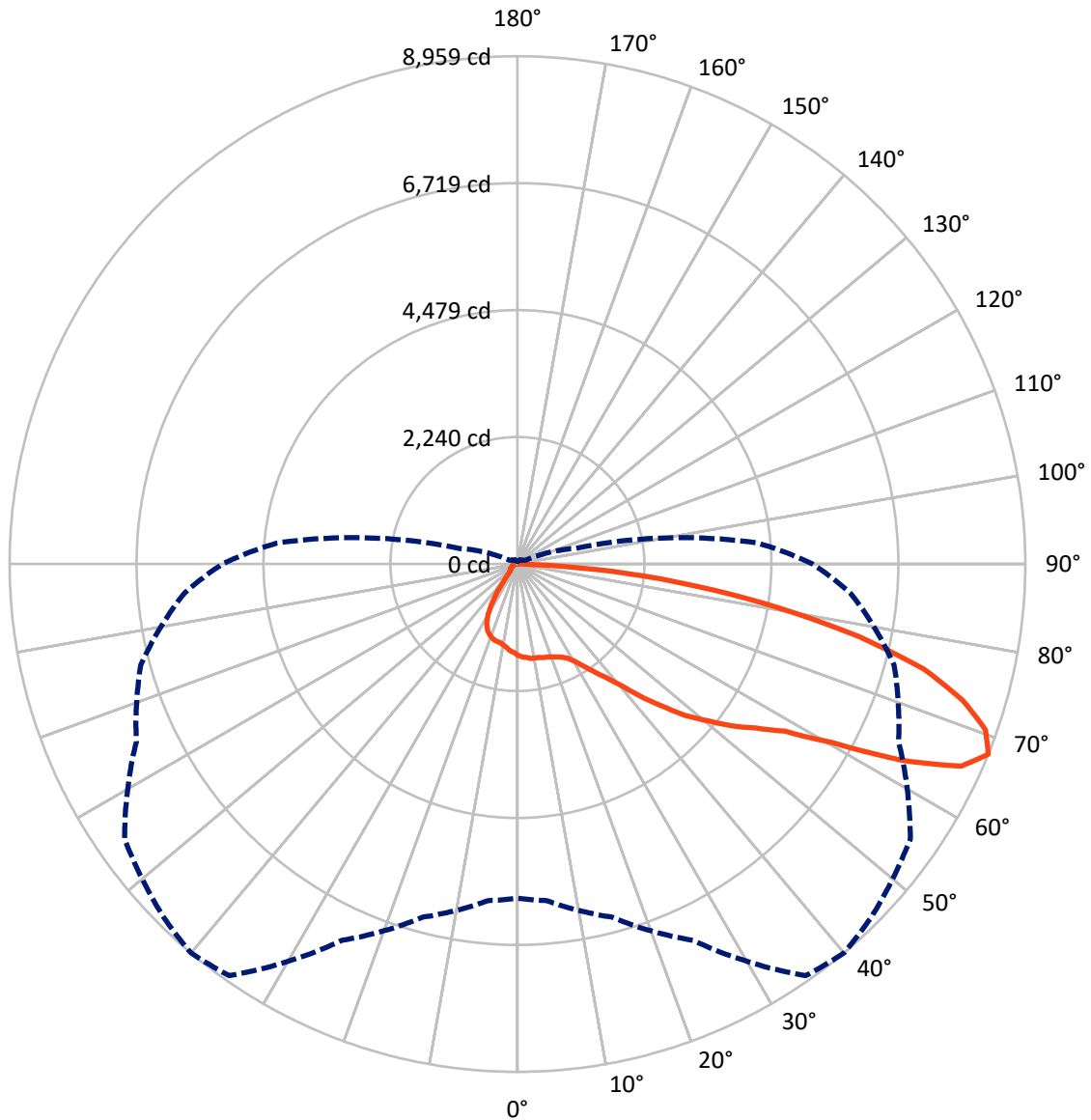
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509520
CATALOG NUMBER: VERD-G-CA2-110-750-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509520

CATALOG NUMBER: VERD-G-CA2-110-750-U-T4-HSS

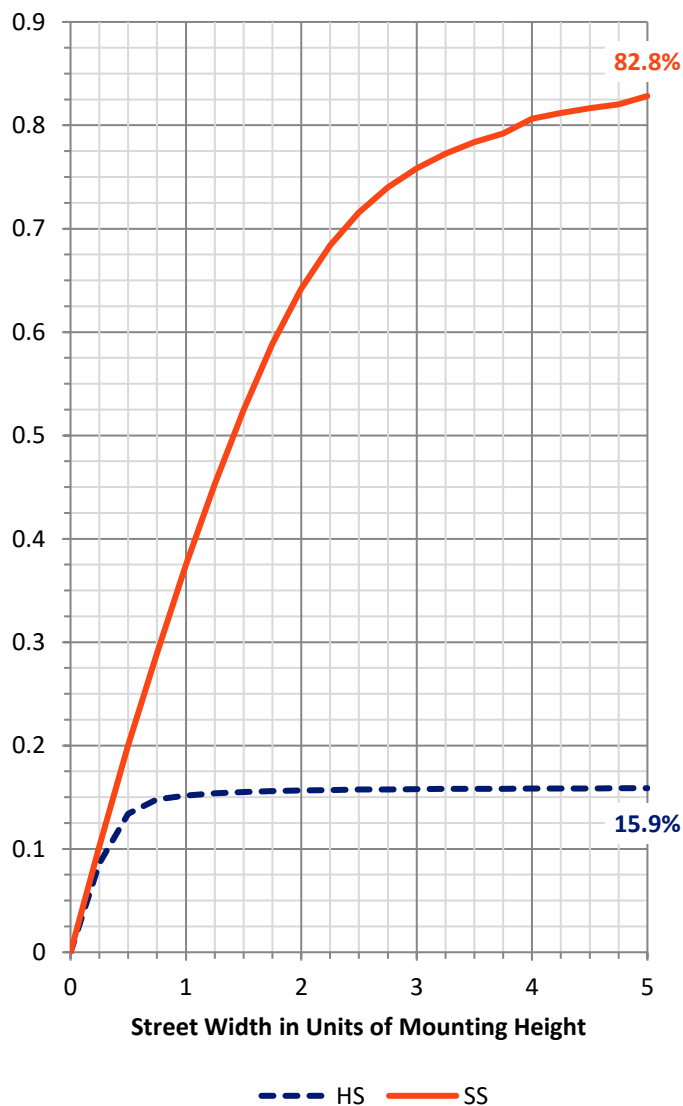
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2392.8	0.0	2392.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	12517.2	0.0	12517.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	14910.0	0.0	14910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	1.0
10°-20°	453.0	3.0
20°-30°	753.7	5.1
30°-40°	1185.1	7.9
40°-50°	2051.9	13.8
50°-60°	3033.1	20.3
60°-70°	3943.3	26.4
70°-80°	2822.5	18.9
80°-90°	514.7	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°	14910.0	100.0
0°-180°	14910.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509520

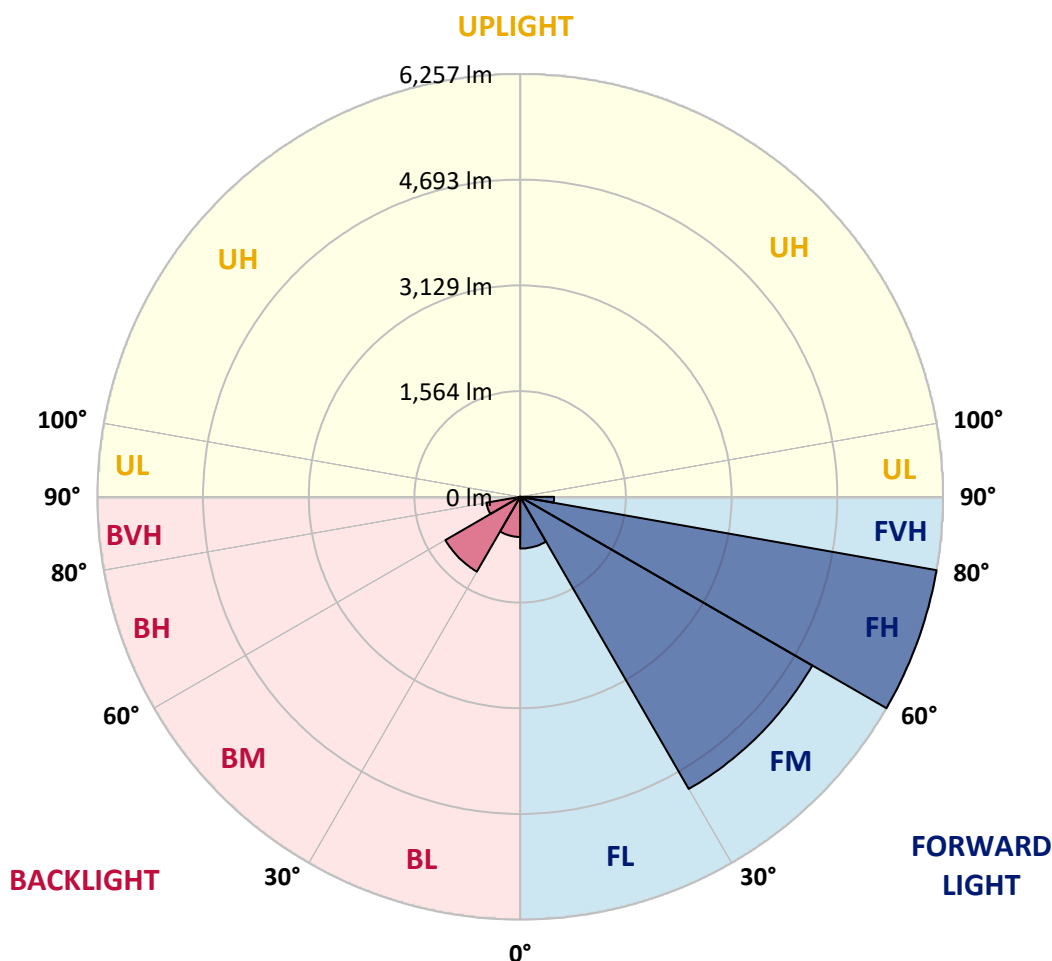
CATALOG NUMBER: VERD-G-CA2-110-750-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.8	5.1			
FM	(30°-60°)	4992.0	33.5			
FH	(60°-80°)	6257.4	42.0			G3/7500
FVH	(80°-90°)	502.0	3.4			G4/750
BL	(0°-30°)	593.6	4.0	B2/1000		
BM	(30°-60°)	1278.2	8.6	B2/2500		
BH	(60°-80°)	508.4	3.4	B2/1000		G2/1000
BVH	(80°-90°)	12.7	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





REPORT NUMBER: P509520

CATALOG NUMBER: VERD-G-CA2-110-750-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1679.3	1678.2	1667.1	1661.6	1646.1	1640.5	1641.6	1635.0	1619.5	1621.7	1606.2
5°	1681.5	1689.2	1672.6	1668.2	1662.7	1656.0	1663.8	1654.9	1641.6	1646.1	1629.5
7.5°	1691.4	1694.8	1687.0	1682.6	1669.3	1682.6	1681.5	1673.7	1664.9	1657.1	1650.5
10°	1694.8	1691.4	1675.9	1672.6	1672.6	1685.9	1691.4	1694.8	1694.8	1682.6	1678.2
12.5°	1678.2	1675.9	1660.5	1667.1	1681.5	1690.3	1708.0	1719.1	1736.8	1723.5	1716.9
15°	1652.7	1658.2	1664.9	1667.1	1693.7	1713.6	1730.2	1750.1	1780.0	1780.0	1777.8
17.5°	1660.5	1671.5	1679.3	1690.3	1715.8	1722.4	1745.7	1777.8	1827.6	1830.9	1836.5
20°	1699.2	1699.2	1701.4	1709.2	1731.3	1751.2	1771.1	1812.1	1869.7	1888.5	1894.0
22.5°	1741.3	1739.0	1749.0	1747.9	1765.6	1778.9	1804.4	1839.8	1911.7	1947.2	1961.5
25°	1775.6	1782.2	1791.1	1780.0	1814.3	1819.9	1839.8	1883.0	1959.3	2022.4	2053.4
27.5°	1834.2	1838.7	1836.5	1842.0	1876.3	1879.6	1898.4	1960.4	2031.3	2117.6	2185.2
30°	1935.0	1919.5	1921.7	1933.9	1983.7	1990.3	2010.3	2070.0	2126.5	2240.5	2346.8
32.5°	2073.3	2073.3	2049.0	2072.2	2129.8	2147.5	2177.4	2267.1	2322.4	2383.3	2558.2
35°	2337.9	2337.9	2320.2	2259.3	2288.1	2332.4	2387.7	2511.7	2682.2	2881.4	3067.4
37.5°	2776.3	2769.6	2699.9	2590.3	2528.3	2543.8	2598.1	2798.4	3075.2	3561.1	3703.9
40°	3299.9	3281.0	3150.4	2997.7	2839.4	2812.8	2838.3	3089.5	3483.6	4204.3	4258.5
42.5°	3764.8	3763.7	3572.2	3442.7	3240.1	3195.8	3165.9	3384.0	3893.2	4671.4	4690.2
45°	4208.7	4197.6	4011.6	3871.1	3686.2	3573.3	3565.5	3718.3	4323.8	5092.0	5012.3
47.5°	4603.9	4620.5	4412.4	4277.3	4072.5	3995.0	3933.1	4063.7	4720.1	5450.7	5285.8
50°	5058.8	5088.7	4777.7	4629.3	4422.3	4346.0	4380.3	4476.6	5115.3	5744.1	5529.3
52.5°	5633.4	5538.2	5229.3	4974.7	4782.1	4744.5	4752.2	4886.2	5572.5	5984.3	5698.7
55°	6309.7	6169.1	5859.2	5461.8	5147.4	5112.0	5108.7	5244.8	5995.3	6209.0	5829.3
57.5°	6564.3	6637.4	6515.6	6222.3	5666.6	5562.5	5481.7	5607.9	6375.0	6456.9	5966.6
60°	7152.1	7230.7	7141.0	6952.9	6764.7	6402.7	6048.5	6036.3	6729.3	6693.8	6024.1
62.5°	7217.4	7192.0	7590.5	7656.9	7768.7	7628.1	7365.8	6604.2	7049.2	6814.5	6069.5
65°	6852.1	6855.4	7390.1	7755.4	8528.1	8600.0	8437.3	7507.4	7289.4	6862.1	6037.4
67.5°	5895.7	5961.0	6448.1	7323.7	8864.6	8958.7	8821.4	8460.5	7418.9	6878.7	5897.9
70°	5066.6	5068.8	5529.3	6597.5	8687.5	8758.3	8695.2	8522.5	7369.1	6747.0	5519.3
72.5°	3987.3	3975.1	4379.2	5458.5	8062.0	8212.6	8178.3	8296.7	7186.4	6271.0	4695.8
75°	2879.2	2903.6	3313.2	4204.3	6935.1	7402.3	7568.3	7929.2	6535.5	5325.6	3442.7
77.5°	2015.8	2040.1	2433.1	3193.6	5596.8	6160.3	6427.0	6743.6	5296.8	3947.4	1764.5
80°	1318.4	1340.5	1678.2	2398.8	4172.2	4652.6	4852.9	4663.7	3110.6	1658.2	193.7
82.5°	766.0	809.2	1066.0	1646.1	2923.5	3151.5	3162.6	2454.1	1162.3	148.3	90.8
85°	373.0	400.7	637.6	976.3	1599.6	1681.5	1559.7	913.2	271.2	70.8	52.0
87.5°	55.3	73.1	251.3	368.6	271.2	222.5	133.9	31.0	17.7	8.9	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



REPORT NUMBER: P509520

CATALOG NUMBER: VERD-G-CA2-110-750-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1597.4	1596.2	1599.6	1585.2	1586.3	1568.6	1561.9	1558.6	1574.1	1571.9	1583.0
5°	1617.3	1606.2	1605.1	1569.7	1566.4	1544.2	1530.9	1511.0	1526.5	1523.2	1523.2
7.5°	1629.5	1618.4	1611.7	1569.7	1540.9	1502.2	1480.0	1464.5	1463.4	1460.1	1461.2
10°	1649.4	1643.8	1608.4	1561.9	1523.2	1473.4	1431.3	1407.0	1395.9	1397.0	1389.2
12.5°	1693.7	1682.6	1635.0	1579.6	1517.7	1449.0	1394.8	1351.6	1329.5	1325.0	1312.9
15°	1756.8	1744.6	1684.8	1621.7	1532.0	1451.2	1370.4	1294.0	1256.4	1240.9	1229.8
17.5°	1830.9	1812.1	1743.5	1671.5	1561.9	1449.0	1347.2	1244.2	1172.3	1131.3	1128.0
20°	1889.6	1880.7	1802.1	1724.7	1580.7	1434.6	1308.4	1172.3	1064.9	989.6	974.1
22.5°	1967.1	1968.2	1880.7	1764.5	1596.2	1410.3	1247.6	1071.5	925.4	824.7	807.0
25°	2078.9	2062.3	1963.8	1796.6	1599.6	1382.6	1164.5	945.3	755.0	642.0	622.1
27.5°	2212.8	2188.5	2031.3	1813.2	1585.2	1327.3	1053.8	780.4	557.9	460.5	445.0
30°	2354.5	2297.0	2086.6	1819.9	1540.9	1237.6	896.6	570.1	395.2	326.6	319.9
32.5°	2536.1	2451.9	2134.2	1797.7	1473.4	1101.4	695.2	390.8	273.4	236.9	239.1
35°	2908.0	2702.1	2208.4	1773.4	1378.2	931.0	486.0	259.0	211.4	207.0	208.1
37.5°	3470.3	3143.8	2339.0	1737.9	1236.5	711.8	312.2	200.4	201.5	201.5	201.5
40°	4013.9	3626.4	2539.4	1668.2	1062.7	498.1	205.9	189.3	194.8	193.7	194.8
42.5°	4401.3	3985.1	2749.7	1583.0	862.3	315.5	184.9	178.2	181.5	180.4	183.8
45°	4715.7	4292.8	2941.2	1462.3	645.4	205.9	181.5	169.4	166.0	164.9	168.3
47.5°	4948.1	4495.4	3078.5	1311.8	430.6	177.1	173.8	156.1	151.7	151.7	152.8
50°	5174.0	4690.2	3119.4	1140.2	265.7	172.7	163.8	145.0	138.4	136.2	138.4
52.5°	5331.2	4756.6	3128.3	946.5	178.2	168.3	151.7	131.7	124.0	122.9	124.0
55°	5465.1	4892.8	3056.3	705.1	159.4	158.3	140.6	118.4	109.6	114.0	116.2
57.5°	5498.3	4906.1	2912.4	466.0	158.3	145.0	128.4	106.3	99.6	104.1	105.2
60°	5582.4	4851.8	2733.1	286.7	155.0	129.5	114.0	94.1	89.7	90.8	93.0
62.5°	5510.5	4821.9	2426.5	200.4	142.8	118.4	106.3	86.3	78.6	77.5	77.5
65°	5437.4	4645.9	1855.3	166.0	127.3	110.7	96.3	76.4	67.5	63.1	63.1
67.5°	5205.0	4251.9	1059.4	153.9	115.1	101.8	87.5	69.7	58.7	53.1	50.9
70°	4619.4	3406.1	326.6	140.6	116.2	95.2	80.8	60.9	50.9	43.2	42.1
72.5°	3617.6	2129.8	152.8	124.0	119.6	88.6	75.3	56.5	45.4	36.5	35.4
75°	2128.7	510.3	125.1	91.9	101.8	94.1	74.2	54.2	39.9	29.9	28.8
77.5°	462.7	124.0	111.8	62.0	76.4	90.8	70.8	47.6	35.4	23.2	22.1
80°	111.8	97.4	101.8	47.6	50.9	63.1	57.6	41.0	32.1	18.8	17.7
82.5°	75.3	73.1	89.7	29.9	25.5	23.2	24.4	25.5	26.6	14.4	13.3
85°	49.8	63.1	47.6	16.6	14.4	12.2	12.2	11.1	15.5	8.9	8.9
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)