

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: P509457

Luminaire Tested: **VERD-G-CA2-100-730-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-100-730-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14777 lumens  
Efficiency: N/A  
Efficacy: 144.0 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

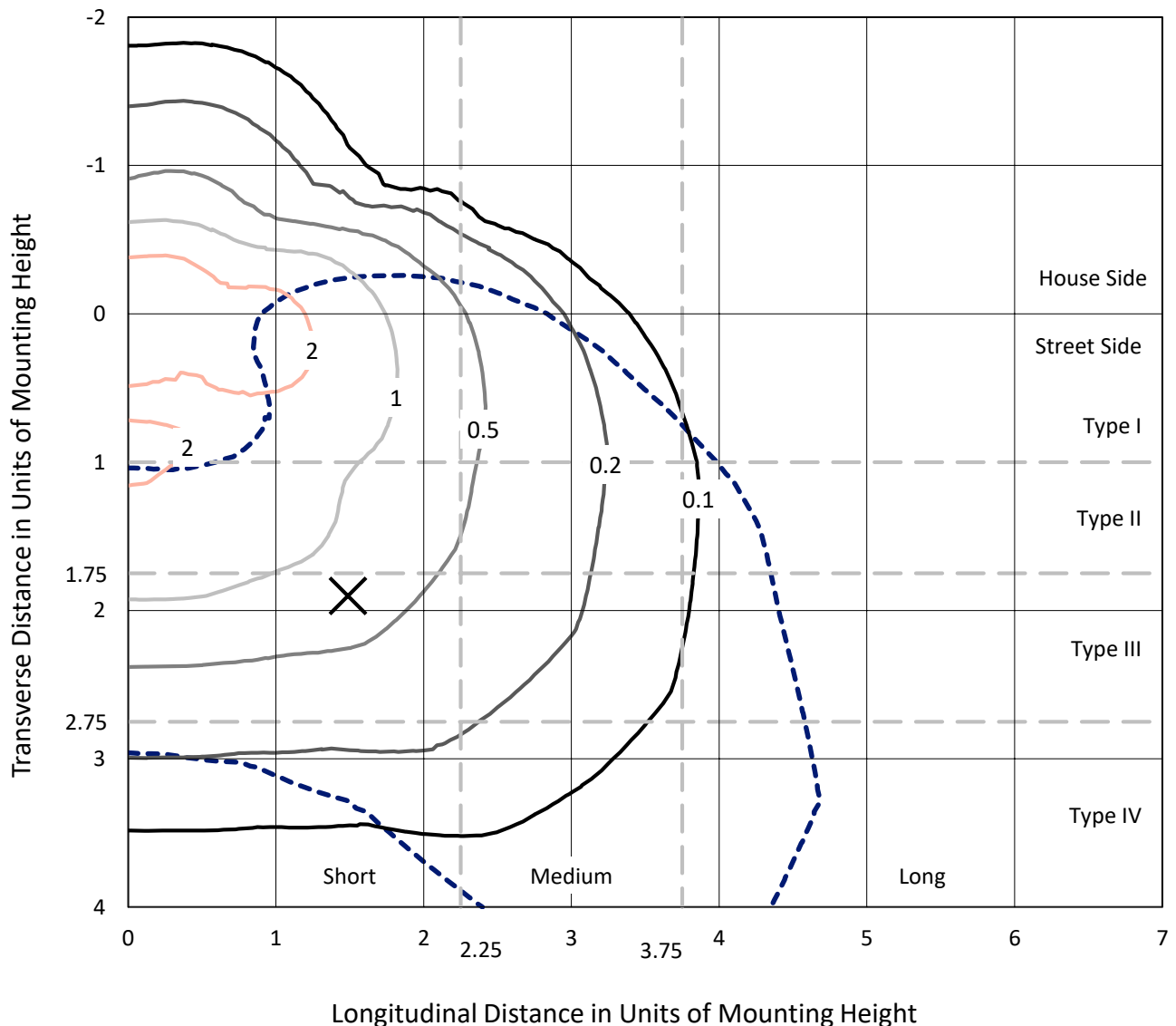
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

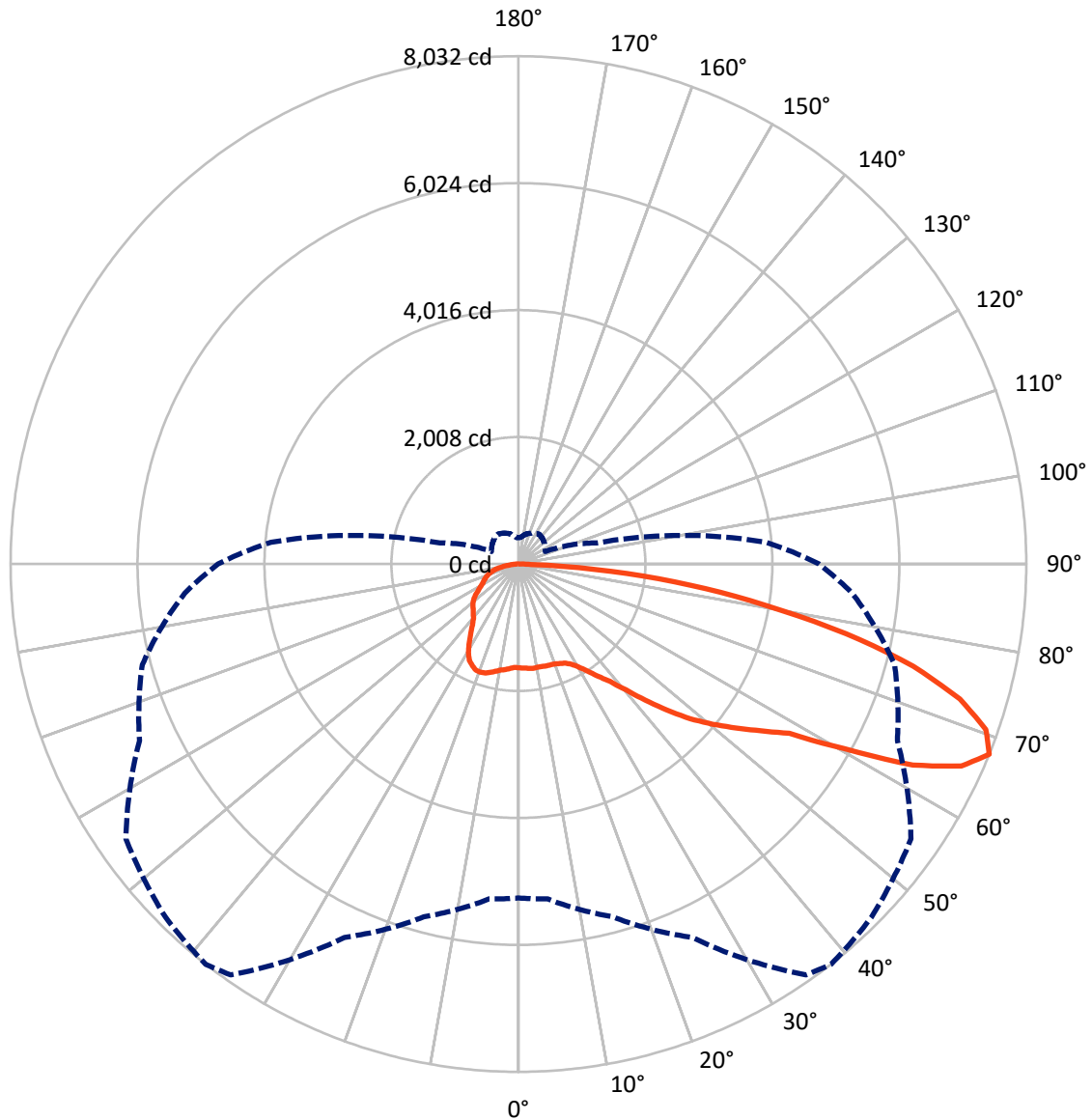
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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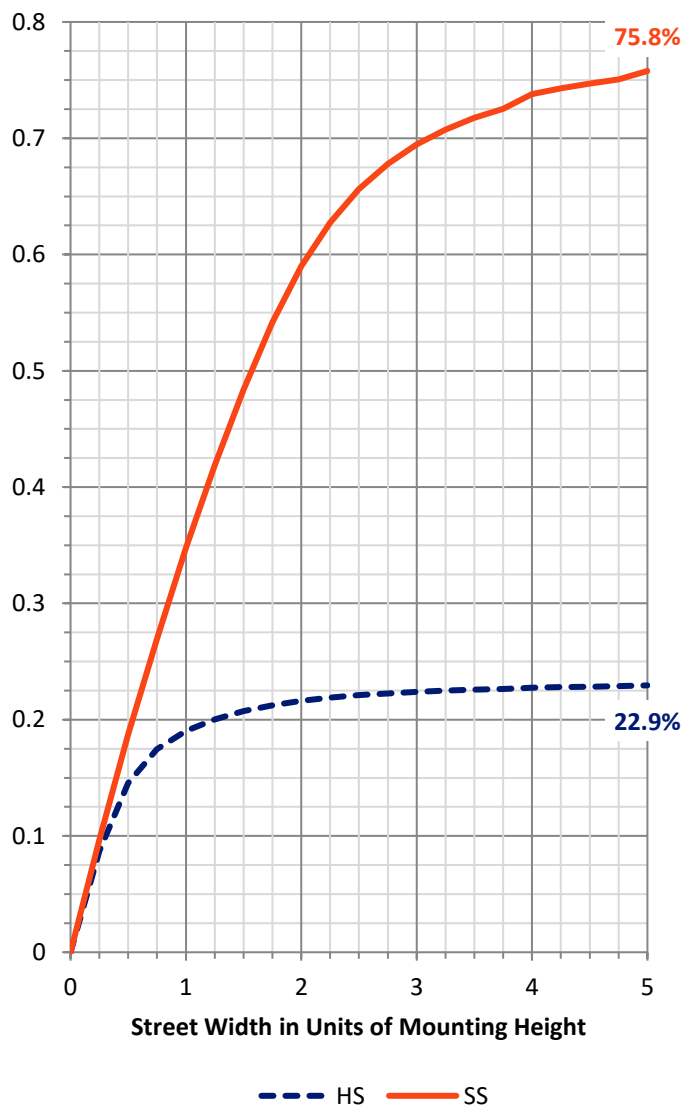
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3428.7	0.0	3428.7
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	11348.3	0.0	11348.3
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	14777.0	0.0	14777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.1
10°-20°	491.2	3.3
20°-30°	832.6	5.6
30°-40°	1275.9	8.6
40°-50°	2102.4	14.2
50°-60°	3004.9	20.3
60°-70°	3743.4	25.3
70°-80°	2667.6	18.1
80°-90°	499.7	3.4
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°	14777.0	100.0
0°-180°	14777.0	100.0

**Coefficient of Utilization**



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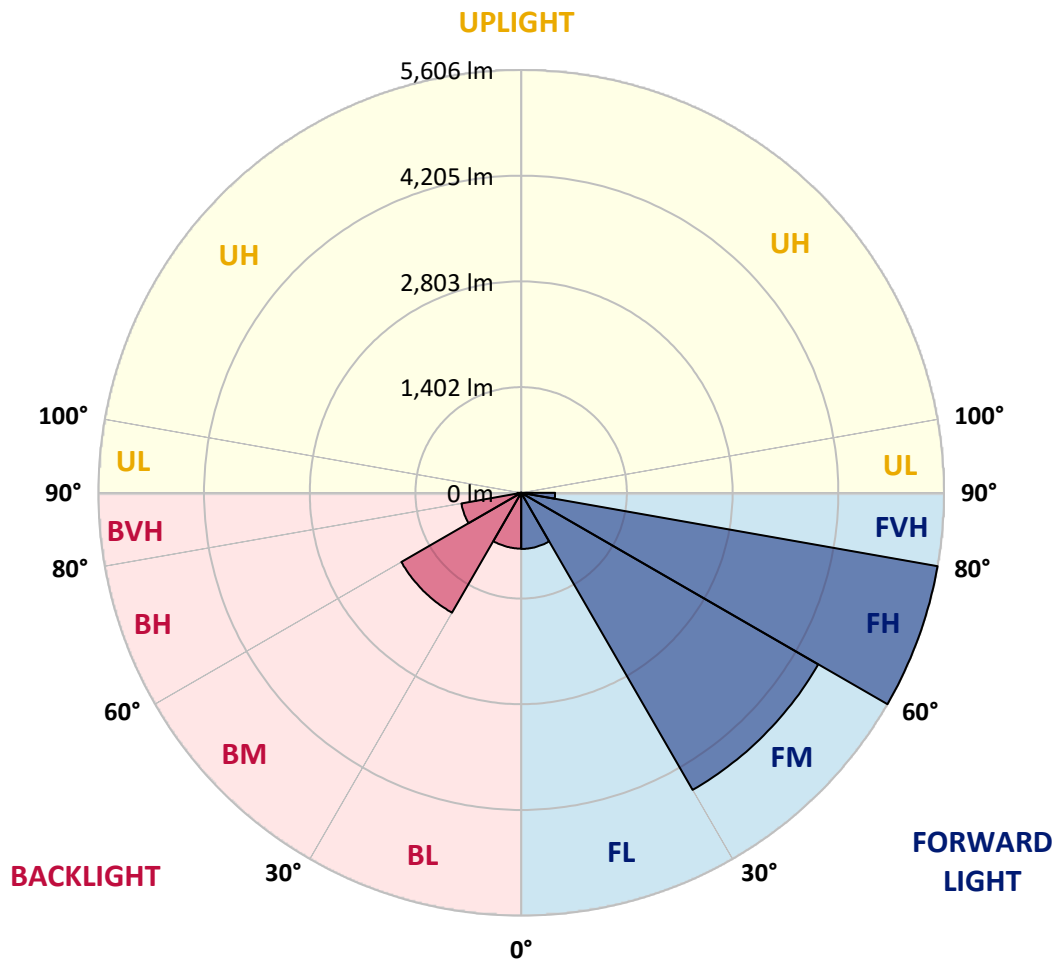
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.8	5.0			
FM (30°-60°)	4548.0	30.8			
FH (60°-80°)	5606.1	37.9			G3/7500
FVH (80°-90°)	450.5	3.0			G3/500
BL (0°-30°)	739.3	5.0	B2/1000		
BM (30°-60°)	1835.3	12.4	B2/2500		
BH (60°-80°)	804.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	49.2	0.3			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°	38°	45°	55°	65°	75°	85°
0°	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8
2.5°	1672.2	1679.1	1666.3	1664.3	1656.5	1646.7	1648.6	1640.8	1631.0	1634.9	1636.8
5°	1682.0	1682.0	1672.2	1662.4	1658.4	1656.5	1658.4	1649.6	1647.6	1654.5	1648.6
7.5°	1673.2	1679.1	1662.4	1662.4	1655.5	1667.3	1668.3	1657.5	1665.3	1665.3	1664.3
10°	1671.2	1673.2	1666.3	1652.6	1651.6	1658.4	1672.2	1676.1	1680.0	1679.1	1683.0
12.5°	1648.6	1646.7	1632.9	1636.8	1655.5	1662.4	1685.9	1696.7	1711.5	1715.4	1717.4
15°	1620.2	1628.0	1629.0	1640.8	1660.4	1671.2	1694.8	1716.4	1748.8	1756.6	1755.7
17.5°	1623.1	1626.0	1631.0	1637.8	1668.3	1673.2	1711.5	1735.0	1775.3	1802.8	1816.5
20°	1641.8	1635.9	1645.7	1663.4	1680.0	1684.0	1724.2	1760.6	1815.6	1851.9	1867.6
22.5°	1673.2	1674.2	1679.1	1679.1	1690.9	1708.5	1745.8	1774.3	1842.1	1893.1	1920.6
25°	1702.6	1704.6	1710.5	1708.5	1728.2	1736.0	1771.4	1814.6	1892.1	1952.0	2005.1
27.5°	1746.8	1752.7	1748.8	1749.8	1788.1	1795.9	1811.6	1869.6	1949.1	2029.6	2123.9
30°	1829.3	1829.3	1825.4	1829.3	1870.5	1890.2	1895.1	1952.0	2016.8	2114.1	2256.4
32.5°	1948.1	1949.1	1924.5	1944.2	1990.3	2024.7	2039.4	2129.8	2202.4	2249.6	2433.2
35°	2202.4	2191.6	2166.1	2109.1	2138.6	2180.8	2228.0	2342.8	2502.9	2678.7	2863.3
37.5°	2592.2	2591.3	2500.9	2387.0	2336.0	2357.6	2423.4	2595.2	2845.6	3284.5	3447.5
40°	3025.3	3036.1	2905.5	2763.1	2612.9	2614.8	2631.5	2846.6	3208.9	3843.2	3928.6
42.5°	3457.3	3439.6	3295.3	3158.8	2954.6	2941.8	2897.6	3100.9	3588.9	4290.0	4301.8
45°	3842.2	3833.4	3673.3	3534.9	3342.4	3293.3	3243.3	3372.9	3951.2	4651.3	4573.7
47.5°	4203.6	4215.3	3994.4	3869.7	3679.2	3654.7	3596.7	3679.2	4309.6	4935.1	4794.7
50°	4615.0	4619.9	4355.8	4201.6	4013.1	3981.6	3959.1	4064.1	4679.8	5206.1	5019.5
52.5°	5075.5	4979.3	4722.0	4509.9	4329.2	4305.7	4292.9	4402.9	5085.3	5443.7	5167.8
55°	5654.8	5526.2	5263.0	4911.5	4648.4	4652.3	4608.1	4736.7	5427.0	5607.7	5312.1
57.5°	5908.2	5937.6	5888.5	5568.4	5106.9	5050.0	4941.0	5040.1	5752.0	5800.1	5426.0
60°	6385.4	6499.3	6393.2	6214.5	6078.0	5928.8	5396.6	5433.9	6048.6	6013.2	5438.8
62.5°	6417.8	6457.0	6791.9	6820.4	6952.9	7003.0	6562.1	5880.7	6317.6	6120.2	5482.0
65°	6099.6	6143.8	6547.4	6901.9	7631.4	7700.1	7560.7	6698.6	6535.6	6178.2	5447.6
67.5°	5281.7	5318.0	5776.6	6516.9	7932.9	8032.0	7896.5	7578.4	6612.2	6158.5	5296.4
70°	4517.8	4538.4	4919.4	5955.3	7725.7	7842.5	7788.5	7611.8	6609.2	6042.7	4962.6
72.5°	3548.6	3608.5	3915.9	4939.0	7202.3	7300.5	7316.2	7406.6	6441.3	5661.7	4216.3
75°	2573.6	2606.0	2954.6	3837.3	6216.5	6451.2	6727.1	7067.8	5810.0	4806.5	3117.6
77.5°	1813.6	1845.0	2173.0	2909.4	5031.3	5298.4	5797.2	5997.5	4714.2	3602.6	1640.8
80°	1194.0	1190.1	1502.3	2153.3	3775.4	3963.0	4333.2	4065.1	2735.6	1566.1	178.7
82.5°	701.1	740.4	962.3	1479.7	2638.4	2742.5	2732.7	2140.6	1086.0	162.0	91.3
85°	404.5	419.3	567.5	876.8	1454.2	1468.9	1315.8	830.7	269.0	72.7	54.0
87.5°	180.7	173.8	225.8	289.7	265.1	197.4	122.7	34.4	20.6	13.7	8.8
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°	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8
2.5°	1629.0	1624.1	1648.6	1634.9	1646.7	1639.8	1633.9	1641.8	1656.5	1669.2	1661.4
5°	1641.8	1644.7	1664.3	1647.6	1663.4	1660.4	1652.6	1661.4	1685.0	1696.7	1695.8
7.5°	1656.5	1658.4	1679.1	1672.2	1679.1	1673.2	1685.9	1680.0	1700.7	1708.5	1703.6
10°	1674.2	1677.1	1695.8	1696.7	1699.7	1695.8	1701.7	1704.6	1716.4	1732.1	1722.3
12.5°	1712.5	1719.3	1733.1	1747.8	1745.8	1730.1	1735.0	1719.3	1730.1	1735.0	1742.9
15°	1765.5	1782.2	1790.0	1810.6	1792.0	1783.1	1764.5	1733.1	1723.3	1718.3	1710.5
17.5°	1822.4	1838.1	1852.9	1879.4	1848.9	1825.4	1793.0	1734.1	1689.9	1674.2	1667.3
20°	1886.3	1901.0	1927.5	1945.2	1900.0	1848.9	1796.9	1710.5	1623.1	1563.2	1570.1
22.5°	1957.9	1990.3	2008.0	2003.1	1939.3	1869.6	1780.2	1648.6	1536.7	1447.3	1441.4
25°	2057.1	2075.8	2082.6	2037.5	1960.9	1854.8	1724.2	1575.0	1418.9	1318.7	1304.0
27.5°	2161.2	2180.8	2144.5	2060.0	1954.0	1820.5	1661.4	1449.3	1282.4	1186.1	1175.3
30°	2294.7	2289.8	2186.7	2053.2	1914.7	1738.0	1546.5	1320.7	1166.5	1077.2	1072.2
32.5°	2440.0	2403.7	2221.1	2019.8	1840.1	1630.0	1400.2	1198.9	1080.1	990.7	986.8
35°	2783.7	2616.8	2271.2	1977.6	1730.1	1480.7	1264.7	1107.6	1011.4	910.2	890.6
37.5°	3288.4	3019.4	2374.3	1934.4	1604.4	1333.4	1151.8	1039.8	948.5	840.5	821.9
40°	3758.8	3428.8	2554.9	1902.0	1491.5	1214.6	1074.2	992.7	904.3	796.3	772.8
42.5°	4092.6	3747.0	2771.9	1848.9	1378.6	1120.4	1041.8	975.0	892.6	792.4	773.7
45°	4361.6	4021.9	2987.0	1789.0	1246.0	1039.8	1008.4	960.3	877.8	780.6	759.0
47.5°	4551.2	4194.7	3136.2	1721.3	1119.4	990.7	979.9	936.7	855.2	763.9	750.2
50°	4746.6	4388.2	3238.3	1651.6	1005.5	953.4	940.7	883.7	809.1	727.6	712.9
52.5°	4874.2	4482.4	3297.3	1637.8	908.3	902.4	886.7	832.7	762.0	673.6	655.9
55°	4971.4	4565.9	3288.4	1557.3	820.9	835.6	825.8	785.5	723.7	637.3	625.5
57.5°	4995.0	4578.6	3207.9	1307.9	738.4	746.3	751.2	759.0	699.1	627.4	607.8
60°	5062.7	4518.8	3065.5	940.7	641.2	660.8	700.1	707.0	665.7	584.2	572.5
62.5°	5019.5	4478.5	2756.2	662.8	572.5	612.7	650.0	650.0	593.1	517.5	509.6
65°	4943.9	4319.4	2156.3	522.4	536.1	577.4	611.7	588.2	539.1	468.4	463.5
67.5°	4751.5	3931.6	1287.3	470.3	510.6	549.9	574.4	539.1	492.9	423.2	415.3
70°	4198.7	3133.3	490.0	445.8	485.1	512.6	528.3	491.9	446.8	377.1	370.2
72.5°	3333.6	1959.9	311.3	415.3	452.7	477.2	487.0	444.8	373.1	293.6	285.7
75°	2006.0	559.7	270.0	359.4	398.7	440.9	424.2	369.2	315.2	246.5	241.6
77.5°	507.6	169.9	240.6	289.7	324.0	374.1	373.1	332.9	274.9	201.3	193.4
80°	121.8	118.8	195.4	214.1	244.5	286.7	282.8	276.9	218.0	139.4	114.9
82.5°	77.6	82.5	132.6	119.8	139.4	166.9	189.5	178.7	163.0	85.4	76.6
85°	52.0	65.8	64.8	45.2	62.8	94.3	122.7	111.9	92.3	53.0	47.1
87.5°	7.9	8.8	11.8	17.7	27.5	46.1	60.9	59.9	45.2	33.4	31.4
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)