

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: P509438

Luminaire Tested: **VERD-G-CA2-100-722-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-100-722-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 930mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11393 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

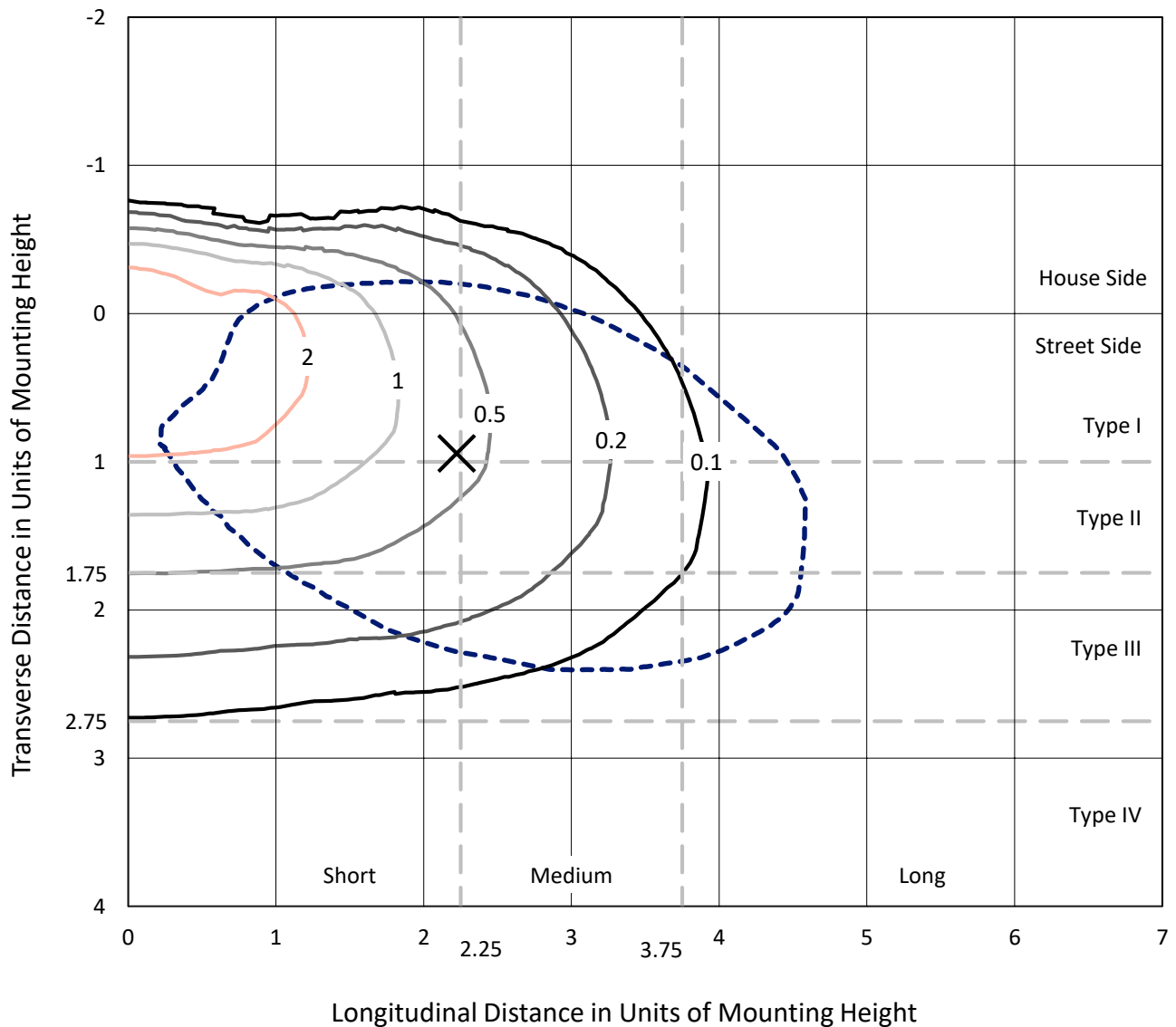
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

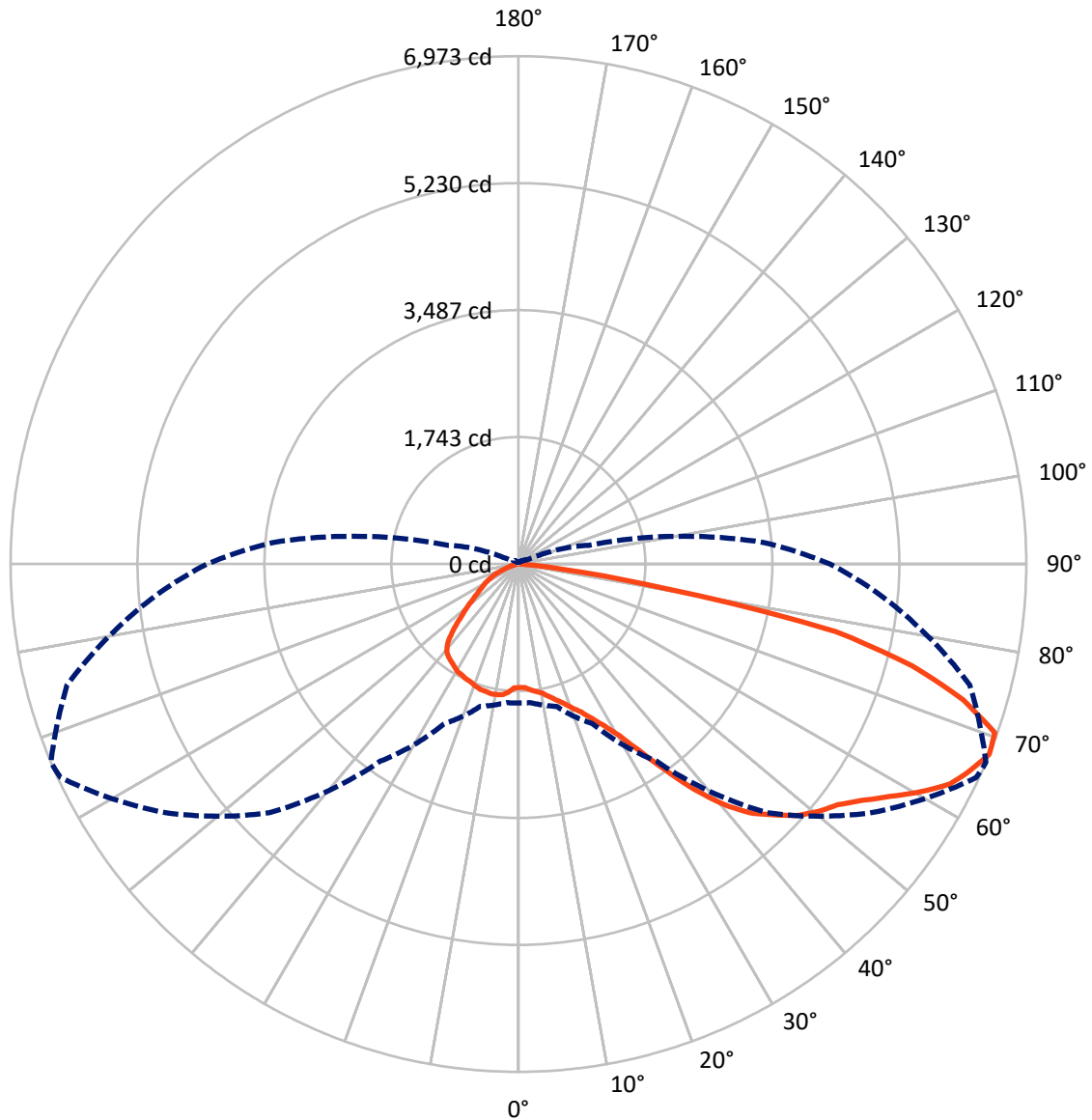
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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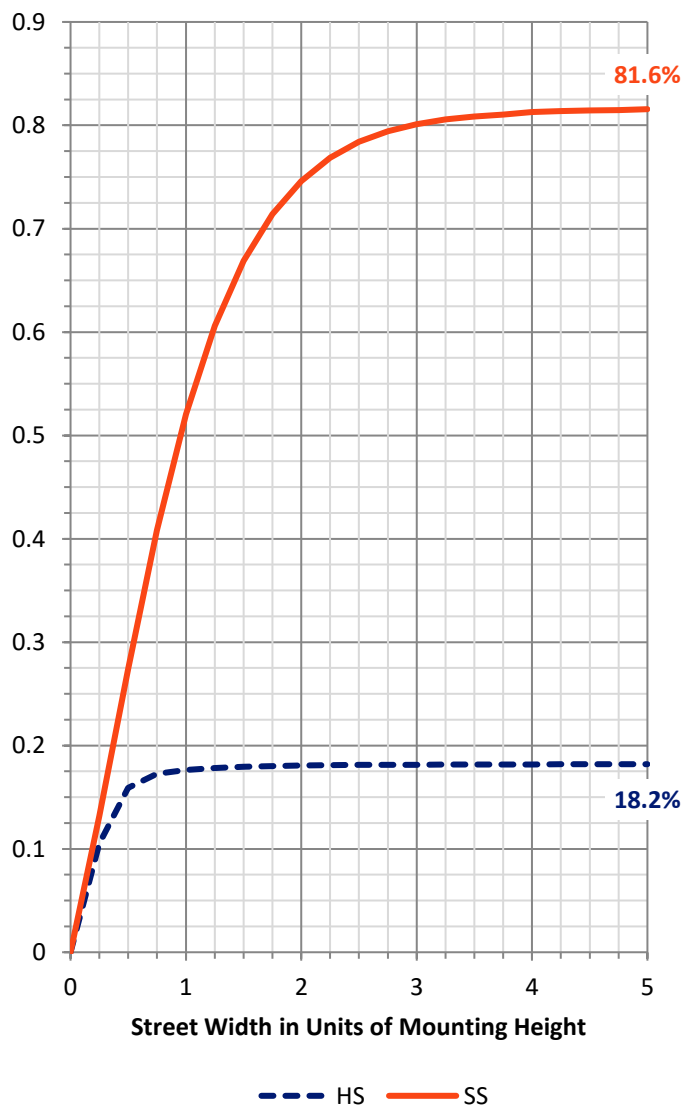
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2097.0	0.0	2097.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	9296.0	0.0	9296.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	11393.0	0.0	11393.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.6	1.5
10°-20°	533.3	4.7
20°-30°	909.2	8.0
30°-40°	1386.7	12.2
40°-50°	1954.9	17.2
50°-60°	2362.9	20.7
60°-70°	2488.6	21.8
70°-80°	1480.4	13.0
80°-90°	106.4	0.9
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°	11393.0	100.0
0°-180°	11393.0	100.0

**Coefficient of Utilization**



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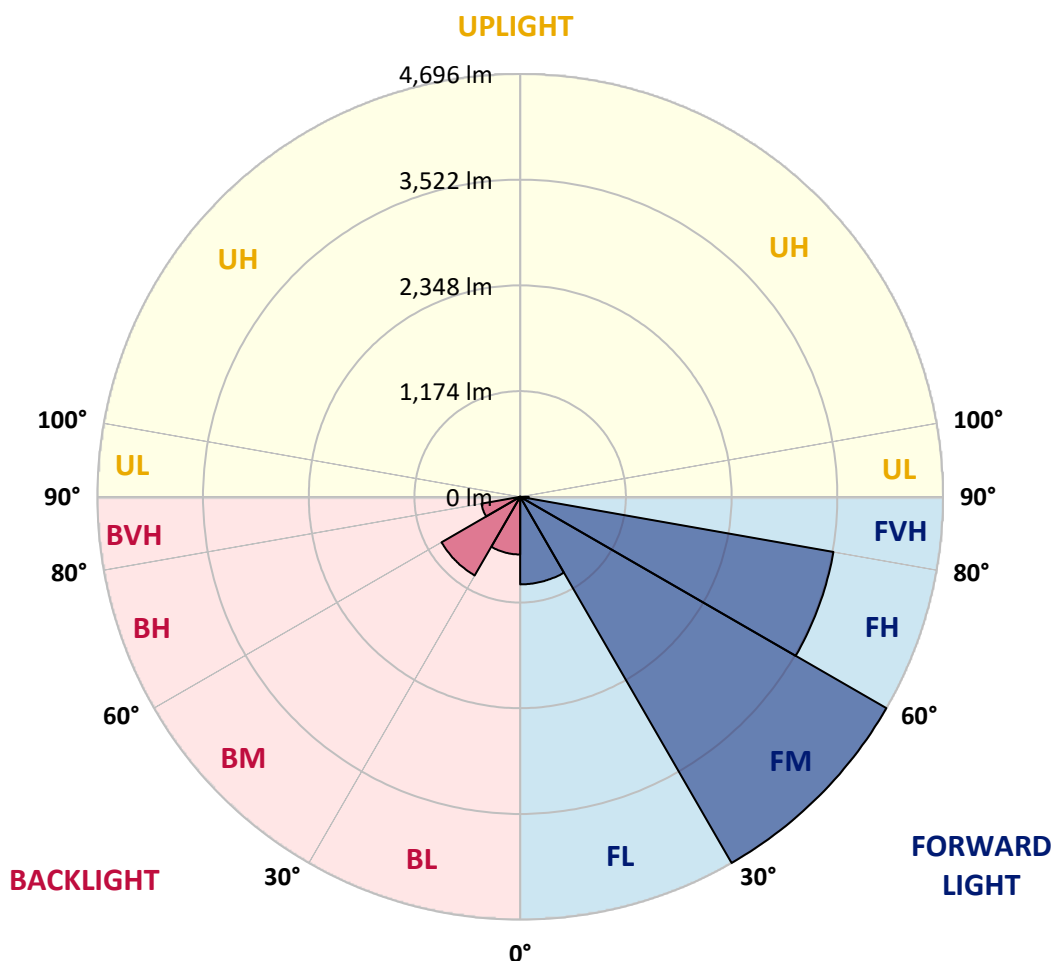
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	972.7	8.5			
FM	(30°-60°)	4695.7	41.2			
FH	(60°-80°)	3532.4	31.0			G2/5000
FVH	(80°-90°)	95.2	0.8			G1/100
BL	(0°-30°)	640.4	5.6	B2/1000		
BM	(30°-60°)	1008.9	8.9	B2/2500		
BH	(60°-80°)	436.6	3.8	B1/500		G1/500
BVH	(80°-90°)	11.2	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1
2.5°	1731.9	1738.4	1725.4	1722.1	1705.0	1707.5	1704.2	1696.1	1699.3	1692.8	1696.9
5°	1798.8	1781.6	1776.7	1767.0	1751.5	1742.5	1729.5	1725.4	1734.4	1727.0	1728.7
7.5°	1869.7	1872.9	1850.9	1832.2	1804.5	1797.9	1775.1	1761.3	1770.2	1760.4	1766.1
10°	1958.5	1963.4	1939.7	1914.5	1890.8	1856.6	1828.1	1806.1	1803.6	1798.8	1806.9
12.5°	2075.0	2074.2	2048.1	2017.2	1970.7	1947.1	1892.5	1861.5	1865.6	1847.7	1846.0
15°	2210.3	2198.9	2168.8	2137.0	2079.1	2032.7	1966.6	1928.3	1934.9	1914.5	1909.6
17.5°	2342.4	2331.0	2307.3	2272.3	2219.3	2147.6	2066.9	2011.5	2009.8	2000.1	1970.7
20°	2477.7	2482.6	2450.8	2419.0	2366.0	2269.8	2178.6	2106.8	2108.5	2091.3	2034.3
22.5°	2635.8	2626.8	2588.5	2573.8	2513.5	2408.4	2306.5	2224.2	2207.9	2204.6	2106.0
25°	2786.6	2780.9	2745.8	2728.7	2678.2	2582.0	2450.0	2351.3	2348.9	2338.3	2198.9
27.5°	2906.4	2912.9	2909.6	2897.4	2842.0	2747.4	2631.7	2513.5	2515.2	2499.7	2319.5
30°	3076.7	3057.1	3049.8	3059.6	3054.7	2952.8	2829.8	2744.2	2738.5	2698.5	2472.0
32.5°	3176.1	3185.9	3195.7	3229.9	3230.7	3154.9	3075.1	3034.3	3057.1	3063.7	2850.9
35°	3267.4	3267.4	3323.7	3410.0	3440.2	3414.1	3379.9	3431.2	3476.1	3566.5	3317.1
37.5°	3348.9	3372.6	3425.5	3533.9	3632.5	3657.8	3732.8	3873.8	3928.4	4010.7	3710.0
40°	3417.4	3434.5	3502.1	3635.0	3804.5	3920.2	4060.4	4284.6	4341.6	4326.1	3928.4
42.5°	3341.6	3369.3	3477.7	3750.7	3964.3	4181.9	4365.3	4607.3	4676.6	4533.1	4158.2
45°	3300.8	3311.4	3424.7	3734.4	4081.6	4446.8	4654.6	4913.8	4913.8	4753.2	4320.4
47.5°	3219.3	3238.1	3372.6	3713.2	4206.3	4667.6	4877.9	5142.0	5159.1	4961.0	4481.8
50°	3137.0	3160.6	3313.1	3675.7	4276.4	4889.3	5067.8	5332.7	5339.2	5103.7	4624.4
52.5°	3055.5	3067.7	3238.1	3651.3	4353.8	5003.4	5231.6	5487.5	5490.8	5317.2	4781.7
55°	2909.6	2939.8	3115.8	3561.6	4349.8	5055.6	5317.2	5694.5	5726.3	5549.5	4936.6
57.5°	2772.7	2781.7	2974.0	3432.1	4283.7	5115.9	5501.4	5991.2	6022.2	5760.6	5051.5
60°	2590.1	2599.9	2806.9	3278.0	4185.9	5176.2	5735.3	6337.6	6351.5	5982.3	5137.9
62.5°	2399.4	2432.8	2603.2	3041.7	3983.0	5186.8	5933.3	6657.1	6651.4	6174.6	5194.9
65°	2175.3	2187.5	2351.3	2765.4	3672.5	5106.1	6014.9	6811.9	6825.8	6309.9	5157.5
67.5°	1906.3	1911.2	2023.7	2421.4	3304.9	4828.2	5947.2	6938.3	6973.3	6415.8	5001.0
70°	1506.2	1513.5	1617.0	1995.2	2783.3	4402.7	5833.1	6952.9	6938.3	6320.5	4763.0
72.5°	1049.7	1039.2	1140.2	1399.4	2107.6	3621.1	5282.1	6361.2	6387.3	5847.8	4265.0
75°	502.9	506.1	706.6	860.7	1183.4	2586.9	4396.2	5477.8	5587.0	5096.3	3474.4
77.5°	85.6	87.2	186.6	339.0	476.8	1085.6	2915.3	4362.8	4455.7	4000.1	2352.1
80°	68.5	68.5	91.3	182.6	252.7	449.9	1104.4	1934.0	2035.1	1811.8	867.2
82.5°	46.5	48.9	65.2	106.8	89.7	176.0	401.0	612.1	628.4	569.7	356.2
85°	26.1	26.9	33.4	43.2	37.5	65.2	82.3	83.9	88.8	69.3	53.0
87.5°	3.3	7.3	7.3	7.3	3.3	3.3	2.4	2.4	3.3	2.4	2.4
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°	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1
2.5°	1694.4	1684.6	1705.8	1701.8	1716.4	1714.0	1726.2	1732.7	1746.6	1764.5	1762.9
5°	1730.3	1729.5	1754.7	1767.0	1780.0	1792.2	1793.0	1805.3	1817.5	1844.4	1843.6
7.5°	1764.5	1771.9	1807.7	1808.5	1813.4	1822.4	1810.2	1814.2	1817.5	1827.3	1830.5
10°	1804.5	1818.3	1819.1	1815.9	1800.4	1799.6	1771.9	1775.1	1760.4	1771.9	1766.1
12.5°	1855.8	1844.4	1837.9	1815.9	1792.2	1760.4	1734.4	1698.5	1690.4	1690.4	1692.8
15°	1906.3	1889.2	1833.0	1797.9	1754.7	1704.2	1661.8	1621.1	1600.7	1591.7	1590.1
17.5°	1950.3	1914.5	1834.6	1789.0	1707.5	1633.3	1569.7	1504.5	1472.7	1452.4	1449.1
20°	1986.2	1947.9	1839.5	1759.6	1656.1	1546.9	1450.7	1368.4	1305.7	1259.2	1264.1
22.5°	2046.5	1985.4	1836.2	1724.6	1596.6	1454.8	1309.7	1196.5	1091.3	1065.2	1072.6
25°	2119.1	2039.2	1855.0	1703.4	1527.3	1339.1	1148.4	1017.1	904.7	868.8	871.3
27.5°	2203.0	2104.4	1876.2	1668.3	1455.6	1196.5	966.6	804.4	714.8	643.9	638.2
30°	2336.7	2193.2	1899.0	1645.5	1355.4	1037.5	768.6	599.9	487.4	449.1	449.1
32.5°	2650.4	2373.3	1935.7	1590.9	1223.3	859.8	560.7	392.8	293.4	259.2	260.0
35°	3049.0	2736.8	2018.8	1524.1	1067.7	652.0	346.4	218.4	172.0	154.9	153.2
37.5°	3429.6	3071.0	2196.5	1445.8	871.3	413.2	194.8	134.5	117.4	116.5	117.4
40°	3664.3	3335.1	2375.0	1341.5	636.5	227.4	126.3	110.0	107.6	105.1	105.1
42.5°	3881.1	3516.8	2510.3	1181.8	379.8	137.7	110.8	100.2	98.6	94.5	94.5
45°	4057.2	3647.2	2520.9	969.1	201.3	122.3	101.9	91.3	88.0	85.6	84.8
47.5°	4224.3	3774.4	2482.6	742.5	143.4	113.3	95.4	83.9	79.9	81.5	80.7
50°	4336.7	3901.5	2378.2	583.6	136.9	105.1	88.0	76.6	75.0	78.2	77.4
52.5°	4458.2	4005.8	2175.3	454.0	127.1	97.0	80.7	71.7	68.5	70.9	71.7
55°	4554.3	4004.2	2026.1	354.5	120.6	90.5	75.8	67.6	61.9	61.9	61.1
57.5°	4601.6	3965.9	1906.3	278.7	113.3	83.9	70.9	59.5	53.0	51.3	50.5
60°	4599.2	3928.4	1767.0	229.0	106.0	76.6	63.6	50.5	44.0	40.8	40.8
62.5°	4573.1	3840.4	1546.1	197.2	98.6	70.9	53.0	41.6	36.7	33.4	34.2
65°	4506.2	3670.9	1274.7	167.9	91.3	68.5	44.8	36.7	31.8	28.5	28.5
67.5°	4274.8	3386.4	994.3	141.0	83.9	57.1	39.1	31.0	26.9	23.6	23.6
70°	3947.1	2952.8	654.5	119.0	75.0	49.7	35.0	26.9	22.8	19.6	18.7
72.5°	3364.4	2359.5	332.5	101.9	64.4	44.0	31.0	23.6	19.6	16.3	15.5
75°	2580.4	1589.3	207.0	81.5	50.5	39.1	27.7	21.2	16.3	12.2	11.4
77.5°	1538.8	639.8	146.7	57.1	34.2	31.0	22.8	17.1	13.0	9.0	9.0
80°	485.8	282.8	99.4	39.1	22.0	21.2	17.1	12.2	9.0	6.5	6.5
82.5°	274.7	179.3	66.8	26.1	15.5	13.9	9.8	7.3	5.7	4.9	4.9
85°	45.6	35.9	20.4	9.8	7.3	6.5	4.1	2.4	1.6	0.8	1.6
87.5°	2.4	2.4	3.3	3.3	3.3	2.4	1.6	0.0	0.0	0.0	0.0
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)