

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: P509062

Luminaire Tested: **VERD-CA2-100-727-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-100-727-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1370mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11059 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

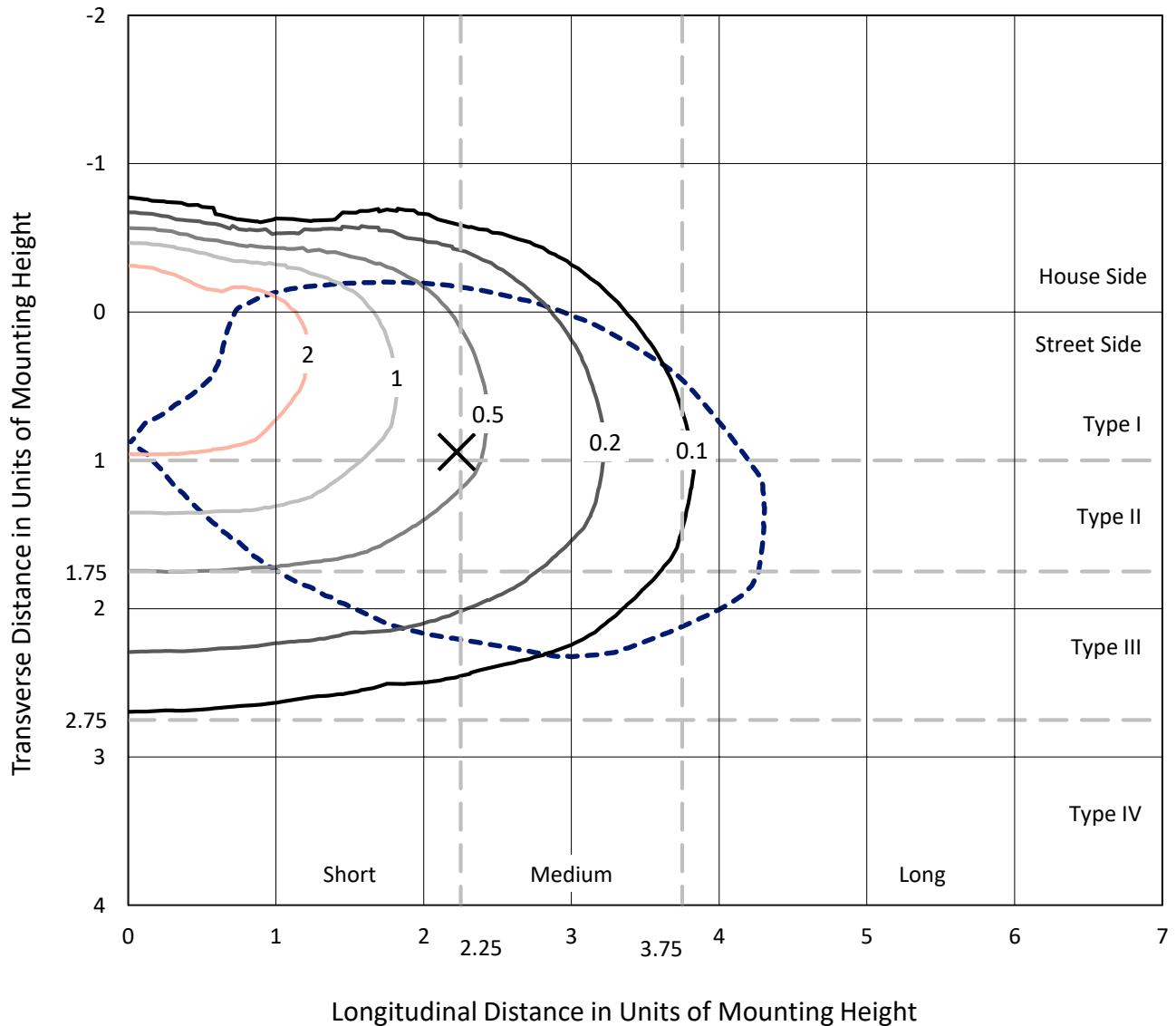
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

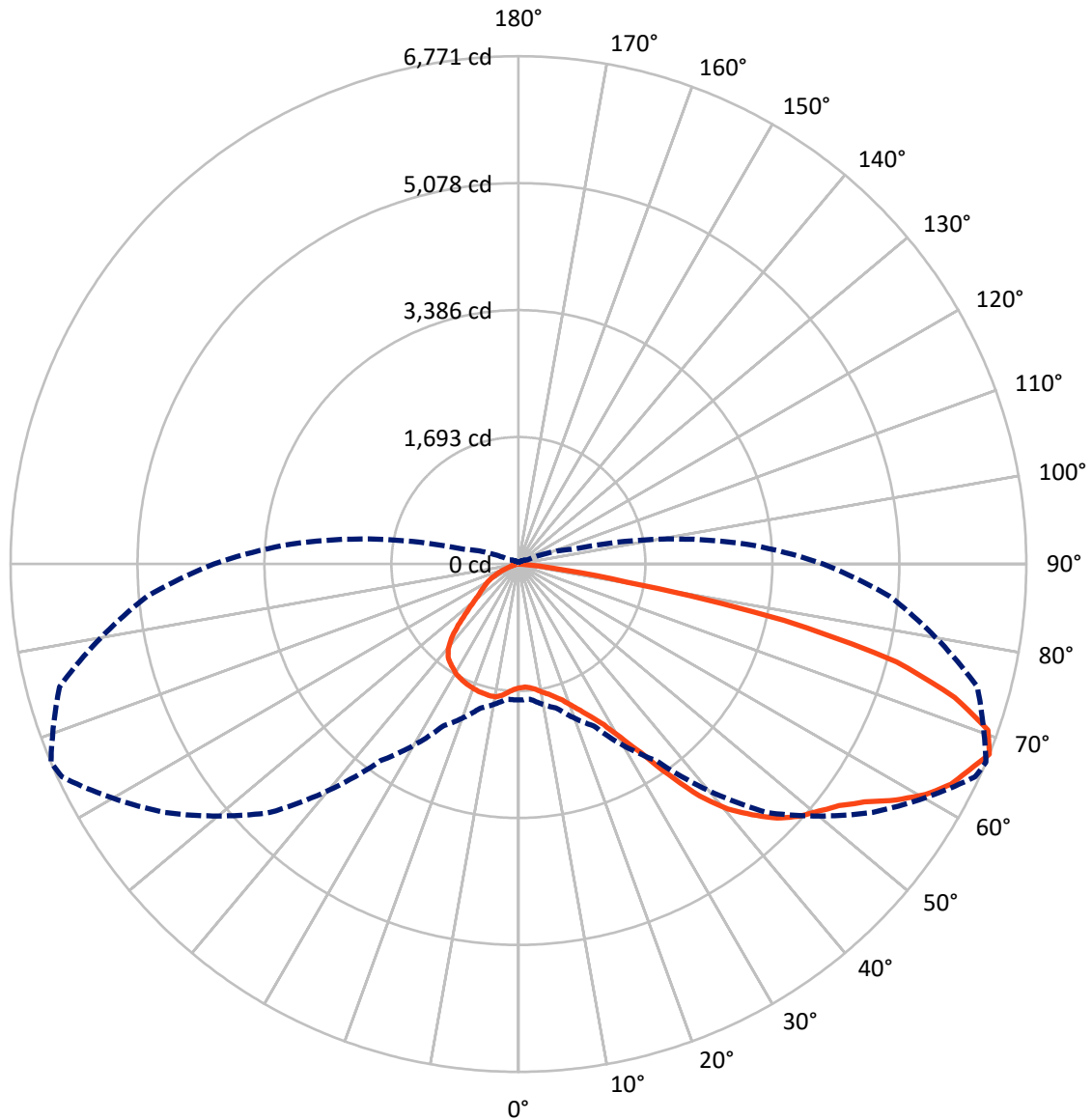
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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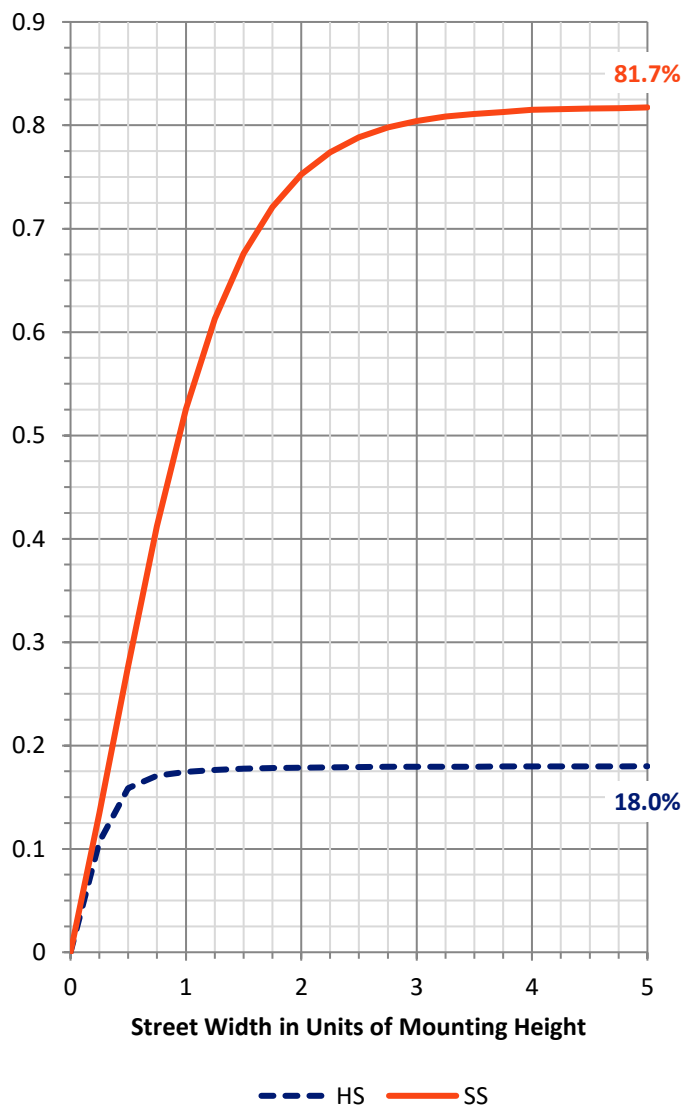
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2015.0	0.0	2015.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	9044.0	0.0	9044.0
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	11059.0	0.0	11059.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.4	1.5
10°-20°	518.1	4.7
20°-30°	884.1	8.0
30°-40°	1376.1	12.4
40°-50°	1942.6	17.6
50°-60°	2339.7	21.2
60°-70°	2417.9	21.9
70°-80°	1332.0	12.0
80°-90°	83.0	0.8
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°	11059.0	100.0
0°-180°	11059.0	100.0

**Coefficient of Utilization**



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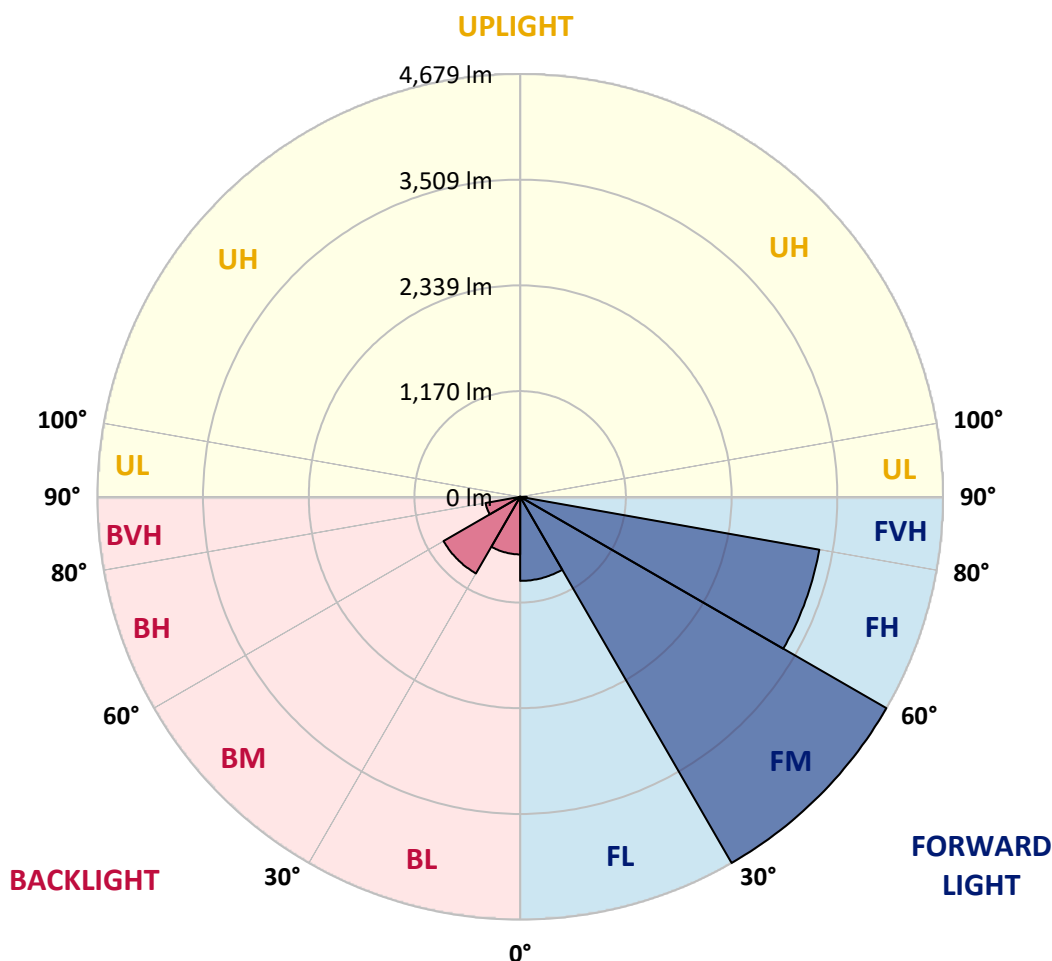
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.5	8.4			
FM (30°-60°)	4678.9	42.3			
FH (60°-80°)	3361.5	30.4			G2/5000
FVH (80°-90°)	73.0	0.7			G1/100
BL (0°-30°)	637.1	5.8	B2/1000		
BM (30°-60°)	979.5	8.9	B1/1000		
BH (60°-80°)	388.4	3.5	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
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°	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2
2.5°	1635.9	1652.5	1652.5	1647.4	1650.0	1638.4	1630.8	1639.7	1642.3	1650.0	1660.2
5°	1667.9	1687.1	1685.8	1676.8	1669.2	1658.9	1648.7	1656.4	1657.6	1660.2	1673.0
7.5°	1735.7	1753.6	1746.0	1737.0	1733.2	1710.1	1688.4	1687.1	1689.6	1697.3	1711.4
10°	1824.0	1838.1	1835.6	1821.5	1811.2	1776.7	1746.0	1734.4	1735.7	1738.3	1762.6
12.5°	1923.9	1943.1	1929.0	1909.8	1891.9	1842.0	1799.7	1783.1	1780.5	1786.9	1807.4
15°	2022.4	2042.9	2032.7	2021.2	1980.2	1925.2	1871.4	1844.5	1842.0	1842.0	1854.8
17.5°	2151.7	2159.4	2153.0	2136.4	2090.3	2021.2	1957.2	1917.5	1911.1	1914.9	1917.5
20°	2295.1	2309.2	2301.5	2283.6	2217.0	2142.8	2062.1	2014.8	2010.9	2014.8	1990.4
22.5°	2469.2	2474.3	2470.5	2441.0	2380.8	2282.3	2176.0	2122.3	2122.3	2126.1	2076.2
25°	2617.7	2648.4	2639.4	2603.6	2533.2	2447.4	2319.4	2252.8	2256.7	2259.2	2190.1
27.5°	2790.5	2816.1	2809.7	2782.8	2736.7	2627.9	2474.3	2430.8	2426.9	2423.1	2315.6
30°	2955.6	2974.8	2987.6	2981.2	2944.1	2841.7	2704.7	2672.7	2682.9	2675.3	2489.7
32.5°	3090.0	3123.3	3159.1	3166.8	3156.5	3065.7	2965.8	2982.5	2995.3	3086.1	2974.8
35°	3205.2	3241.0	3299.9	3361.3	3372.9	3337.0	3287.1	3408.7	3445.8	3631.4	3513.7
37.5°	3325.5	3356.2	3415.1	3512.4	3576.4	3595.6	3644.2	3836.2	3925.8	4085.8	3867.0
40°	3380.6	3411.3	3513.7	3636.6	3769.7	3877.2	3974.5	4197.2	4297.0	4345.7	4061.5
42.5°	3325.5	3354.9	3520.1	3751.8	3932.2	4170.3	4280.4	4503.1	4569.7	4564.6	4300.9
45°	3271.7	3299.9	3472.7	3781.2	4079.4	4440.4	4533.9	4783.5	4832.1	4770.7	4439.1
47.5°	3202.6	3241.0	3420.2	3763.3	4211.3	4684.9	4770.7	4983.1	5026.7	4935.8	4597.9
50°	3118.1	3151.4	3360.1	3735.1	4298.3	4867.9	4958.8	5170.0	5181.5	5097.1	4741.2
52.5°	3020.9	3038.8	3265.3	3678.8	4373.9	5002.3	5106.0	5327.5	5354.4	5331.3	4911.5
55°	2876.2	2908.2	3151.4	3590.5	4379.0	5072.7	5219.9	5550.2	5598.8	5545.1	5015.1
57.5°	2723.9	2758.5	3010.6	3467.6	4303.4	5117.5	5427.3	5839.5	5935.5	5762.7	5099.6
60°	2556.2	2586.9	2835.3	3285.8	4169.0	5181.5	5641.1	6178.7	6238.8	5948.3	5155.9
62.5°	2361.6	2386.0	2622.8	3065.7	3963.0	5164.9	5825.4	6451.3	6470.5	6114.7	5150.8
65°	2124.8	2123.6	2343.7	2758.5	3625.0	5031.8	5858.7	6588.3	6611.3	6222.2	5104.7
67.5°	1812.5	1808.7	1993.0	2383.4	3198.8	4684.9	5770.4	6716.3	6771.3	6334.9	4970.3
70°	1420.8	1425.9	1565.5	1913.6	2595.9	4156.2	5537.4	6630.5	6642.1	6118.5	4622.2
72.5°	1004.8	1002.3	1097.0	1332.5	1918.8	3244.9	4866.7	6045.6	6081.4	5583.5	4027.0
75°	460.8	480.0	716.8	814.1	1158.4	2209.3	4003.9	5136.7	5205.9	4806.5	3139.9
77.5°	85.8	88.3	153.6	309.8	453.1	797.5	2392.4	3479.1	3623.8	3275.6	1769.0
80°	67.8	69.1	90.9	148.5	189.4	358.4	787.2	1433.6	1465.6	1277.5	637.5
82.5°	49.9	51.2	67.8	96.0	88.3	154.9	327.7	417.3	442.9	412.2	253.4
85°	29.4	30.7	39.7	47.4	46.1	61.4	55.0	49.9	44.8	37.1	32.0
87.5°	7.7	10.2	16.6	16.6	12.8	11.5	10.2	9.0	10.2	9.0	9.0
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°	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2
2.5°	1662.8	1661.5	1665.3	1675.6	1684.5	1685.8	1698.6	1715.2	1707.6	1729.3	1721.6
5°	1680.7	1684.5	1698.6	1715.2	1730.6	1743.4	1762.6	1790.8	1781.8	1802.3	1794.6
7.5°	1721.6	1728.0	1749.8	1766.4	1784.4	1780.5	1797.2	1813.8	1793.3	1815.1	1804.8
10°	1770.3	1778.0	1790.8	1797.2	1792.0	1789.5	1785.6	1783.1	1756.2	1771.6	1765.2
12.5°	1813.8	1815.1	1811.2	1794.6	1783.1	1752.4	1738.3	1731.9	1690.9	1702.4	1694.8
15°	1856.0	1838.1	1818.9	1780.5	1748.5	1701.2	1670.4	1643.6	1605.2	1620.5	1605.2
17.5°	1902.1	1875.2	1825.3	1769.0	1703.7	1634.6	1584.7	1541.2	1483.6	1481.0	1475.9
20°	1961.0	1921.3	1840.7	1748.5	1655.1	1551.4	1472.0	1399.1	1312.0	1300.5	1277.5
22.5°	2035.2	1976.4	1863.7	1721.6	1594.9	1464.4	1329.9	1209.6	1099.5	1065.0	1052.2
25°	2121.0	2048.0	1876.5	1697.3	1537.3	1337.6	1154.6	998.4	869.1	832.0	821.8
27.5°	2228.5	2138.9	1895.7	1661.5	1445.2	1182.7	944.7	771.9	656.7	596.5	587.5
30°	2377.0	2240.0	1922.6	1625.6	1333.8	1001.0	732.2	531.2	422.4	386.6	380.2
32.5°	2781.5	2480.7	1952.0	1561.6	1186.6	798.7	486.4	339.2	266.2	236.8	234.2
35°	3294.8	2921.0	2059.6	1488.7	1008.7	554.3	302.1	202.2	162.6	151.0	151.0
37.5°	3626.3	3262.8	2238.8	1386.3	774.4	339.2	181.8	131.8	124.2	122.9	122.9
40°	3800.4	3413.8	2368.0	1245.5	518.4	197.1	128.0	113.9	111.4	108.8	108.8
42.5°	4021.8	3543.1	2479.4	1054.7	300.8	138.2	112.6	103.7	99.8	97.3	97.3
45°	4144.7	3683.9	2409.0	828.2	171.5	124.2	103.7	93.4	89.6	89.6	89.6
47.5°	4265.0	3818.3	2319.4	595.2	145.9	113.9	97.3	87.0	83.2	85.8	85.8
50°	4402.0	3909.2	2177.3	445.4	138.2	106.2	88.3	79.4	76.8	80.6	80.6
52.5°	4530.0	3918.2	1949.5	355.8	128.0	98.6	81.9	73.0	70.4	73.0	73.0
55°	4567.1	3890.0	1884.2	282.9	121.6	90.9	76.8	67.8	61.4	61.4	60.2
57.5°	4558.2	3835.0	1725.5	239.4	113.9	83.2	70.4	60.2	52.5	49.9	49.9
60°	4527.5	3758.2	1557.8	208.6	106.2	76.8	62.7	51.2	43.5	41.0	41.0
62.5°	4489.1	3613.5	1321.0	181.8	98.6	74.2	52.5	42.2	37.1	34.6	34.6
65°	4327.8	3388.2	1057.3	154.9	90.9	65.3	46.1	37.1	32.0	29.4	29.4
67.5°	4060.2	3045.2	764.2	131.8	84.5	55.0	41.0	32.0	26.9	25.6	24.3
70°	3660.9	2571.6	473.6	113.9	73.0	49.9	35.8	28.2	24.3	20.5	20.5
72.5°	3051.6	2013.5	248.3	89.6	57.6	42.2	32.0	25.6	20.5	17.9	16.6
75°	2145.3	1241.6	179.2	69.1	39.7	34.6	26.9	21.8	17.9	15.4	14.1
77.5°	1035.5	427.5	125.4	51.2	28.2	25.6	20.5	17.9	14.1	12.8	12.8
80°	378.9	243.2	89.6	37.1	23.0	20.5	15.4	14.1	11.5	10.2	10.2
82.5°	170.2	115.2	51.2	24.3	16.6	15.4	11.5	9.0	9.0	9.0	9.0
85°	28.2	24.3	16.6	11.5	9.0	7.7	7.7	6.4	6.4	6.4	6.4
87.5°	7.7	7.7	6.4	6.4	5.1	3.8	2.6	2.6	2.6	3.8	3.8
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)