

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: P509070

Luminaire Tested: **VERD-CA2-100-730-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509070  
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-CA2-100-730-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

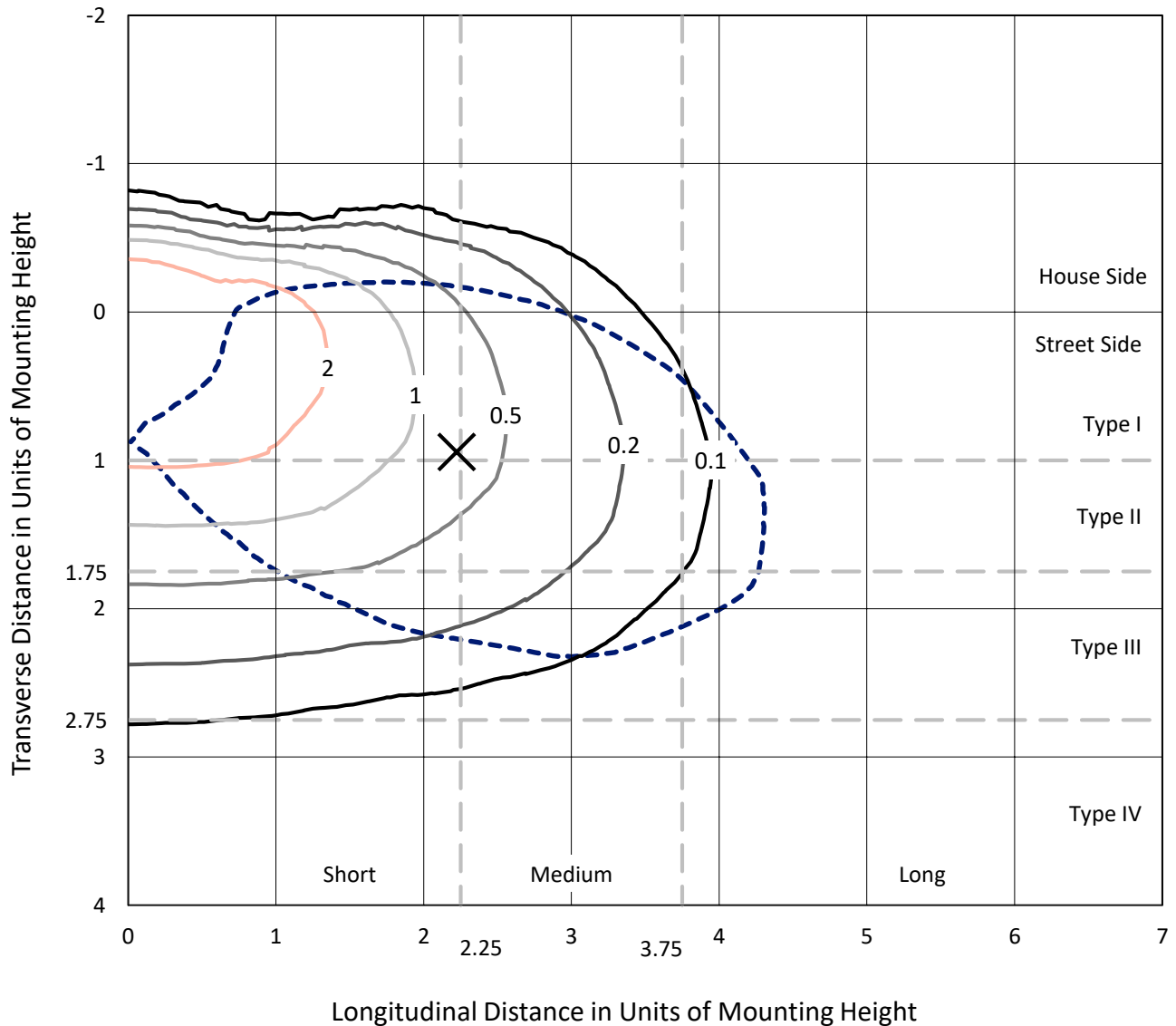
Lumens per Lamp: N/A  
Luminaire Lumens: 12823 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): 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

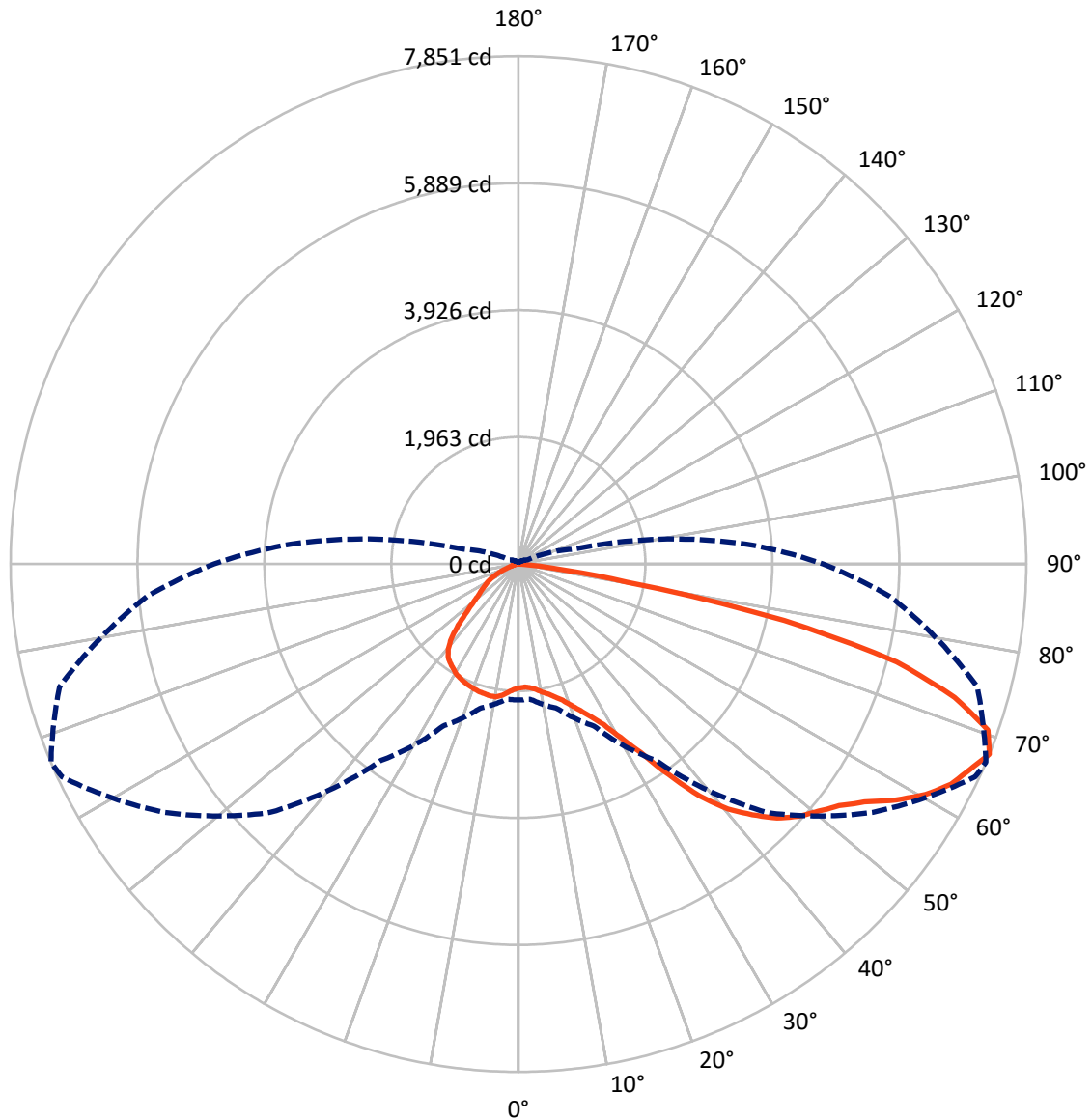
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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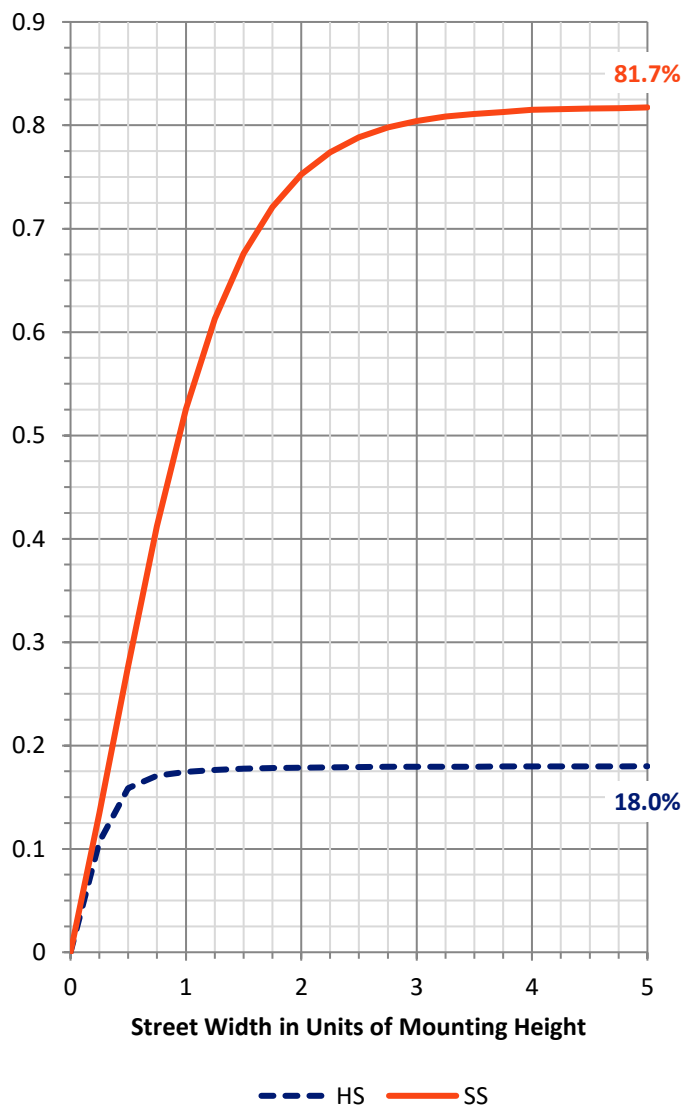
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2336.4	0.0	2336.4
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	10486.6	0.0	10486.6
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	12823.0	0.0	12823.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.8	1.5
10°-20°	600.8	4.7
20°-30°	1025.1	8.0
30°-40°	1595.6	12.4
40°-50°	2252.5	17.6
50°-60°	2712.9	21.2
60°-70°	2803.6	21.9
70°-80°	1544.5	12.0
80°-90°	96.3	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°	12823.0	100.0
0°-180°	12823.0	100.0

**Coefficient of Utilization**



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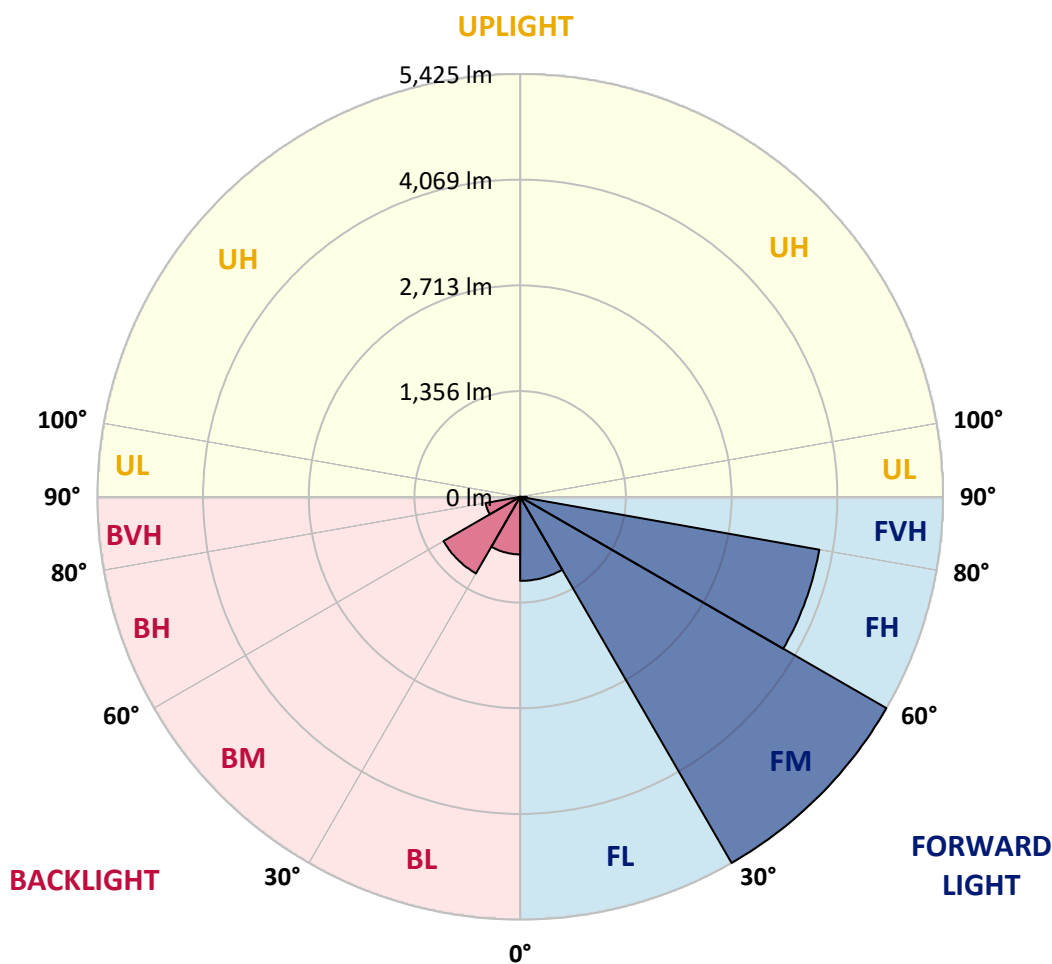
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.0	8.4			
FM (30°-60°)	5425.2	42.3			
FH (60°-80°)	3897.7	30.4			G2/5000
FVH (80°-90°)	84.7	0.7			G1/100
BL (0°-30°)	738.7	5.8	B2/1000		
BM (30°-60°)	1135.8	8.9	B2/2500		
BH (60°-80°)	450.3	3.5	B1/500		G1/500
BVH (80°-90°)	11.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6
2.5°	1896.8	1916.1	1916.1	1910.2	1913.1	1899.8	1890.9	1901.3	1904.2	1913.1	1925.0
5°	1933.9	1956.2	1954.7	1944.3	1935.4	1923.5	1911.7	1920.6	1922.0	1925.0	1939.9
7.5°	2012.6	2033.4	2024.5	2014.1	2009.6	1982.9	1957.7	1956.2	1959.1	1968.1	1984.4
10°	2115.0	2131.3	2128.3	2112.0	2100.1	2060.1	2024.5	2011.1	2012.6	2015.5	2043.7
12.5°	2230.8	2253.0	2236.7	2214.4	2193.6	2135.8	2086.8	2067.5	2064.5	2071.9	2095.7
15°	2345.0	2368.8	2356.9	2343.6	2296.1	2232.2	2169.9	2138.7	2135.8	2135.8	2150.6
17.5°	2494.9	2503.8	2496.4	2477.1	2423.7	2343.6	2269.3	2223.3	2215.9	2220.4	2223.3
20°	2661.2	2677.5	2668.6	2647.8	2570.6	2484.6	2391.0	2336.1	2331.7	2336.1	2307.9
22.5°	2863.0	2869.0	2864.5	2830.4	2760.6	2646.3	2523.1	2460.8	2460.8	2465.3	2407.4
25°	3035.2	3070.8	3060.4	3018.9	2937.2	2837.8	2689.4	2612.2	2616.6	2619.6	2539.5
27.5°	3235.6	3265.2	3257.8	3226.7	3173.2	3047.1	2869.0	2818.5	2814.0	2809.6	2684.9
30°	3427.0	3449.3	3464.1	3456.7	3413.7	3294.9	3136.1	3099.0	3110.9	3102.0	2886.8
32.5°	3582.9	3621.5	3663.0	3671.9	3660.0	3554.7	3438.9	3458.2	3473.0	3578.4	3449.3
35°	3716.4	3758.0	3826.3	3897.5	3910.9	3869.3	3811.4	3952.4	3995.5	4210.7	4074.1
37.5°	3856.0	3891.6	3959.8	4072.6	4146.9	4169.1	4225.5	4448.2	4552.0	4737.6	4483.8
40°	3919.8	3955.4	4074.1	4216.6	4371.0	4495.6	4608.4	4866.7	4982.5	5038.9	4709.4
42.5°	3856.0	3890.1	4081.6	4350.2	4559.5	4835.5	4963.2	5221.4	5298.6	5292.7	4986.9
45°	3793.6	3826.3	4026.6	4384.3	4730.1	5148.7	5257.0	5546.5	5602.9	5531.6	5147.2
47.5°	3713.5	3758.0	3965.8	4363.6	4883.0	5432.2	5531.6	5778.0	5828.5	5723.1	5331.3
50°	3615.5	3654.1	3896.0	4330.9	4983.9	5644.4	5749.8	5994.7	6008.0	5910.1	5497.5
52.5°	3502.7	3523.5	3786.2	4265.6	5071.5	5800.3	5920.5	6177.2	6208.4	6181.7	5694.9
55°	3335.0	3372.1	3654.1	4163.2	5077.5	5881.9	6052.6	6435.5	6491.9	6429.6	5815.1
57.5°	3158.4	3198.5	3490.8	4020.7	4989.9	5933.8	6293.0	6770.9	6882.2	6681.9	5913.1
60°	2963.9	2999.6	3287.5	3809.9	4834.0	6008.0	6540.9	7164.2	7234.0	6897.1	5978.4
62.5°	2738.4	2766.6	3041.1	3554.7	4595.1	5988.8	6754.6	7480.4	7502.6	7090.0	5972.4
65°	2463.8	2462.3	2717.6	3198.5	4203.3	5834.4	6793.2	7639.2	7665.9	7214.7	5919.0
67.5°	2101.6	2097.2	2310.9	2763.6	3709.0	5432.2	6690.8	7787.6	7851.4	7345.3	5763.2
70°	1647.5	1653.4	1815.2	2218.9	3010.0	4819.2	6420.7	7688.2	7701.5	7094.5	5359.5
72.5°	1165.1	1162.1	1272.0	1545.1	2224.8	3762.5	5642.9	7009.9	7051.4	6474.1	4669.3
75°	534.3	556.6	831.2	944.0	1343.2	2561.7	4642.6	5956.1	6036.2	5573.2	3640.7
77.5°	99.4	102.4	178.1	359.2	525.4	924.7	2774.0	4034.1	4201.8	3798.1	2051.2
80°	78.7	80.1	105.4	172.2	219.7	415.6	912.8	1662.3	1699.4	1481.2	739.1
82.5°	57.9	59.4	78.7	111.3	102.4	179.6	380.0	483.8	513.5	477.9	293.9
85°	34.1	35.6	46.0	54.9	53.4	71.2	63.8	57.9	51.9	43.0	37.1
87.5°	8.9	11.9	19.3	19.3	14.8	13.4	11.9	10.4	11.9	10.4	10.4
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°	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6	1914.6
2.5°	1928.0	1926.5	1930.9	1942.8	1953.2	1954.7	1969.5	1988.8	1979.9	2005.2	1996.3
5°	1948.8	1953.2	1969.5	1988.8	2006.6	2021.5	2043.7	2076.4	2066.0	2089.8	2080.9
7.5°	1996.3	2003.7	2028.9	2048.2	2069.0	2064.5	2083.8	2103.1	2079.4	2104.6	2092.7
10°	2052.7	2061.6	2076.4	2083.8	2077.9	2074.9	2070.5	2067.5	2036.3	2054.1	2046.7
12.5°	2103.1	2104.6	2100.1	2080.9	2067.5	2031.9	2015.5	2008.1	1960.6	1974.0	1965.1
15°	2152.1	2131.3	2109.0	2064.5	2027.4	1972.5	1936.9	1905.7	1861.2	1879.0	1861.2
17.5°	2205.5	2174.4	2116.5	2051.2	1975.5	1895.3	1837.4	1787.0	1720.2	1717.2	1711.3
20°	2273.8	2227.8	2134.3	2027.4	1919.1	1798.9	1706.8	1622.2	1521.3	1507.9	1481.2
22.5°	2359.9	2291.6	2161.0	1996.3	1849.3	1697.9	1542.1	1402.6	1274.9	1234.9	1220.0
25°	2459.3	2374.7	2175.8	1968.1	1782.5	1551.0	1338.7	1157.7	1007.8	964.7	952.9
27.5°	2584.0	2480.1	2198.1	1926.5	1675.7	1371.4	1095.3	895.0	761.4	691.6	681.2
30°	2756.2	2597.4	2229.3	1884.9	1546.5	1160.6	849.0	615.9	489.8	448.2	440.8
32.5°	3225.2	2876.4	2263.4	1810.7	1375.9	926.1	564.0	393.3	308.7	274.6	271.6
35°	3820.3	3386.9	2388.1	1726.1	1169.6	642.7	350.3	234.5	188.5	175.1	175.1
37.5°	4204.7	3783.2	2595.9	1607.4	897.9	393.3	210.8	152.9	144.0	142.5	142.5
40°	4406.6	3958.4	2745.8	1444.1	601.1	228.6	148.4	132.1	129.1	126.2	126.2
42.5°	4663.4	4108.3	2874.9	1223.0	348.8	160.3	130.6	120.2	115.8	112.8	112.8
45°	4805.8	4271.5	2793.3	960.3	198.9	144.0	120.2	108.3	103.9	103.9	103.9
47.5°	4945.4	4427.4	2689.4	690.2	169.2	132.1	112.8	100.9	96.5	99.4	99.4
50°	5104.2	4532.8	2524.6	516.5	160.3	123.2	102.4	92.0	89.1	93.5	93.5
52.5°	5252.6	4543.1	2260.4	412.6	148.4	114.3	95.0	84.6	81.6	84.6	84.6
55°	5295.6	4510.5	2184.7	328.0	141.0	105.4	89.1	78.7	71.2	71.2	69.8
57.5°	5285.2	4446.7	2000.7	277.5	132.1	96.5	81.6	69.8	60.9	57.9	57.9
60°	5249.6	4357.6	1806.3	241.9	123.2	89.1	72.7	59.4	50.5	47.5	47.5
62.5°	5205.1	4189.9	1531.7	210.8	114.3	86.1	60.9	49.0	43.0	40.1	40.1
65°	5018.1	3928.7	1226.0	179.6	105.4	75.7	53.4	43.0	37.1	34.1	34.1
67.5°	4707.9	3530.9	886.1	152.9	98.0	63.8	47.5	37.1	31.2	29.7	28.2
70°	4244.8	2981.8	549.2	132.1	84.6	57.9	41.6	32.7	28.2	23.7	23.7
72.5°	3538.3	2334.6	287.9	103.9	66.8	49.0	37.1	29.7	23.7	20.8	19.3
75°	2487.5	1439.7	207.8	80.1	46.0	40.1	31.2	25.2	20.8	17.8	16.3
77.5°	1200.7	495.7	145.5	59.4	32.7	29.7	23.7	20.8	16.3	14.8	14.8
80°	439.3	282.0	103.9	43.0	26.7	23.7	17.8	16.3	13.4	11.9	11.9
82.5°	197.4	133.6	59.4	28.2	19.3	17.8	13.4	10.4	10.4	10.4	10.4
85°	32.7	28.2	19.3	13.4	10.4	8.9	8.9	7.4	7.4	7.4	7.4
87.5°	8.9	8.9	7.4	7.4	5.9	4.5	3.0	3.0	3.0	4.5	4.5
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)