

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: P509158

Luminaire Tested: **VERD-CA2-120-727-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509158  
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-CA2-120-727-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

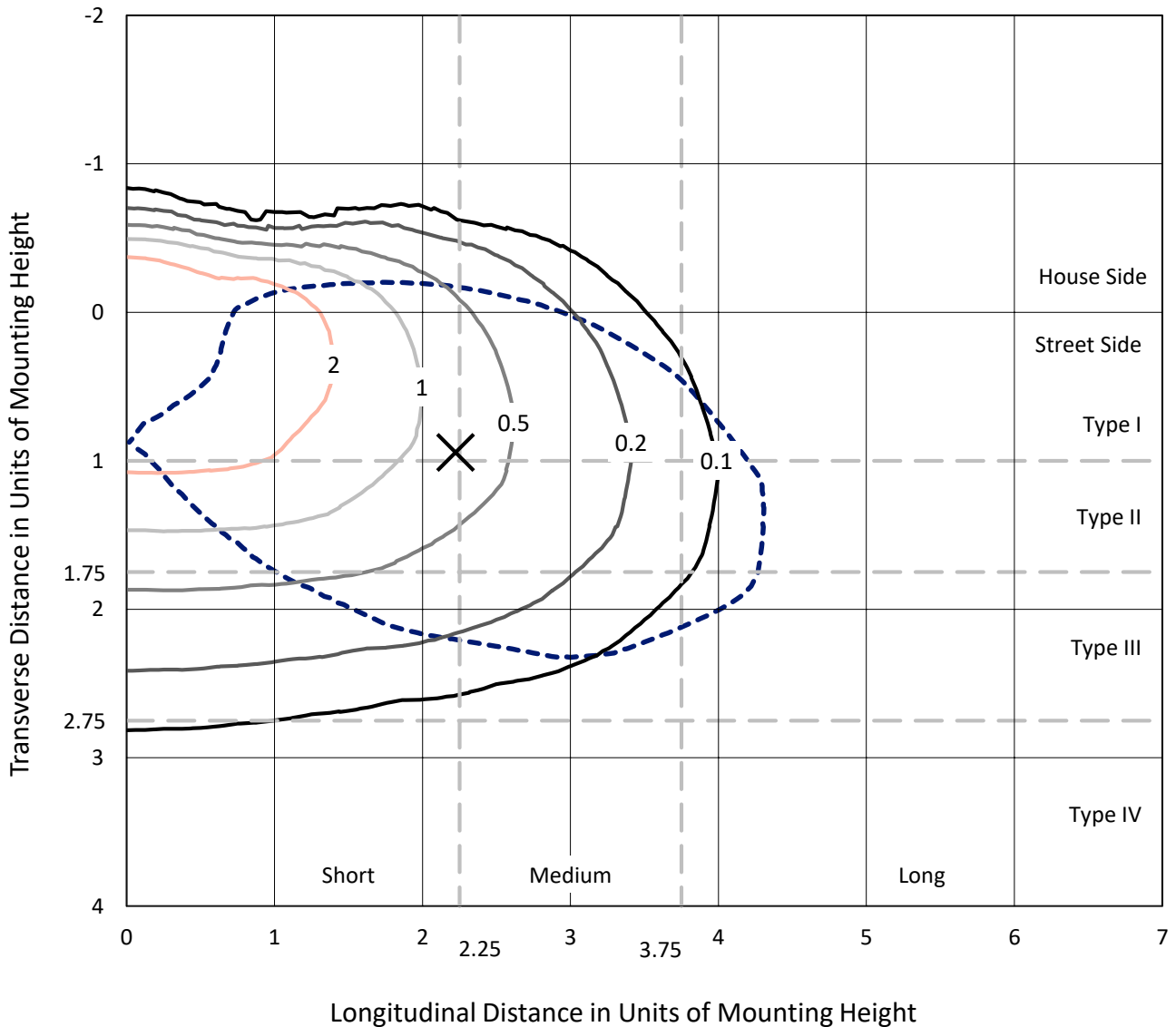
Lumens per Lamp: N/A  
Luminaire Lumens: 13602 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 122.7  
Input Voltage (V): NR  
Input Current (Ain): 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

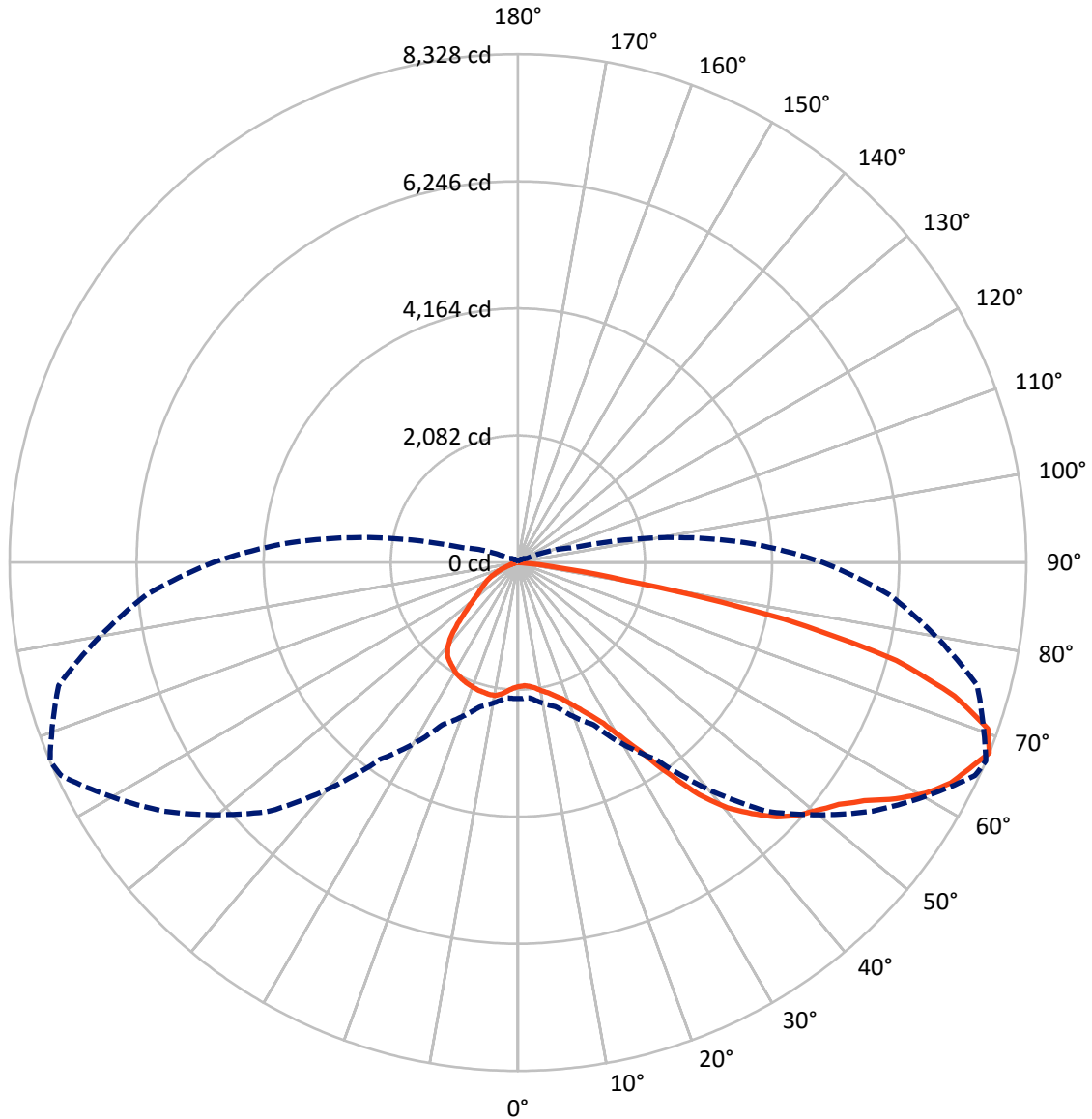
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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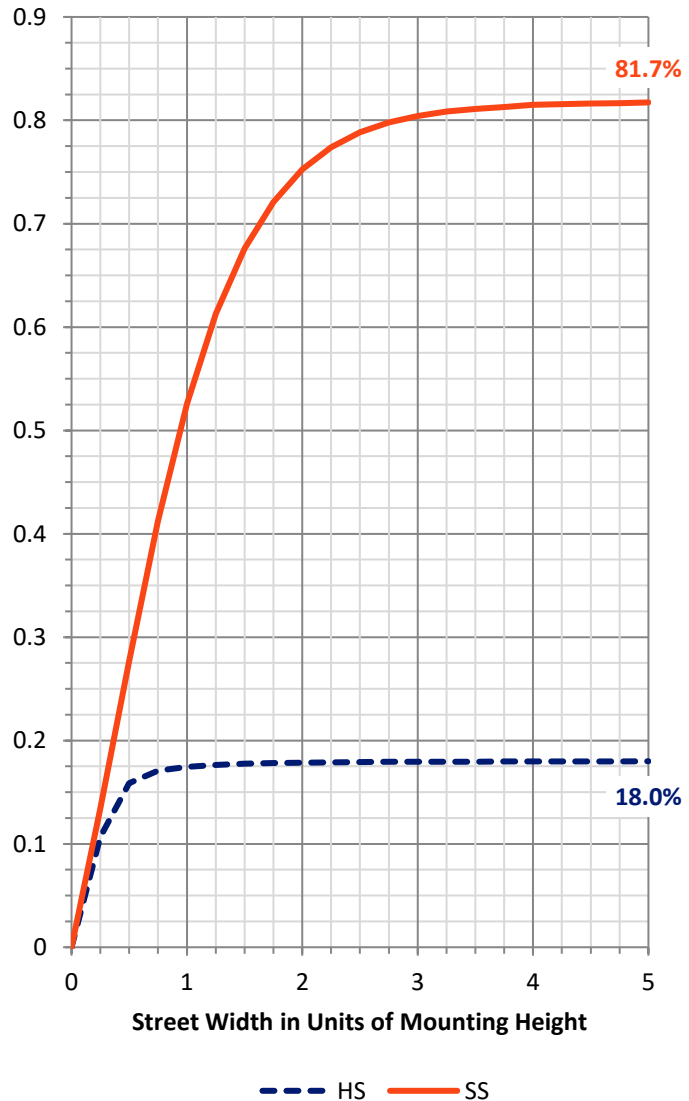
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2478.4	0.0	2478.4
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	11123.6	0.0	11123.6
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	13602.0	0.0	13602.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.5	1.5
10°-20°	637.3	4.7
20°-30°	1087.4	8.0
30°-40°	1692.6	12.4
40°-50°	2389.3	17.6
50°-60°	2877.7	21.2
60°-70°	2973.9	21.9
70°-80°	1638.3	12.0
80°-90°	102.1	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°	13602.0	100.0
0°-180°	13602.0	100.0

**Coefficient of Utilization**



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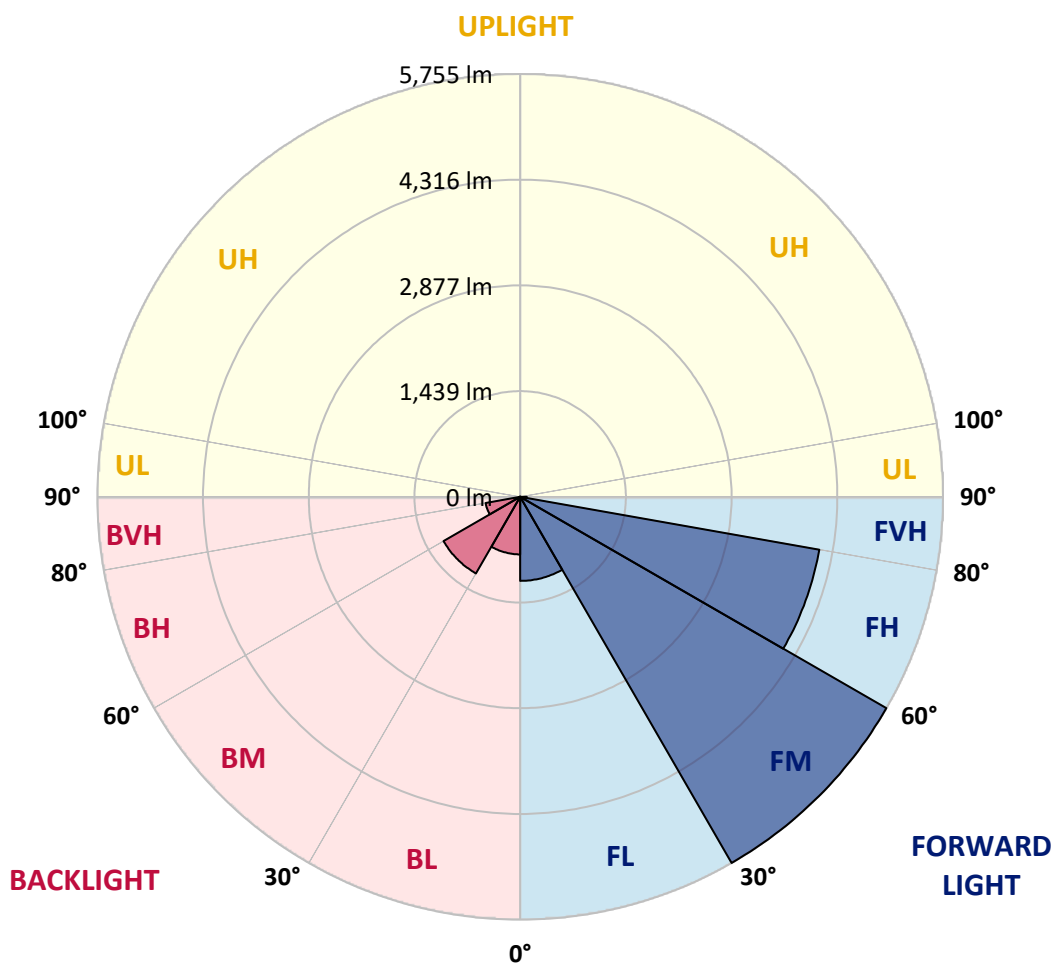
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.5	8.4			
FM (30°-60°)	5754.8	42.3			
FH (60°-80°)	4134.5	30.4			G2/5000
FVH (80°-90°)	89.8	0.7			G1/100
BL (0°-30°)	783.6	5.8	B2/1000		
BM (30°-60°)	1204.8	8.9	B2/2500		
BH (60°-80°)	477.7	3.5	B1/500		G1/500
BVH (80°-90°)	12.3	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°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2012.0	2032.5	2032.5	2026.2	2029.4	2015.2	2005.7	2016.8	2019.9	2029.4	2042.0
5°	2051.4	2075.0	2073.4	2062.4	2053.0	2040.4	2027.8	2037.2	2038.8	2042.0	2057.7
7.5°	2134.8	2156.9	2147.4	2136.4	2131.7	2103.4	2076.6	2075.0	2078.2	2087.6	2104.9
10°	2243.5	2260.8	2257.6	2240.3	2227.7	2185.2	2147.4	2133.3	2134.8	2138.0	2167.9
12.5°	2366.3	2389.9	2372.6	2349.0	2326.9	2265.5	2213.6	2193.1	2189.9	2197.8	2223.0
15°	2487.5	2512.7	2500.1	2485.9	2435.5	2367.8	2301.7	2268.7	2265.5	2265.5	2281.3
17.5°	2646.5	2656.0	2648.1	2627.6	2570.9	2485.9	2407.2	2358.4	2350.5	2355.3	2358.4
20°	2822.8	2840.2	2830.7	2808.7	2726.8	2635.5	2536.3	2478.1	2473.3	2478.1	2448.1
22.5°	3037.0	3043.3	3038.5	3002.3	2928.3	2807.1	2676.4	2610.3	2610.3	2615.0	2553.6
25°	3219.6	3257.4	3246.3	3202.3	3115.7	3010.2	2852.8	2770.9	2775.6	2778.8	2693.7
27.5°	3432.1	3463.6	3455.7	3422.7	3366.0	3232.2	3043.3	2989.7	2985.0	2980.3	2848.0
30°	3635.2	3658.8	3674.6	3666.7	3621.0	3495.1	3326.6	3287.3	3299.9	3290.4	3062.1
32.5°	3800.5	3841.5	3885.5	3895.0	3882.4	3770.6	3647.8	3668.3	3684.0	3795.8	3658.8
35°	3942.2	3986.3	4058.7	4134.3	4148.5	4104.4	4043.0	4192.5	4238.2	4466.5	4321.6
37.5°	4090.2	4128.0	4200.4	4320.1	4398.8	4422.4	4482.2	4718.4	4828.6	5025.4	4756.2
40°	4157.9	4195.7	4321.6	4472.8	4636.5	4768.8	4888.4	5162.3	5285.1	5345.0	4995.5
42.5°	4090.2	4126.4	4329.5	4614.5	4836.5	5129.3	5264.7	5538.6	5620.5	5614.2	5289.9
45°	4024.1	4058.7	4271.3	4650.7	5017.5	5461.5	5576.4	5883.4	5943.2	5867.7	5459.9
47.5°	3939.1	3986.3	4206.7	4628.6	5179.7	5762.2	5867.7	6129.0	6182.5	6070.8	5655.1
50°	3835.2	3876.1	4132.7	4594.0	5286.7	5987.3	6099.1	6358.9	6373.0	6269.1	5831.5
52.5°	3715.5	3737.5	4016.2	4524.7	5379.6	6152.6	6280.1	6552.5	6585.6	6557.2	6040.8
55°	3537.6	3577.0	3876.1	4416.1	5385.9	6239.2	6420.3	6826.5	6886.3	6820.2	6168.4
57.5°	3350.3	3392.8	3702.9	4265.0	5293.0	6294.3	6675.3	7182.3	7300.3	7087.8	6272.3
60°	3144.0	3181.8	3487.2	4041.4	5127.7	6373.0	6938.2	7599.5	7673.5	7316.1	6341.5
62.5°	2904.7	2934.6	3225.9	3770.6	4874.2	6352.6	7164.9	7934.8	7958.4	7520.8	6335.3
65°	2613.4	2611.9	2882.7	3392.8	4458.6	6188.8	7205.9	8103.3	8131.6	7653.0	6278.6
67.5°	2229.3	2224.6	2451.3	2931.5	3934.3	5762.2	7097.2	8260.7	8328.4	7791.5	6113.3
70°	1747.5	1753.8	1925.5	2353.7	3192.8	5112.0	6810.7	8155.2	8169.4	7525.5	5685.0
72.5°	1235.9	1232.7	1349.2	1638.9	2360.0	3991.0	5985.7	7435.7	7479.8	6867.4	4953.0
75°	566.8	590.4	881.6	1001.3	1424.8	2717.4	4924.6	6317.9	6402.9	5911.7	3861.9
77.5°	105.5	108.6	188.9	381.0	557.3	980.8	2942.5	4279.1	4457.0	4028.8	2175.8
80°	83.4	85.0	111.8	182.6	233.0	440.8	968.2	1763.3	1802.6	1571.2	784.0
82.5°	61.4	63.0	83.4	118.1	108.6	190.5	403.0	513.2	544.7	506.9	311.7
85°	36.2	37.8	48.8	58.3	56.7	75.6	67.7	61.4	55.1	45.7	39.4
87.5°	9.4	12.6	20.5	20.5	15.7	14.2	12.6	11.0	12.6	11.0	11.0
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°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2045.1	2043.5	2048.3	2060.8	2071.9	2073.4	2089.2	2109.7	2100.2	2127.0	2117.5
5°	2067.1	2071.9	2089.2	2109.7	2128.5	2144.3	2167.9	2202.5	2191.5	2216.7	2207.3
7.5°	2117.5	2125.4	2152.2	2172.6	2194.7	2189.9	2210.4	2230.9	2205.7	2232.5	2219.9
10°	2177.3	2186.8	2202.5	2210.4	2204.1	2201.0	2196.2	2193.1	2160.0	2178.9	2171.1
12.5°	2230.9	2232.5	2227.7	2207.3	2193.1	2155.3	2138.0	2130.1	2079.7	2093.9	2084.5
15°	2282.8	2260.8	2237.2	2189.9	2150.6	2092.3	2054.5	2021.5	1974.3	1993.1	1974.3
17.5°	2339.5	2306.4	2245.0	2175.8	2095.5	2010.5	1949.1	1895.5	1824.7	1821.5	1815.2
20°	2411.9	2363.1	2263.9	2150.6	2035.7	1908.1	1810.5	1720.8	1613.7	1599.6	1571.2
22.5°	2503.2	2430.8	2292.3	2117.5	1961.7	1801.1	1635.8	1487.8	1352.4	1309.9	1294.1
25°	2608.7	2519.0	2308.0	2087.6	1890.8	1645.2	1420.1	1228.0	1069.0	1023.3	1010.7
27.5°	2741.0	2630.8	2331.6	2043.5	1777.5	1454.7	1161.9	949.3	807.7	733.7	722.6
30°	2923.6	2755.1	2364.7	1999.4	1640.5	1231.2	900.5	653.4	519.5	475.5	467.6
32.5°	3421.1	3051.1	2400.9	1920.7	1459.4	982.4	598.3	417.2	327.5	291.3	288.1
35°	4052.4	3592.7	2533.2	1831.0	1240.6	681.7	371.6	248.7	199.9	185.8	185.8
37.5°	4460.2	4013.1	2753.6	1705.0	952.5	417.2	223.6	162.2	152.7	151.1	151.1
40°	4674.3	4198.8	2912.6	1531.9	637.6	242.5	157.4	140.1	137.0	133.8	133.8
42.5°	4946.7	4357.8	3049.5	1297.3	370.0	170.0	138.5	127.5	122.8	119.7	119.7
45°	5097.8	4531.0	2963.0	1018.6	211.0	152.7	127.5	114.9	110.2	110.2	110.2
47.5°	5245.8	4696.3	2852.8	732.1	179.5	140.1	119.7	107.1	102.3	105.5	105.5
50°	5414.2	4808.1	2678.0	547.9	170.0	130.7	108.6	97.6	94.5	99.2	99.2
52.5°	5571.7	4819.1	2397.8	437.7	157.4	121.2	100.8	89.7	86.6	89.7	89.7
55°	5617.3	4784.5	2317.5	347.9	149.6	111.8	94.5	83.4	75.6	75.6	74.0
57.5°	5606.3	4716.8	2122.2	294.4	140.1	102.3	86.6	74.0	64.5	61.4	61.4
60°	5568.5	4622.3	1916.0	256.6	130.7	94.5	77.1	63.0	53.5	50.4	50.4
62.5°	5521.3	4444.4	1624.7	223.6	121.2	91.3	64.5	52.0	45.7	42.5	42.5
65°	5322.9	4167.3	1300.4	190.5	111.8	80.3	56.7	45.7	39.4	36.2	36.2
67.5°	4993.9	3745.4	939.9	162.2	103.9	67.7	50.4	39.4	33.1	31.5	29.9
70°	4502.7	3162.9	582.5	140.1	89.7	61.4	44.1	34.6	29.9	25.2	25.2
72.5°	3753.3	2476.5	305.4	110.2	70.8	52.0	39.4	31.5	25.2	22.0	20.5
75°	2638.6	1527.1	220.4	85.0	48.8	42.5	33.1	26.8	22.0	18.9	17.3
77.5°	1273.7	525.8	154.3	63.0	34.6	31.5	25.2	22.0	17.3	15.7	15.7
80°	466.0	299.1	110.2	45.7	28.3	25.2	18.9	17.3	14.2	12.6	12.6
82.5°	209.4	141.7	63.0	29.9	20.5	18.9	14.2	11.0	11.0	11.0	11.0
85°	34.6	29.9	20.5	14.2	11.0	9.4	9.4	7.9	7.9	7.9	7.9
87.5°	9.4	9.4	7.9	7.9	6.3	4.7	3.1	3.1	3.1	4.7	4.7
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)