

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: P509151

Luminaire Tested: **VERD-CA2-120-722-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-120-722-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13991 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

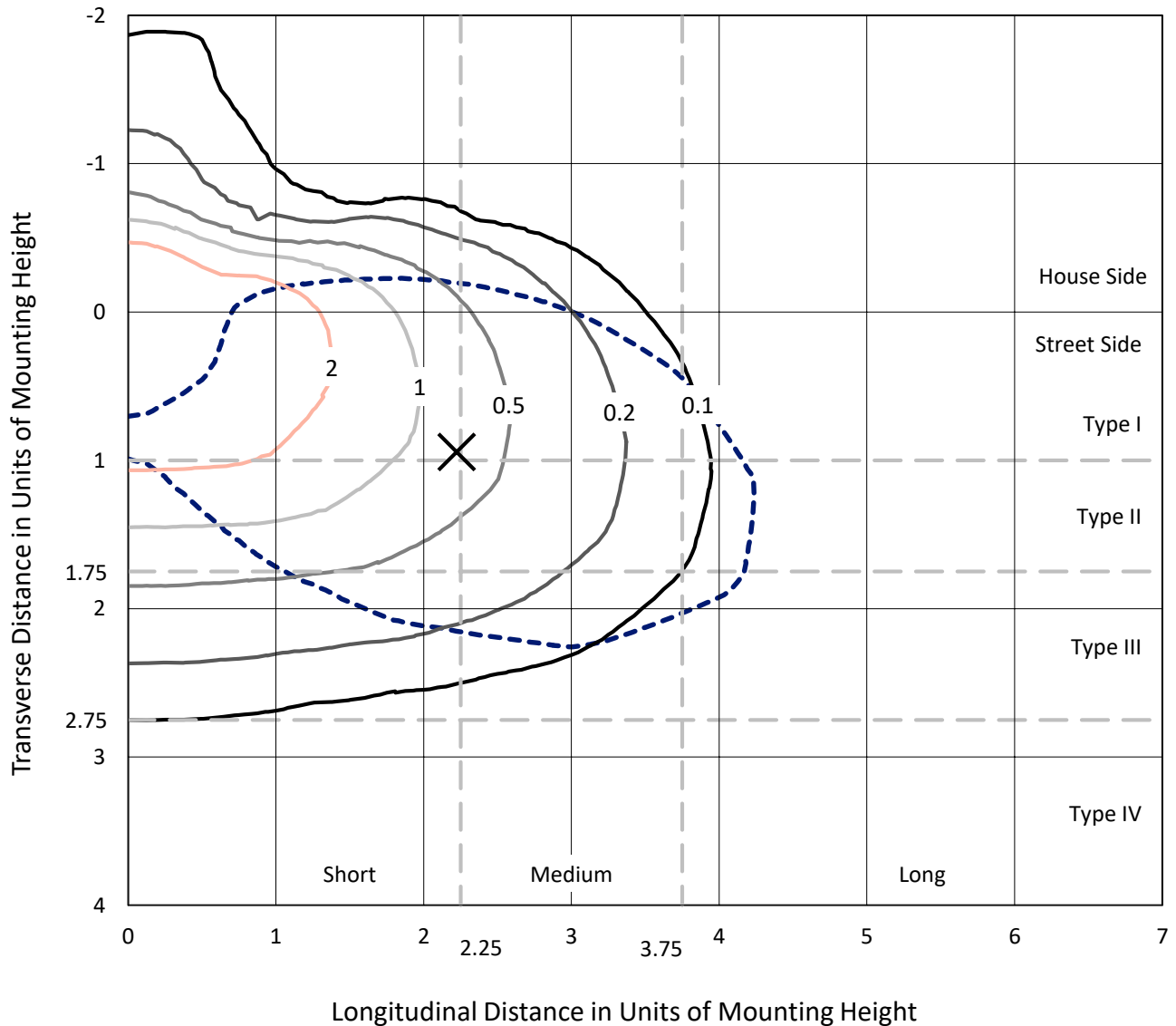
Input Watts (W): 122.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

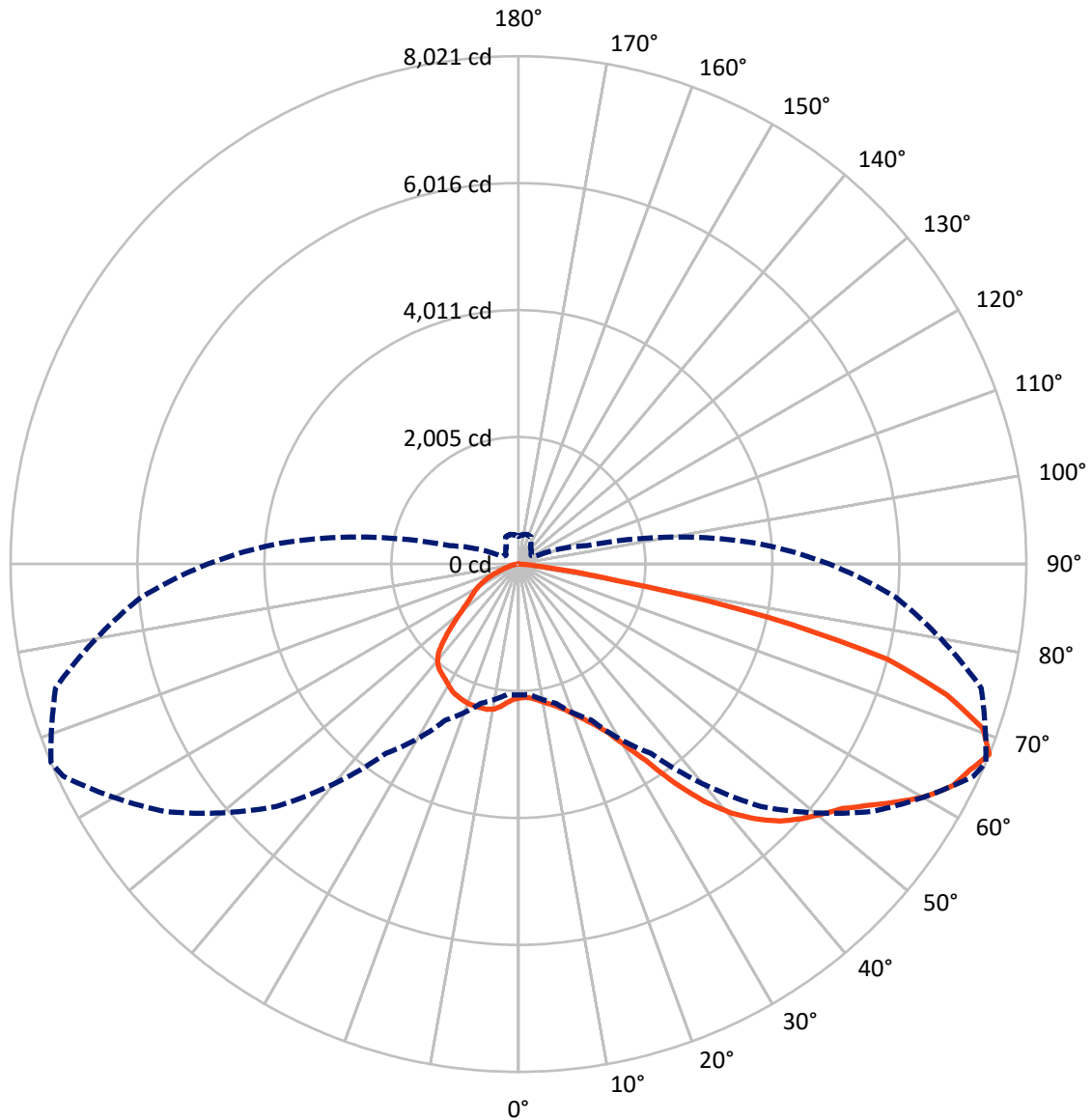
× Max cd  
 - - - 1/2 Max cd



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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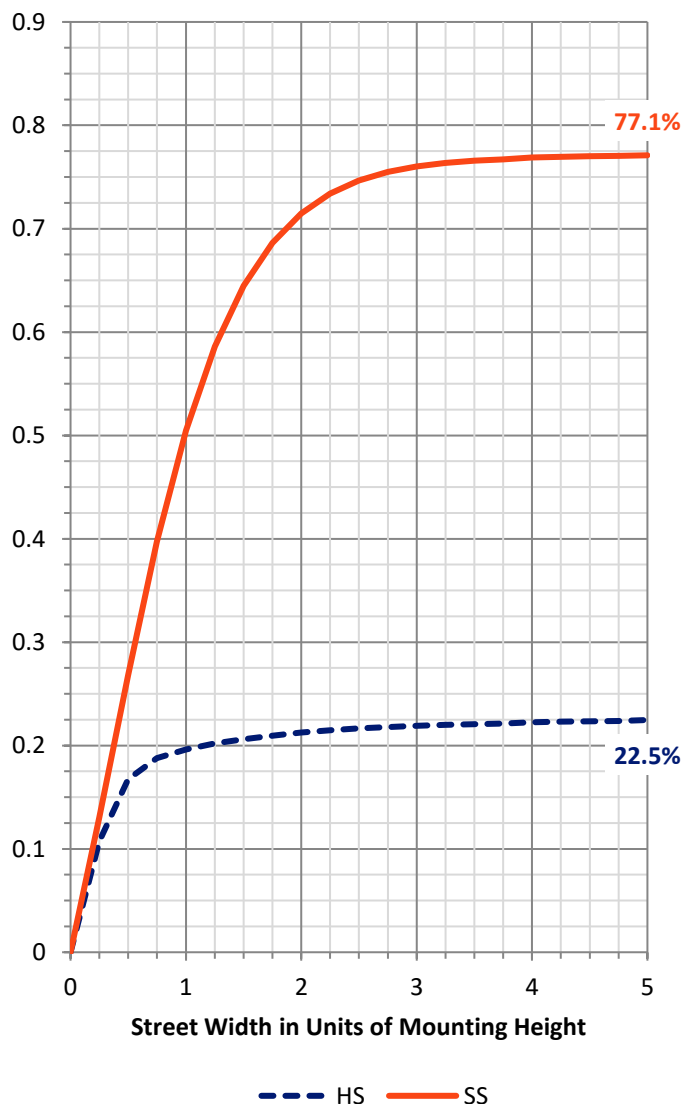
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3199.1	0.0	3199.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	10791.9	0.0	10791.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	13991.0	0.0	13991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.3	1.5
10°-20°	686.0	4.9
20°-30°	1185.4	8.5
30°-40°	1799.3	12.9
40°-50°	2444.9	17.5
50°-60°	2907.7	20.8
60°-70°	2991.7	21.4
70°-80°	1632.0	11.7
80°-90°	129.7	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°	13991.0	100.0
0°-180°	13991.0	100.0

**Coefficient of Utilization**



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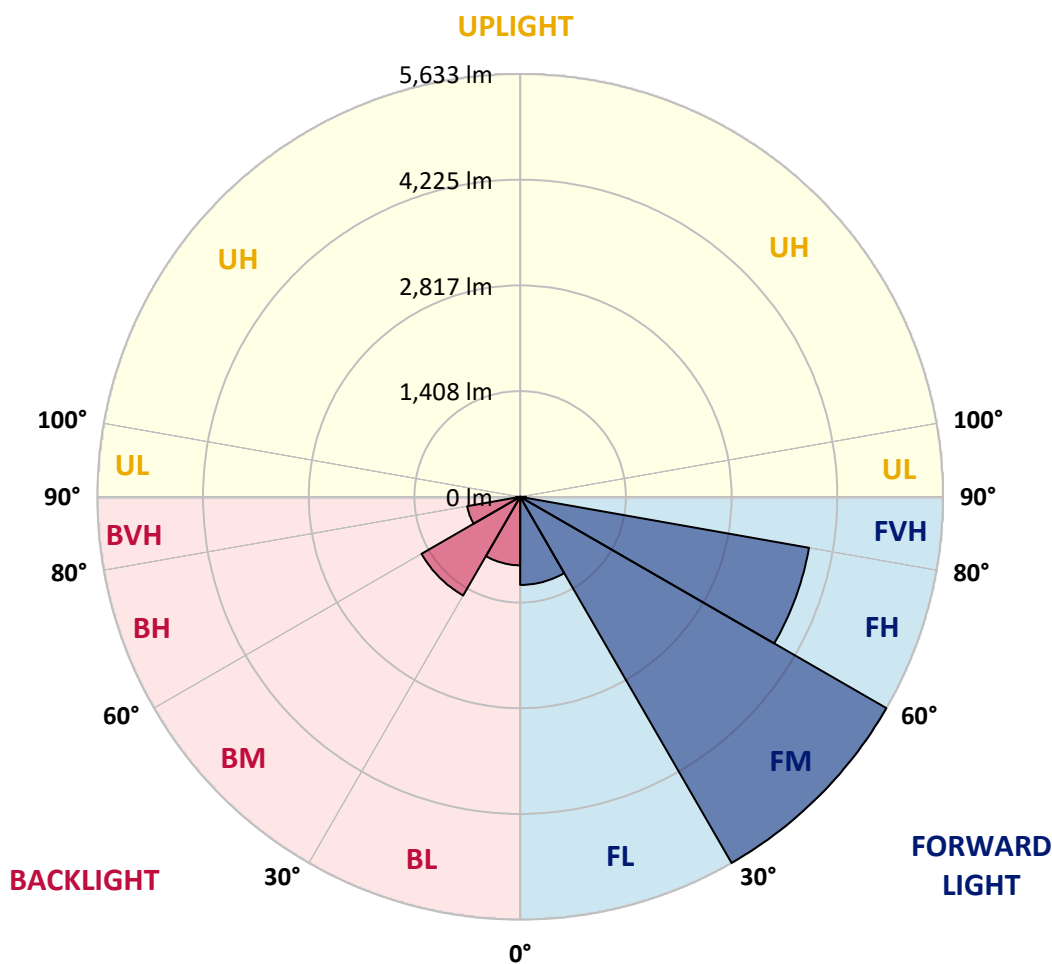
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.5	8.4			
FM (30°-60°)	5633.4	40.3			
FH (60°-80°)	3907.4	27.9			G2/5000
FVH (80°-90°)	77.6	0.6			G1/100
BL (0°-30°)	912.2	6.5	B2/1000		
BM (30°-60°)	1518.6	10.9	B2/2500		
BH (60°-80°)	716.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	52.1	0.4			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°	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6
2.5°	2128.7	2119.6	2107.5	2112.1	2103.0	2118.1	2112.1	2109.0	2109.0	2110.5	2118.1
5°	2177.2	2168.1	2159.0	2157.5	2139.3	2145.4	2136.3	2127.2	2127.2	2125.7	2128.7
7.5°	2262.1	2249.9	2239.3	2237.8	2215.1	2212.1	2184.8	2166.6	2166.6	2165.1	2169.6
10°	2374.2	2369.6	2348.4	2334.8	2307.5	2289.3	2256.0	2227.2	2221.2	2212.1	2224.2
12.5°	2481.8	2480.2	2460.5	2445.4	2407.5	2375.7	2321.1	2281.8	2274.2	2263.6	2272.7
15°	2616.6	2603.0	2581.7	2572.7	2518.1	2469.6	2407.5	2348.4	2340.8	2328.7	2336.3
17.5°	2765.1	2757.5	2724.2	2713.6	2645.4	2589.3	2512.1	2436.3	2424.2	2407.5	2406.0
20°	2943.9	2930.2	2904.5	2874.2	2807.5	2727.2	2637.8	2551.4	2540.8	2527.2	2498.4
22.5°	3136.3	3121.1	3095.4	3063.6	2978.7	2893.9	2781.7	2672.7	2666.6	2657.5	2604.5
25°	3319.6	3293.8	3296.9	3266.6	3190.8	3083.2	2951.4	2821.1	2818.1	2816.6	2731.7
27.5°	3515.1	3487.8	3478.7	3468.1	3396.9	3295.4	3146.9	3022.6	3012.0	3013.6	2884.8
30°	3698.4	3686.3	3678.7	3671.1	3636.3	3545.4	3402.9	3292.3	3325.7	3322.6	3145.4
32.5°	3840.8	3831.7	3863.5	3899.9	3890.8	3815.0	3716.6	3666.6	3699.9	3807.5	3652.9
35°	3966.6	3962.0	4022.6	4099.9	4154.4	4099.9	4089.3	4166.6	4243.8	4422.6	4333.2
37.5°	4102.9	4096.9	4148.4	4280.2	4375.6	4392.3	4472.6	4671.1	4745.3	4924.1	4736.2
40°	4101.4	4109.0	4233.2	4401.4	4575.6	4716.5	4881.7	5074.1	5169.6	5254.4	4963.5
42.5°	4034.7	4039.3	4195.3	4515.0	4768.1	5045.3	5192.3	5439.2	5504.4	5521.1	5231.7
45°	3966.6	3969.6	4139.3	4498.4	4928.7	5352.9	5516.5	5742.3	5792.3	5734.7	5413.5
47.5°	3868.1	3887.8	4071.1	4481.7	5066.5	5636.2	5768.0	5992.3	6012.0	5939.2	5565.0
50°	3751.4	3762.0	3972.6	4427.2	5157.4	5812.0	5968.0	6171.0	6208.9	6127.1	5752.9
52.5°	3609.0	3618.1	3846.9	4354.4	5207.4	5946.8	6121.0	6363.5	6415.0	6378.6	5918.0
55°	3445.4	3449.9	3683.2	4236.2	5193.8	6005.9	6254.4	6636.2	6722.5	6633.2	6055.9
57.5°	3240.8	3257.5	3522.6	4059.0	5090.8	6080.1	6495.3	6972.5	7083.1	6892.2	6158.9
60°	3030.2	3046.9	3287.8	3852.9	4918.0	6113.5	6743.8	7334.6	7431.6	7137.7	6222.6
62.5°	2793.9	2816.6	3016.6	3542.3	4609.0	6069.5	6927.1	7651.3	7705.8	7284.6	6205.9
65°	2449.9	2462.1	2680.2	3168.1	4205.9	5840.7	6919.5	7821.0	7839.2	7446.8	6133.2
67.5°	2068.1	2069.6	2275.7	2716.6	3651.4	5413.5	6813.4	7931.6	8021.0	7566.5	5974.1
70°	1572.7	1593.9	1754.5	2081.8	2984.8	4683.2	6463.5	7822.5	7780.1	7239.2	5518.0
72.5°	1122.7	1110.6	1192.4	1413.6	2089.3	3613.5	5572.6	7068.0	7077.1	6593.8	4801.4
75°	597.0	600.0	669.7	856.0	1066.6	2351.5	4457.5	5971.0	6025.6	5654.4	3757.5
77.5°	133.3	151.5	230.3	327.3	463.6	753.0	2418.1	3916.6	4019.6	3721.1	2059.0
80°	103.0	104.5	151.5	186.4	204.5	360.6	768.2	1421.2	1577.2	1489.4	774.2
82.5°	68.2	69.7	100.0	103.0	98.5	165.1	348.5	425.7	468.2	409.1	287.9
85°	36.4	37.9	45.5	50.0	39.4	48.5	45.5	36.4	37.9	33.3	33.3
87.5°	7.6	4.5	6.1	4.5	4.5	3.0	4.5	4.5	4.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6
2.5°	2118.1	2121.2	2128.7	2140.9	2146.9	2160.5	2169.6	2192.4	2224.2	2213.6	2199.9
5°	2130.2	2139.3	2165.1	2196.9	2221.2	2257.5	2275.7	2319.6	2356.0	2353.0	2328.7
7.5°	2175.7	2195.4	2227.2	2274.2	2315.1	2351.5	2377.2	2424.2	2457.5	2443.9	2421.1
10°	2233.3	2253.0	2287.8	2330.2	2360.5	2399.9	2416.6	2454.5	2475.7	2459.0	2439.3
12.5°	2286.3	2296.9	2321.1	2353.0	2369.6	2395.4	2403.0	2430.2	2449.9	2442.4	2418.1
15°	2337.8	2336.3	2340.8	2349.9	2356.0	2362.1	2363.6	2383.3	2396.9	2381.8	2365.1
17.5°	2395.4	2380.2	2360.5	2345.4	2322.7	2312.1	2292.4	2301.5	2299.9	2287.8	2274.2
20°	2468.1	2440.8	2380.2	2333.3	2274.2	2227.2	2186.3	2178.7	2178.7	2145.4	2143.9
22.5°	2554.5	2509.0	2407.5	2304.5	2209.0	2134.8	2059.0	2015.1	1983.3	1959.0	1948.4
25°	2666.6	2583.3	2431.8	2265.1	2124.2	1989.3	1875.7	1815.1	1754.5	1715.1	1709.0
27.5°	2786.3	2695.4	2446.9	2230.2	2007.5	1822.7	1665.1	1540.9	1484.8	1459.1	1434.8
30°	2981.7	2821.1	2474.2	2156.0	1860.6	1618.1	1409.1	1263.6	1209.1	1190.9	1175.7
32.5°	3456.0	3146.9	2499.9	2080.2	1703.0	1392.4	1116.6	993.9	946.9	965.1	971.2
35°	4049.9	3631.7	2622.7	1992.4	1539.4	1136.3	859.1	777.3	780.3	807.6	816.6
37.5°	4452.9	4059.0	2872.6	1881.8	1304.5	842.4	665.1	639.4	662.1	686.3	690.9
40°	4689.3	4254.4	3048.4	1745.4	1027.2	630.3	500.0	481.8	530.3	584.8	618.2
42.5°	4940.8	4421.1	3139.3	1568.1	721.2	456.0	383.3	397.0	474.2	521.2	542.4
45°	5075.6	4551.4	3098.4	1315.1	490.9	354.5	343.9	381.8	459.1	501.5	507.6
47.5°	5221.1	4681.7	2999.9	1051.5	375.7	336.4	337.9	383.3	462.1	507.6	507.6
50°	5346.8	4789.3	2824.2	824.2	357.6	324.2	339.4	390.9	466.7	506.0	504.5
52.5°	5492.3	4837.7	2574.2	666.6	339.4	313.6	340.9	397.0	459.1	481.8	478.8
55°	5537.7	4802.9	2454.5	557.6	325.7	307.6	347.0	406.0	456.0	460.6	453.0
57.5°	5537.7	4709.0	2318.1	475.7	313.6	307.6	350.0	404.5	472.7	501.5	498.5
60°	5513.5	4610.5	2109.0	425.7	297.0	304.5	351.5	427.3	562.1	593.9	592.4
62.5°	5436.2	4451.4	1851.5	375.7	280.3	306.1	347.0	459.1	642.4	628.8	595.4
65°	5252.9	4151.4	1501.5	330.3	262.1	306.1	340.9	504.5	571.2	545.4	533.3
67.5°	4907.4	3774.1	1116.6	283.3	240.9	286.4	331.8	472.7	484.8	456.0	437.9
70°	4451.4	3196.9	716.6	239.4	218.2	269.7	325.7	443.9	468.2	433.3	410.6
72.5°	3709.0	2539.3	415.1	195.4	184.8	248.5	313.6	430.3	460.6	413.6	381.8
75°	2616.6	1603.0	272.7	143.9	148.5	212.1	290.9	403.0	431.8	374.2	328.8
77.5°	1333.3	601.5	193.9	106.1	100.0	162.1	251.5	371.2	425.7	377.3	322.7
80°	471.2	303.0	127.3	69.7	65.1	100.0	192.4	315.1	400.0	368.2	357.6
82.5°	201.5	151.5	69.7	43.9	39.4	50.0	109.1	248.5	351.5	333.3	403.0
85°	28.8	25.8	19.7	16.7	16.7	22.7	34.8	122.7	237.9	271.2	328.8
87.5°	4.5	4.5	4.5	3.0	3.0	3.0	1.5	18.2	78.8	118.2	163.6
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)