

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: P509134

Luminaire Tested: **VERD-CA2-110-750-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509134  
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-CA2-110-750-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15334 lumens  
Efficiency: N/A  
Efficacy: 135.0 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

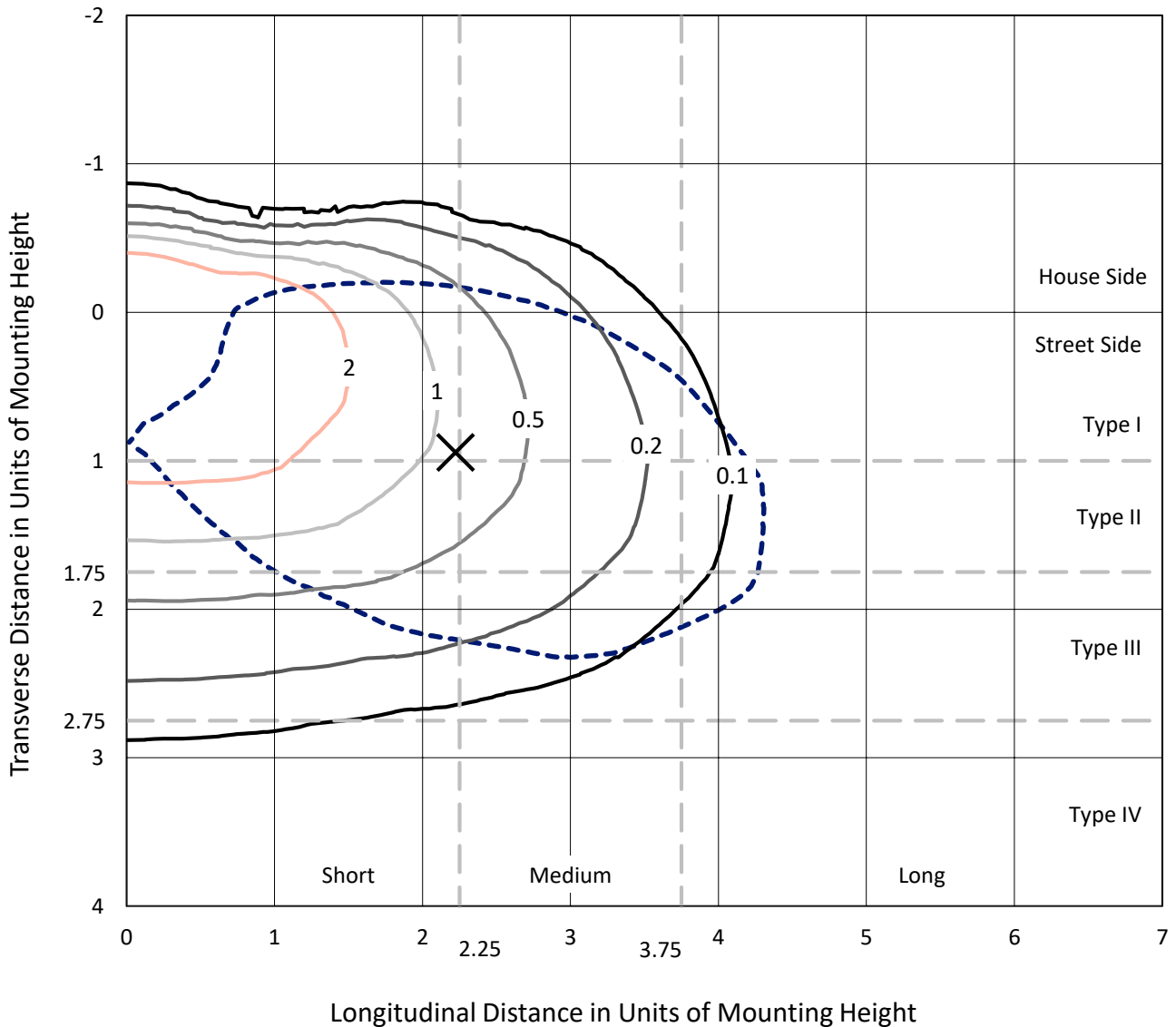
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

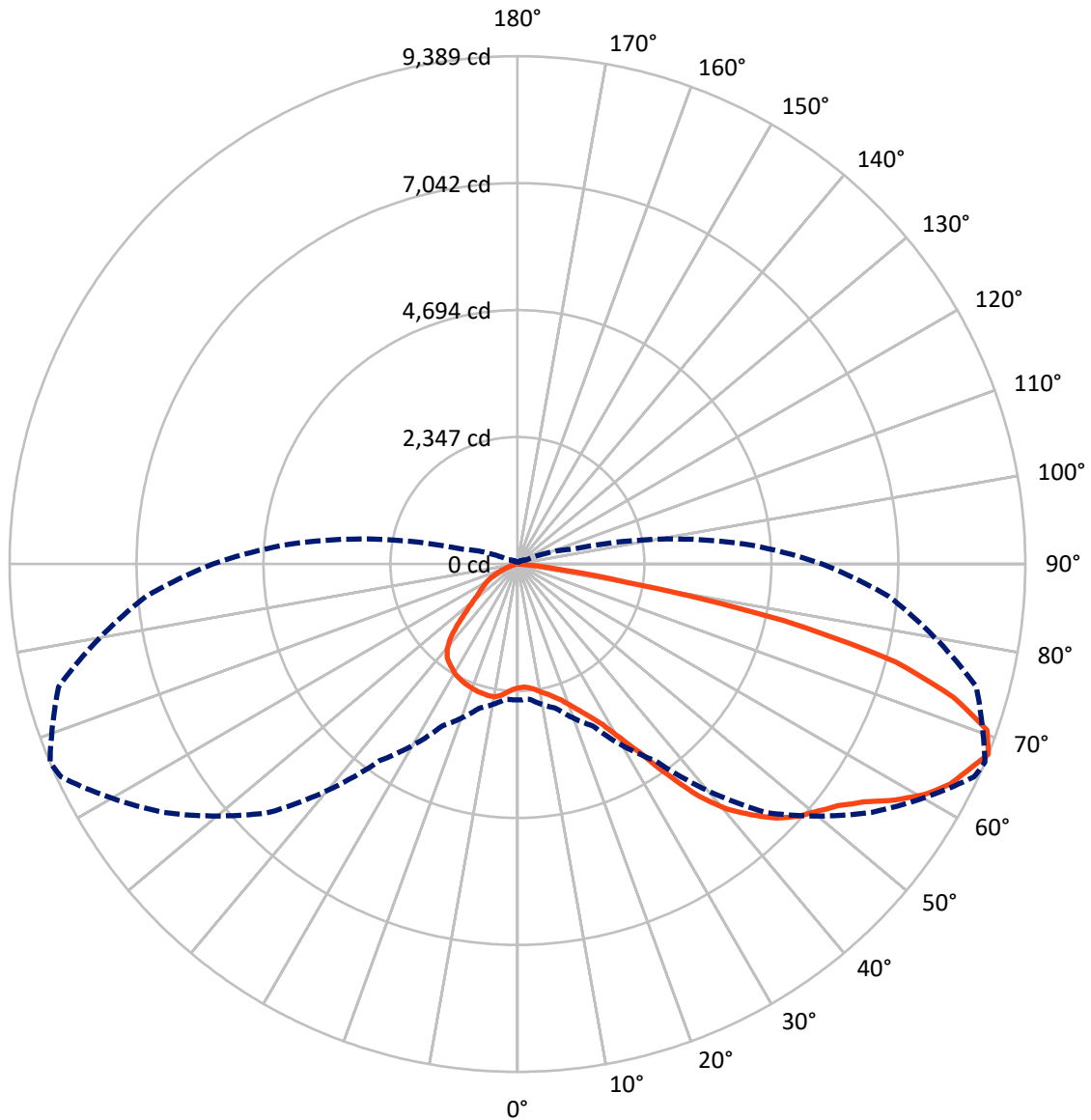
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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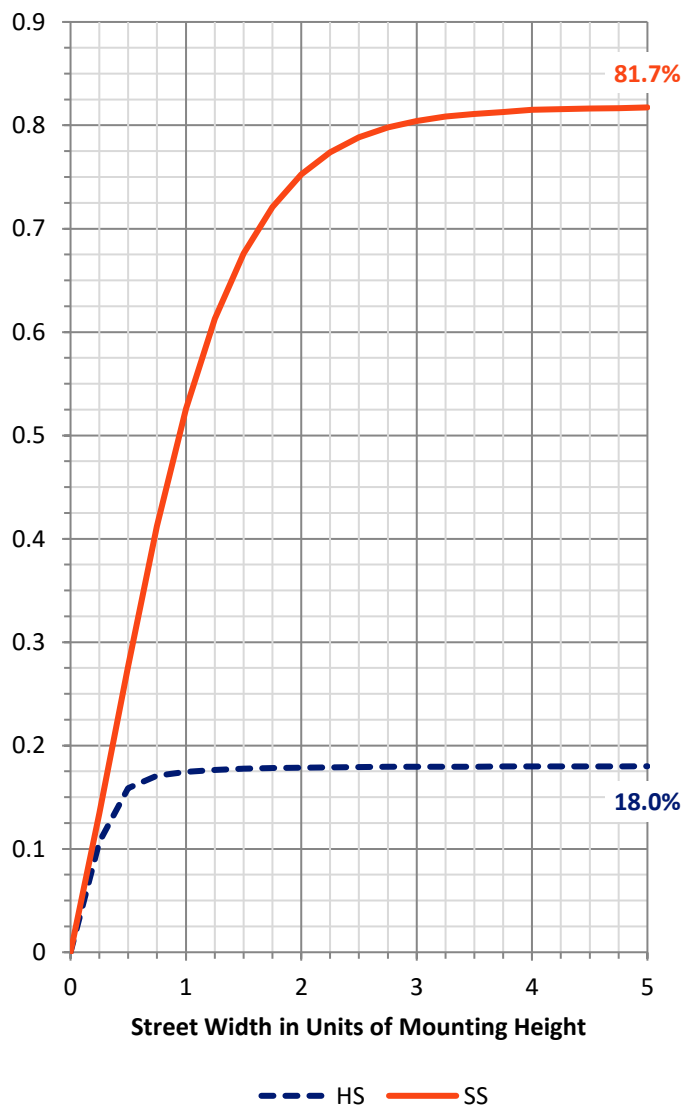
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2793.9	0.0	2793.9
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	12540.0	0.0	12540.0
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	15334.0	0.0	15334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.4	1.5
10°-20°	718.4	4.7
20°-30°	1225.9	8.0
30°-40°	1908.1	12.4
40°-50°	2693.6	17.6
50°-60°	3244.1	21.2
60°-70°	3352.6	21.9
70°-80°	1846.9	12.0
80°-90°	115.1	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°	15334.0	100.0
0°-180°	15334.0	100.0

**Coefficient of Utilization**



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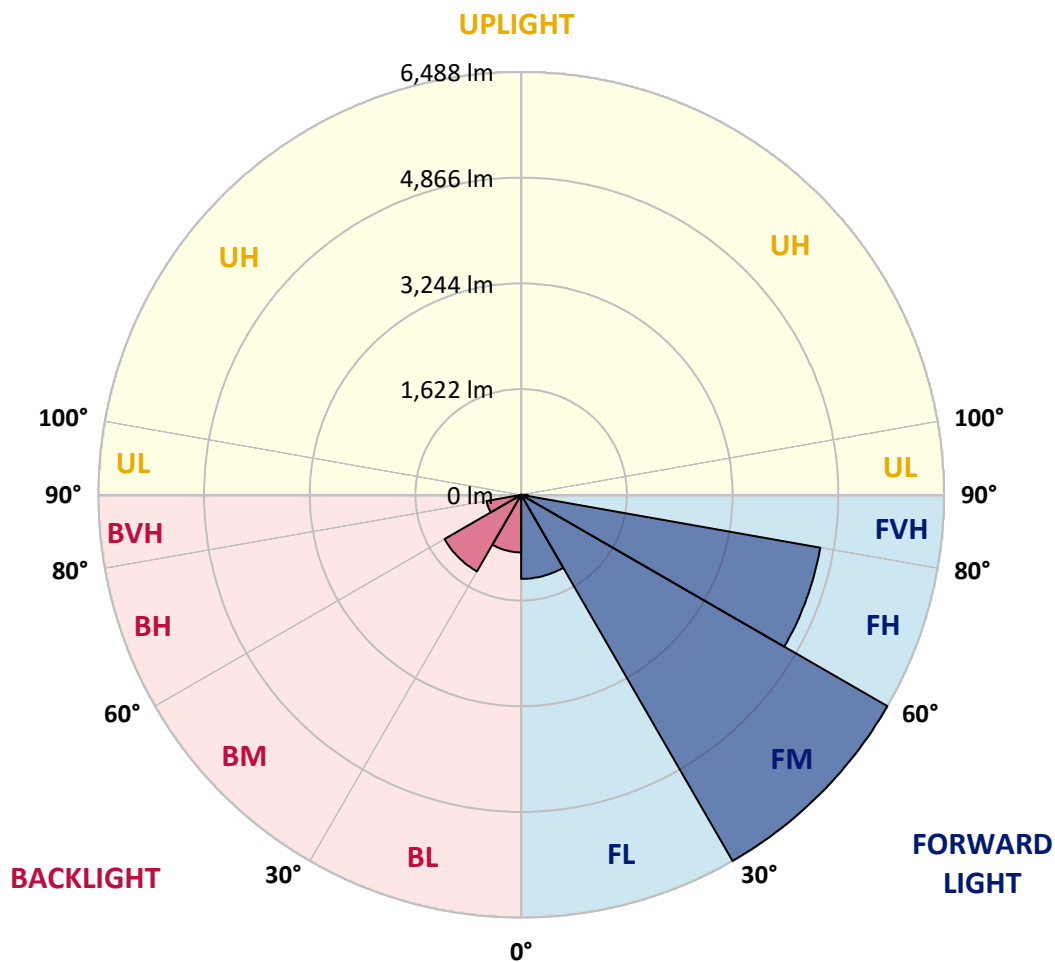
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.3	8.4			
FM (30°-60°)	6487.6	42.3			
FH (60°-80°)	4661.0	30.4			G2/5000
FVH (80°-90°)	101.3	0.7			G2/225
BL (0°-30°)	883.4	5.8	B2/1000		
BM (30°-60°)	1358.2	8.9	B2/2500		
BH (60°-80°)	538.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	13.9	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°	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5
2.5°	2268.2	2291.3	2291.3	2284.2	2287.8	2271.8	2261.1	2273.6	2277.1	2287.8	2302.0
5°	2312.6	2339.2	2337.5	2325.0	2314.4	2300.2	2286.0	2296.6	2298.4	2302.0	2319.7
7.5°	2406.7	2431.5	2420.9	2408.5	2403.1	2371.2	2341.0	2339.2	2342.8	2353.4	2373.0
10°	2529.1	2548.7	2545.1	2525.6	2511.4	2463.5	2420.9	2404.9	2406.7	2410.2	2444.0
12.5°	2667.6	2694.2	2674.7	2648.1	2623.2	2554.0	2495.4	2472.3	2468.8	2477.7	2506.1
15°	2804.2	2832.6	2818.4	2802.5	2745.7	2669.4	2594.8	2557.5	2554.0	2554.0	2571.7
17.5°	2983.5	2994.2	2985.3	2962.2	2898.3	2802.5	2713.7	2658.7	2649.8	2655.2	2658.7
20°	3182.3	3201.8	3191.2	3166.3	3074.0	2971.1	2859.3	2793.6	2788.3	2793.6	2759.9
22.5°	3423.7	3430.8	3425.4	3384.6	3301.2	3164.5	3017.2	2942.7	2942.7	2948.0	2878.8
25°	3629.5	3672.1	3659.7	3610.0	3512.4	3393.5	3216.0	3123.7	3129.0	3132.6	3036.7
27.5°	3869.1	3904.6	3895.8	3858.5	3794.6	3643.7	3430.8	3370.4	3365.1	3359.8	3210.7
30°	4098.1	4124.7	4142.5	4133.6	4082.1	3940.1	3750.2	3705.9	3720.1	3709.4	3452.1
32.5°	4284.5	4330.6	4380.3	4390.9	4376.7	4250.7	4112.3	4135.4	4153.1	4279.1	4124.7
35°	4444.2	4493.9	4575.5	4660.7	4676.7	4627.0	4557.8	4726.4	4777.9	5035.2	4871.9
37.5°	4611.0	4653.6	4735.3	4870.2	4958.9	4985.5	5053.0	5319.2	5443.4	5665.3	5361.8
40°	4687.3	4729.9	4871.9	5042.3	5226.9	5376.0	5510.9	5819.7	5958.1	6025.6	5631.6
42.5°	4611.0	4651.8	4880.8	5202.0	5452.3	5782.4	5935.1	6243.9	6336.2	6329.1	5963.5
45°	4536.5	4575.5	4815.1	5242.9	5656.4	6156.9	6286.5	6632.6	6700.0	6614.8	6155.1
47.5°	4440.6	4493.9	4742.4	5218.0	5839.2	6495.9	6614.8	6909.4	6969.8	6843.8	6375.2
50°	4323.5	4369.7	4658.9	5179.0	5959.9	6749.7	6875.7	7168.6	7184.5	7067.4	6574.0
52.5°	4188.6	4213.5	4527.6	5100.9	6064.6	6936.1	7079.8	7386.9	7424.1	7392.2	6810.1
55°	3988.1	4032.4	4369.7	4978.4	6071.7	7033.7	7237.8	7695.7	7763.1	7688.6	6953.8
57.5°	3776.9	3824.8	4174.4	4808.0	5967.0	7095.8	7525.3	8096.8	8229.9	7990.3	7071.0
60°	3544.4	3586.9	3931.3	4556.0	5780.6	7184.5	7821.7	8567.1	8650.6	8247.7	7149.0
62.5°	3274.6	3308.3	3636.6	4250.7	5494.9	7161.5	8077.3	8945.2	8971.8	8478.4	7141.9
65°	2946.2	2944.5	3249.7	3824.8	5026.3	6976.9	8123.4	9135.1	9167.0	8627.5	7078.1
67.5°	2513.2	2507.8	2763.4	3304.7	4435.3	6495.9	8001.0	9312.6	9388.9	8783.7	6891.7
70°	1970.1	1977.2	2170.6	2653.4	3599.4	5762.9	7677.9	9193.7	9209.6	8483.7	6408.9
72.5°	1393.2	1389.7	1521.0	1847.6	2660.5	4499.2	6747.9	8382.6	8432.3	7741.8	5583.6
75°	638.9	665.6	993.9	1128.8	1606.2	3063.4	5551.7	7122.4	7218.3	6664.5	4353.7
77.5°	118.9	122.5	213.0	429.5	628.3	1105.7	3317.2	4824.0	5024.6	4541.8	2452.8
80°	94.1	95.8	126.0	205.9	262.7	497.0	1091.5	1987.8	2032.2	1771.3	883.9
82.5°	69.2	71.0	94.1	133.1	122.5	214.8	454.4	578.6	614.1	571.5	351.4
85°	40.8	42.6	55.0	65.7	63.9	85.2	76.3	69.2	62.1	51.5	44.4
87.5°	10.6	14.2	23.1	23.1	17.7	16.0	14.2	12.4	14.2	12.4	12.4
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°	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5
2.5°	2305.5	2303.7	2309.1	2323.3	2335.7	2337.5	2355.2	2378.3	2367.6	2397.8	2387.2
5°	2330.4	2335.7	2355.2	2378.3	2399.6	2417.3	2444.0	2483.0	2470.6	2499.0	2488.3
7.5°	2387.2	2396.0	2426.2	2449.3	2474.1	2468.8	2491.9	2514.9	2486.5	2516.7	2502.5
10°	2454.6	2465.2	2483.0	2491.9	2484.8	2481.2	2475.9	2472.3	2435.1	2456.4	2447.5
12.5°	2514.9	2516.7	2511.4	2488.3	2472.3	2429.8	2410.2	2401.4	2344.6	2360.5	2349.9
15°	2573.5	2548.7	2522.0	2468.8	2424.4	2358.8	2316.2	2278.9	2225.6	2246.9	2225.6
17.5°	2637.4	2600.1	2530.9	2452.8	2362.3	2266.5	2197.2	2136.9	2057.0	2053.5	2046.4
20°	2719.1	2664.0	2552.2	2424.4	2294.9	2151.1	2041.1	1939.9	1819.2	1803.2	1771.3
22.5°	2822.0	2740.3	2584.2	2387.2	2211.4	2030.4	1844.1	1677.2	1524.6	1476.7	1458.9
25°	2940.9	2839.7	2601.9	2353.4	2131.6	1854.7	1600.9	1384.4	1205.1	1153.6	1139.4
27.5°	3090.0	2965.8	2628.5	2303.7	2003.8	1639.9	1309.8	1070.2	910.5	827.1	814.7
30°	3295.9	3106.0	2665.8	2254.0	1849.4	1387.9	1015.2	736.6	585.7	536.0	527.1
32.5°	3856.7	3439.6	2706.6	2165.3	1645.3	1107.5	674.4	470.3	369.2	328.3	324.8
35°	4568.4	4050.2	2855.7	2064.1	1398.6	768.5	418.9	280.4	225.4	209.4	209.4
37.5°	5028.1	4524.1	3104.2	1922.1	1073.8	470.3	252.0	182.8	172.2	170.4	170.4
40°	5269.5	4733.5	3283.4	1726.9	718.8	273.3	177.5	158.0	154.4	150.9	150.9
42.5°	5576.5	4912.8	3437.9	1462.5	417.1	191.7	156.2	143.8	138.4	134.9	134.9
45°	5746.9	5108.0	3340.2	1148.3	237.8	172.2	143.8	129.6	124.2	124.2	124.2
47.5°	5913.8	5294.3	3216.0	825.3	202.3	158.0	134.9	120.7	115.4	118.9	118.9
50°	6103.7	5420.4	3019.0	617.6	191.7	147.3	122.5	110.0	106.5	111.8	111.8
52.5°	6281.2	5432.8	2703.1	493.4	177.5	136.7	113.6	101.2	97.6	101.2	101.2
55°	6332.6	5393.7	2612.6	392.2	168.6	126.0	106.5	94.1	85.2	85.2	83.4
57.5°	6320.2	5317.4	2392.5	331.9	158.0	115.4	97.6	83.4	72.8	69.2	69.2
60°	6277.6	5210.9	2160.0	289.3	147.3	106.5	87.0	71.0	60.3	56.8	56.8
62.5°	6224.4	5010.4	1831.6	252.0	136.7	102.9	72.8	58.6	51.5	47.9	47.9
65°	6000.7	4698.0	1466.0	214.8	126.0	90.5	63.9	51.5	44.4	40.8	40.8
67.5°	5629.8	4222.3	1059.6	182.8	117.1	76.3	56.8	44.4	37.3	35.5	33.7
70°	5076.0	3565.6	656.7	158.0	101.2	69.2	49.7	39.0	33.7	28.4	28.4
72.5°	4231.2	2791.8	344.3	124.2	79.9	58.6	44.4	35.5	28.4	24.8	23.1
75°	2974.6	1721.6	248.5	95.8	55.0	47.9	37.3	30.2	24.8	21.3	19.5
77.5°	1435.8	592.8	173.9	71.0	39.0	35.5	28.4	24.8	19.5	17.7	17.7
80°	525.4	337.2	124.2	51.5	31.9	28.4	21.3	19.5	16.0	14.2	14.2
82.5°	236.1	159.7	71.0	33.7	23.1	21.3	16.0	12.4	12.4	12.4	12.4
85°	39.0	33.7	23.1	16.0	12.4	10.6	10.6	8.9	8.9	8.9	8.9
87.5°	10.6	10.6	8.9	8.9	7.1	5.3	3.5	3.5	3.5	5.3	5.3
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)