

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: P509558

Luminaire Tested: **VERD-G-CA2-120-740-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-120-740-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

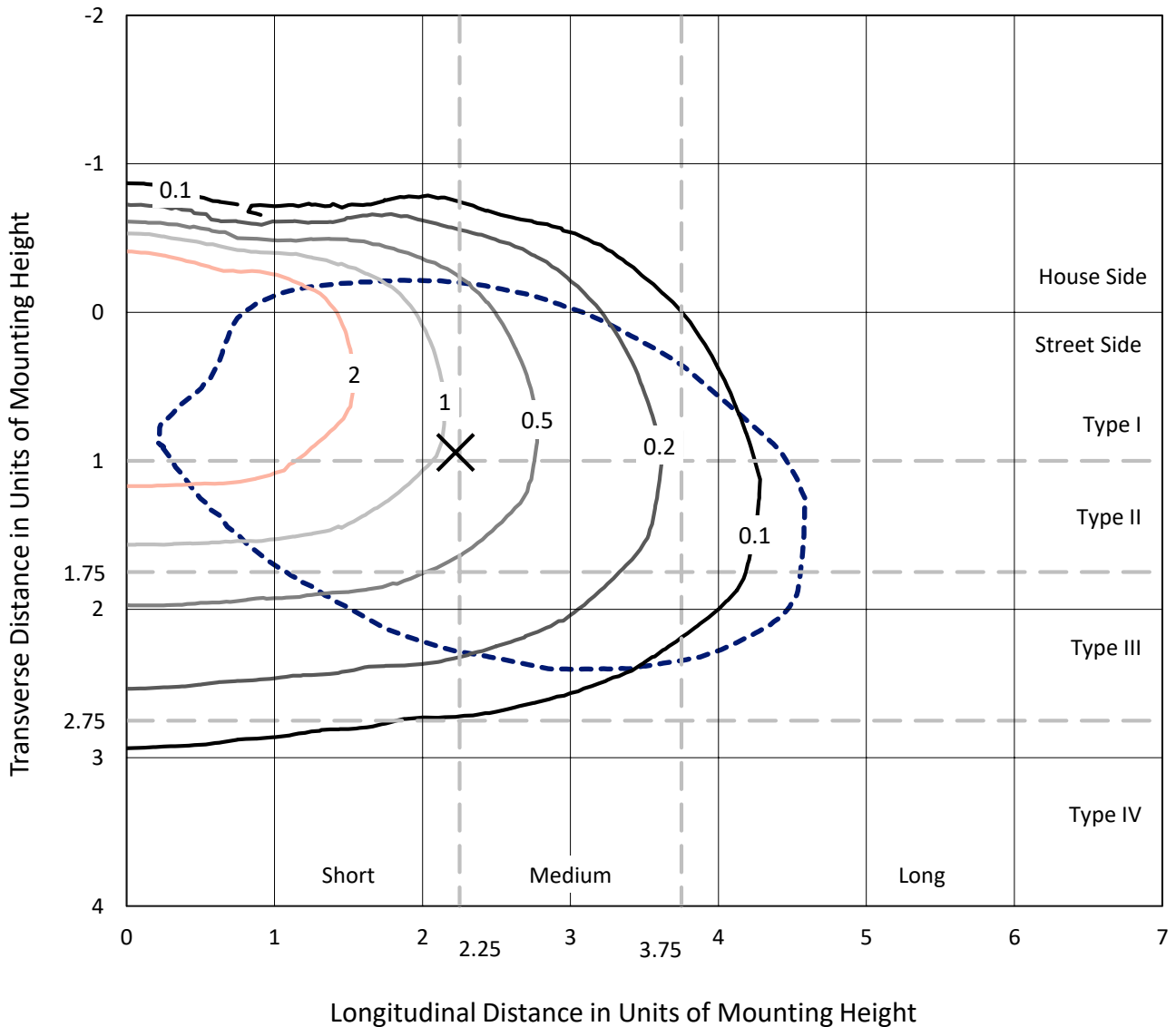
Lumens per Lamp: N/A  
Luminaire Lumens: 16388 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): 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

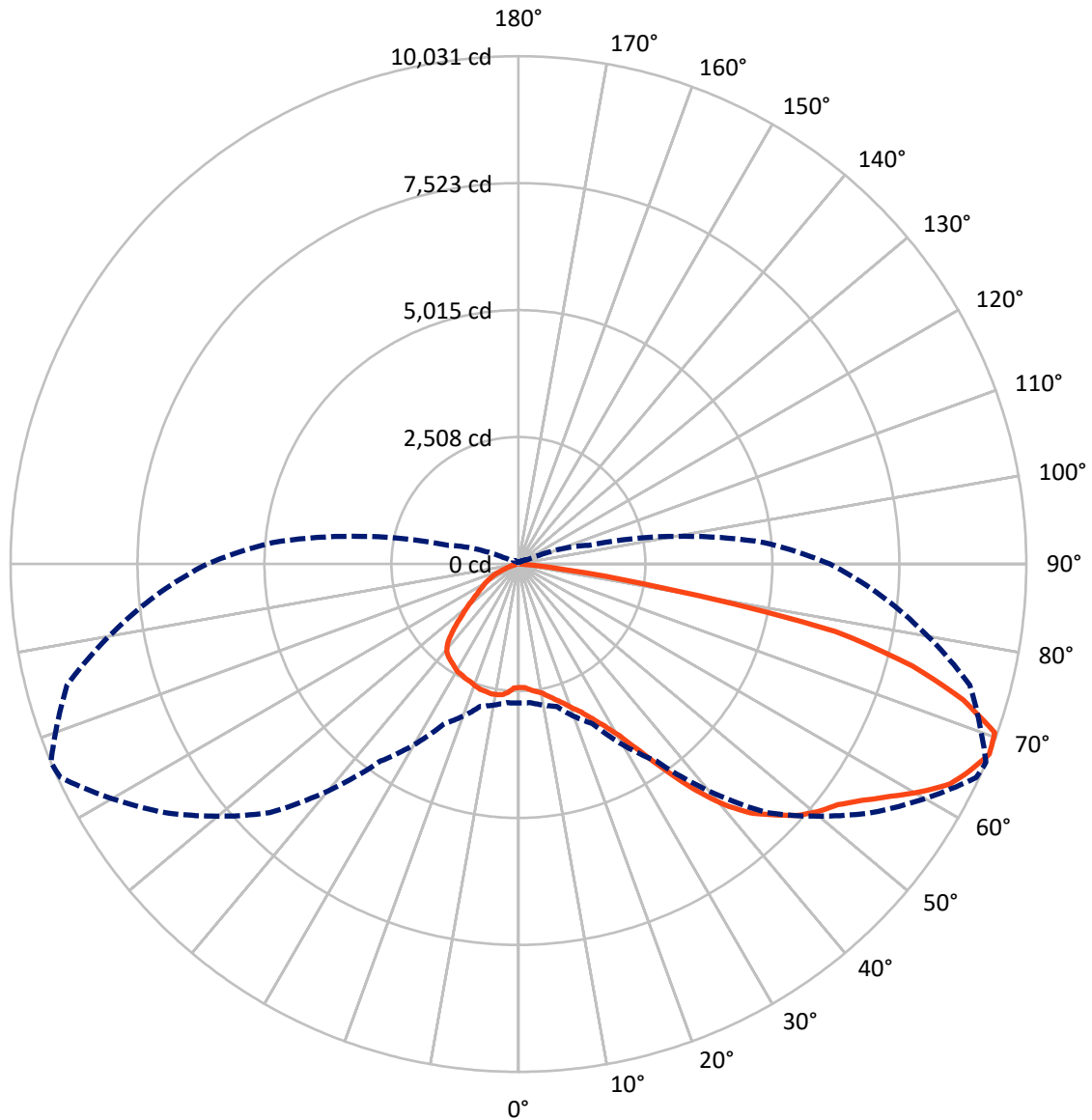
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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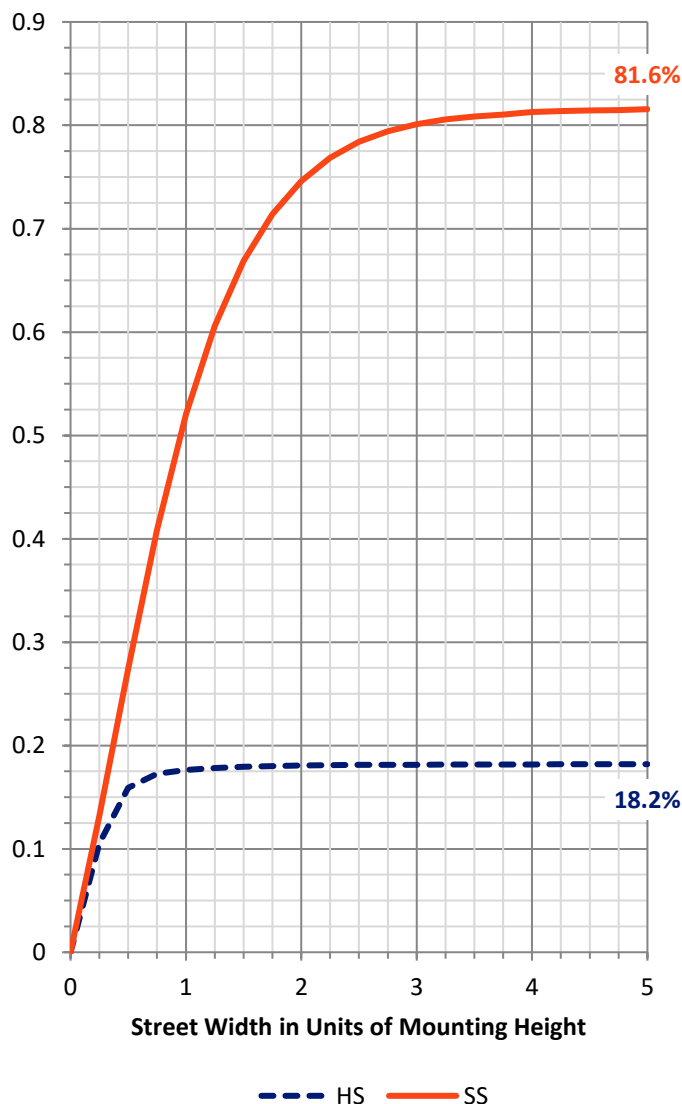
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3016.4	0.0	3016.4
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	13371.6	0.0	13371.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	16388.0	0.0	16388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.4	1.5
10°-20°	767.1	4.7
20°-30°	1307.8	8.0
30°-40°	1994.7	12.2
40°-50°	2812.0	17.2
50°-60°	3398.9	20.7
60°-70°	3579.7	21.8
70°-80°	2129.4	13.0
80°-90°	153.1	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°	16388.0	100.0
0°-180°	16388.0	100.0

**Coefficient of Utilization**



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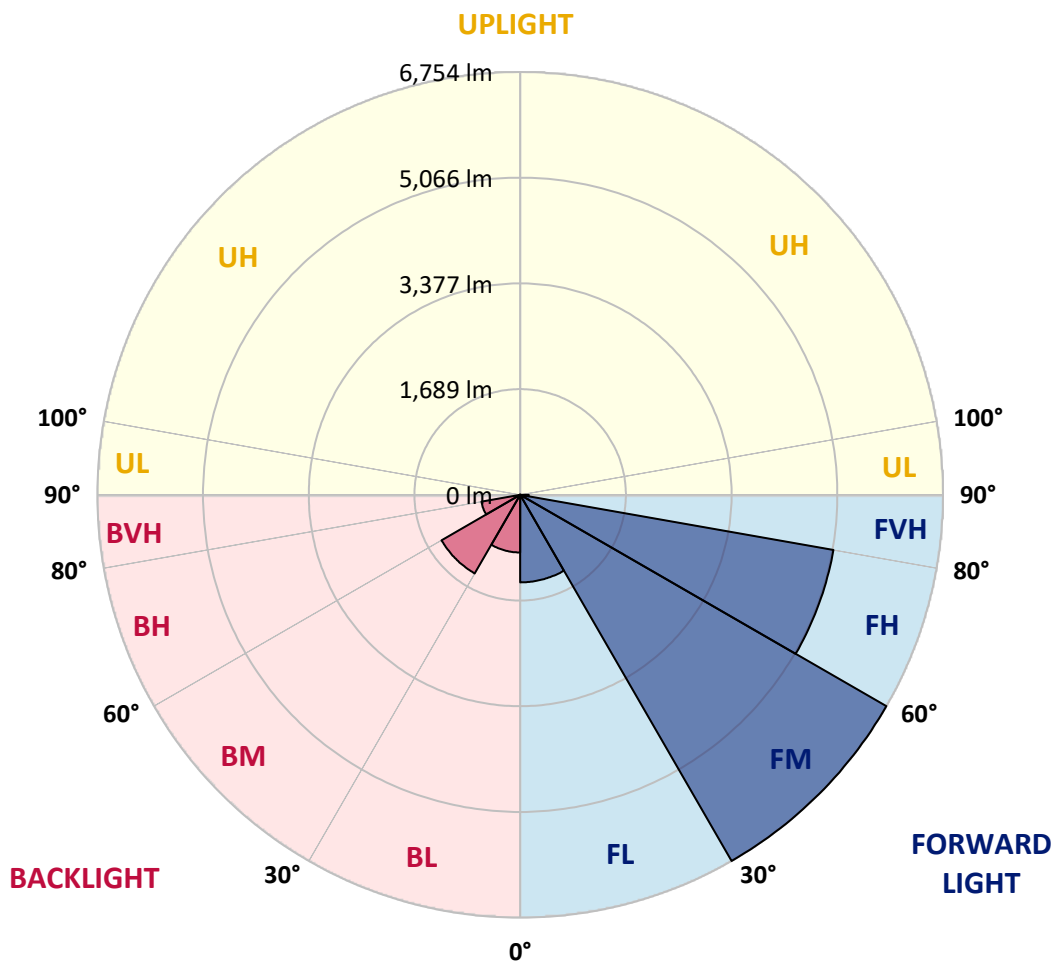
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1399.1	8.5			
FM	(30°-60°)	6754.4	41.2			
FH	(60°-80°)	5081.1	31.0			G3/7500
FVH	(80°-90°)	137.0	0.8			G2/225
BL	(0°-30°)	921.2	5.6	B2/1000		
BM	(30°-60°)	1451.2	8.9	B2/2500		
BH	(60°-80°)	628.0	3.8	B2/1000		G2/1000
BVH	(80°-90°)	16.1	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7
2.5°	2491.2	2500.6	2481.9	2477.2	2452.6	2456.1	2451.4	2439.7	2444.3	2435.0	2440.8
5°	2587.4	2562.8	2555.7	2541.6	2519.4	2506.5	2487.7	2481.9	2494.8	2484.2	2486.5
7.5°	2689.4	2694.1	2662.4	2635.4	2595.6	2586.2	2553.4	2533.4	2546.3	2532.3	2540.5
10°	2817.2	2824.2	2790.2	2753.8	2719.8	2670.6	2629.6	2597.9	2594.4	2587.4	2599.1
12.5°	2984.8	2983.6	2946.1	2901.6	2834.7	2800.7	2722.2	2677.6	2683.5	2657.7	2655.4
15°	3179.4	3163.0	3119.6	3073.9	2990.7	2923.8	2828.9	2773.8	2783.2	2753.8	2746.8
17.5°	3369.3	3352.9	3318.9	3268.5	3192.3	3089.1	2973.1	2893.4	2891.0	2876.9	2834.7
20°	3563.9	3571.0	3525.2	3479.5	3403.3	3265.0	3133.7	3030.5	3032.9	3008.2	2926.2
22.5°	3791.4	3778.5	3723.4	3702.3	3615.5	3464.3	3317.7	3199.3	3175.9	3171.2	3029.3
25°	4008.3	4000.1	3949.6	3925.0	3852.3	3714.0	3524.1	3382.2	3378.7	3363.5	3163.0
27.5°	4180.6	4190.0	4185.3	4167.7	4088.0	3952.0	3785.5	3615.5	3617.9	3595.6	3336.5
30°	4425.6	4397.5	4386.9	4401.0	4394.0	4247.4	4070.4	3947.3	3939.1	3881.6	3555.7
32.5°	4568.6	4582.7	4596.8	4646.0	4647.2	4538.2	4423.3	4364.7	4397.5	4406.9	4100.9
35°	4699.9	4699.9	4780.8	4905.1	4948.5	4911.0	4861.7	4935.6	5000.1	5130.2	4771.5
37.5°	4817.2	4851.2	4927.4	5083.3	5225.2	5261.5	5369.4	5572.2	5650.7	5769.1	5336.5
40°	4915.7	4940.3	5037.6	5228.7	5472.5	5639.0	5840.6	6163.0	6245.1	6222.8	5650.7
42.5°	4806.6	4846.5	5002.4	5395.1	5702.3	6015.3	6279.1	6627.3	6726.9	6520.6	5981.3
45°	4748.0	4763.2	4926.2	5371.7	5871.1	6396.3	6695.3	7068.1	7068.1	6837.1	6214.6
47.5°	4630.8	4657.7	4851.2	5341.2	6050.5	6714.0	7016.5	7396.3	7421.0	7136.1	6446.7
50°	4512.4	4546.4	4765.6	5287.3	6151.3	7032.9	7289.7	7670.7	7680.0	7341.2	6651.9
52.5°	4395.1	4412.7	4657.7	5252.1	6262.7	7197.0	7525.3	7893.4	7898.1	7648.4	6878.2
55°	4185.3	4228.7	4481.9	5123.2	6256.8	7272.1	7648.4	8191.2	8236.9	7982.5	7100.9
57.5°	3988.3	4001.2	4277.9	4936.8	6161.9	7358.8	7913.3	8617.9	8662.5	8286.2	7266.2
60°	3725.7	3739.8	4037.6	4715.2	6021.2	7445.6	8249.8	9116.2	9136.1	8605.0	7390.5
62.5°	3451.4	3499.5	3744.5	4375.2	5729.3	7460.8	8534.7	9575.7	9567.5	8881.7	7472.5
65°	3129.0	3146.6	3382.2	3977.8	5282.6	7344.8	8651.9	9798.5	9818.4	9076.3	7418.6
67.5°	2742.1	2749.2	2910.9	3483.0	4753.9	6945.0	8554.6	9980.2	10030.6	9228.7	7193.5
70°	2166.5	2177.0	2325.9	2869.9	4003.6	6333.0	8390.5	10001.3	9980.2	9091.6	6851.2
72.5°	1510.0	1494.7	1640.1	2012.9	3031.7	5208.7	7598.0	9150.2	9187.7	8411.6	6134.9
75°	723.3	728.0	1016.4	1238.0	1702.2	3721.0	6323.6	7879.3	8036.4	7330.7	4997.7
77.5°	123.1	125.4	268.5	487.7	685.8	1561.6	4193.5	6275.6	6409.2	5753.9	3383.4
80°	98.5	98.5	131.3	262.6	363.4	647.1	1588.5	2782.0	2927.4	2606.1	1247.4
82.5°	66.8	70.3	93.8	153.6	129.0	253.2	576.8	880.4	903.9	819.5	512.3
85°	37.5	38.7	48.1	62.1	53.9	93.8	118.4	120.8	127.8	99.6	76.2
87.5°	4.7	10.6	10.6	10.6	4.7	4.7	3.5	3.5	4.7	3.5	3.5
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°	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7
2.5°	2437.3	2423.2	2453.7	2447.9	2469.0	2465.4	2483.0	2492.4	2512.3	2538.1	2535.8
5°	2488.9	2487.7	2524.1	2541.6	2560.4	2578.0	2579.2	2596.8	2614.3	2653.0	2651.9
7.5°	2538.1	2548.7	2600.3	2601.4	2608.5	2621.4	2603.8	2609.6	2614.3	2628.4	2633.1
10°	2595.6	2615.5	2616.7	2612.0	2589.7	2588.5	2548.7	2553.4	2532.3	2548.7	2540.5
12.5°	2669.4	2653.0	2643.6	2612.0	2578.0	2532.3	2494.8	2443.2	2431.4	2431.4	2435.0
15°	2742.1	2717.5	2636.6	2586.2	2524.1	2451.4	2390.4	2331.8	2302.5	2289.6	2287.3
17.5°	2805.4	2753.8	2639.0	2573.3	2456.1	2349.4	2257.9	2164.2	2118.4	2089.1	2084.4
20°	2857.0	2801.9	2646.0	2531.1	2382.2	2225.1	2086.8	1968.4	1878.1	1811.3	1818.3
22.5°	2943.8	2855.8	2641.3	2480.7	2296.6	2092.6	1884.0	1721.0	1569.8	1532.3	1542.8
25°	3048.1	2933.2	2668.3	2450.2	2197.0	1926.2	1651.8	1463.1	1301.3	1249.7	1253.2
27.5°	3168.9	3027.0	2698.7	2399.8	2093.8	1721.0	1390.4	1157.1	1028.1	926.2	917.9
30°	3361.1	3154.8	2731.6	2367.0	1949.6	1492.4	1105.5	862.8	701.1	646.0	646.0
32.5°	3812.5	3413.9	2784.3	2288.4	1759.7	1236.8	806.6	565.1	422.0	372.8	374.0
35°	4385.8	3936.7	2903.9	2192.3	1535.8	937.9	498.2	314.2	247.4	222.7	220.4
37.5°	4933.2	4417.4	3159.5	2079.7	1253.2	594.4	280.2	193.4	168.8	167.6	168.8
40°	5270.9	4797.2	3416.2	1929.7	915.6	327.1	181.7	158.3	154.7	151.2	151.2
42.5°	5582.7	5058.7	3610.8	1699.9	546.3	198.1	159.4	144.2	141.9	136.0	136.0
45°	5835.9	5246.3	3626.1	1393.9	289.6	175.9	146.5	131.3	126.6	123.1	121.9
47.5°	6076.3	5429.1	3571.0	1068.0	206.3	163.0	137.2	120.8	114.9	117.2	116.1
50°	6238.1	5612.0	3420.9	839.4	197.0	151.2	126.6	110.2	107.9	112.5	111.4
52.5°	6412.7	5762.1	3129.0	653.0	182.9	139.5	116.1	103.2	98.5	102.0	103.2
55°	6551.1	5759.7	2914.5	510.0	173.5	130.1	109.0	97.3	89.1	89.1	87.9
57.5°	6619.1	5704.6	2742.1	400.9	163.0	120.8	102.0	85.6	76.2	73.9	72.7
60°	6615.6	5650.7	2541.6	329.4	152.4	110.2	91.4	72.7	63.3	58.6	58.6
62.5°	6578.0	5524.1	2223.9	283.7	141.9	102.0	76.2	59.8	52.8	48.1	49.2
65°	6481.9	5280.3	1833.6	241.5	131.3	98.5	64.5	52.8	45.7	41.0	41.0
67.5°	6149.0	4871.1	1430.3	202.8	120.8	82.1	56.3	44.5	38.7	34.0	34.0
70°	5677.7	4247.4	941.4	171.2	107.9	71.5	50.4	38.7	32.8	28.1	27.0
72.5°	4839.5	3393.9	478.3	146.5	92.6	63.3	44.5	34.0	28.1	23.4	22.3
75°	3711.7	2286.1	297.8	117.2	72.7	56.3	39.9	30.5	23.4	17.6	16.4
77.5°	2213.4	920.3	211.0	82.1	49.2	44.5	32.8	24.6	18.8	12.9	12.9
80°	698.7	406.8	143.0	56.3	31.7	30.5	24.6	17.6	12.9	9.4	9.4
82.5°	395.1	257.9	96.1	37.5	22.3	19.9	14.1	10.6	8.2	7.0	7.0
85°	65.7	51.6	29.3	14.1	10.6	9.4	5.9	3.5	2.3	1.2	2.3
87.5°	3.5	3.5	4.7	4.7	4.7	3.5	2.3	0.0	0.0	0.0	0.0
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)