

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: P509574

Luminaire Tested: **VERD-G-CA2-120-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509574  
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-CA2-120-760-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

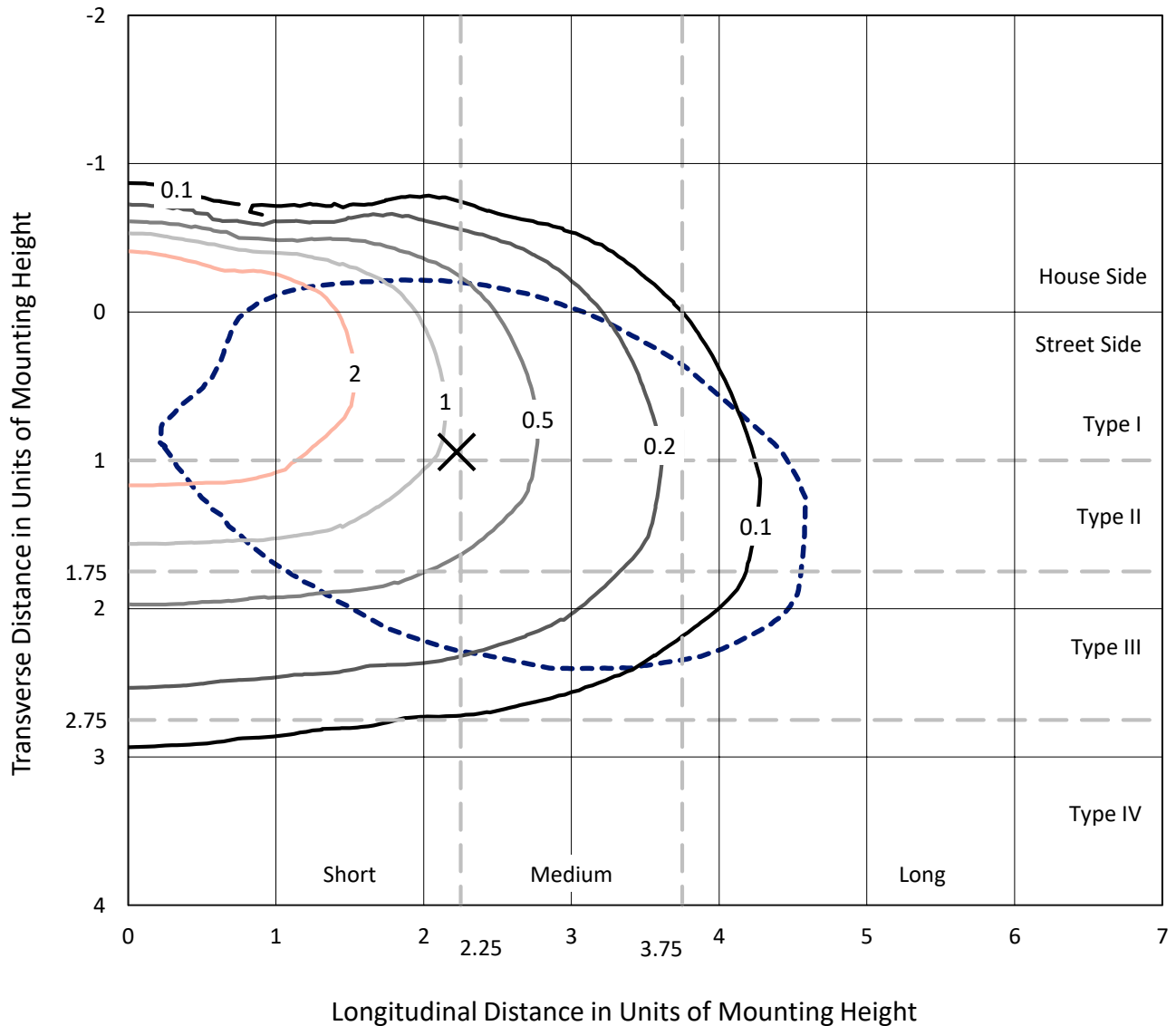
Lumens per Lamp: N/A  
Luminaire Lumens: 16335 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): 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

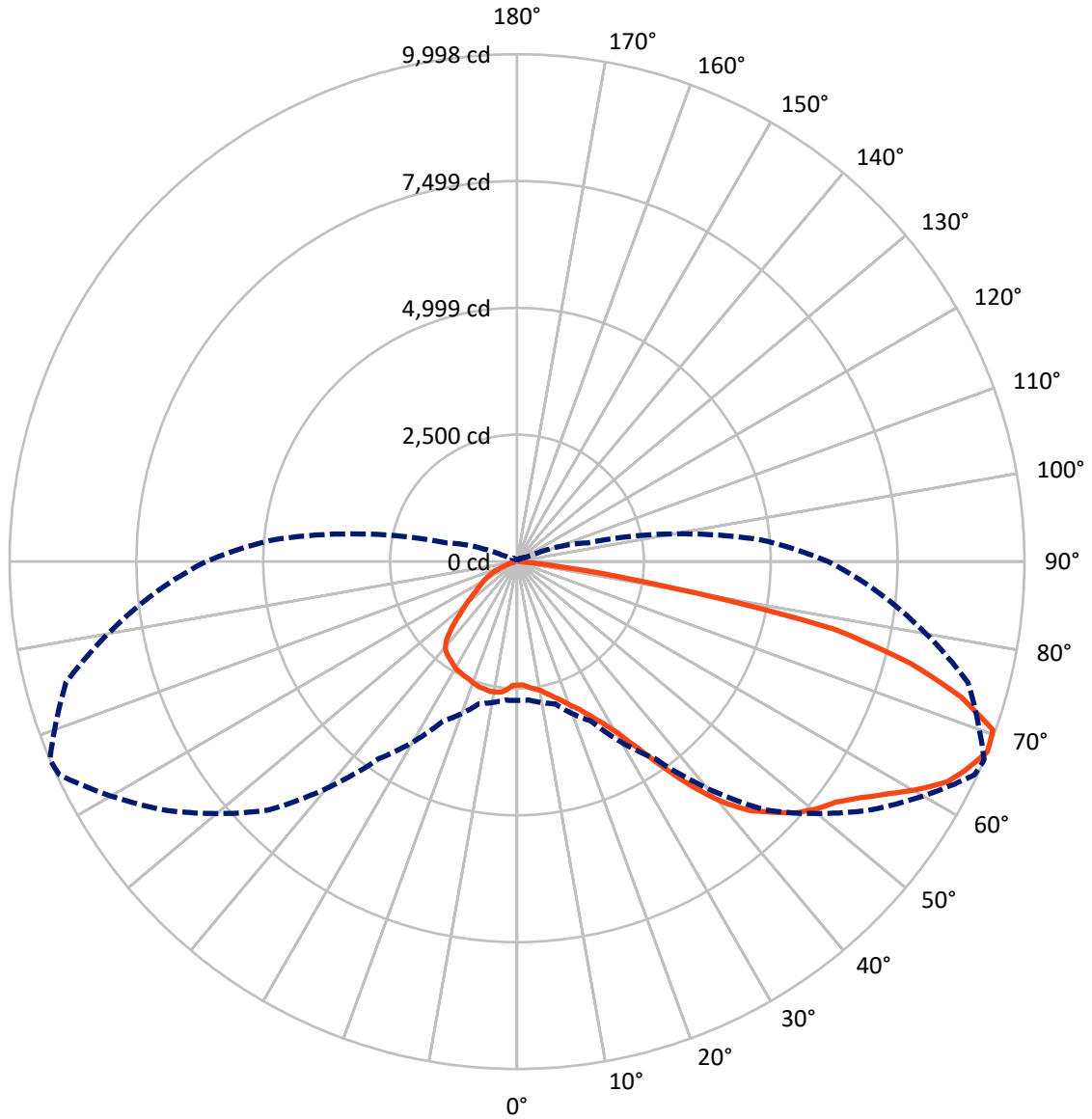
✕ Max cd  
 - - - 1/2 Max cd



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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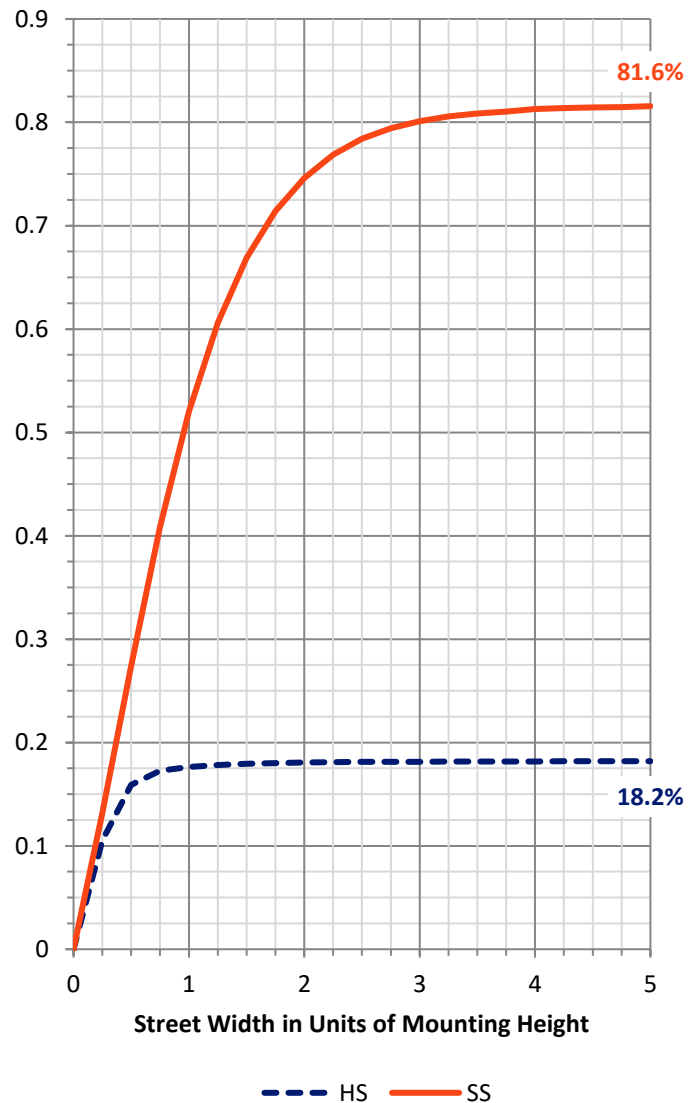
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3006.6	0.0	3006.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	13328.4	0.0	13328.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	16335.0	0.0	16335.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.6	1.5
10°-20°	764.6	4.7
20°-30°	1303.6	8.0
30°-40°	1988.3	12.2
40°-50°	2802.9	17.2
50°-60°	3387.9	20.7
60°-70°	3568.1	21.8
70°-80°	2122.5	13.0
80°-90°	152.6	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°	16335.0	100.0
0°-180°	16335.0	100.0



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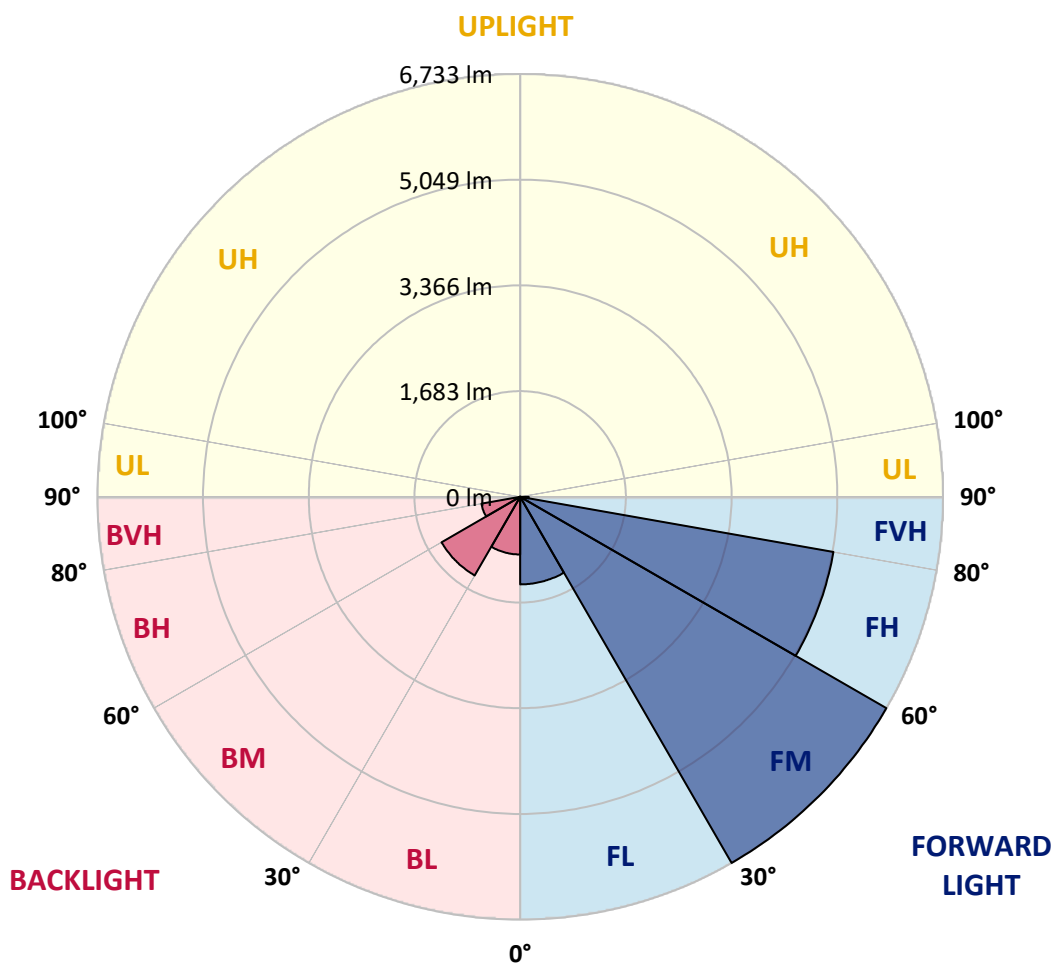
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1394.6	8.5			
FM	(30°-60°)	6732.5	41.2			
FH	(60°-80°)	5064.7	31.0			G3/7500
FVH	(80°-90°)	136.6	0.8			G2/225
BL	(0°-30°)	918.2	5.6	B2/1000		
BM	(30°-60°)	1446.5	8.9	B2/2500		
BH	(60°-80°)	625.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	16.0	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°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2483.2	2492.5	2473.8	2469.2	2444.6	2448.1	2443.5	2431.8	2436.4	2427.1	2432.9
5°	2579.0	2554.5	2547.5	2533.4	2511.2	2498.4	2479.7	2473.8	2486.7	2476.2	2478.5
7.5°	2680.7	2685.3	2653.8	2626.9	2587.2	2577.8	2545.1	2525.3	2538.1	2524.1	2532.3
10°	2808.0	2815.1	2781.2	2744.9	2711.1	2662.0	2621.1	2589.5	2586.0	2579.0	2590.7
12.5°	2975.1	2974.0	2936.6	2892.2	2825.6	2791.7	2713.4	2669.0	2674.8	2649.1	2646.8
15°	3169.1	3152.8	3109.5	3064.0	2981.0	2914.4	2819.7	2764.8	2774.2	2744.9	2737.9
17.5°	3358.4	3342.1	3308.2	3257.9	3182.0	3079.1	2963.5	2884.0	2881.7	2867.6	2825.6
20°	3552.4	3559.4	3513.8	3468.3	3392.3	3254.4	3123.6	3020.7	3023.1	2998.5	2916.7
22.5°	3779.1	3766.3	3711.3	3690.3	3603.8	3453.1	3307.0	3189.0	3165.6	3160.9	3019.5
25°	3995.3	3987.1	3936.9	3912.3	3839.9	3702.0	3512.7	3371.3	3367.8	3352.6	3152.8
27.5°	4167.1	4176.4	4171.7	4154.2	4074.8	3939.2	3773.3	3603.8	3606.2	3584.0	3325.7
30°	4411.3	4383.3	4372.7	4386.8	4379.7	4233.7	4057.2	3934.5	3926.3	3869.1	3544.2
32.5°	4553.9	4567.9	4581.9	4631.0	4632.2	4523.5	4409.0	4350.5	4383.3	4392.6	4087.6
35°	4684.7	4684.7	4765.4	4889.2	4932.5	4895.1	4846.0	4919.6	4983.9	5113.6	4756.0
37.5°	4801.6	4835.5	4911.4	5066.9	5208.3	5244.5	5352.0	5554.1	5632.4	5750.5	5319.3
40°	4899.8	4924.3	5021.3	5211.8	5454.8	5620.8	5821.7	6143.1	6224.9	6202.7	5632.4
42.5°	4791.1	4830.8	4986.2	5377.7	5683.9	5995.9	6258.8	6605.8	6705.2	6499.5	5962.0
45°	4732.7	4747.8	4910.3	5354.3	5852.1	6375.6	6673.6	7045.2	7045.2	6815.0	6194.5
47.5°	4615.8	4642.7	4835.5	5323.9	6030.9	6692.3	6993.8	7372.4	7397.0	7113.0	6425.9
50°	4497.8	4531.7	4750.2	5270.2	6131.4	7010.2	7266.1	7645.9	7655.2	7317.5	6630.4
52.5°	4380.9	4398.4	4642.7	5235.1	6242.4	7173.8	7501.0	7867.9	7872.6	7623.7	6855.9
55°	4171.7	4215.0	4467.4	5106.6	6236.6	7248.6	7623.7	8164.7	8210.3	7956.7	7077.9
57.5°	3975.4	3988.3	4264.1	4920.8	6141.9	7335.0	7887.8	8590.1	8634.5	8259.4	7242.7
60°	3713.7	3727.7	4024.5	4699.9	6001.7	7421.5	8223.1	9086.7	9106.6	8577.2	7366.6
62.5°	3440.2	3488.1	3732.4	4361.1	5710.7	7436.7	8507.1	9544.8	9536.6	8853.0	7448.4
65°	3118.9	3136.4	3371.3	3964.9	5265.5	7321.0	8623.9	9766.8	9786.7	9047.0	7394.6
67.5°	2733.3	2740.3	2901.5	3471.8	4738.5	6922.5	8527.0	9947.9	9998.2	9198.9	7170.3
70°	2159.5	2170.0	2318.4	2860.6	3990.6	6312.5	8363.4	9969.0	9947.9	9062.2	6829.0
72.5°	1505.1	1489.9	1634.8	2006.4	3021.9	5191.9	7573.4	9120.6	9158.0	8384.4	6115.1
75°	721.0	725.7	1013.1	1234.0	1696.7	3709.0	6303.2	7853.9	8010.5	7307.0	4981.6
77.5°	122.7	125.0	267.6	486.1	683.6	1556.5	4179.9	6255.3	6388.5	5735.3	3372.5
80°	98.2	98.2	130.9	261.8	362.3	645.0	1583.4	2773.0	2917.9	2597.7	1243.3
82.5°	66.6	70.1	93.5	153.1	128.5	252.4	574.9	877.6	901.0	816.8	510.7
85°	37.4	38.6	47.9	61.9	53.8	93.5	118.0	120.4	127.4	99.3	76.0
87.5°	4.7	10.5	10.5	10.5	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°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2429.4	2415.4	2445.8	2439.9	2461.0	2457.5	2475.0	2484.4	2504.2	2529.9	2527.6
5°	2480.8	2479.7	2515.9	2533.4	2552.1	2569.7	2570.8	2588.4	2605.9	2644.4	2643.3
7.5°	2529.9	2540.4	2591.9	2593.0	2600.0	2612.9	2595.4	2601.2	2605.9	2619.9	2624.6
10°	2587.2	2607.0	2608.2	2603.5	2581.3	2580.2	2540.4	2545.1	2524.1	2540.4	2532.3
12.5°	2660.8	2644.4	2635.1	2603.5	2569.7	2524.1	2486.7	2435.3	2423.6	2423.6	2427.1
15°	2733.3	2708.7	2628.1	2577.8	2515.9	2443.5	2382.7	2324.3	2295.0	2282.2	2279.9
17.5°	2796.4	2744.9	2630.4	2565.0	2448.1	2341.8	2250.6	2157.2	2111.6	2082.4	2077.7
20°	2847.8	2792.8	2637.4	2522.9	2374.5	2217.9	2080.0	1962.0	1872.0	1805.4	1812.4
22.5°	2934.2	2846.6	2632.8	2472.7	2289.2	2085.9	1877.9	1715.4	1564.7	1527.3	1537.8
25°	3038.2	2923.7	2659.6	2442.3	2189.9	1919.9	1646.5	1458.4	1297.1	1245.7	1249.2
27.5°	3158.6	3017.2	2690.0	2392.0	2087.0	1715.4	1385.9	1153.4	1024.8	923.2	915.0
30°	3350.3	3144.6	2722.7	2359.3	1943.3	1487.6	1101.9	860.1	698.8	643.9	643.9
32.5°	3800.1	3402.8	2775.3	2281.0	1754.0	1232.8	804.0	563.2	420.7	371.6	372.8
35°	4371.6	3924.0	2894.5	2185.2	1530.8	934.8	496.6	313.2	246.6	222.0	219.7
37.5°	4917.3	4403.1	3149.3	2073.0	1249.2	592.5	279.3	192.8	168.3	167.1	168.3
40°	5253.8	4781.7	3405.2	1923.4	912.6	326.0	181.1	157.8	154.2	150.7	150.7
42.5°	5564.7	5042.3	3599.2	1694.4	544.5	197.5	158.9	143.7	141.4	135.6	135.6
45°	5817.1	5229.3	3614.3	1389.4	288.6	175.3	146.1	130.9	126.2	122.7	121.5
47.5°	6056.6	5411.6	3559.4	1064.6	205.7	162.4	136.7	120.4	114.5	116.9	115.7
50°	6217.9	5593.9	3409.8	836.7	196.3	150.7	126.2	109.8	107.5	112.2	111.0
52.5°	6392.0	5743.5	3118.9	650.9	182.3	139.1	115.7	102.8	98.2	101.7	102.8
55°	6529.9	5741.1	2905.0	508.3	172.9	129.7	108.7	97.0	88.8	88.8	87.6
57.5°	6597.7	5686.2	2733.3	399.6	162.4	120.4	101.7	85.3	76.0	73.6	72.5
60°	6594.2	5632.4	2533.4	328.4	151.9	109.8	91.1	72.5	63.1	58.4	58.4
62.5°	6556.8	5506.2	2216.8	282.8	141.4	101.7	76.0	59.6	52.6	47.9	49.1
65°	6460.9	5263.2	1827.6	240.7	130.9	98.2	64.3	52.6	45.6	40.9	40.9
67.5°	6129.1	4855.4	1425.6	202.2	120.4	81.8	56.1	44.4	38.6	33.9	33.9
70°	5659.3	4233.7	938.4	170.6	107.5	71.3	50.2	38.6	32.7	28.0	26.9
72.5°	4823.8	3383.0	476.8	146.1	92.3	63.1	44.4	33.9	28.0	23.4	22.2
75°	3699.6	2278.7	296.8	116.9	72.5	56.1	39.7	30.4	23.4	17.5	16.4
77.5°	2206.2	917.3	210.3	81.8	49.1	44.4	32.7	24.5	18.7	12.9	12.9
80°	696.5	405.5	142.6	56.1	31.6	30.4	24.5	17.5	12.9	9.3	9.3
82.5°	393.8	257.1	95.8	37.4	22.2	19.9	14.0	10.5	8.2	7.0	7.0
85°	65.4	51.4	29.2	14.0	10.5	9.3	5.8	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)