

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: P509830

Luminaire Tested: **VERD-M-CA3-150-727-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-727-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 940mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17502 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

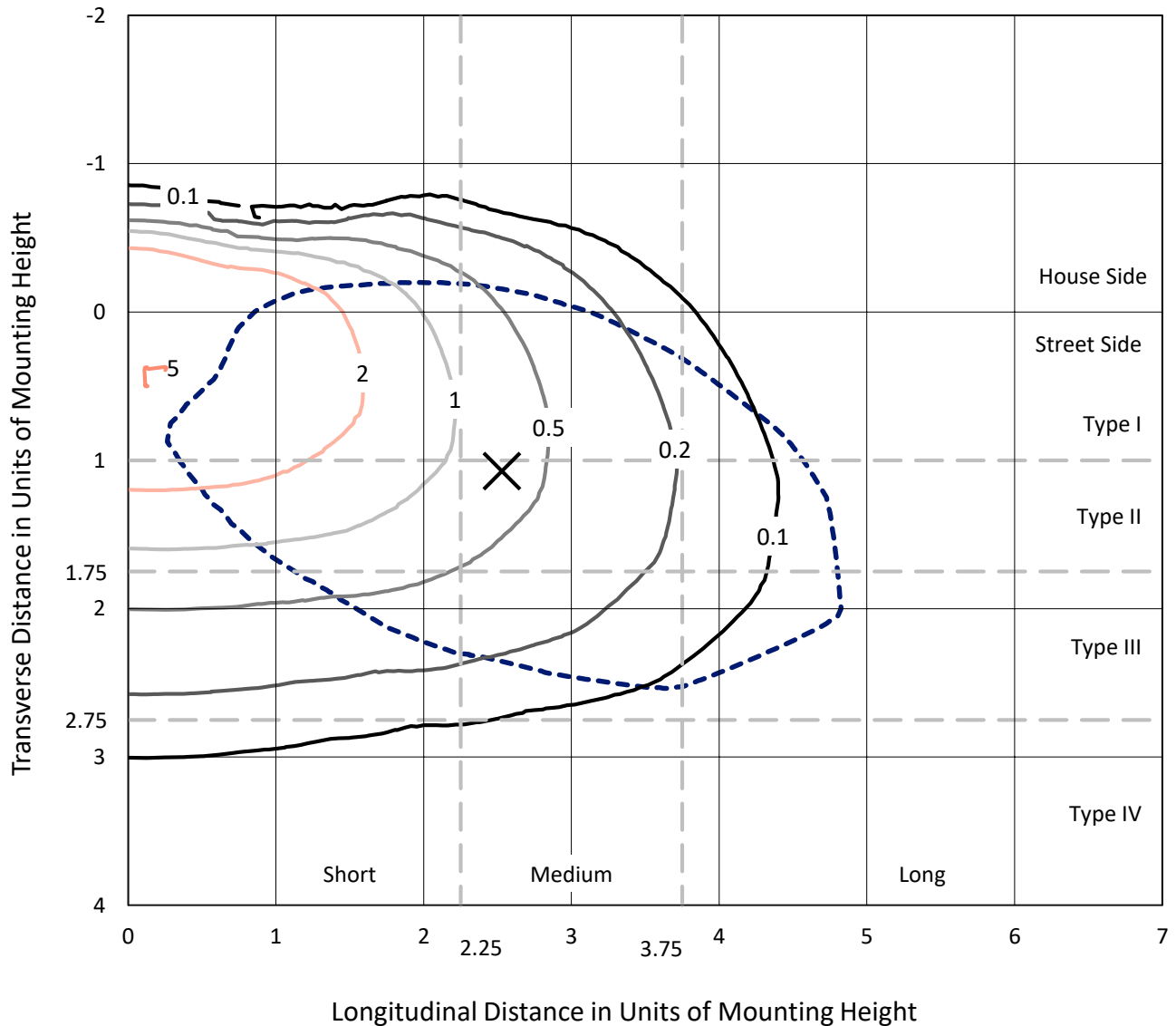
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

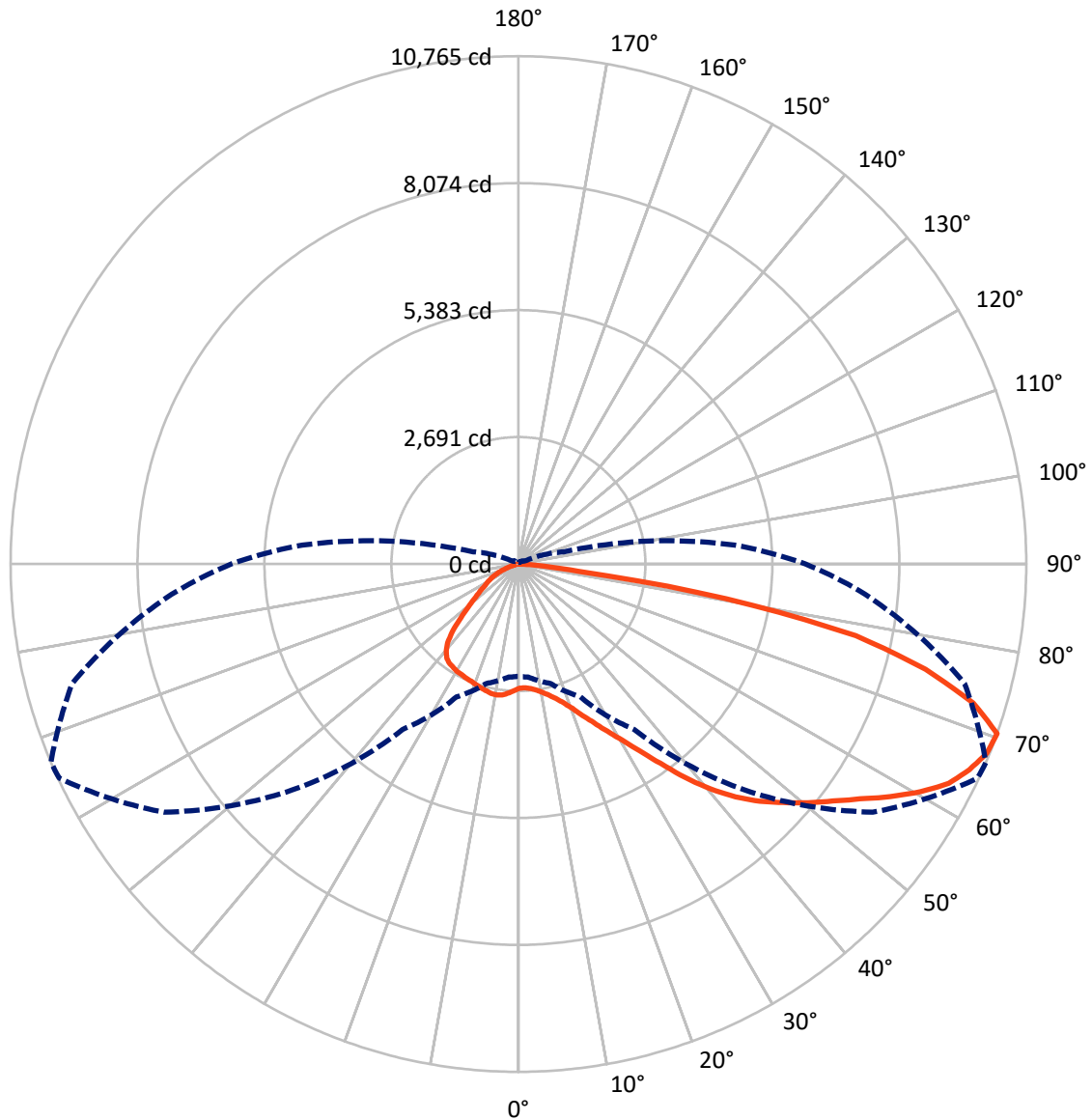
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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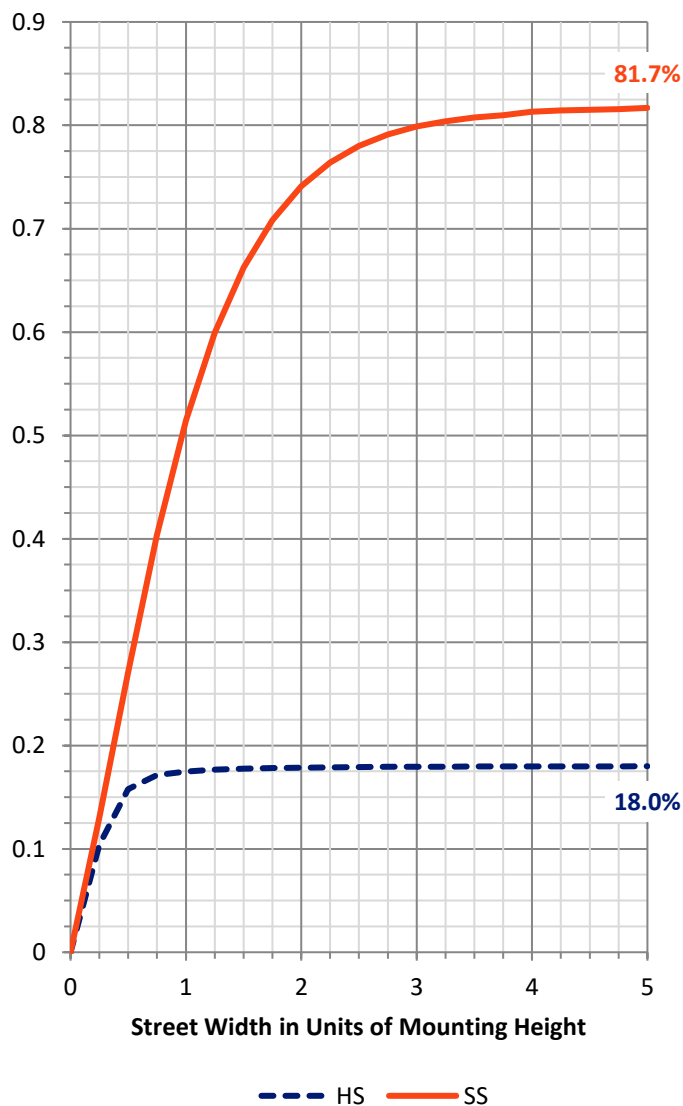
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3189.0	0.0	3189.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	14313.0	0.0	14313.0
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	17502.0	0.0	17502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.3	1.5
10°-20°	818.3	4.7
20°-30°	1419.8	8.1
30°-40°	2108.7	12.0
40°-50°	2893.0	16.5
50°-60°	3552.8	20.3
60°-70°	3809.0	21.8
70°-80°	2418.0	13.8
80°-90°	220.0	1.3
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°	17502.0	100.0
0°-180°	17502.0	100.0

**Coefficient of Utilization**



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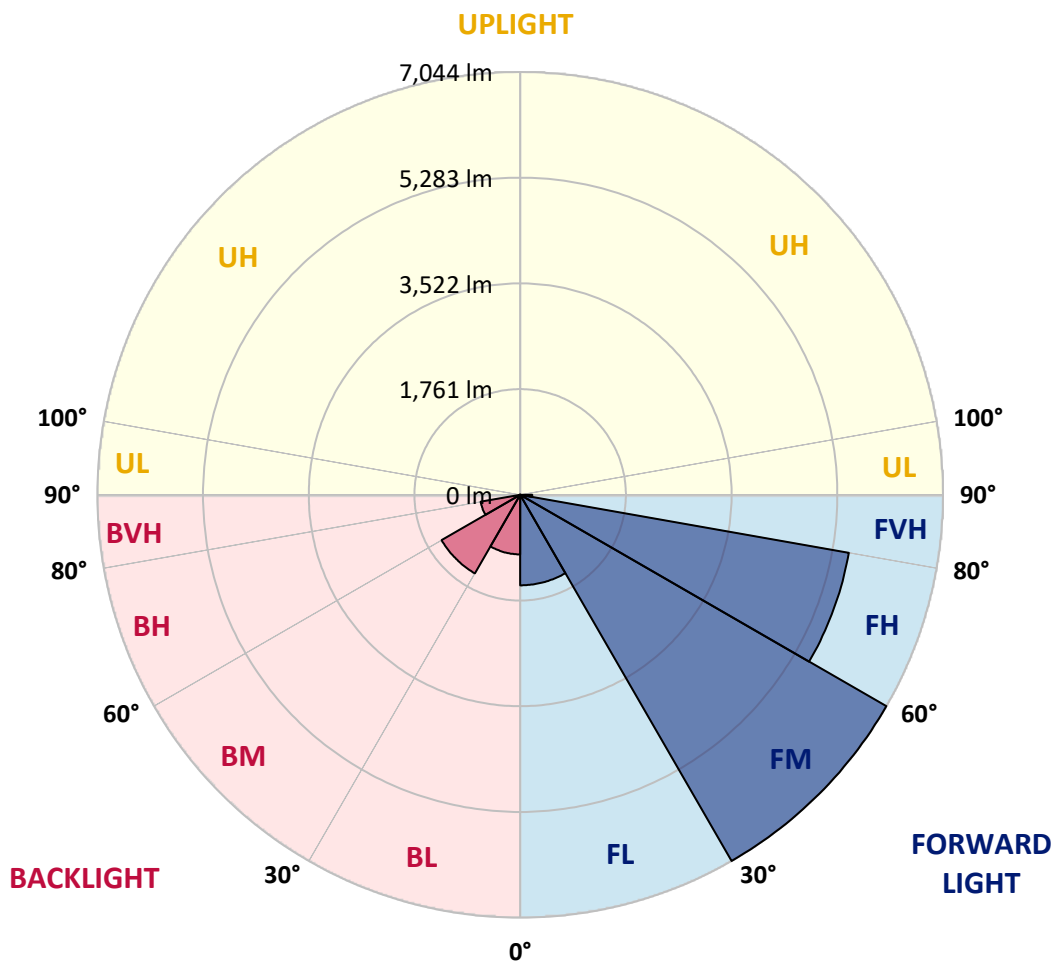
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.9	8.6			
FM (30°-60°)	7044.4	40.2			
FH (60°-80°)	5560.0	31.8			G3/7500
FVH (80°-90°)	200.7	1.1			G2/225
BL (0°-30°)	992.5	5.7	B2/1000		
BM (30°-60°)	1510.2	8.6	B2/2500		
BH (60°-80°)	667.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	19.3	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7
2.5°	2609.0	2633.5	2619.1	2617.5	2634.4	2618.3	2629.3	2626.8	2625.1	2627.6	2645.4
5°	2677.6	2706.4	2686.9	2681.0	2690.3	2661.5	2658.9	2653.0	2651.3	2652.2	2677.6
7.5°	2773.3	2807.1	2799.5	2784.3	2779.2	2731.8	2723.3	2702.1	2695.4	2697.1	2722.5
10°	2924.0	2957.9	2942.6	2908.8	2887.6	2833.4	2802.9	2775.8	2762.3	2763.9	2791.0
12.5°	3117.1	3149.2	3123.8	3062.0	3050.2	2962.9	2915.5	2857.9	2848.6	2835.1	2863.9
15°	3299.1	3327.1	3315.2	3257.6	3225.5	3122.1	3034.9	2963.8	2955.3	2942.6	2941.8
17.5°	3500.7	3528.6	3506.6	3464.2	3421.9	3299.1	3205.1	3113.7	3091.7	3080.7	3040.9
20°	3715.7	3759.8	3755.5	3720.8	3670.0	3526.1	3393.1	3289.8	3266.1	3245.8	3161.9
22.5°	3937.6	3995.2	3982.5	3963.9	3942.7	3781.0	3626.0	3506.6	3488.8	3445.6	3313.5
25°	4183.2	4223.0	4213.7	4223.0	4208.6	4065.5	3896.1	3750.5	3726.8	3686.1	3483.7
27.5°	4421.1	4462.6	4478.7	4459.2	4468.6	4366.1	4165.4	4035.0	4012.1	3937.6	3688.7
30°	4636.2	4687.9	4710.7	4719.2	4750.5	4644.7	4496.5	4338.1	4330.5	4254.3	3958.8
32.5°	4808.1	4865.7	4921.6	4958.0	5008.0	4961.4	4814.0	4718.4	4719.2	4650.6	4364.4
35°	4932.6	4998.6	5079.9	5176.5	5281.5	5262.0	5174.8	5176.5	5190.0	5212.9	4881.8
37.5°	5070.6	5124.0	5219.7	5354.3	5514.3	5555.0	5543.1	5677.8	5743.8	5784.5	5336.5
40°	5152.8	5207.0	5326.4	5507.6	5740.4	5837.8	5947.1	6183.3	6269.7	6227.4	5725.2
42.5°	5062.2	5110.4	5317.9	5631.2	5925.9	6146.9	6342.5	6688.0	6750.7	6612.6	6052.9
45°	4944.5	5007.1	5225.6	5665.1	6090.2	6450.1	6754.1	7127.5	7174.1	6978.5	6342.5
47.5°	4847.9	4903.0	5157.8	5628.7	6241.7	6760.8	7115.6	7542.4	7554.3	7312.9	6642.3
50°	4724.3	4791.2	5057.1	5583.8	6333.2	7036.0	7446.7	7929.4	7955.7	7659.3	6896.3
52.5°	4594.7	4659.9	4935.1	5510.1	6399.3	7264.7	7790.5	8341.0	8343.5	8025.9	7167.3
55°	4403.3	4472.8	4777.6	5403.4	6419.6	7416.3	8136.0	8761.0	8787.2	8397.7	7412.9
57.5°	4201.0	4260.2	4588.0	5237.4	6344.2	7559.4	8490.8	9227.6	9299.5	8816.9	7623.7
60°	3932.5	3991.8	4338.1	5019.8	6184.2	7720.3	8897.3	9789.8	9797.5	9156.4	7777.0
62.5°	3643.8	3695.4	4013.8	4678.6	5936.1	7782.1	9246.2	10239.5	10238.6	9458.7	7853.2
65°	3300.8	3322.0	3646.3	4259.4	5550.8	7691.5	9400.3	10535.9	10507.1	9676.4	7827.8
67.5°	2894.4	2917.2	3162.8	3738.6	4991.9	7337.5	9331.7	10679.0	10707.8	9870.3	7717.7
70°	2379.5	2406.6	2620.8	3106.9	4279.7	6772.7	9170.8	10740.8	10765.3	9792.4	7378.1
72.5°	1756.3	1792.7	1923.9	2312.6	3248.3	5690.5	8425.6	10064.2	10077.7	9142.0	6671.1
75°	1090.7	1157.6	1281.2	1536.9	2107.7	3991.0	7202.0	8997.2	8912.5	8154.7	5520.3
77.5°	436.1	447.1	508.9	719.8	1028.0	2078.0	5220.5	7152.1	7313.8	6524.6	3948.6
80°	254.0	252.3	266.7	335.3	441.2	710.5	2030.6	4012.1	4471.9	3583.6	1776.6
82.5°	204.9	197.3	197.3	215.1	211.7	298.9	665.6	1172.0	1285.4	1140.6	505.5
85°	107.5	105.0	85.5	105.8	105.8	149.0	255.7	331.9	350.6	305.7	189.7
87.5°	27.1	27.1	27.1	33.0	26.3	31.3	43.2	52.5	54.2	44.0	27.9
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°	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7	2632.7
2.5°	2652.2	2659.8	2689.4	2685.2	2690.3	2690.3	2698.7	2708.1	2736.0	2719.9	2713.1
5°	2682.7	2697.9	2735.2	2748.7	2769.0	2771.6	2788.5	2794.4	2824.9	2808.0	2808.0
7.5°	2741.1	2758.9	2793.6	2798.7	2808.0	2791.9	2796.1	2777.5	2797.8	2777.5	2778.3
10°	2807.1	2819.0	2842.7	2808.8	2794.4	2756.3	2747.9	2702.1	2718.2	2692.0	2685.2
12.5°	2870.6	2866.4	2848.6	2788.5	2748.7	2686.0	2659.8	2598.0	2594.6	2559.9	2553.1
15°	2930.8	2901.1	2843.5	2750.4	2682.7	2595.4	2532.8	2465.0	2441.3	2401.5	2398.1
17.5°	3004.4	2953.6	2851.2	2714.0	2603.1	2476.0	2387.1	2310.9	2261.8	2225.4	2224.5
20°	3094.2	3016.3	2854.6	2672.5	2520.9	2358.3	2233.9	2137.3	2067.0	2021.3	2020.5
22.5°	3206.8	3101.0	2885.9	2625.1	2415.9	2216.1	2061.1	1894.3	1797.8	1704.6	1687.7
25°	3338.9	3186.5	2913.0	2600.5	2312.6	2067.9	1837.6	1593.7	1443.8	1369.3	1341.3
27.5°	3524.4	3328.8	2952.8	2553.9	2215.2	1885.0	1549.6	1283.7	1103.4	1039.9	1039.9
30°	3738.6	3508.3	3027.3	2526.0	2079.7	1628.4	1233.8	948.4	780.7	685.1	682.5
32.5°	4065.5	3722.5	3095.0	2465.9	1915.5	1348.9	892.5	611.4	476.7	417.5	414.1
35°	4535.4	4130.7	3204.3	2405.8	1677.5	1004.3	566.5	350.6	271.8	238.0	236.3
37.5°	4987.6	4519.4	3439.7	2286.4	1339.6	630.9	314.2	202.4	166.0	161.7	160.0
40°	5306.0	4854.7	3605.7	2104.3	951.8	334.5	182.1	146.5	144.0	142.3	141.4
42.5°	5653.2	5103.7	3723.4	1872.3	564.8	193.9	148.2	132.1	127.9	126.2	126.2
45°	5935.2	5343.3	3745.4	1540.3	284.5	160.0	135.5	120.2	115.2	118.6	119.4
47.5°	6195.2	5569.4	3670.9	1158.4	192.2	149.0	127.0	111.8	108.4	116.9	116.9
50°	6417.0	5760.8	3499.8	864.6	180.4	140.6	118.6	103.3	102.5	110.1	110.9
52.5°	6638.0	5914.9	3230.5	652.9	171.1	131.3	110.1	95.7	93.1	98.2	99.1
55°	6813.3	5969.9	3030.7	486.1	164.3	122.8	102.5	88.1	82.1	81.3	83.0
57.5°	6909.9	5921.7	2835.1	357.3	156.7	115.2	94.8	77.9	68.6	68.6	68.6
60°	6911.6	5863.2	2625.9	282.8	148.2	106.7	86.4	66.9	57.6	55.9	55.9
62.5°	6892.9	5759.1	2321.9	245.6	138.9	99.9	75.4	56.7	50.0	47.4	47.4
65°	6810.8	5562.6	1953.6	210.0	127.9	94.8	64.4	50.8	44.9	41.5	41.5
67.5°	6555.1	5194.3	1503.9	182.9	117.7	83.8	58.4	45.7	39.8	36.4	35.6
70°	6085.9	4599.0	992.4	155.8	107.5	74.5	53.3	41.5	35.6	32.2	31.3
72.5°	5299.3	3742.8	498.8	132.1	92.3	68.6	48.3	36.4	30.5	27.1	27.1
75°	4152.7	2598.0	271.8	105.0	72.8	60.1	42.3	30.5	26.3	23.7	23.7
77.5°	2546.3	1288.0	185.4	81.3	55.0	49.1	33.9	25.4	22.9	22.0	22.0
80°	928.9	421.7	124.5	57.6	41.5	38.1	27.1	22.0	21.2	21.2	21.2
82.5°	335.3	214.2	83.8	39.0	26.3	28.8	22.0	18.6	17.8	18.6	19.5
85°	138.0	94.0	30.5	22.0	14.4	15.2	13.5	12.7	13.5	14.4	14.4
87.5°	21.2	18.6	11.0	11.0	8.5	7.6	5.9	6.8	8.5	10.2	10.2
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)