

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: P509831

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

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
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  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 940mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18780 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

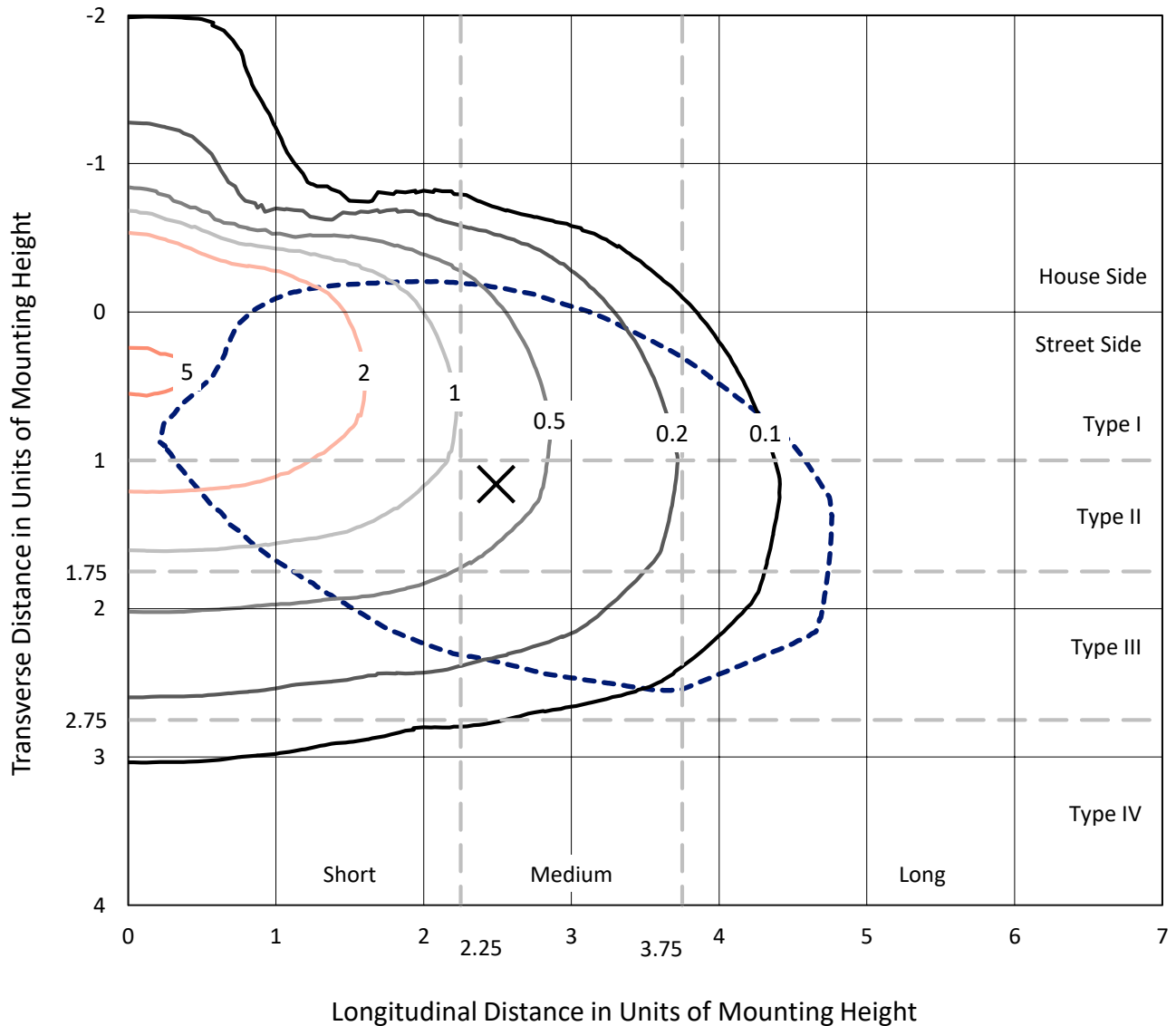
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

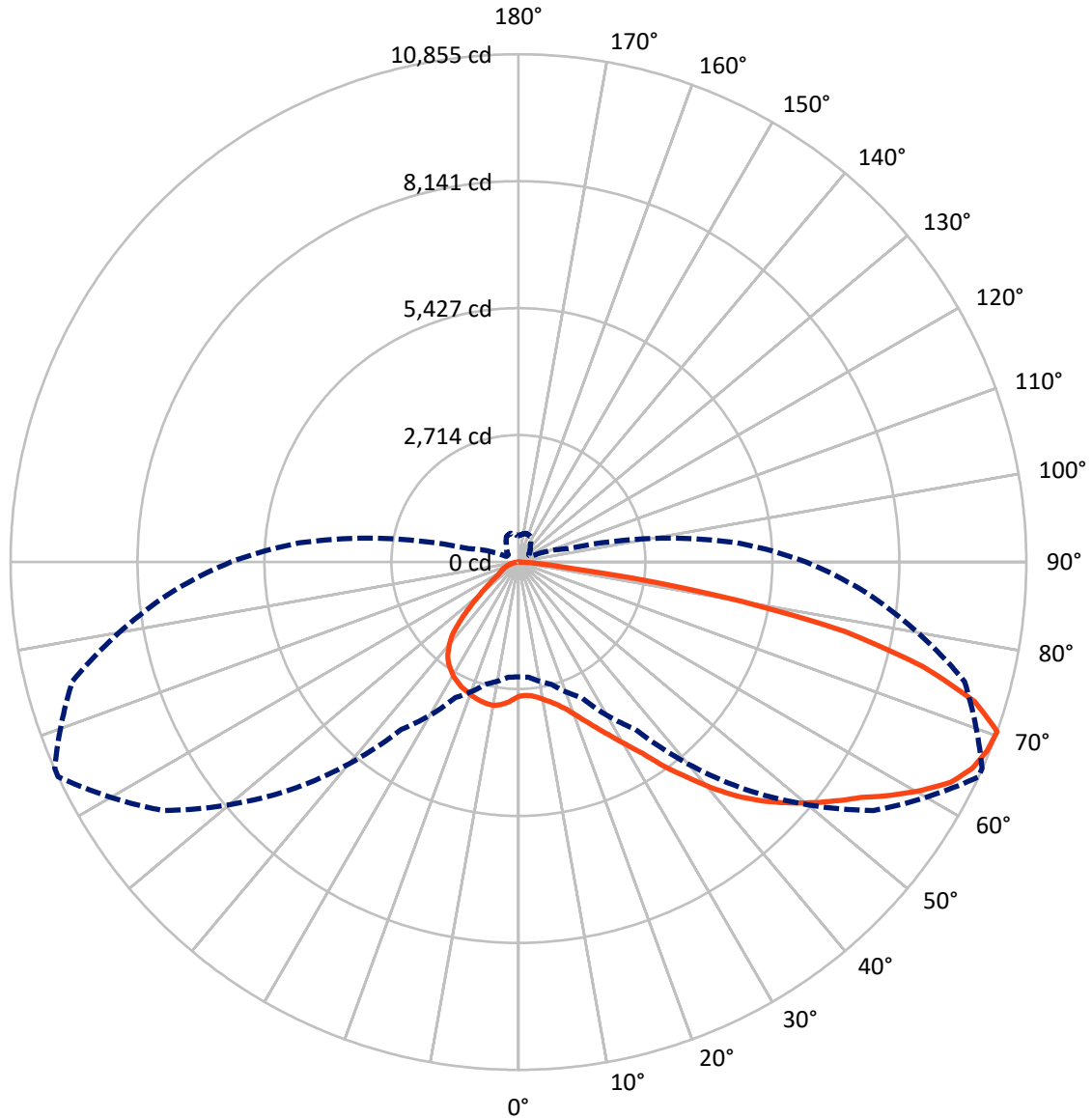
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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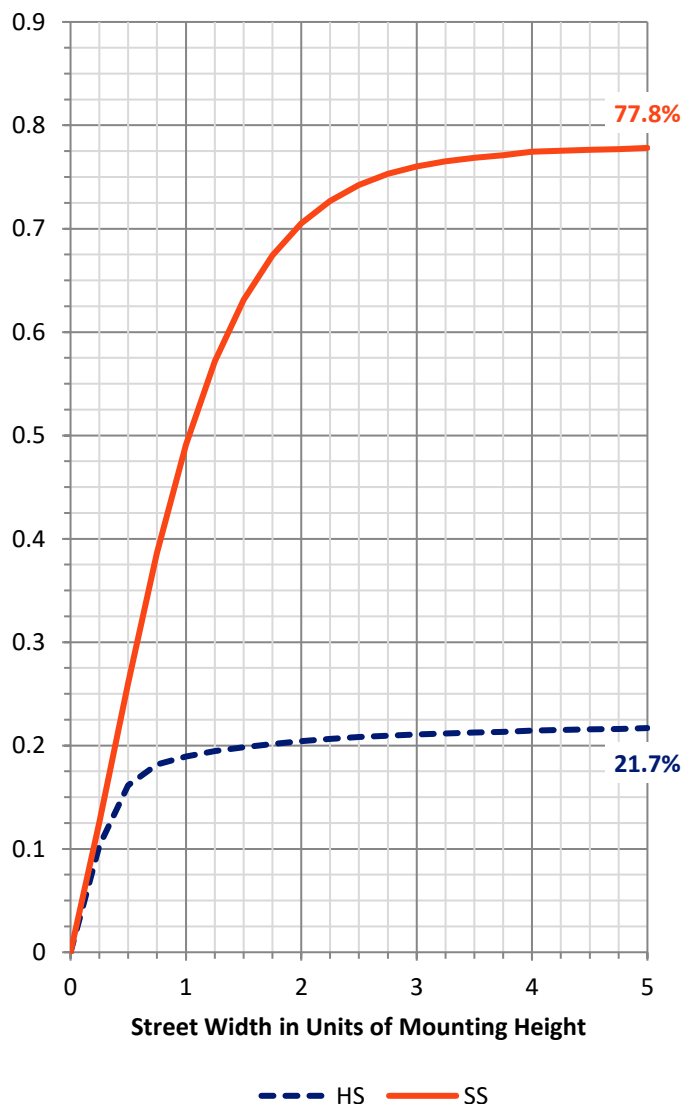
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4142.7	0.0	4142.7
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	14637.3	0.0	14637.3
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	18780.0	0.0	18780.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.6	1.5
10°-20°	909.0	4.8
20°-30°	1577.0	8.4
30°-40°	2293.0	12.2
40°-50°	3063.4	16.3
50°-60°	3731.5	19.9
60°-70°	4022.7	21.4
70°-80°	2608.0	13.9
80°-90°	287.6	1.5
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°	18780.0	100.0
0°-180°	18780.0	100.0

**Coefficient of Utilization**



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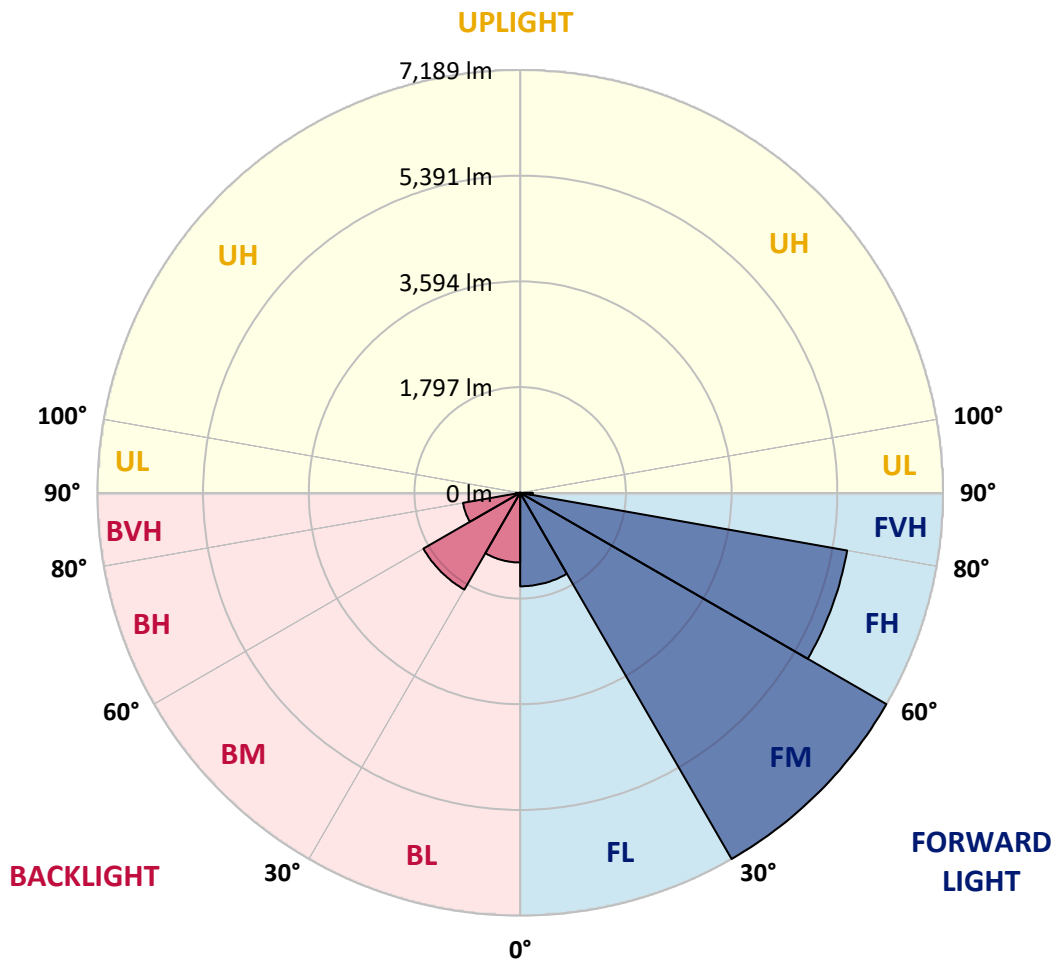
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1589.3	8.5			
FM	(30°-60°)	7188.6	38.3			
FH	(60°-80°)	5644.8	30.1			G3/7500
FVH	(80°-90°)	214.5	1.1			G2/225
BL	(0°-30°)	1184.4	6.3	B3/2500		
BM	(30°-60°)	1899.3	10.1	B2/2500		
BH	(60°-80°)	985.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	73.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2
2.5°	2824.8	2850.2	2836.7	2837.5	2857.0	2840.9	2851.9	2851.9	2851.1	2857.0	2874.8
5°	2894.3	2921.4	2905.3	2895.1	2899.3	2879.0	2874.8	2871.4	2868.9	2875.6	2905.3
7.5°	2995.9	3027.2	3009.4	3000.1	2995.0	2948.5	2940.0	2917.1	2914.6	2920.5	2947.6
10°	3130.5	3172.9	3151.7	3125.4	3107.7	3053.5	3010.3	2990.0	2984.0	2980.6	3008.6
12.5°	3324.4	3361.7	3337.1	3288.0	3264.3	3177.1	3125.4	3067.9	3067.0	3055.2	3076.3
15°	3508.2	3547.1	3515.8	3467.5	3436.2	3318.5	3242.3	3171.2	3162.7	3149.1	3155.9
17.5°	3686.0	3733.4	3711.4	3667.4	3629.3	3498.0	3398.1	3306.6	3297.3	3276.2	3244.8
20°	3907.0	3950.2	3944.3	3904.5	3862.1	3713.1	3603.9	3486.2	3476.0	3437.9	3367.6
22.5°	4128.0	4181.4	4148.3	4141.6	4117.9	3969.7	3817.2	3697.9	3687.7	3637.7	3509.0
25°	4336.3	4383.7	4395.6	4384.6	4387.1	4240.6	4089.1	3939.2	3929.0	3861.3	3675.0
27.5°	4582.7	4627.6	4631.0	4633.5	4663.2	4541.2	4363.4	4209.3	4202.5	4126.3	3890.1
30°	4771.6	4846.1	4861.3	4875.7	4891.0	4825.8	4664.0	4520.1	4506.5	4423.5	4132.2
32.5°	4944.3	5000.2	5054.4	5084.0	5152.6	5094.2	4961.2	4872.3	4873.2	4834.2	4518.4
35°	5078.1	5139.9	5208.5	5316.9	5416.8	5392.2	5350.8	5355.8	5356.7	5373.6	5039.1
37.5°	5206.0	5261.8	5348.2	5477.8	5653.9	5686.1	5714.0	5819.9	5857.1	5936.7	5520.1
40°	5283.0	5342.3	5454.1	5633.6	5862.2	5978.2	6062.9	6334.7	6399.1	6399.9	5891.8
42.5°	5170.4	5235.6	5435.4	5754.7	6050.2	6267.0	6489.7	6832.6	6879.2	6775.0	6209.4
45°	5069.6	5129.7	5344.8	5773.3	6197.5	6575.2	6885.1	7282.2	7316.1	7106.1	6502.4
47.5°	4972.2	5019.7	5268.6	5734.3	6348.2	6884.3	7222.1	7688.7	7713.2	7468.5	6788.6
50°	4837.6	4894.3	5158.5	5688.6	6438.9	7149.3	7552.4	8090.1	8086.7	7794.5	7047.7
52.5°	4690.3	4746.2	5029.8	5604.8	6498.1	7355.1	7928.3	8483.0	8485.5	8168.8	7304.3
55°	4504.8	4573.4	4872.3	5491.3	6512.5	7516.8	8254.3	8886.0	8927.5	8550.7	7551.5
57.5°	4283.0	4351.6	4678.4	5325.3	6427.0	7652.3	8602.4	9400.9	9422.9	8941.1	7736.1
60°	4024.7	4107.7	4420.1	5103.5	6263.6	7809.8	9024.0	9905.5	9913.2	9289.9	7890.2
62.5°	3725.8	3785.1	4113.6	4781.7	6002.8	7872.4	9372.9	10368.7	10370.4	9553.3	7959.7
65°	3402.3	3425.2	3700.4	4343.9	5622.6	7770.0	9506.7	10650.7	10643.1	9784.4	7924.9
67.5°	3017.0	3006.0	3299.9	3802.9	5141.6	7428.7	9441.5	10795.5	10818.4	9962.3	7813.2
70°	2453.1	2469.2	2702.9	3197.4	4365.1	6880.9	9262.0	10854.8	10848.8	9873.4	7453.3
72.5°	1862.1	1890.8	2060.2	2431.1	3387.9	5786.8	8493.1	10199.4	10211.2	9246.7	6805.5
75°	1151.6	1234.6	1377.7	1603.8	2122.9	4145.8	7228.9	8934.3	8994.4	8158.6	5603.9
77.5°	504.7	524.2	596.1	773.1	1110.1	2081.4	5344.0	7134.9	7312.7	6598.0	4042.5
80°	312.5	312.5	332.8	387.8	495.4	773.9	2141.5	4260.1	4079.7	3774.1	1783.3
82.5°	260.0	260.0	270.1	279.4	254.0	327.7	716.4	1193.9	1279.5	1035.6	547.9
85°	141.4	144.8	145.6	148.2	145.6	177.0	282.0	353.1	357.3	323.5	194.8
87.5°	51.7	55.0	53.3	50.0	44.9	42.3	54.2	55.0	56.7	52.5	28.8
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°	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2
2.5°	2886.6	2898.5	2929.8	2932.4	2944.2	2948.5	2958.6	2973.0	2998.4	2985.7	2971.3
5°	2919.7	2934.9	2984.9	3010.3	3043.3	3062.8	3095.0	3111.0	3150.0	3137.3	3135.6
7.5°	2969.6	3001.8	3046.7	3071.2	3114.4	3127.1	3150.8	3150.8	3183.0	3166.9	3162.7
10°	3037.4	3058.5	3106.0	3107.7	3132.2	3132.2	3160.2	3142.4	3173.7	3155.1	3154.2
12.5°	3091.6	3103.4	3121.2	3106.8	3119.5	3105.1	3119.5	3098.3	3117.8	3094.1	3089.0
15°	3152.5	3136.4	3118.7	3084.8	3073.8	3050.9	3039.1	3017.0	3018.7	2991.6	2987.4
17.5°	3221.1	3179.6	3128.0	3054.3	3013.7	2955.2	2930.7	2899.3	2881.6	2857.0	2868.0
20°	3304.1	3242.3	3134.7	3020.4	2934.1	2845.2	2787.6	2736.8	2732.5	2710.5	2698.7
22.5°	3411.6	3312.6	3164.4	2972.2	2833.3	2706.3	2620.8	2536.1	2527.6	2482.7	2465.8
25°	3544.6	3405.7	3179.6	2934.9	2715.6	2541.2	2406.5	2288.8	2232.1	2184.7	2173.7
27.5°	3723.3	3542.9	3210.1	2868.0	2576.7	2336.2	2143.2	1987.4	1919.6	1895.9	1871.4
30°	3932.4	3710.6	3266.8	2812.1	2412.5	2074.6	1839.2	1653.7	1580.1	1542.8	1531.0
32.5°	4240.6	3922.2	3319.3	2719.8	2213.5	1786.7	1480.2	1275.2	1230.4	1223.6	1239.7
35°	4689.4	4320.2	3395.6	2634.3	1979.8	1466.6	1127.9	994.1	984.8	986.5	986.5
37.5°	5156.8	4699.6	3621.6	2508.1	1693.5	1104.2	858.6	785.8	789.2	789.2	788.3
40°	5461.7	5004.4	3785.9	2329.5	1337.9	791.7	636.8	581.7	605.4	637.6	654.6
42.5°	5797.8	5281.3	3899.4	2123.7	930.6	559.7	463.2	482.7	552.1	601.2	608.0
45°	6084.1	5516.7	3912.1	1803.6	599.5	425.1	422.5	478.4	558.9	612.2	616.4
47.5°	6329.6	5731.0	3832.5	1437.8	436.9	397.1	422.5	492.8	565.6	598.7	602.1
50°	6567.6	5901.2	3645.4	1105.0	398.0	387.0	427.6	495.4	541.1	564.0	560.6
52.5°	6779.3	6056.1	3374.4	862.0	382.7	380.2	431.9	492.8	521.6	519.9	517.4
55°	6940.1	6101.8	3162.7	672.3	370.0	376.0	434.4	495.4	516.5	501.3	497.9
57.5°	7023.1	6045.1	2984.9	534.3	356.5	371.7	441.2	494.5	531.8	560.6	558.9
60°	7021.4	5980.8	2765.6	460.6	342.9	368.3	452.2	536.9	671.5	698.6	699.4
62.5°	6994.3	5870.7	2465.0	416.6	327.7	370.0	459.8	609.7	764.6	742.6	724.8
65°	6904.6	5664.1	2061.9	369.2	308.2	371.7	456.4	659.6	701.1	622.4	611.4
67.5°	6654.8	5264.4	1619.0	330.2	290.4	362.4	462.3	613.1	644.4	594.4	578.3
70°	6147.6	4701.3	1097.4	284.5	270.1	348.9	448.8	602.9	635.9	585.1	561.4
72.5°	5344.0	3773.2	641.9	244.7	240.5	320.9	442.0	609.7	646.1	589.4	558.9
75°	4159.3	2645.3	370.9	198.1	200.7	296.4	405.6	575.0	640.2	596.1	556.3
77.5°	2685.1	1284.6	261.7	158.3	156.7	233.7	329.4	503.0	616.4	602.1	569.0
80°	961.1	469.1	183.7	117.7	114.3	158.3	253.2	404.8	521.6	540.2	540.2
82.5°	345.5	235.4	117.7	72.0	71.1	100.8	188.8	307.4	378.5	426.8	438.6
85°	144.8	102.5	57.6	36.4	29.6	39.0	97.4	190.5	256.6	276.0	300.6
87.5°	21.2	18.6	15.2	11.9	10.2	10.2	12.7	55.0	91.5	131.2	162.6
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)