

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: P510105

Luminaire Tested: **VERD-M-CA4-200-760-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-200-760-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 910mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28628 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

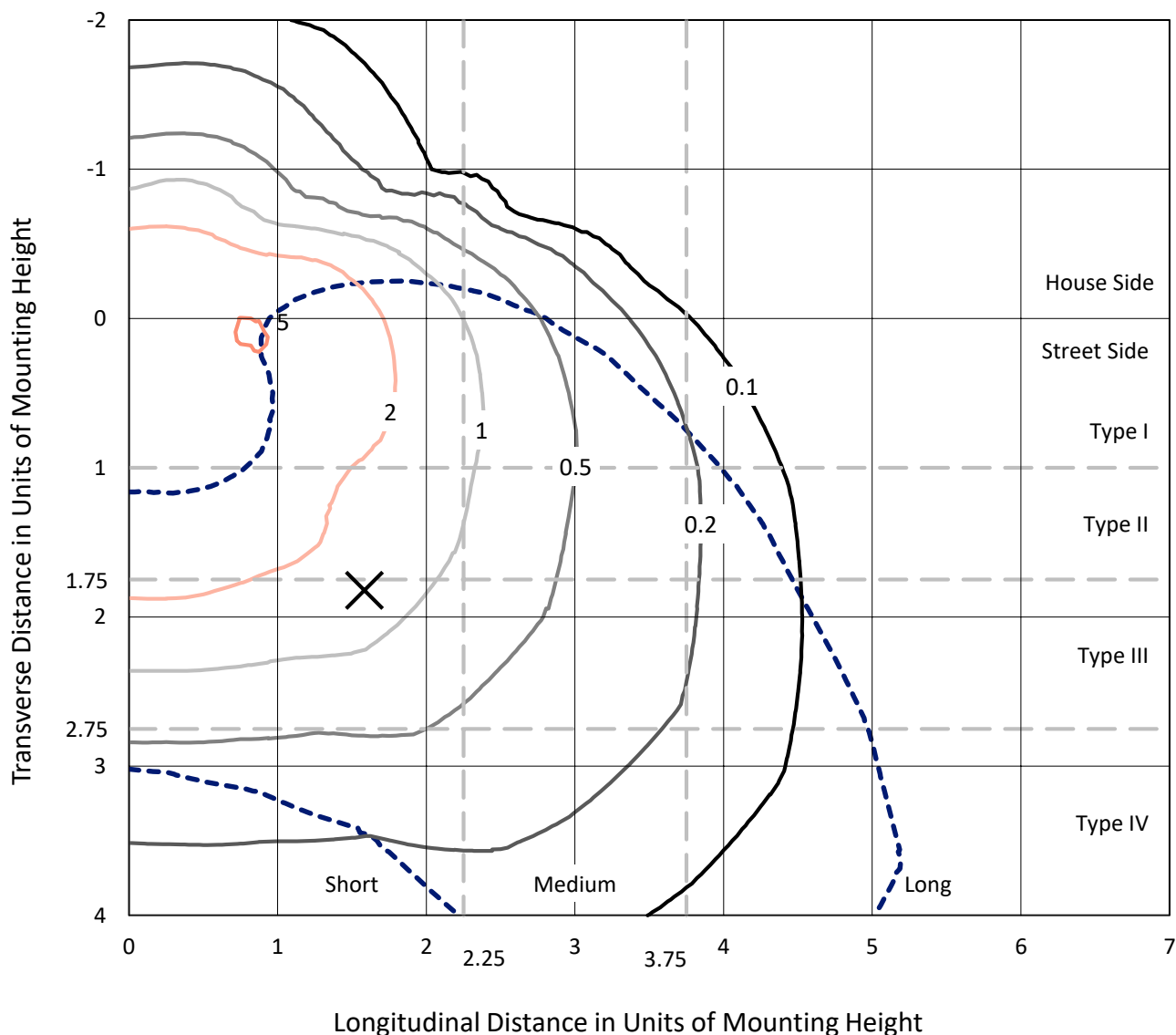
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

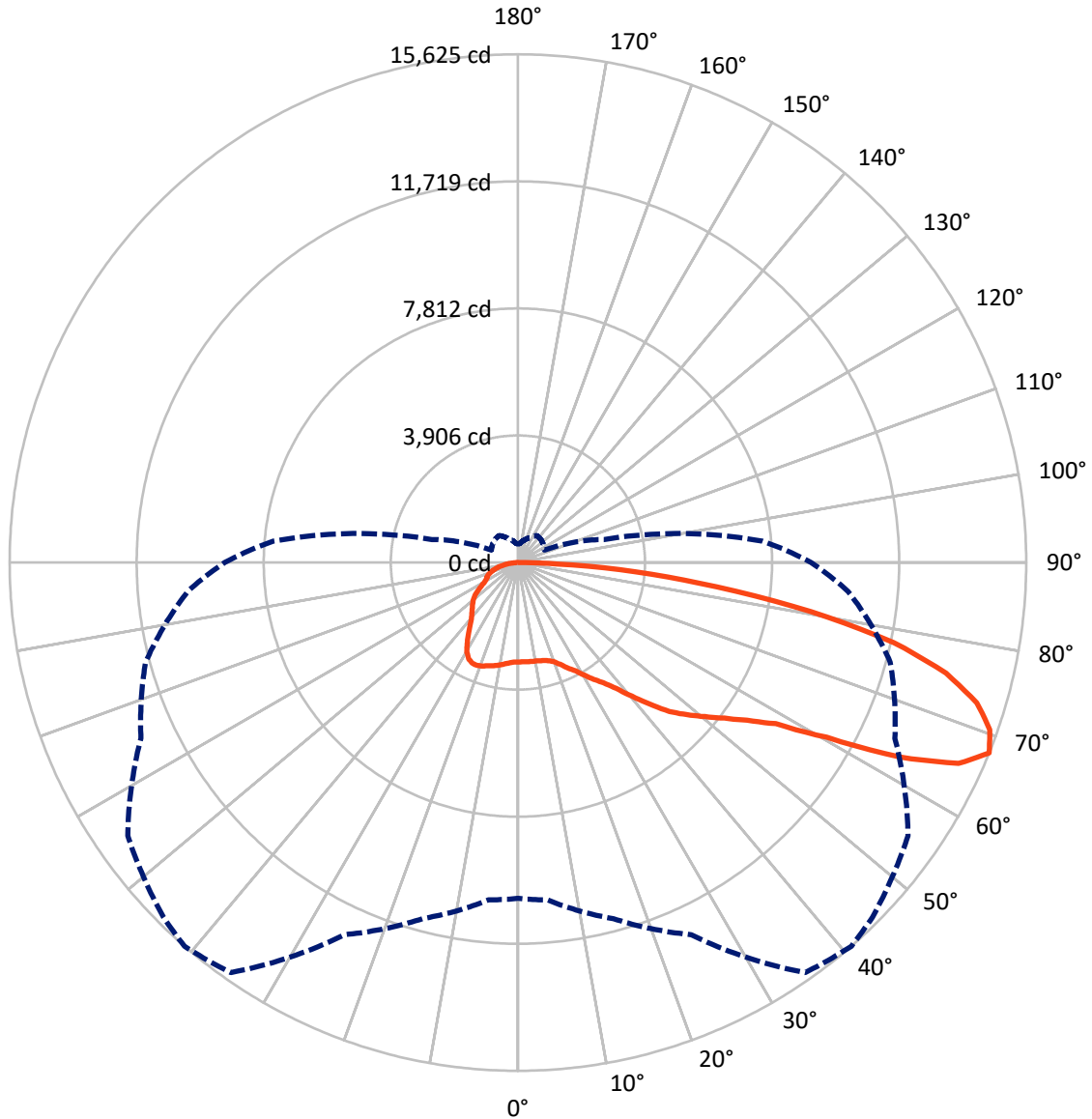
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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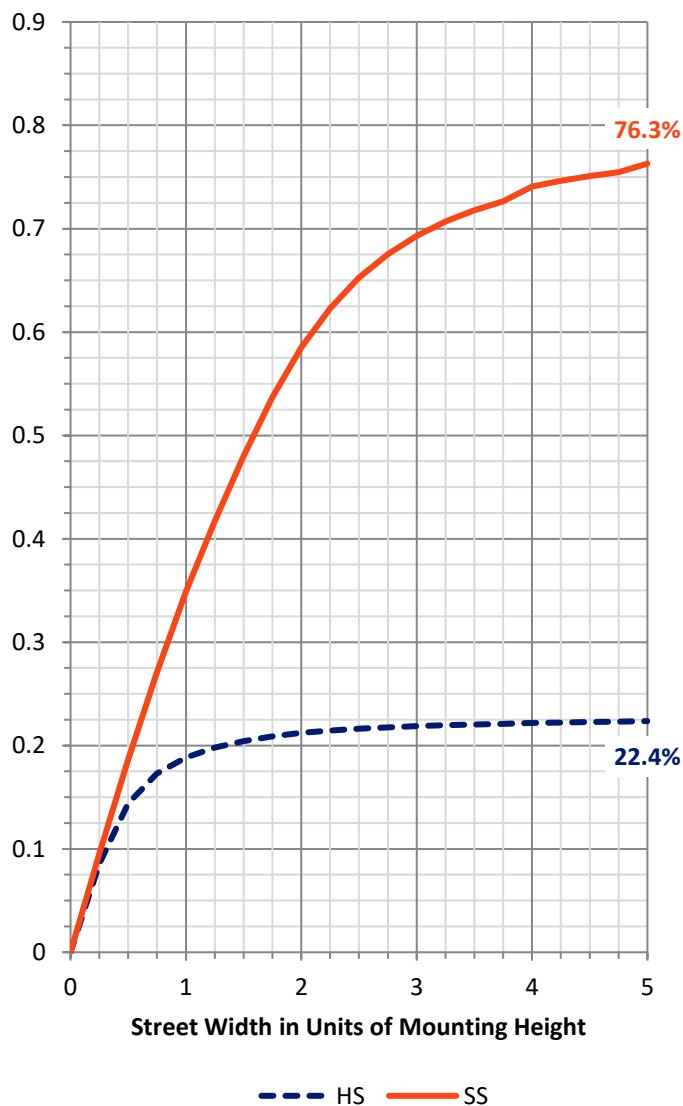
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6478.4	0.0	6478.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	22149.6	0.0	22149.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	28628.0	0.0	28628.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.4	1.0
10°-20°	916.0	3.2
20°-30°	1638.1	5.7
30°-40°	2568.6	9.0
40°-50°	3983.1	13.9
50°-60°	5615.2	19.6
60°-70°	7158.0	25.0
70°-80°	5356.6	18.7
80°-90°	1097.1	3.8
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°	28628.0	100.0
0°-180°	28628.0	100.0

**Coefficient of Utilization**



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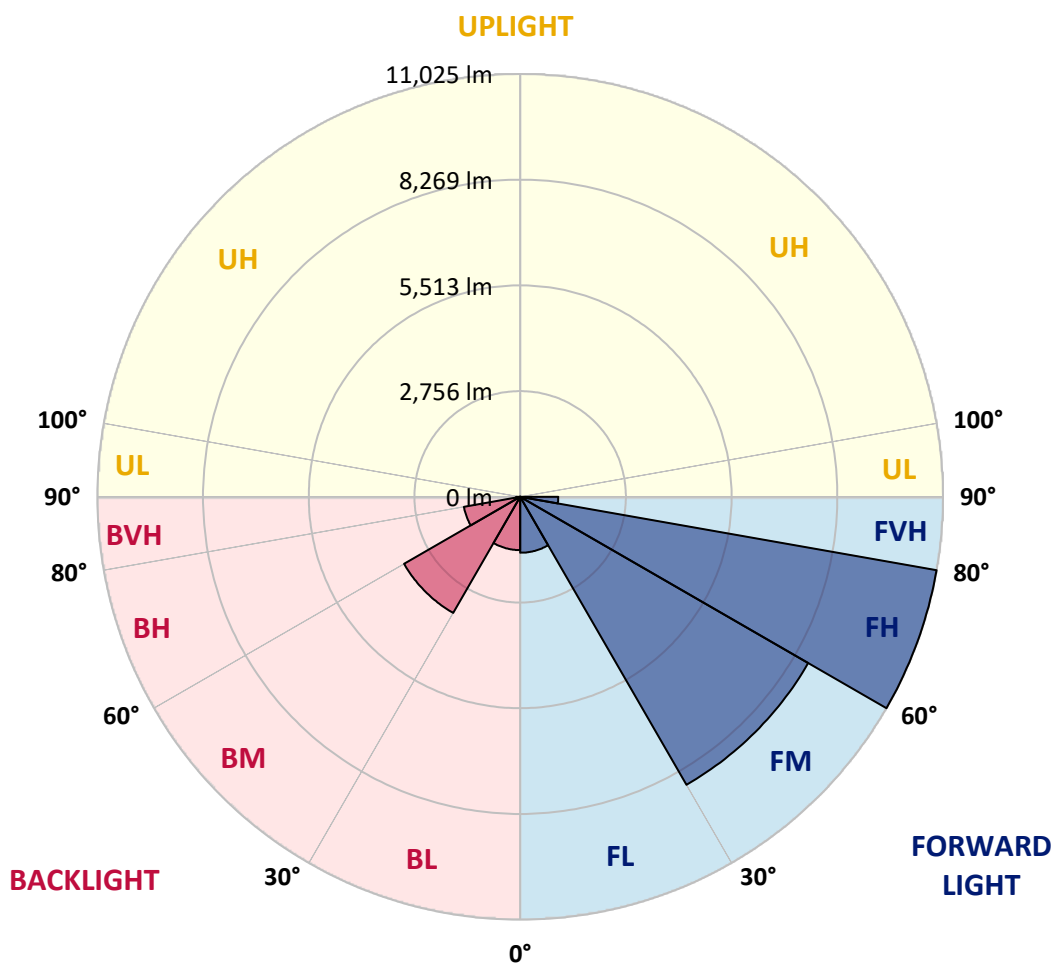
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.6	5.1			
FM	(30°-60°)	8671.2	30.3			
FH	(60°-80°)	11025.2	38.5			G4/12000
FVH	(80°-90°)	994.6	3.5			G5
BL	(0°-30°)	1390.9	4.9	B3/2500		
BM	(30°-60°)	3495.7	12.2	B3/5000		
BH	(60°-80°)	1489.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	102.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5
2.5°	3019.0	3053.9	3048.8	3042.3	3052.6	3053.9	3024.1	3035.8	3042.3	3052.6	3069.5
5°	3026.7	3061.7	3059.1	3047.5	3055.2	3059.1	3031.9	3052.6	3052.6	3056.5	3076.0
7.5°	3009.9	3043.6	3043.6	3039.7	3056.5	3072.1	3047.5	3065.6	3076.0	3086.3	3099.3
10°	2994.3	3022.8	3033.2	3030.6	3069.5	3073.4	3056.5	3100.6	3117.4	3127.8	3143.3
12.5°	2977.5	3012.5	3026.7	3041.0	3082.4	3096.7	3087.6	3133.0	3168.0	3186.1	3202.9
15°	2969.7	3008.6	3031.9	3052.6	3098.0	3123.9	3123.9	3192.6	3234.0	3257.4	3287.2
17.5°	3024.1	3064.3	3082.4	3099.3	3140.8	3175.7	3173.1	3253.5	3314.4	3350.7	3405.1
20°	3158.9	3206.8	3217.2	3223.7	3249.6	3262.5	3258.7	3345.5	3429.7	3498.4	3559.3
22.5°	3393.4	3421.9	3427.1	3401.2	3407.7	3418.0	3411.6	3459.5	3555.4	3635.7	3744.5
25°	3585.2	3630.5	3617.6	3580.0	3585.2	3599.4	3580.0	3653.8	3722.5	3827.5	3937.6
27.5°	3787.3	3821.0	3806.7	3783.4	3778.2	3767.9	3764.0	3858.6	3959.6	4042.6	4205.8
30°	4033.5	4051.6	4010.2	3999.8	4008.9	4015.3	3990.7	4111.2	4203.2	4322.4	4542.7
32.5°	4448.1	4464.9	4405.3	4246.0	4249.9	4279.7	4258.9	4410.5	4584.2	4729.3	4953.4
35°	4976.7	4976.7	4930.1	4705.9	4536.2	4537.5	4542.7	4756.5	5079.1	5404.3	5635.0
37.5°	5511.9	5530.0	5441.9	5237.2	5022.1	4908.1	4812.2	5086.9	5509.3	6234.9	6578.2
40°	6069.0	6097.5	5965.4	5777.5	5530.0	5400.4	5289.0	5456.2	6026.3	7057.6	7329.7
42.5°	6556.2	6596.4	6460.3	6262.1	6089.7	5943.3	5774.9	5842.3	6595.1	7838.9	7993.1
45°	7009.7	7031.7	6916.4	6753.1	6610.6	6530.3	6412.4	6490.1	7245.5	8603.4	8574.9
47.5°	7344.0	7376.4	7271.4	7183.3	7036.9	6989.0	6987.7	7201.4	7977.6	9212.4	9080.2
50°	7886.9	7862.2	7626.4	7518.9	7429.5	7445.0	7482.6	7851.9	8837.9	9799.3	9505.2
52.5°	8797.7	8752.4	8228.9	8004.8	7894.6	7945.2	7964.6	8441.4	9706.0	10305.9	9856.3
55°	9975.5	9830.4	9449.5	8848.3	8502.3	8550.3	8528.2	9075.0	10400.5	10789.2	10116.7
57.5°	10754.2	10890.3	10707.6	10364.2	9505.2	9348.4	9296.6	9702.1	11043.2	11251.8	10386.3
60°	11430.6	11656.0	11946.3	11726.0	11494.1	10907.1	10423.8	10414.8	11609.4	11560.1	10495.1
62.5°	12144.5	12263.7	12710.7	12846.8	13276.9	13169.4	12521.5	11316.6	12175.6	11785.6	10558.6
65°	11422.8	11582.2	12395.9	13138.3	14730.7	14886.2	14675.0	12993.2	12568.2	11900.9	10467.9
67.5°	10324.1	10412.2	11333.4	12621.3	15388.9	15624.7	15412.2	14638.7	12785.9	11850.4	10188.0
70°	8915.6	9019.3	9899.1	11656.0	15355.2	15386.3	15303.4	14790.3	12699.1	11613.3	9483.2
72.5°	7228.7	7359.5	8133.0	9957.4	14619.3	14754.0	14623.2	14489.7	12455.5	10949.9	8269.1
75°	5469.1	5642.7	6333.3	7938.7	12919.3	13598.3	13615.1	14027.1	11509.6	9387.3	6001.6
77.5°	3730.3	3896.1	4550.5	6048.3	10724.4	11808.9	12091.4	12542.3	9616.6	6937.1	3274.2
80°	2100.3	2084.8	2915.3	4321.1	8179.7	9132.0	9487.0	9468.9	6753.1	3561.9	667.3
82.5°	970.5	973.1	1491.3	2758.5	5537.8	6166.2	6310.0	5492.4	2369.8	603.8	212.5
85°	483.3	488.5	717.8	1383.8	3126.5	3612.4	3433.6	2285.6	507.9	176.2	127.0
87.5°	191.8	184.0	283.8	568.8	1128.5	1195.9	1044.3	457.4	92.0	62.2	42.8
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°	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5
2.5°	3065.6	3068.2	3079.9	3056.5	3063.0	3057.8	3053.9	3074.7	3073.4	3077.3	3070.8
5°	3074.7	3081.2	3092.8	3082.4	3092.8	3087.6	3091.5	3120.0	3123.9	3122.6	3122.6
7.5°	3099.3	3105.8	3127.8	3114.8	3138.2	3131.7	3133.0	3160.2	3165.4	3157.6	3155.0
10°	3151.1	3156.3	3187.4	3184.8	3193.9	3188.7	3183.5	3195.2	3192.6	3180.9	3175.7
12.5°	3210.7	3225.0	3260.0	3261.3	3272.9	3247.0	3219.8	3215.9	3208.1	3190.0	3186.1
15°	3300.1	3317.0	3370.1	3357.1	3349.4	3293.6	3248.3	3212.0	3180.9	3165.4	3151.1
17.5°	3428.4	3456.9	3530.8	3490.6	3433.6	3351.9	3272.9	3193.9	3127.8	3072.1	3050.1
20°	3591.7	3624.0	3686.2	3633.1	3546.3	3424.5	3296.2	3153.7	3009.9	2886.8	2868.7
22.5°	3786.0	3837.8	3883.2	3761.4	3633.1	3478.9	3296.2	3091.5	2853.1	2669.1	2623.8
25°	4012.8	4052.9	4038.7	3867.6	3682.4	3488.0	3260.0	2981.4	2644.5	2430.7	2394.4
27.5°	4258.9	4277.1	4166.9	3918.2	3687.5	3434.9	3157.6	2785.7	2400.9	2232.5	2197.5
30°	4562.1	4507.7	4297.8	3949.3	3635.7	3317.0	2974.9	2499.4	2202.7	2055.0	2014.8
32.5°	4888.6	4788.9	4391.1	3927.2	3521.7	3120.0	2692.4	2297.3	2070.5	1890.4	1856.7
35°	5510.6	5226.8	4527.1	3861.2	3323.4	2857.0	2419.1	2141.8	1930.6	1737.5	1706.4
37.5°	6350.2	5856.5	4717.6	3769.2	3088.9	2601.7	2215.6	1975.9	1793.2	1593.7	1544.5
40°	7003.2	6492.7	5023.4	3670.7	2872.5	2359.5	2067.9	1889.1	1702.5	1490.0	1447.3
42.5°	7625.1	7074.5	5399.1	3560.6	2649.7	2191.0	2003.1	1869.7	1677.9	1461.5	1421.4
45°	8174.5	7544.8	5723.1	3450.4	2398.3	2035.5	1955.2	1832.1	1642.9	1425.3	1386.4
47.5°	8618.9	7949.1	6004.2	3331.2	2170.3	1917.6	1893.0	1763.4	1575.6	1351.4	1304.8
50°	9020.6	8291.1	6198.6	3204.2	1947.4	1821.7	1790.6	1637.8	1442.1	1243.9	1214.1
52.5°	9268.1	8523.0	6315.2	3225.0	1736.2	1714.2	1663.7	1506.9	1325.5	1155.8	1116.9
55°	9527.2	8742.0	6313.9	3108.4	1560.0	1552.2	1504.3	1383.8	1241.3	1098.7	1075.4
57.5°	9633.5	8761.5	6196.0	2560.3	1404.5	1355.3	1344.9	1281.4	1157.1	1022.3	996.4
60°	9704.7	8675.9	5973.1	1747.9	1208.9	1173.9	1224.4	1181.7	1068.9	927.7	901.8
62.5°	9634.8	8582.7	5388.8	1262.0	1059.9	1079.3	1127.3	1080.6	962.7	834.4	812.4
65°	9467.6	8226.3	4255.0	983.4	993.8	1036.6	1074.1	996.4	780.0	653.0	640.1
67.5°	9011.5	7548.7	2737.8	901.8	956.2	1000.3	1013.2	843.5	706.2	584.4	570.1
70°	8051.4	6059.9	1054.7	850.0	918.6	938.1	885.0	773.5	649.1	544.2	531.2
72.5°	6298.3	3979.1	609.0	777.4	838.3	820.2	821.5	694.5	585.7	485.9	475.5
75°	3914.3	1440.8	541.6	691.9	710.0	743.7	701.0	602.5	504.0	444.4	431.5
77.5°	1294.4	409.4	501.4	596.0	636.2	611.6	586.9	514.4	431.5	384.8	378.3
80°	313.6	307.1	449.6	466.4	498.8	457.4	454.8	427.6	364.1	336.9	330.4
82.5°	193.1	220.3	357.6	290.2	333.0	336.9	383.5	352.4	265.6	276.0	266.9
85°	119.2	169.7	187.9	139.9	141.2	189.2	229.3	212.5	159.4	150.3	149.0
87.5°	40.2	35.0	40.2	29.8	40.2	68.7	103.7	98.5	66.1	45.3	42.8
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)