

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: P510273

Luminaire Tested: **VERD-M-CA4-240-730-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510273  
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-CA4-240-730-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 1090mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32785 lumens  
Efficiency: N/A  
Efficacy: 135.3 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

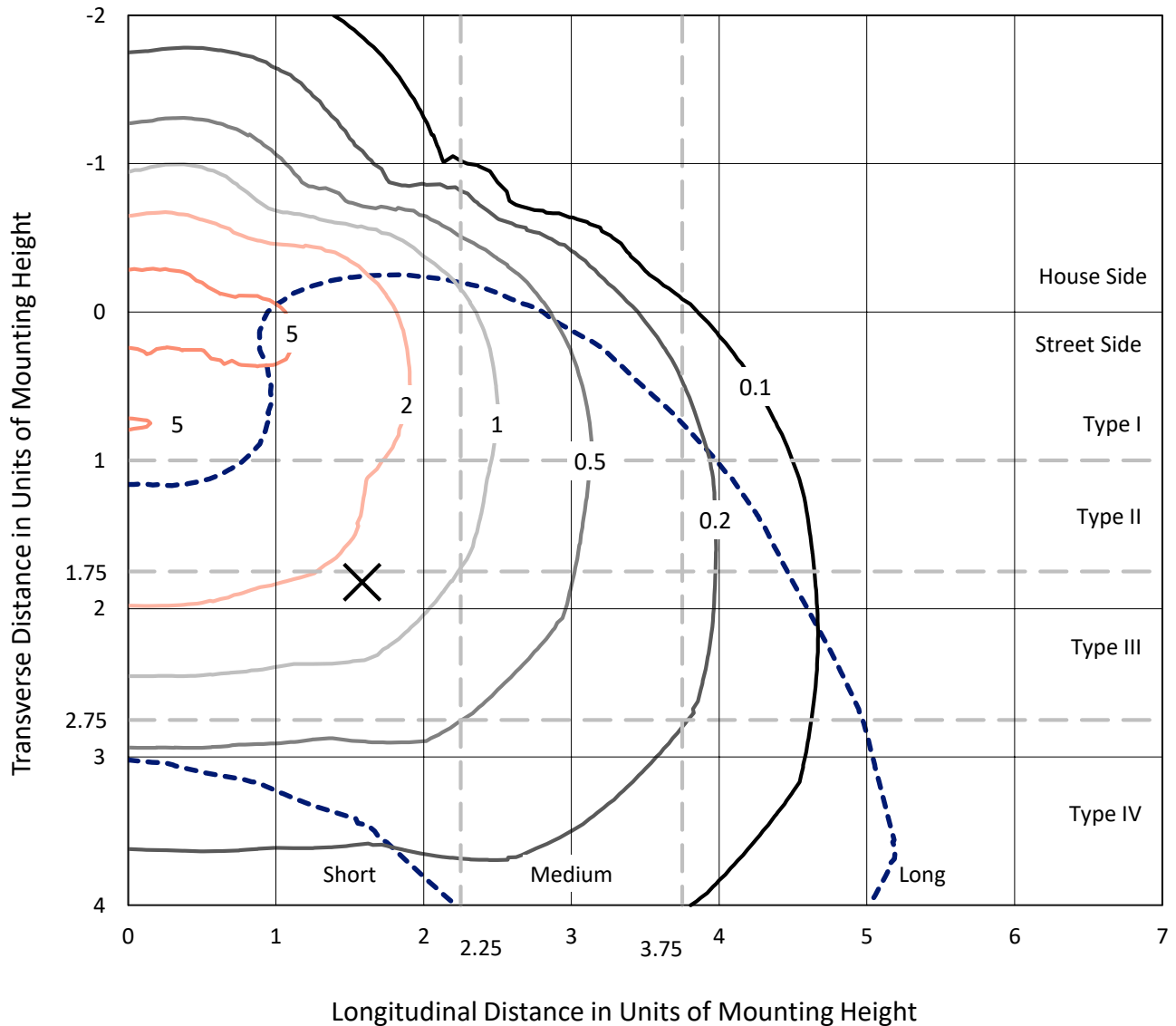
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

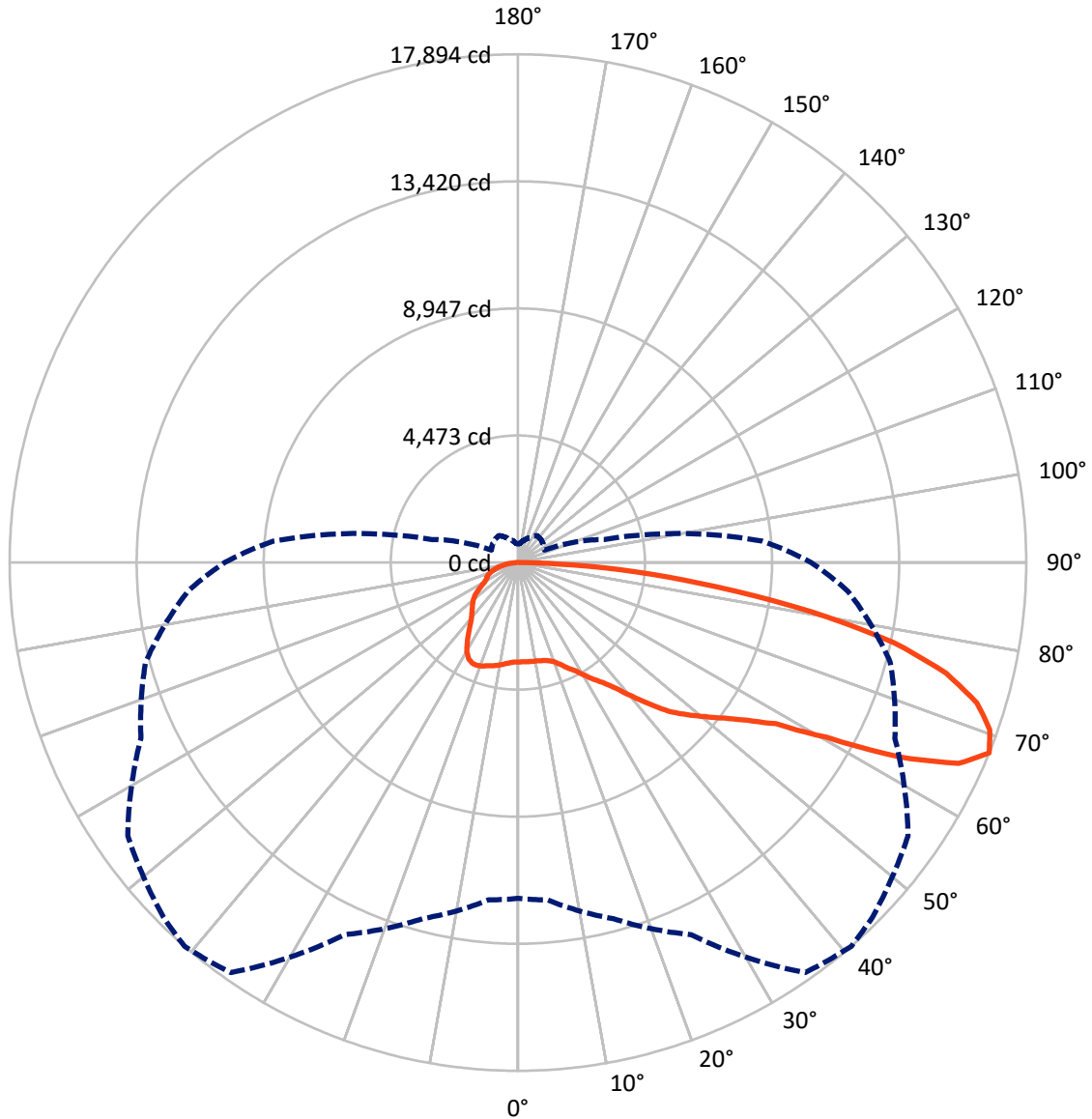
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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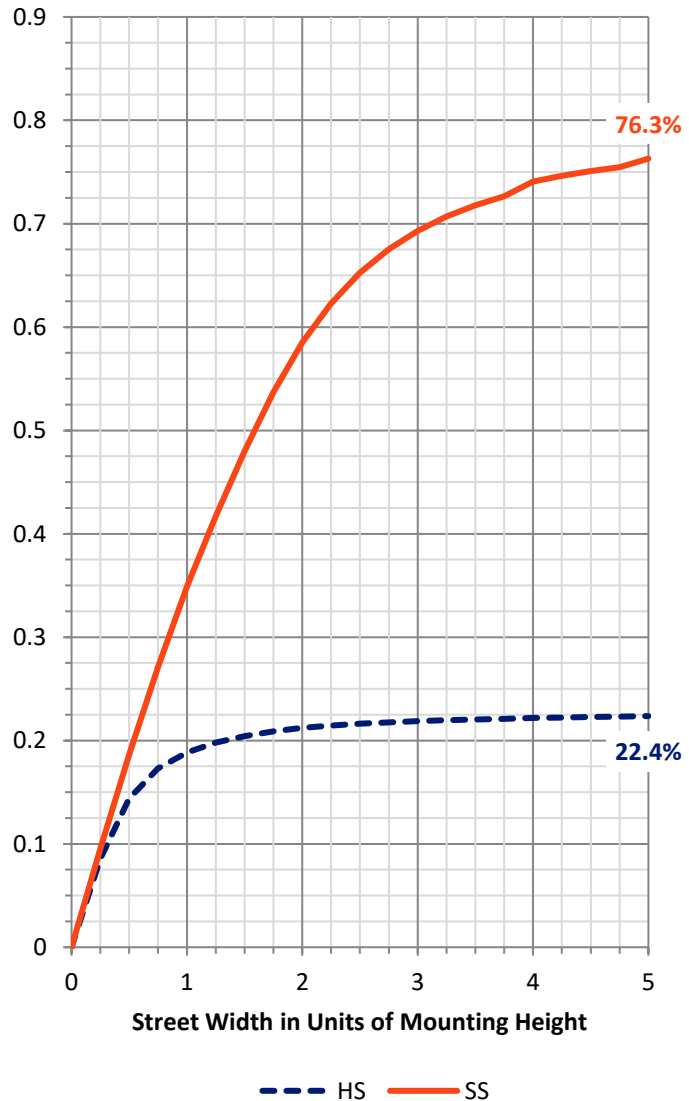
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7419.1	0.0	7419.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	25365.9	0.0	25365.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	32785.0	0.0	32785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.2	1.0
10°-20°	1049.1	3.2
20°-30°	1876.0	5.7
30°-40°	2941.5	9.0
40°-50°	4561.5	13.9
50°-60°	6430.5	19.6
60°-70°	8197.4	25.0
70°-80°	6134.4	18.7
80°-90°	1256.4	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°	32785.0	100.0
0°-180°	32785.0	100.0

**Coefficient of Utilization**



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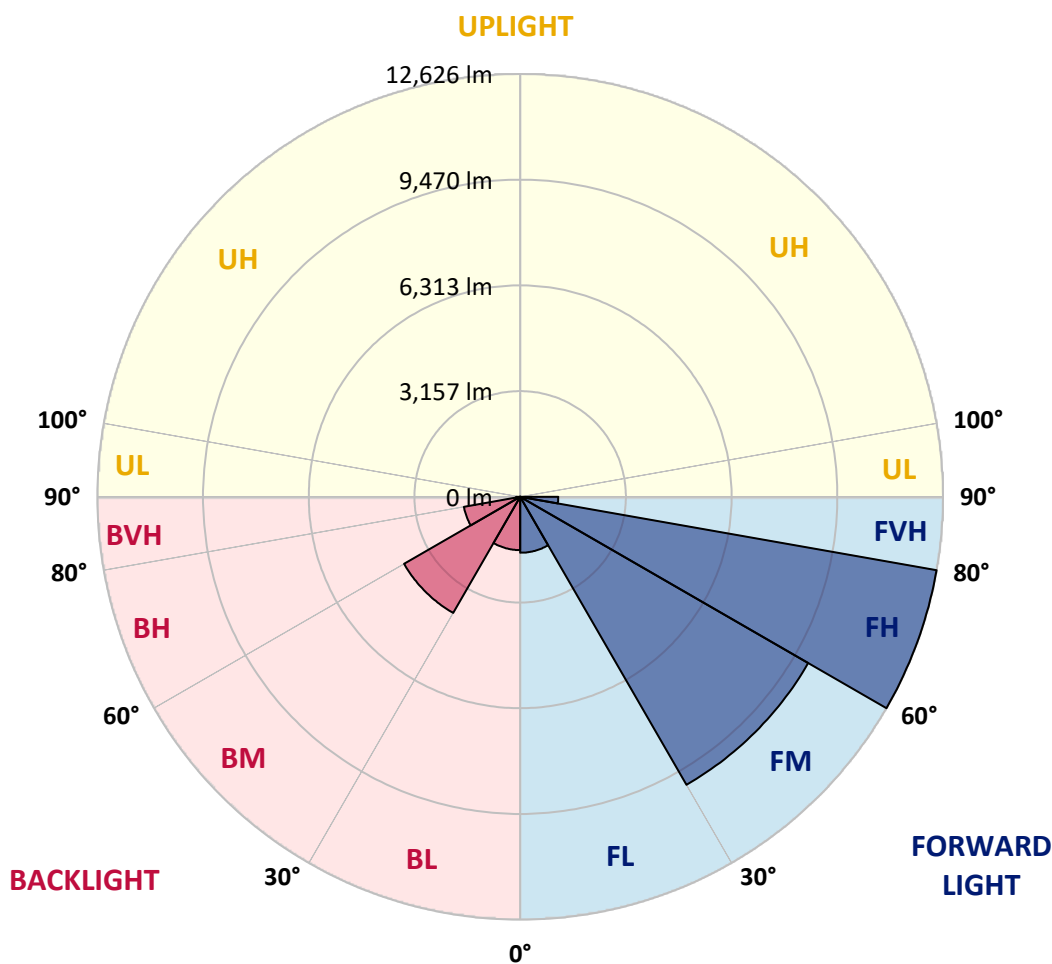
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.4	5.1			
FM (30°-60°)	9930.3	30.3			
FH (60°-80°)	12626.2	38.5			G5
FVH (80°-90°)	1139.0	3.5			G5
BL (0°-30°)	1592.8	4.9	B3/2500		
BM (30°-60°)	4003.2	12.2	B3/5000		
BH (60°-80°)	1705.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	117.4	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°	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4
2.5°	3457.3	3497.4	3491.5	3484.0	3495.9	3497.4	3463.3	3476.6	3484.0	3495.9	3515.2
5°	3466.2	3506.3	3503.3	3490.0	3498.9	3503.3	3472.2	3495.9	3495.9	3500.4	3522.6
7.5°	3446.9	3485.5	3485.5	3481.1	3500.4	3518.2	3490.0	3510.8	3522.6	3534.5	3549.3
10°	3429.1	3461.8	3473.7	3470.7	3515.2	3519.7	3500.4	3550.8	3570.1	3582.0	3599.8
12.5°	3409.9	3449.9	3466.2	3482.6	3530.0	3546.4	3536.0	3587.9	3628.0	3648.7	3668.0
15°	3400.9	3445.5	3472.2	3495.9	3547.8	3577.5	3577.5	3656.2	3703.6	3730.4	3764.5
17.5°	3463.3	3509.3	3530.0	3549.3	3596.8	3636.9	3633.9	3725.9	3795.6	3837.2	3899.5
20°	3617.6	3672.5	3684.4	3691.8	3721.5	3736.3	3731.8	3831.3	3927.7	4006.4	4076.1
22.5°	3886.2	3918.8	3924.7	3895.1	3902.5	3914.4	3906.9	3961.8	4071.6	4163.6	4288.3
25°	4105.8	4157.7	4142.9	4099.8	4105.8	4122.1	4099.8	4184.4	4263.1	4383.2	4509.4
27.5°	4337.2	4375.8	4359.5	4332.8	4326.9	4315.0	4310.5	4418.9	4534.6	4629.6	4816.5
30°	4619.2	4639.9	4592.5	4580.6	4591.0	4598.4	4570.2	4708.2	4813.6	4950.1	5202.3
32.5°	5094.0	5113.3	5045.0	4862.5	4867.0	4901.1	4877.4	5051.0	5249.8	5416.0	5672.7
35°	5699.4	5699.4	5646.0	5389.3	5194.9	5196.4	5202.3	5447.2	5816.6	6189.1	6453.2
37.5°	6312.2	6333.0	6232.1	5997.7	5751.3	5620.8	5511.0	5825.5	6309.3	7140.2	7533.4
40°	6950.3	6982.9	6831.6	6616.4	6333.0	6184.6	6057.0	6248.4	6901.3	8082.4	8394.0
42.5°	7508.2	7554.2	7398.4	7171.4	6974.0	6806.3	6613.4	6690.6	7552.7	8977.2	9153.8
45°	8027.5	8052.8	7920.7	7733.7	7570.5	7478.5	7343.5	7432.5	8297.6	9852.7	9820.0
47.5°	8410.4	8447.5	8327.3	8226.4	8058.7	8003.8	8002.3	8247.1	9136.0	10550.1	10398.7
50°	9032.1	9003.9	8733.8	8610.7	8508.3	8526.1	8569.1	8992.0	10121.2	11222.2	10885.4
52.5°	10075.2	10023.3	9423.8	9167.1	9041.0	9098.9	9121.1	9667.2	11115.4	11802.4	11287.5
55°	11424.0	11257.8	10821.6	10133.1	9736.9	9791.8	9766.6	10392.8	11910.7	12355.9	11585.8
57.5°	12315.8	12471.6	12262.4	11869.2	10885.4	10705.9	10646.5	11110.9	12646.7	12885.6	11894.4
60°	13090.4	13348.6	13680.9	13428.7	13163.1	12490.9	11937.4	11927.1	13295.2	13238.8	12019.1
62.5°	13908.0	14044.5	14556.4	14712.2	15204.8	15081.7	14339.8	12959.8	13943.6	13497.0	12091.8
65°	13081.5	13264.0	14195.8	15046.1	16869.7	17047.8	16805.9	14879.9	14393.2	13629.0	11987.9
67.5°	11823.2	11924.1	12979.1	14454.0	17623.5	17893.6	17650.2	16764.4	14642.5	13571.1	11667.4
70°	10210.3	10329.0	11336.5	13348.6	17584.9	17620.5	17525.6	16938.0	14543.1	13299.6	10860.2
72.5°	8278.3	8428.2	9314.0	11403.3	16742.1	16896.4	16746.5	16593.7	14264.1	12539.9	9469.8
75°	6263.3	6462.1	7253.0	9091.4	14795.3	15572.8	15592.1	16064.0	13180.9	10750.4	6873.1
77.5°	4272.0	4461.9	5211.2	6926.5	12281.7	13523.7	13847.1	14363.5	11013.0	7944.4	3749.6
80°	2405.3	2387.5	3338.6	4948.6	9367.4	10458.1	10864.6	10843.9	7733.7	4079.1	764.2
82.5°	1111.4	1114.4	1707.9	3159.1	6341.9	7061.6	7226.3	6290.0	2713.9	691.5	243.3
85°	553.5	559.4	822.0	1584.7	3580.5	4136.9	3932.2	2617.5	581.7	201.8	145.4
87.5°	219.6	210.7	325.0	651.4	1292.4	1369.6	1196.0	523.8	105.4	71.2	49.0
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°	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4	3500.4
2.5°	3510.8	3513.7	3527.1	3500.4	3507.8	3501.8	3497.4	3521.1	3519.7	3524.1	3516.7
5°	3521.1	3528.6	3541.9	3530.0	3541.9	3536.0	3540.4	3573.1	3577.5	3576.0	3576.0
7.5°	3549.3	3556.7	3582.0	3567.1	3593.8	3586.4	3587.9	3619.1	3625.0	3616.1	3613.1
10°	3608.7	3614.6	3650.2	3647.3	3657.7	3651.7	3645.8	3659.1	3656.2	3642.8	3636.9
12.5°	3676.9	3693.3	3733.3	3734.8	3748.2	3718.5	3687.3	3682.9	3674.0	3653.2	3648.7
15°	3779.3	3798.6	3859.5	3844.6	3835.7	3771.9	3720.0	3678.4	3642.8	3625.0	3608.7
17.5°	3926.2	3958.9	4043.4	3997.4	3932.2	3838.7	3748.2	3657.7	3582.0	3518.2	3492.9
20°	4113.2	4150.3	4221.5	4160.7	4061.3	3921.8	3774.9	3611.7	3446.9	3306.0	3285.2
22.5°	4335.8	4395.1	4447.0	4307.6	4160.7	3984.1	3774.9	3540.4	3267.4	3056.7	3004.8
25°	4595.4	4641.4	4625.1	4429.2	4217.1	3994.5	3733.3	3414.3	3028.5	2783.7	2742.1
27.5°	4877.4	4898.1	4772.0	4487.1	4223.0	3933.6	3616.1	3190.2	2749.5	2556.6	2516.6
30°	5224.6	5162.3	4921.9	4522.7	4163.6	3798.6	3406.9	2862.3	2522.5	2353.4	2307.4
32.5°	5598.5	5484.2	5028.7	4497.5	4033.1	3573.1	3083.4	2630.8	2371.2	2164.9	2126.3
35°	6310.7	5985.8	5184.5	4421.8	3806.0	3271.9	2770.3	2452.8	2210.9	1989.8	1954.2
37.5°	7272.3	6706.9	5402.6	4316.5	3537.5	2979.5	2537.4	2262.8	2053.6	1825.1	1768.7
40°	8020.1	7435.5	5752.8	4203.7	3289.7	2702.1	2368.2	2163.4	1949.8	1706.4	1657.4
42.5°	8732.4	8101.7	6183.1	4077.6	3034.4	2509.2	2294.0	2141.2	1921.6	1673.8	1627.8
45°	9361.5	8640.4	6554.1	3951.4	2746.6	2331.1	2239.1	2098.1	1881.5	1632.2	1587.7
47.5°	9870.5	9103.3	6876.1	3814.9	2485.4	2196.1	2167.9	2019.5	1804.3	1547.6	1494.2
50°	10330.5	9495.1	7098.7	3669.5	2230.2	2086.3	2050.7	1875.6	1651.5	1424.5	1390.4
52.5°	10613.9	9760.7	7232.2	3693.3	1988.3	1963.1	1905.2	1725.7	1518.0	1323.6	1279.1
55°	10910.6	10011.4	7230.7	3559.7	1786.5	1777.6	1722.7	1584.7	1421.5	1258.3	1231.6
57.5°	11032.3	10033.7	7095.7	2932.1	1608.5	1552.1	1540.2	1467.5	1325.1	1170.7	1141.1
60°	11113.9	9935.8	6840.5	2001.7	1384.4	1344.4	1402.2	1353.3	1224.2	1062.4	1032.7
62.5°	11033.8	9828.9	6171.3	1445.3	1213.8	1236.0	1290.9	1237.5	1102.5	955.6	930.4
65°	10842.4	9420.9	4872.9	1126.2	1138.1	1187.1	1230.1	1141.1	893.3	747.9	733.0
67.5°	10320.1	8644.8	3135.3	1032.7	1095.1	1145.5	1160.4	966.0	808.7	669.2	652.9
70°	9220.5	6939.9	1207.8	973.4	1052.0	1074.3	1013.5	885.8	743.4	623.2	608.4
72.5°	7212.9	4556.9	697.4	890.3	960.0	939.3	940.8	795.3	670.7	556.4	544.6
75°	4482.7	1650.0	620.2	792.4	813.1	851.7	802.8	690.0	577.2	509.0	494.1
77.5°	1482.3	468.9	574.2	682.6	728.6	700.4	672.2	589.1	494.1	440.7	433.3
80°	359.1	351.7	514.9	534.2	571.3	523.8	520.8	489.7	417.0	385.8	378.4
82.5°	221.1	252.3	409.5	332.4	381.3	385.8	439.2	403.6	304.2	316.1	305.7
85°	136.5	194.4	215.2	160.3	161.7	216.6	262.6	243.3	182.5	172.1	170.6
87.5°	46.0	40.1	46.0	34.1	46.0	78.6	118.7	112.8	75.7	51.9	49.0
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)