

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: P510097

Luminaire Tested: **VERD-M-CA4-200-750-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510097  
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-CA4-200-750-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29249 lumens  
Efficiency: N/A  
Efficacy: 144.9 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

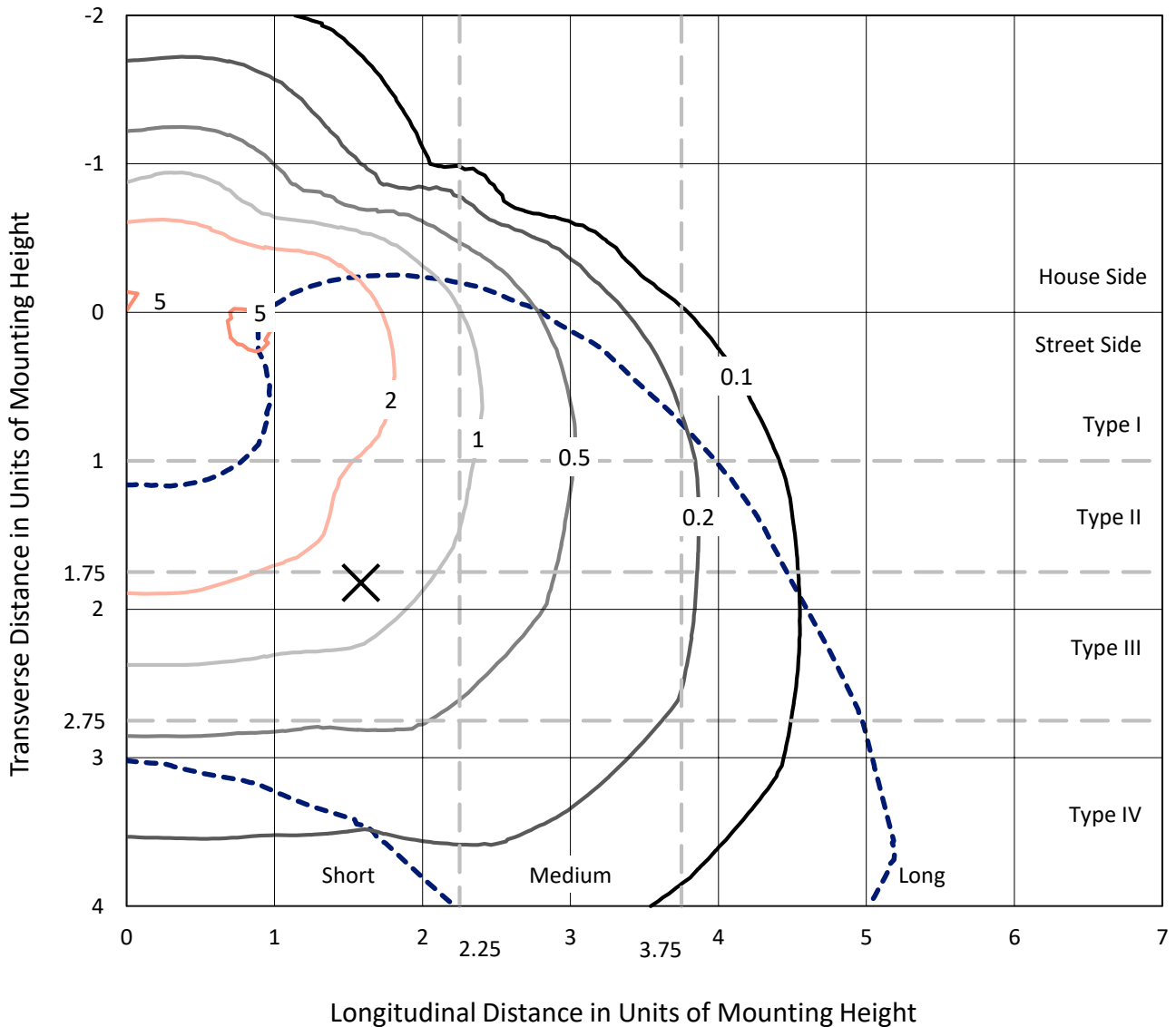
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

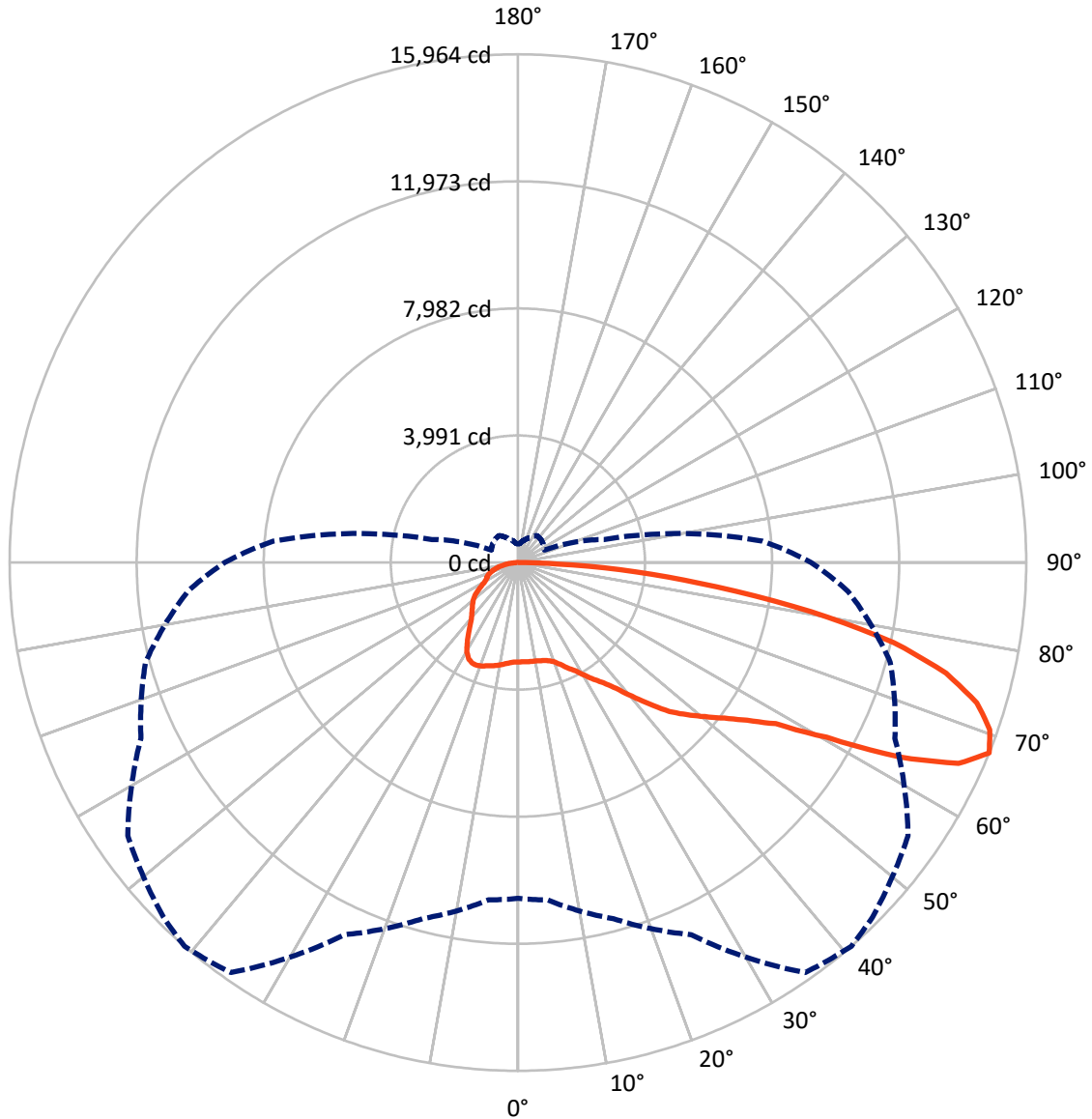
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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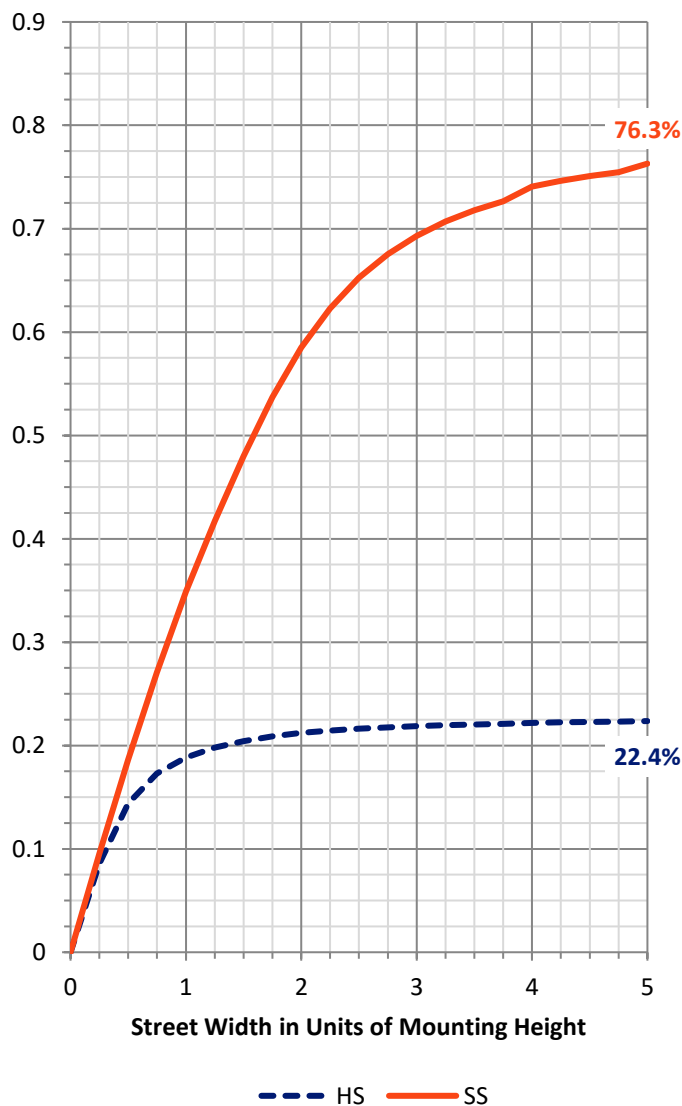
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6618.9	0.0	6618.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	22630.1	0.0	22630.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	29249.0	0.0	29249.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.8	1.0
10°-20°	935.9	3.2
20°-30°	1673.6	5.7
30°-40°	2624.3	9.0
40°-50°	4069.5	13.9
50°-60°	5737.0	19.6
60°-70°	7313.3	25.0
70°-80°	5472.8	18.7
80°-90°	1120.9	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°	29249.0	100.0
0°-180°	29249.0	100.0

**Coefficient of Utilization**



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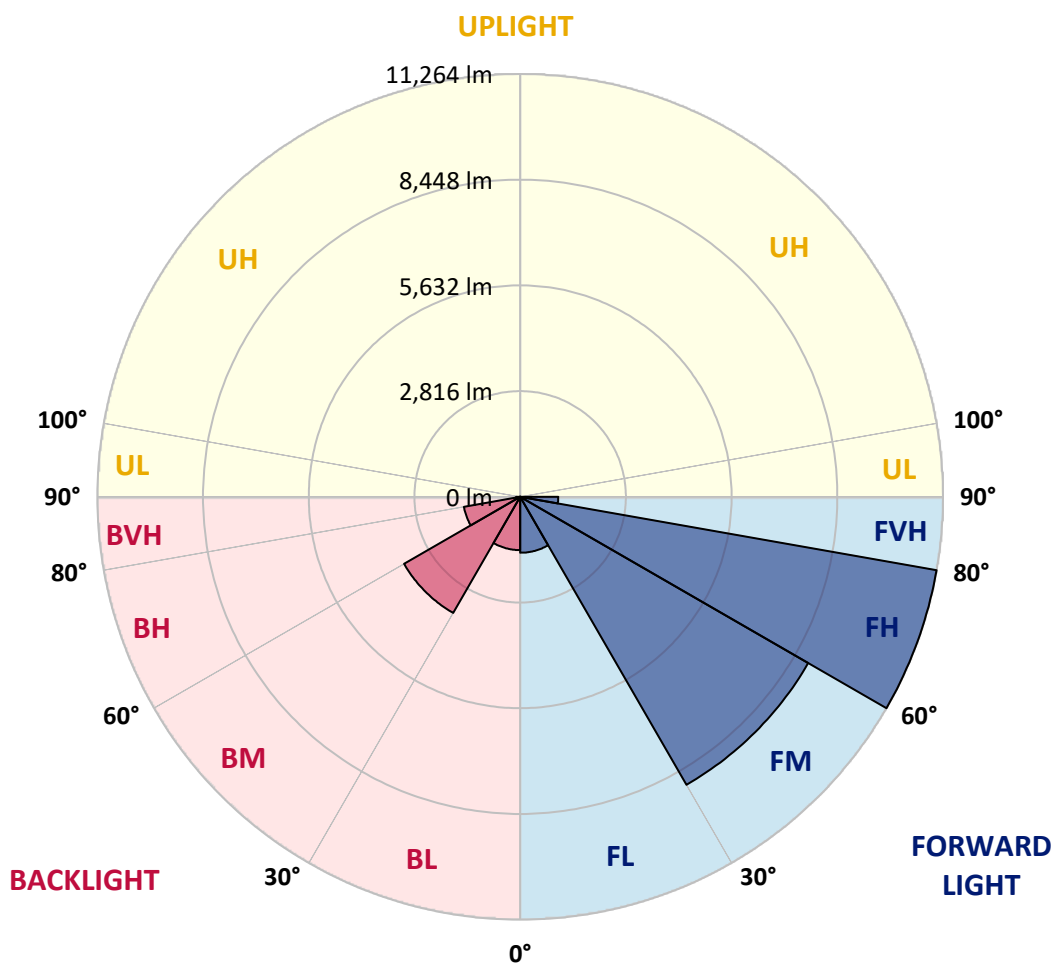
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.3	5.1			
FM (30°-60°)	8859.3	30.3			
FH (60°-80°)	11264.4	38.5			G4/12000
FVH (80°-90°)	1016.2	3.5			G5
BL (0°-30°)	1421.0	4.9	B3/2500		
BM (30°-60°)	3571.5	12.2	B3/5000		
BH (60°-80°)	1521.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	104.7	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°	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8
2.5°	3084.4	3120.2	3114.9	3108.3	3118.9	3120.2	3089.7	3101.7	3108.3	3118.9	3136.1
5°	3092.4	3128.1	3125.5	3113.6	3121.5	3125.5	3097.7	3118.9	3118.9	3122.8	3142.7
7.5°	3075.2	3109.6	3109.6	3105.6	3122.8	3138.7	3113.6	3132.1	3142.7	3153.3	3166.5
10°	3059.3	3088.4	3099.0	3096.4	3136.1	3140.0	3122.8	3167.8	3185.1	3195.6	3211.5
12.5°	3042.1	3077.8	3092.4	3106.9	3149.3	3163.9	3154.6	3200.9	3236.7	3255.2	3272.4
15°	3034.1	3073.9	3097.7	3118.9	3165.2	3191.7	3191.7	3261.8	3304.2	3328.0	3358.5
17.5°	3089.7	3130.8	3149.3	3166.5	3208.9	3244.6	3242.0	3324.1	3386.3	3423.3	3478.9
20°	3227.4	3276.4	3287.0	3293.6	3320.1	3333.3	3329.3	3418.0	3504.1	3574.2	3636.5
22.5°	3467.0	3496.1	3501.4	3475.0	3481.6	3492.2	3485.6	3534.5	3632.5	3714.6	3825.8
25°	3662.9	3709.3	3696.0	3657.6	3662.9	3677.5	3657.6	3733.1	3803.3	3910.5	4023.0
27.5°	3869.5	3903.9	3889.3	3865.5	3860.2	3849.6	3845.6	3942.3	4045.5	4130.2	4297.0
30°	4121.0	4139.5	4097.1	4086.6	4095.8	4102.4	4077.3	4200.4	4294.4	4416.2	4641.2
32.5°	4544.6	4561.8	4500.9	4338.1	4342.1	4372.5	4351.3	4506.2	4683.6	4831.9	5060.9
35°	5084.7	5084.7	5037.0	4808.0	4634.6	4635.9	4641.2	4859.7	5189.3	5521.6	5757.2
37.5°	5631.4	5650.0	5559.9	5350.8	5131.0	5014.5	4916.6	5197.2	5628.8	6370.1	6720.9
40°	6200.7	6229.8	6094.8	5902.8	5650.0	5517.6	5403.7	5574.5	6157.0	7210.7	7488.7
42.5°	6698.4	6739.4	6600.4	6397.9	6221.8	6072.3	5900.2	5969.0	6738.1	8009.0	8166.5
45°	7161.7	7184.2	7066.4	6899.6	6754.0	6671.9	6551.5	6630.9	7402.7	8790.0	8760.9
47.5°	7503.3	7536.4	7429.1	7339.1	7189.5	7140.6	7139.2	7357.7	8150.6	9412.2	9277.2
50°	8057.9	8032.8	7791.9	7682.0	7590.6	7606.5	7644.9	8022.2	9029.6	10011.9	9711.4
52.5°	8988.6	8942.2	8407.4	8178.4	8065.9	8117.5	8137.4	8624.5	9916.6	10529.5	10070.1
55°	10191.9	10043.6	9654.4	9040.2	8686.8	8735.7	8713.2	9271.9	10626.1	11023.3	10336.2
57.5°	10987.5	11126.5	10939.9	10589.0	9711.4	9551.2	9498.2	9912.6	11282.7	11495.8	10611.5
60°	11678.5	11908.9	12205.4	11980.4	11743.4	11143.7	10649.9	10640.7	11861.2	11810.9	10722.7
62.5°	12407.9	12529.7	12986.4	13125.4	13564.9	13455.1	12793.2	11562.0	12439.7	12041.2	10787.6
65°	11670.6	11833.4	12664.8	13423.3	15050.2	15209.1	14993.3	13275.0	12840.8	12159.1	10694.9
67.5°	10548.0	10638.0	11579.2	12895.1	15722.7	15963.7	15746.6	14956.2	13063.2	12107.4	10409.0
70°	9109.0	9214.9	10113.8	11908.9	15688.3	15720.1	15635.4	15111.1	12974.5	11865.2	9688.9
72.5°	7385.5	7519.2	8309.5	10173.4	14936.4	15074.1	14940.4	14804.0	12725.7	11187.4	8448.5
75°	5587.7	5765.1	6470.7	8110.9	13199.6	13893.2	13910.4	14331.4	11759.3	9590.9	6131.8
77.5°	3811.2	3980.7	4649.2	6179.5	10957.1	12065.1	12353.7	12814.3	9825.2	7087.6	3345.2
80°	2145.9	2130.0	2978.5	4414.9	8357.1	9330.1	9692.8	9674.3	6899.6	3639.1	681.8
82.5°	991.5	994.2	1523.7	2818.4	5657.9	6299.9	6446.9	5611.6	2421.2	616.9	217.1
85°	493.8	499.1	733.4	1413.8	3194.3	3690.7	3508.1	2335.2	518.9	180.0	129.7
87.5°	195.9	188.0	289.9	581.1	1153.0	1221.9	1067.0	467.3	94.0	63.5	43.7
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°	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8	3122.8
2.5°	3132.1	3134.7	3146.7	3122.8	3129.5	3124.2	3120.2	3141.4	3140.0	3144.0	3137.4
5°	3141.4	3148.0	3159.9	3149.3	3159.9	3154.6	3158.6	3187.7	3191.7	3190.3	3190.3
7.5°	3166.5	3173.1	3195.6	3182.4	3206.2	3199.6	3200.9	3228.7	3234.0	3226.1	3223.4
10°	3219.5	3224.8	3256.5	3253.9	3263.2	3257.9	3252.6	3264.5	3261.8	3249.9	3244.6
12.5°	3280.4	3294.9	3330.7	3332.0	3343.9	3317.4	3289.6	3285.7	3277.7	3259.2	3255.2
15°	3371.7	3388.9	3443.2	3430.0	3422.0	3365.1	3318.8	3281.7	3249.9	3234.0	3219.5
17.5°	3502.8	3531.9	3607.3	3566.3	3508.1	3424.7	3343.9	3263.2	3195.6	3138.7	3116.2
20°	3669.6	3702.7	3766.2	3711.9	3623.2	3498.8	3367.7	3222.1	3075.2	2949.4	2930.9
22.5°	3868.1	3921.1	3967.4	3843.0	3711.9	3554.4	3367.7	3158.6	2915.0	2727.0	2680.7
25°	4099.8	4140.8	4126.3	3951.5	3762.2	3563.7	3330.7	3046.1	2701.9	2483.4	2446.4
27.5°	4351.3	4369.9	4257.3	4003.2	3767.5	3509.4	3226.1	2846.2	2453.0	2280.9	2245.2
30°	4661.1	4605.5	4391.0	4034.9	3714.6	3388.9	3039.4	2553.6	2250.5	2099.5	2058.5
32.5°	4994.7	4892.8	4486.3	4012.4	3598.1	3187.7	2750.8	2347.1	2115.4	1931.4	1897.0
35°	5630.1	5340.2	4625.3	3944.9	3395.5	2919.0	2471.5	2188.2	1972.5	1775.2	1743.4
37.5°	6487.9	5983.6	4819.9	3850.9	3155.9	2658.2	2263.7	2018.8	1832.1	1628.3	1578.0
40°	7155.1	6633.5	5132.4	3750.3	2934.9	2410.6	2112.8	1930.1	1739.5	1522.4	1478.7
42.5°	7790.5	7227.9	5516.3	3637.8	2707.2	2238.5	2046.6	1910.2	1714.3	1493.2	1452.2
45°	8351.8	7708.5	5847.2	3525.3	2450.3	2079.7	1997.6	1871.8	1678.6	1456.2	1416.5
47.5°	8805.9	8121.5	6134.5	3403.5	2217.4	1959.2	1934.1	1801.7	1609.7	1380.7	1333.1
50°	9216.3	8471.0	6333.0	3273.7	1989.7	1861.3	1829.5	1673.3	1473.4	1270.8	1240.4
52.5°	9469.1	8707.9	6452.2	3294.9	1773.9	1751.4	1699.8	1539.6	1354.2	1180.8	1141.1
55°	9733.9	8931.7	6450.9	3175.8	1593.9	1585.9	1536.9	1413.8	1268.2	1122.6	1098.8
57.5°	9842.4	8951.5	6330.4	2615.8	1435.0	1384.7	1374.1	1309.2	1182.1	1044.5	1018.0
60°	9915.2	8864.1	6102.7	1785.8	1235.1	1199.4	1251.0	1207.3	1092.1	947.8	921.4
62.5°	9843.7	8768.8	5505.7	1289.4	1082.9	1102.7	1151.7	1104.0	983.6	852.5	830.0
65°	9673.0	8404.8	4347.3	1004.8	1015.4	1059.0	1097.4	1018.0	796.9	667.2	654.0
67.5°	9207.0	7712.4	2797.2	921.4	977.0	1022.0	1035.2	861.8	721.5	597.0	582.5
70°	8226.1	6191.4	1077.6	868.4	938.6	958.4	904.2	790.3	663.2	556.0	542.8
72.5°	6435.0	4065.4	622.2	794.3	856.5	838.0	839.3	709.6	598.4	496.4	485.8
75°	3999.2	1472.1	553.3	706.9	725.4	759.9	716.2	615.6	515.0	454.1	440.8
77.5°	1322.5	418.3	512.3	608.9	650.0	624.8	599.7	525.5	440.8	393.2	386.5
80°	320.4	313.7	459.4	476.6	509.7	467.3	464.7	436.9	372.0	344.2	337.6
82.5°	197.2	225.0	365.4	296.5	340.2	344.2	391.8	360.1	271.4	282.0	272.7
85°	121.8	173.4	192.0	143.0	144.3	193.3	234.3	217.1	162.8	153.6	152.2
87.5°	41.0	35.7	41.0	30.4	41.0	70.2	105.9	100.6	67.5	46.3	43.7
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)