

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: P509189

Luminaire Tested: **VERD-CA2-120-760-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-760-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16995 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

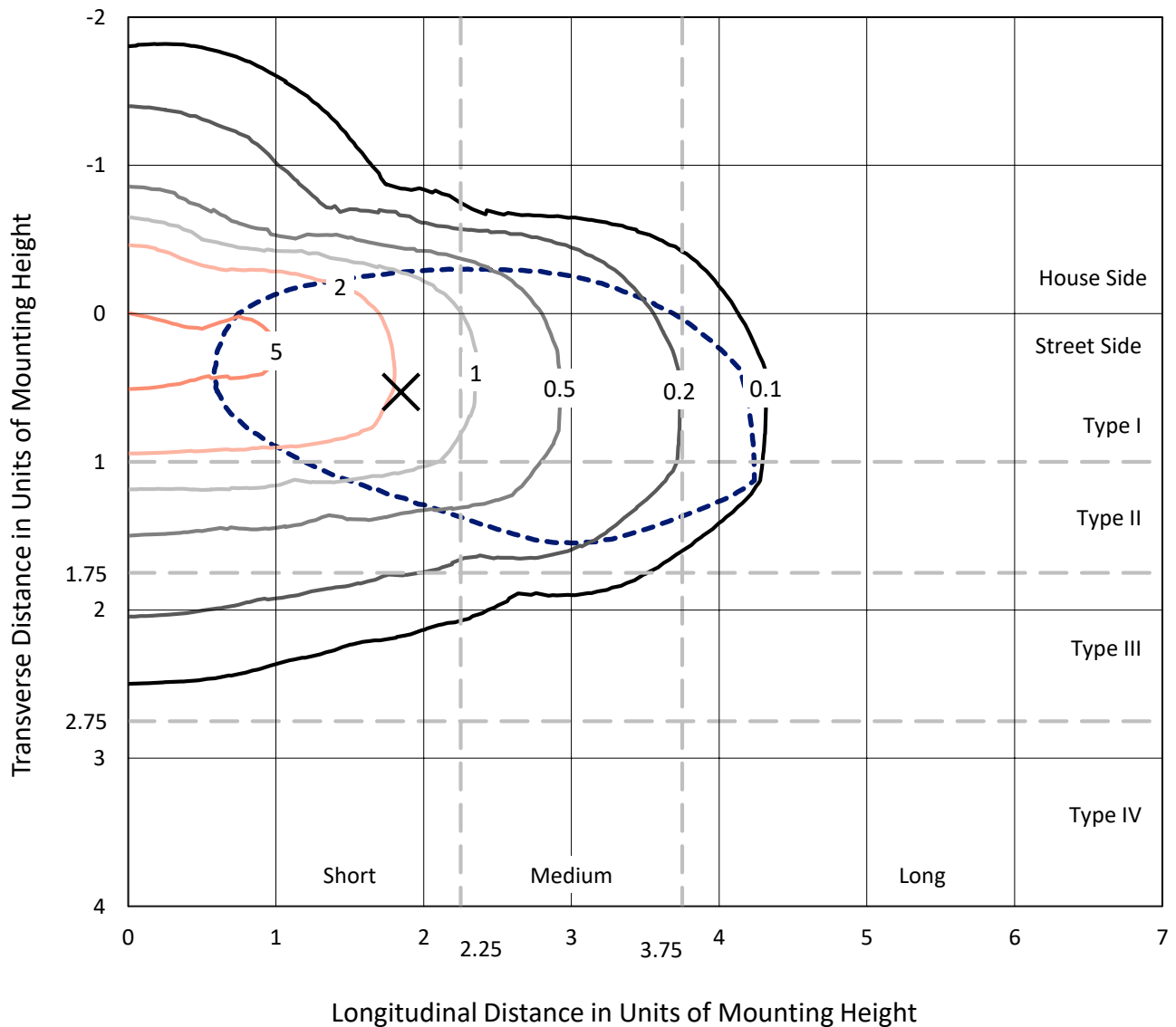
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509189
 CATALOG NUMBER: VERD-CA2-120-760-U-T2

Iso-Footcandle Lines of Horizontal Illumination

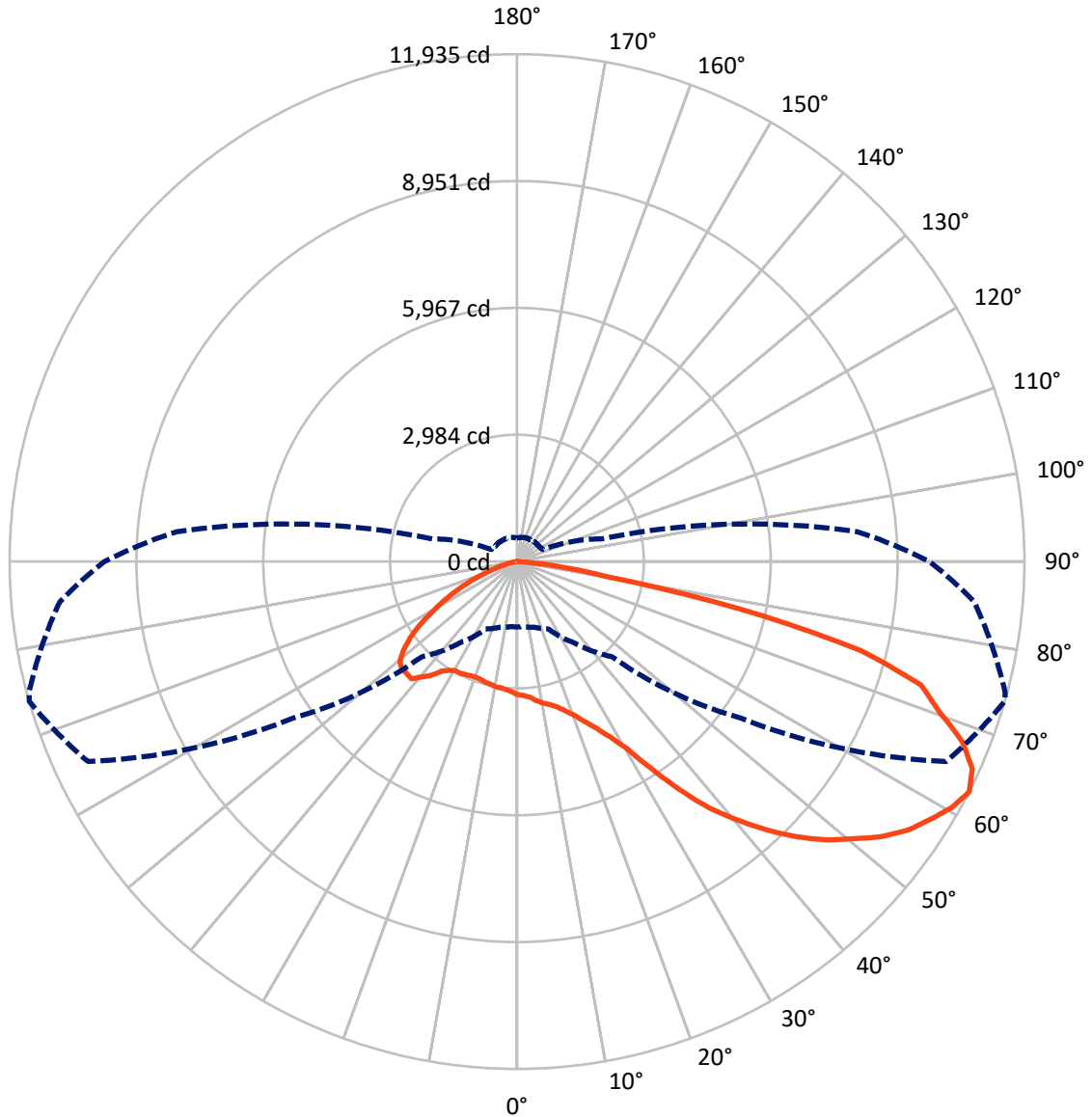
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P509189
CATALOG NUMBER: VERD-CA2-120-760-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509189

CATALOG NUMBER: VERD-CA2-120-760-U-T2

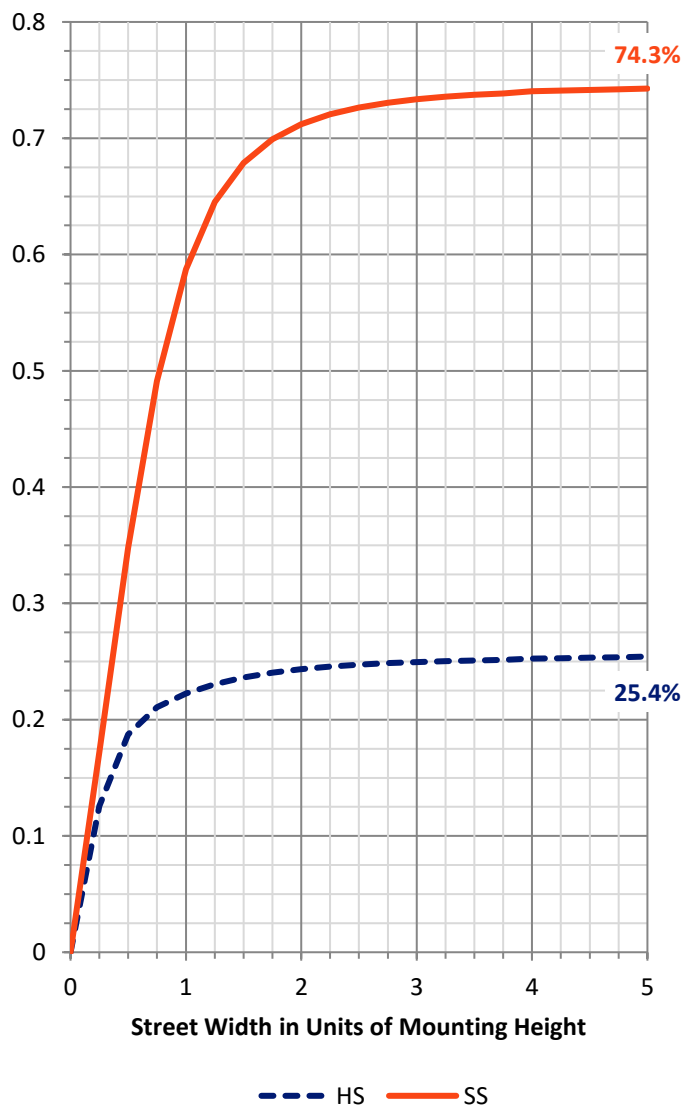
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4388.2	0.0	4388.2
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	12606.8	0.0	12606.8
	% Fixture	74.2	0.0	74.2
Total	Lumens	16995.0	0.0	16995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	1.8
10°-20°	918.1	5.4
20°-30°	1548.1	9.1
30°-40°	2261.9	13.3
40°-50°	3011.7	17.7
50°-60°	3465.9	20.4
60°-70°	3349.2	19.7
70°-80°	1928.1	11.3
80°-90°	210.9	1.2
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°	16995.0	100.0
0°-180°	16995.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509189

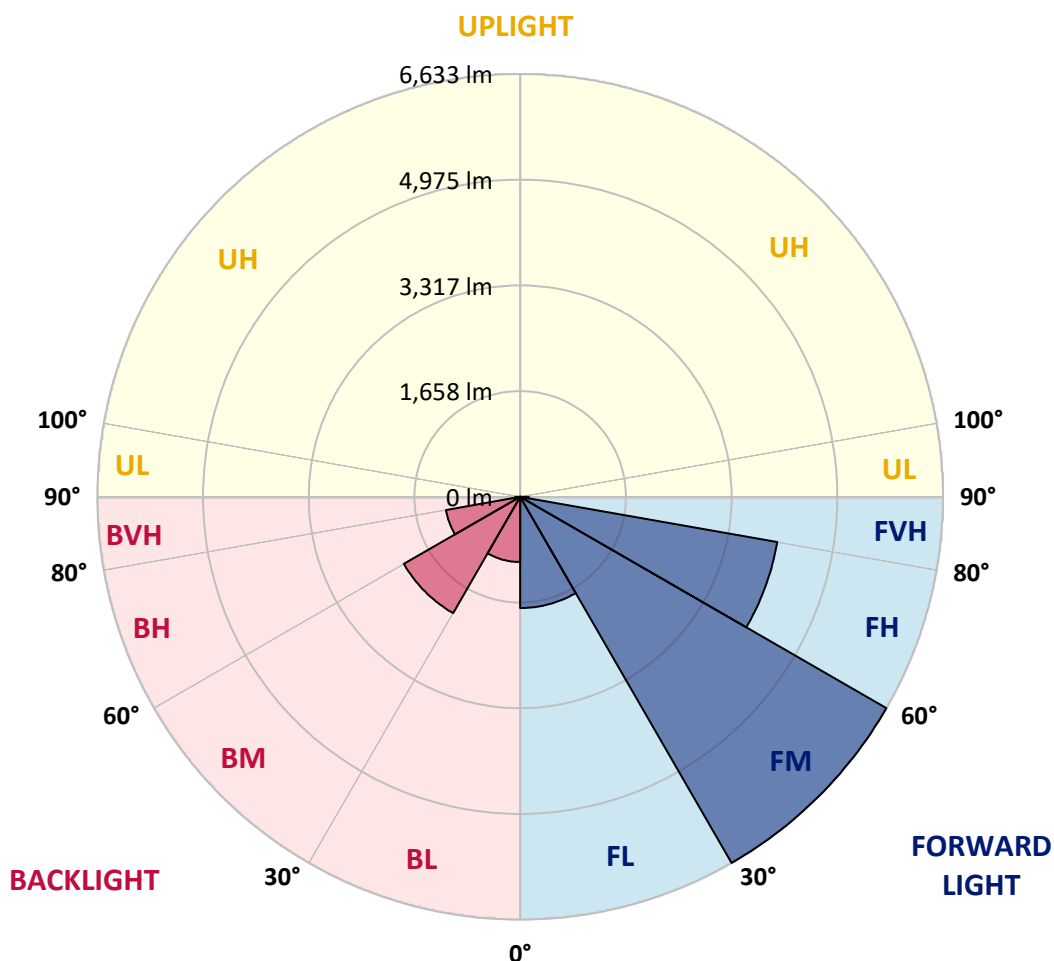
CATALOG NUMBER: VERD-CA2-120-760-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.3	10.3			
FM (30°-60°)	6633.2	39.0			
FH (60°-80°)	4095.9	24.1			G2/5000
FVH (80°-90°)	133.4	0.8			G2/225
BL (0°-30°)	1023.1	6.0	B3/2500		
BM (30°-60°)	2106.3	12.4	B2/2500		
BH (60°-80°)	1181.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	77.5	0.5			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 II Short





REPORT NUMBER: P509189

CATALOG NUMBER: VERD-CA2-120-760-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8
2.5°	3354.3	3330.2	3315.4	3298.7	3278.3	3270.9	3226.4	3187.5	3156.0	3157.9	3137.5
5°	3476.6	3450.7	3417.3	3411.8	3385.8	3380.3	3337.6	3276.5	3207.9	3198.7	3137.5
7.5°	3613.8	3598.9	3578.6	3552.6	3510.0	3482.2	3421.0	3372.9	3302.4	3293.2	3172.7
10°	3780.6	3769.4	3754.6	3754.6	3699.0	3639.7	3565.6	3445.1	3389.5	3380.3	3233.9
12.5°	3977.0	3943.6	3895.5	3867.7	3815.8	3778.7	3699.0	3571.1	3450.7	3447.0	3291.3
15°	4104.9	4077.1	4045.6	4034.5	3967.7	3906.6	3821.3	3719.4	3550.8	3537.8	3361.7
17.5°	4247.6	4221.6	4184.6	4164.2	4121.6	4051.1	3975.1	3841.7	3691.6	3678.6	3441.4
20°	4327.3	4299.5	4288.3	4292.0	4277.2	4242.0	4151.2	4030.7	3858.4	3841.7	3550.8
22.5°	4416.2	4397.7	4401.4	4429.2	4457.0	4444.0	4373.6	4240.2	4091.9	4066.0	3726.8
25°	4418.1	4403.2	4453.3	4560.8	4620.1	4649.7	4612.7	4503.3	4345.8	4321.7	3951.1
27.5°	4449.6	4427.3	4481.1	4594.1	4773.9	4835.0	4848.0	4807.2	4672.0	4642.3	4219.8
30°	4368.0	4353.2	4434.7	4631.2	4842.5	5046.3	5120.4	5183.4	5107.5	5109.3	4634.9
32.5°	4227.2	4201.2	4325.4	4566.3	4959.2	5237.2	5433.6	5687.5	5804.3	5793.2	5357.6
35°	3958.5	3973.3	4140.1	4508.9	4962.9	5431.8	5817.2	6271.3	6588.2	6580.8	6106.3
37.5°	3767.6	3760.2	3956.6	4347.6	4961.1	5604.1	6189.7	6945.9	7355.4	7344.3	6749.4
40°	3537.8	3539.6	3736.1	4147.5	4874.0	5711.6	6575.2	7585.2	8002.2	7985.5	7364.7
42.5°	3291.3	3298.7	3482.2	3902.9	4753.5	5793.2	6919.9	8232.0	8636.0	8650.8	7857.6
45°	3070.8	3074.5	3256.1	3641.6	4540.4	5802.4	7229.4	8843.5	9236.4	9201.2	8374.7
47.5°	2746.5	2750.2	3018.9	3393.2	4258.7	5726.4	7485.1	9425.5	9785.0	9710.9	8812.0
50°	2151.6	2159.0	2477.8	3135.6	3915.8	5552.2	7687.1	9972.2	10250.1	10218.6	9260.5
52.5°	1986.6	1981.1	2114.5	2828.0	3608.2	5237.2	7815.0	10463.3	10744.9	10741.2	9631.2
55°	1903.3	1897.7	1942.2	2292.4	3306.1	4770.2	7811.3	10845.0	11154.5	11078.5	9970.3
57.5°	1755.0	1743.9	1858.8	2031.1	2968.9	4188.3	7626.0	11187.9	11451.0	11428.8	10276.1
60°	1649.4	1640.1	1717.9	1877.3	2609.3	3597.1	7149.7	11365.8	11749.4	11758.7	10533.7
62.5°	1540.0	1534.5	1601.2	1749.4	2327.6	3165.3	6415.8	11132.3	11934.7	11884.7	10791.3
65°	1415.9	1412.2	1475.2	1595.6	2047.8	2837.3	5696.8	10715.3	11767.9	11825.4	10824.6
67.5°	1267.6	1265.7	1326.9	1410.3	1742.0	2507.4	4596.0	10224.2	11291.6	11228.6	10396.5
70°	1086.0	1078.6	1154.6	1232.4	1458.5	2133.1	3576.7	9351.3	10517.0	10744.9	9544.1
72.5°	913.6	909.9	982.2	1039.7	1208.3	1742.0	2609.3	8087.4	9936.9	9608.9	8598.9
75°	715.3	696.8	772.8	826.5	952.6	1386.2	1779.1	5402.1	8363.6	8295.0	7223.8
77.5°	289.1	335.4	400.3	448.5	531.9	785.8	930.3	2563.0	5335.4	5570.8	5024.1
80°	111.2	118.6	285.4	322.5	357.7	452.2	357.7	1080.4	2105.3	2296.1	2909.5
82.5°	63.0	70.4	140.8	135.3	133.4	114.9	133.4	530.0	1099.0	1204.6	1404.7
85°	35.2	38.9	57.4	63.0	53.7	46.3	40.8	139.0	274.3	259.5	291.0
87.5°	5.6	7.4	9.3	9.3	5.6	5.6	5.6	7.4	7.4	7.4	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509189

CATALOG NUMBER: VERD-CA2-120-760-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8
2.5°	3117.1	3096.7	3076.3	3052.2	3022.6	3004.1	2996.7	3005.9	3031.9	3000.4	2974.4
5°	3106.0	3078.2	3031.9	2985.5	2948.5	2917.0	2874.3	2870.6	2878.0	2865.1	2831.7
7.5°	3130.1	3089.3	2994.8	2963.3	2885.5	2811.3	2787.2	2778.0	2755.7	2729.8	2698.3
10°	3178.3	3094.9	2998.5	2905.8	2833.6	2753.9	2661.2	2663.1	2653.8	2624.2	2594.5
12.5°	3202.4	3104.1	2963.3	2865.1	2753.9	2655.7	2564.9	2524.1	2540.8	2516.7	2485.2
15°	3246.8	3143.1	2950.3	2805.8	2653.8	2542.6	2474.0	2414.7	2377.7	2383.2	2364.7
17.5°	3330.2	3178.3	2917.0	2740.9	2576.0	2444.4	2312.8	2307.3	2251.7	2220.2	2192.4
20°	3417.3	3241.3	2913.3	2670.5	2450.0	2286.9	2181.2	2121.9	2088.6	2062.6	2042.2
22.5°	3530.4	3328.4	2926.2	2629.7	2336.9	2153.4	2018.2	1938.5	1884.7	1866.2	1851.4
25°	3689.8	3437.7	2961.4	2557.4	2218.3	2007.0	1823.6	1740.2	1679.0	1664.2	1653.1
27.5°	3908.4	3576.7	2996.7	2479.6	2079.3	1801.3	1606.7	1525.2	1456.6	1454.8	1434.4
30°	4253.1	3789.8	3009.6	2411.0	1931.1	1580.8	1386.2	1310.2	1258.3	1237.9	1252.8
32.5°	4896.2	4260.5	3091.2	2305.4	1743.9	1365.8	1200.9	1139.7	1082.3	1060.0	1074.9
35°	5591.2	4823.9	3228.3	2233.1	1538.2	1162.0	1048.9	976.6	906.2	895.1	889.5
37.5°	6100.8	5337.3	3487.8	2114.5	1343.6	1037.8	889.5	830.2	789.5	767.2	787.6
40°	6679.0	5763.5	3684.2	1988.5	1145.3	906.2	741.3	722.8	704.2	689.4	711.6
42.5°	7136.7	6202.7	3917.7	1821.7	985.9	769.1	659.7	674.6	683.8	676.4	678.3
45°	7557.4	6528.9	3932.5	1567.8	841.4	667.2	635.7	665.3	687.5	683.8	682.0
47.5°	7968.8	6918.1	3967.7	1299.1	737.6	641.2	637.5	659.7	689.4	695.0	695.0
50°	8393.2	7214.6	3914.0	1045.2	698.7	644.9	643.1	641.2	678.3	680.1	685.7
52.5°	8712.0	7455.5	3660.1	863.6	696.8	656.0	652.3	633.8	650.5	663.5	654.2
55°	9049.3	7755.7	3339.5	795.0	693.1	659.7	674.6	643.1	631.9	620.8	631.9
57.5°	9369.9	7965.1	2918.8	754.3	678.3	654.2	683.8	641.2	617.1	585.6	574.5
60°	9616.3	8013.3	2450.0	711.6	659.7	641.2	643.1	628.2	596.7	557.8	541.1
62.5°	9699.7	8041.1	2060.8	670.9	622.7	620.8	606.0	600.4	587.5	563.4	556.0
65°	9629.3	7726.1	1645.7	620.8	591.2	593.0	570.8	552.3	522.6	483.7	480.0
67.5°	9145.6	7171.9	1262.0	557.8	543.0	561.5	537.4	505.9	472.6	446.6	450.3
70°	8317.2	6515.9	885.8	470.7	487.4	520.8	511.5	470.7	433.7	411.4	415.1
72.5°	7396.2	5520.7	602.3	366.9	396.6	467.0	467.0	439.2	402.1	372.5	365.1
75°	5833.9	4336.5	389.2	242.8	261.3	381.8	413.3	370.6	329.9	311.3	303.9
77.5°	3960.3	2824.3	248.3	139.0	174.2	250.2	326.2	331.7	391.0	392.9	376.2
80°	2327.6	1616.0	152.0	81.5	87.1	144.6	261.3	328.0	415.1	292.8	268.7
82.5°	1158.3	689.4	68.6	50.0	51.9	72.3	140.8	376.2	320.6	183.5	176.1
85°	257.6	113.0	27.8	25.9	29.7	37.1	72.3	311.3	196.4	148.3	144.6
87.5°	9.3	7.4	7.4	7.4	5.6	5.6	14.8	101.9	77.8	64.9	61.2
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)