

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: P553603

Luminaire Tested: **VERD-G-CA2-160-727-U-T3**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-727-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1460mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19236 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

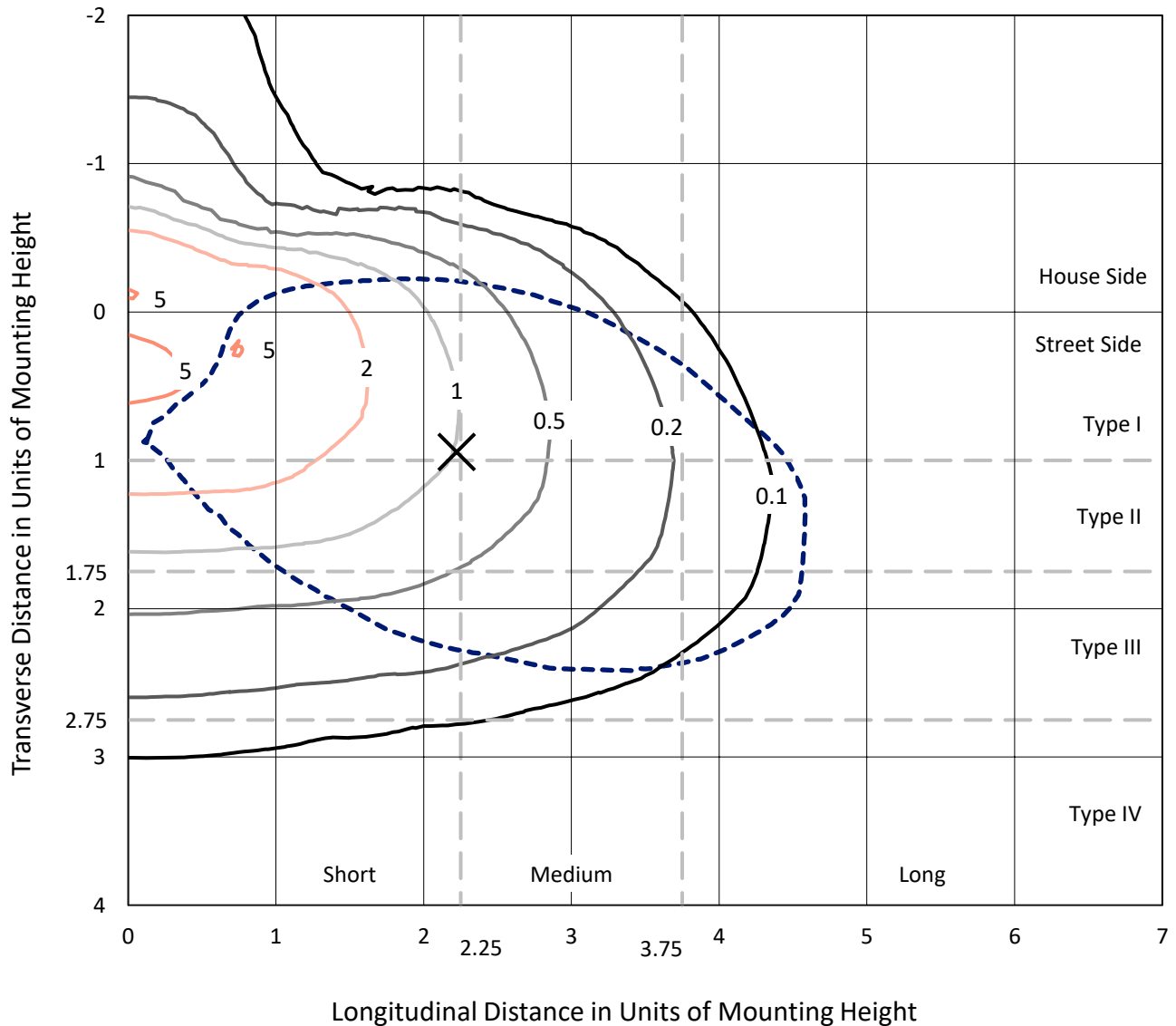
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553603
 CATALOG NUMBER: VERD-G-CA2-160-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

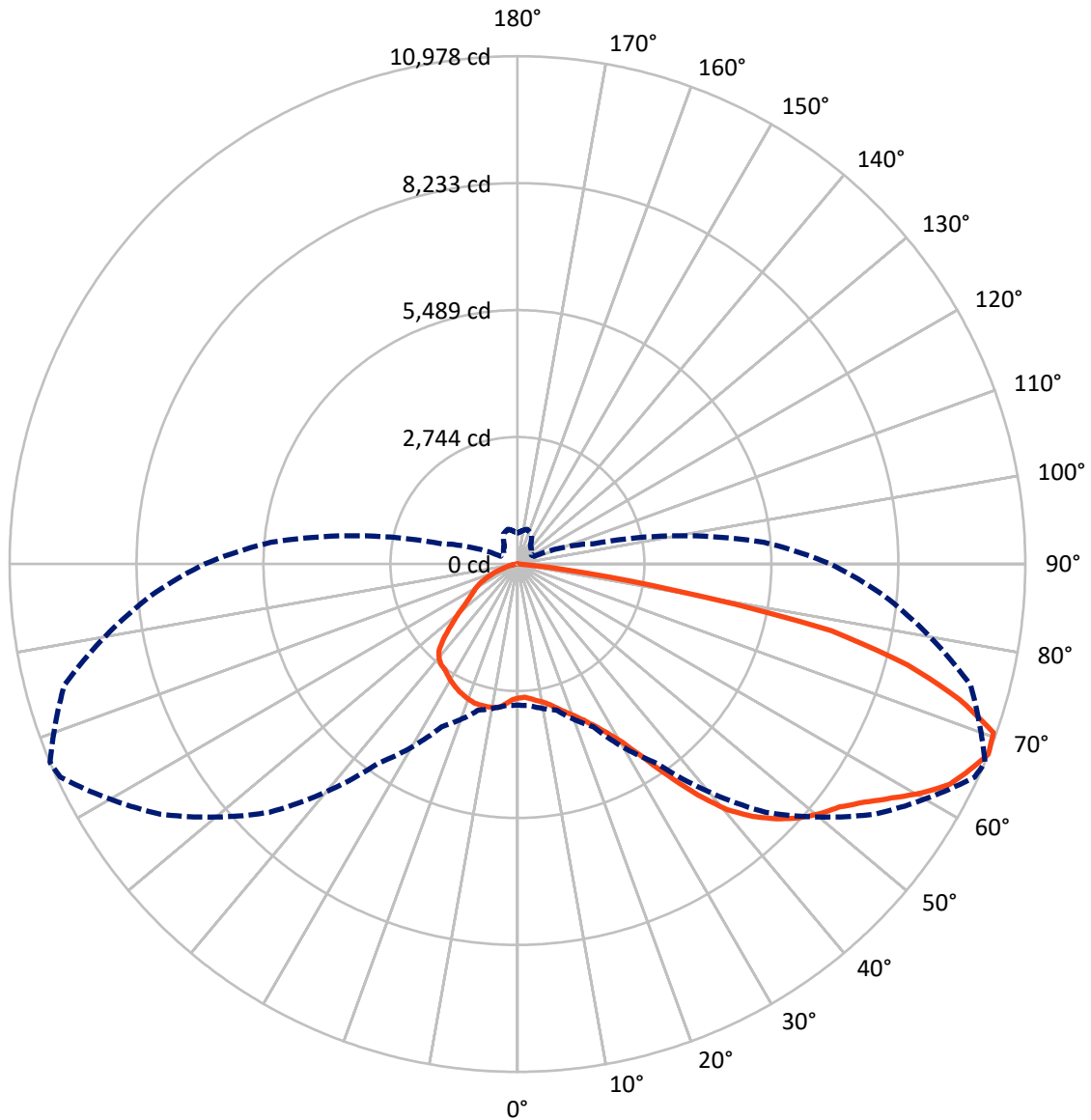
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

REPORT NUMBER: P553603
CATALOG NUMBER: VERD-G-CA2-160-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P553603

CATALOG NUMBER: VERD-G-CA2-160-727-U-T3

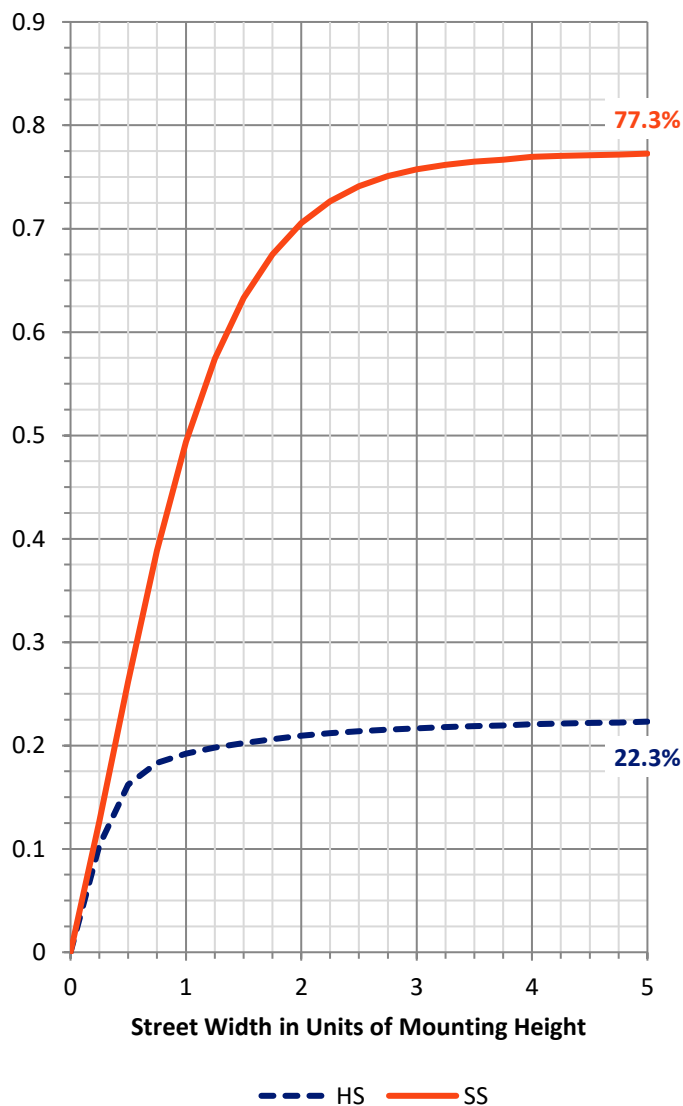
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4364.7	0.0	4364.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	14871.3	0.0	14871.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	19236.0	0.0	19236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	1.5
10°-20°	929.8	4.8
20°-30°	1594.7	8.3
30°-40°	2373.2	12.3
40°-50°	3244.7	16.9
50°-60°	3897.5	20.3
60°-70°	4134.7	21.5
70°-80°	2525.8	13.1
80°-90°	241.9	1.3
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°	19236.0	100.0
0°-180°	19236.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553603

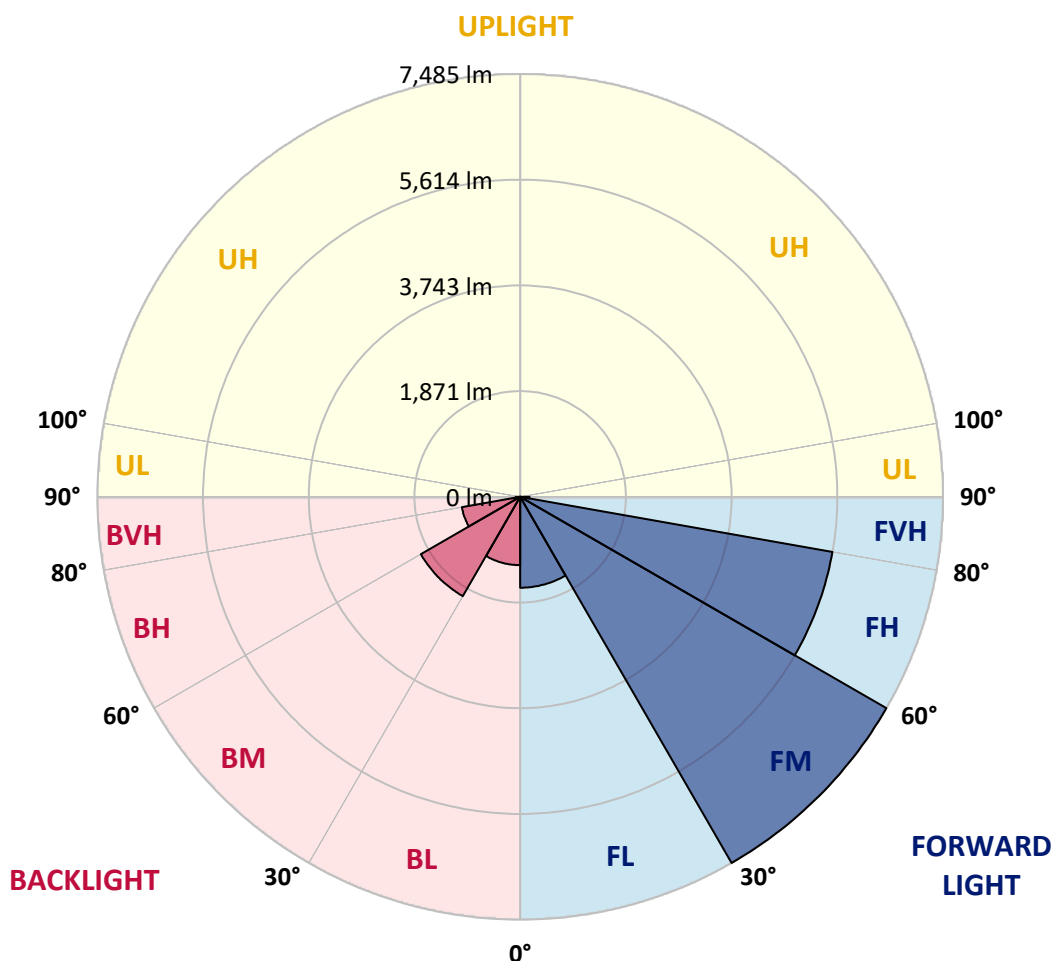
CATALOG NUMBER: VERD-G-CA2-160-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1608.9	8.4			
FM	(30°-60°)	7485.1	38.9			
FH	(60°-80°)	5612.5	29.2			G3/7500
FVH	(80°-90°)	164.7	0.9			G2/225
BL	(0°-30°)	1209.3	6.3	B3/2500		
BM	(30°-60°)	2030.3	10.6	B2/2500		
BH	(60°-80°)	1048.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	77.2	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 Short





REPORT NUMBER: P553603

CATALOG NUMBER: VERD-G-CA2-160-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3
2.5°	2946.1	2960.2	2937.2	2921.9	2905.4	2914.3	2892.6	2892.6	2882.4	2899.0	2888.8
5°	3041.7	3054.5	3014.9	2983.1	2980.5	2953.8	2951.2	2938.5	2923.2	2937.2	2951.2
7.5°	3169.1	3164.0	3136.0	3099.1	3062.1	3046.8	3021.3	3002.2	2979.3	2992.0	2995.8
10°	3324.6	3315.7	3278.7	3220.1	3190.8	3148.7	3085.0	3049.4	3032.8	3045.5	3049.4
12.5°	3490.3	3478.8	3443.1	3378.1	3327.1	3260.9	3188.3	3130.9	3119.4	3106.7	3128.4
15°	3676.3	3655.9	3625.3	3573.1	3494.1	3407.4	3308.0	3253.2	3236.7	3215.0	3204.8
17.5°	3877.6	3875.1	3835.6	3778.2	3698.0	3578.2	3450.8	3365.4	3365.4	3356.5	3301.7
20°	4094.3	4084.1	4044.6	4012.7	3899.3	3773.1	3617.7	3509.4	3497.9	3480.1	3389.6
22.5°	4312.2	4313.4	4262.5	4238.3	4154.2	3992.3	3796.1	3687.8	3664.8	3640.6	3483.9
25°	4509.7	4512.2	4496.9	4452.3	4383.5	4234.4	4029.3	3885.3	3872.5	3839.4	3649.5
27.5°	4709.7	4741.6	4697.0	4702.1	4671.5	4500.8	4295.6	4121.0	4133.8	4061.1	3801.2
30°	4946.8	4958.2	4936.6	4942.9	4923.8	4811.7	4612.9	4471.5	4471.5	4388.6	4058.6
32.5°	5136.6	5126.4	5127.7	5194.0	5202.9	5141.7	4978.6	4932.7	4972.2	4962.1	4665.1
35°	5230.9	5248.8	5298.5	5450.1	5524.0	5487.1	5467.9	5529.1	5628.5	5692.2	5327.8
37.5°	5352.0	5406.8	5469.2	5638.7	5775.0	5877.0	5981.5	6182.8	6325.5	6408.4	5957.3
40°	5476.9	5482.0	5606.8	5817.1	6083.4	6245.3	6493.7	6840.3	6980.5	6918.1	6306.4
42.5°	5380.0	5392.8	5566.1	5940.7	6274.6	6688.7	6957.6	7357.7	7454.5	7264.7	6667.0
45°	5255.1	5279.3	5498.5	5940.7	6484.8	7095.2	7402.3	7848.3	7859.8	7603.6	6884.9
47.5°	5144.3	5164.7	5395.3	5894.8	6682.3	7452.0	7760.4	8123.5	8201.3	7880.2	7174.2
50°	4996.5	5047.4	5274.3	5854.0	6774.1	7700.5	8077.7	8454.9	8481.6	8141.4	7390.8
52.5°	4835.9	4880.5	5159.6	5777.6	6891.3	7905.6	8287.9	8773.4	8723.7	8490.5	7634.2
55°	4619.3	4658.8	4981.2	5655.3	6905.3	8016.5	8439.6	9069.1	9088.2	8781.1	7870.0
57.5°	4370.8	4437.0	4730.1	5428.4	6776.6	8049.6	8700.8	9469.2	9543.1	9140.4	8058.6
60°	4101.9	4154.2	4486.7	5187.6	6605.9	8174.5	9058.9	9987.8	10046.4	9453.9	8135.0
62.5°	3826.7	3870.0	4145.2	4825.7	6292.4	8198.7	9371.1	10509.0	10489.9	9733.0	8240.8
65°	3483.9	3487.7	3747.7	4388.6	5856.6	8025.4	9531.6	10720.5	10739.6	9986.5	8119.7
67.5°	3048.1	3072.3	3269.8	3878.9	5262.8	7589.6	9429.7	10902.8	10977.9	10143.3	7965.5
70°	2427.5	2441.5	2648.0	3215.0	4474.0	6915.5	9236.0	10930.8	10914.2	9940.7	7541.2
72.5°	1726.7	1780.2	1919.1	2260.6	3432.9	5660.4	8360.6	10065.5	9989.1	9158.3	6726.9
75°	1109.9	1115.0	1253.9	1476.9	2009.5	4012.7	6969.0	8676.6	8708.4	7943.9	5476.9
77.5°	367.0	414.1	460.0	623.1	833.4	1670.6	4704.6	6839.1	6935.9	6258.0	3737.5
80°	161.8	161.8	274.0	353.0	449.8	716.1	1877.0	3095.2	3392.1	2918.1	1439.9
82.5°	118.5	121.1	183.5	210.3	177.1	298.2	674.1	991.4	1051.3	944.2	572.2
85°	67.5	70.1	79.0	90.5	75.2	121.1	149.1	152.9	154.2	133.8	104.5
87.5°	30.6	30.6	28.0	24.2	14.0	8.9	8.9	6.4	7.6	6.4	5.1
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: P553603

CATALOG NUMBER: VERD-G-CA2-160-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3	2900.3
2.5°	2885.0	2897.7	2925.8	2930.8	2943.6	2962.7	2986.9	2998.4	3036.6	3054.5	3059.5
5°	2953.8	2960.2	3008.6	3025.1	3082.5	3111.8	3137.3	3155.1	3202.3	3213.7	3234.1
7.5°	3006.0	3027.7	3086.3	3123.3	3158.9	3189.5	3187.0	3229.0	3253.2	3272.4	3280.0
10°	3059.5	3071.0	3130.9	3147.5	3174.2	3197.2	3203.5	3215.0	3221.4	3248.1	3257.1
12.5°	3142.4	3134.7	3142.4	3156.4	3178.1	3173.0	3187.0	3170.4	3179.3	3213.7	3201.0
15°	3203.5	3185.7	3152.6	3153.8	3139.8	3133.5	3113.1	3099.1	3097.8	3105.4	3118.2
17.5°	3272.4	3220.1	3158.9	3142.4	3090.1	3039.2	3003.5	2965.3	2958.9	2966.5	2957.6
20°	3332.2	3262.2	3156.4	3104.1	3002.2	2910.5	2858.2	2800.9	2798.3	2793.2	2783.0
22.5°	3404.9	3317.0	3155.1	3049.4	2928.3	2780.5	2672.2	2628.8	2576.6	2597.0	2594.4
25°	3513.2	3403.6	3166.6	2990.7	2794.5	2618.6	2479.8	2384.2	2331.9	2320.5	2325.6
27.5°	3647.0	3501.7	3173.0	2916.8	2672.2	2421.1	2200.7	2056.7	2024.8	1982.8	1986.6
30°	3842.0	3635.5	3203.5	2835.3	2492.5	2168.8	1906.3	1719.0	1665.5	1674.4	1677.0
32.5°	4302.0	3910.8	3225.2	2741.0	2295.0	1889.8	1547.0	1359.7	1317.6	1332.9	1341.8
35°	4906.0	4438.3	3343.7	2619.9	2070.7	1563.5	1186.4	1080.6	1089.5	1118.8	1126.5
37.5°	5504.9	4997.7	3604.9	2514.2	1784.0	1196.6	946.8	884.4	936.6	964.6	973.6
40°	5873.2	5369.8	3892.9	2351.0	1419.5	879.3	721.2	685.6	745.5	810.4	842.3
42.5°	6245.3	5674.4	4080.2	2152.3	1015.6	639.7	536.5	565.8	663.9	728.9	744.2
45°	6482.3	5831.1	4098.1	1836.2	676.6	495.7	489.3	551.8	652.4	704.7	713.6
47.5°	6712.9	6041.4	4022.9	1470.5	509.7	471.5	485.5	558.1	657.5	716.1	714.9
50°	6942.3	6247.8	3859.8	1167.2	481.7	456.2	493.1	570.9	666.4	711.0	711.0
52.5°	7082.5	6349.7	3532.3	929.0	463.8	447.3	497.0	576.0	657.5	683.0	679.2
55°	7250.7	6374.0	3311.9	773.5	444.7	440.9	504.6	590.0	656.3	658.8	649.9
57.5°	7338.6	6314.1	3132.2	657.5	428.2	443.4	513.5	593.8	693.2	723.8	728.9
60°	7300.4	6241.4	2928.3	584.9	412.9	439.6	511.0	623.1	807.9	871.6	860.1
62.5°	7263.4	6105.1	2585.5	525.0	396.3	442.2	508.4	690.7	949.3	883.1	847.4
65°	7129.6	5822.2	2139.5	467.7	375.9	443.4	503.3	763.3	972.3	892.0	830.8
67.5°	6762.6	5350.7	1692.2	406.5	351.7	425.6	491.9	717.4	778.6	700.9	667.7
70°	6215.9	4667.7	1160.9	351.7	322.4	403.9	484.2	679.2	731.4	676.6	634.6
72.5°	5334.1	3667.4	643.5	294.4	282.9	377.2	483.0	670.3	736.5	579.8	533.9
75°	4056.0	2432.6	418.0	230.6	231.9	336.4	460.0	639.7	713.6	545.4	483.0
77.5°	2389.3	1024.5	291.8	164.4	180.9	261.2	409.0	612.9	675.4	533.9	483.0
80°	811.7	451.1	189.9	110.9	110.9	166.9	291.8	500.8	601.5	519.9	514.8
82.5°	421.8	286.7	121.1	68.8	63.7	80.3	179.7	344.1	483.0	440.9	502.1
85°	84.1	59.9	38.2	28.0	30.6	40.8	63.7	174.6	305.8	340.2	407.8
87.5°	6.4	5.1	7.6	7.6	7.6	7.6	8.9	43.3	122.3	150.4	186.0
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)