

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: P509887

Luminaire Tested: **VERD-M-CA3-160-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-160-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1000mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22947 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

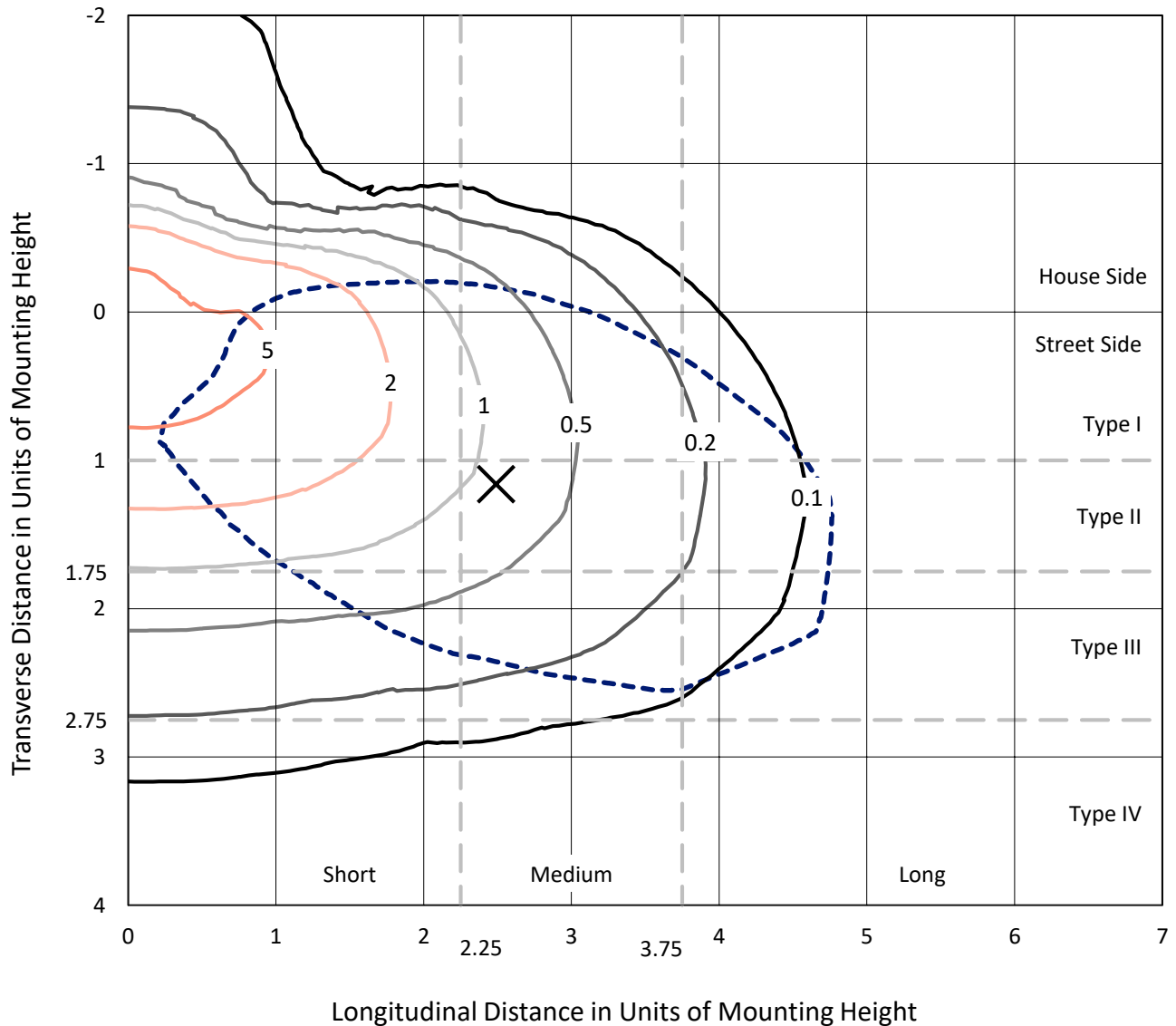
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509887
 CATALOG NUMBER: VERD-M-CA3-160-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

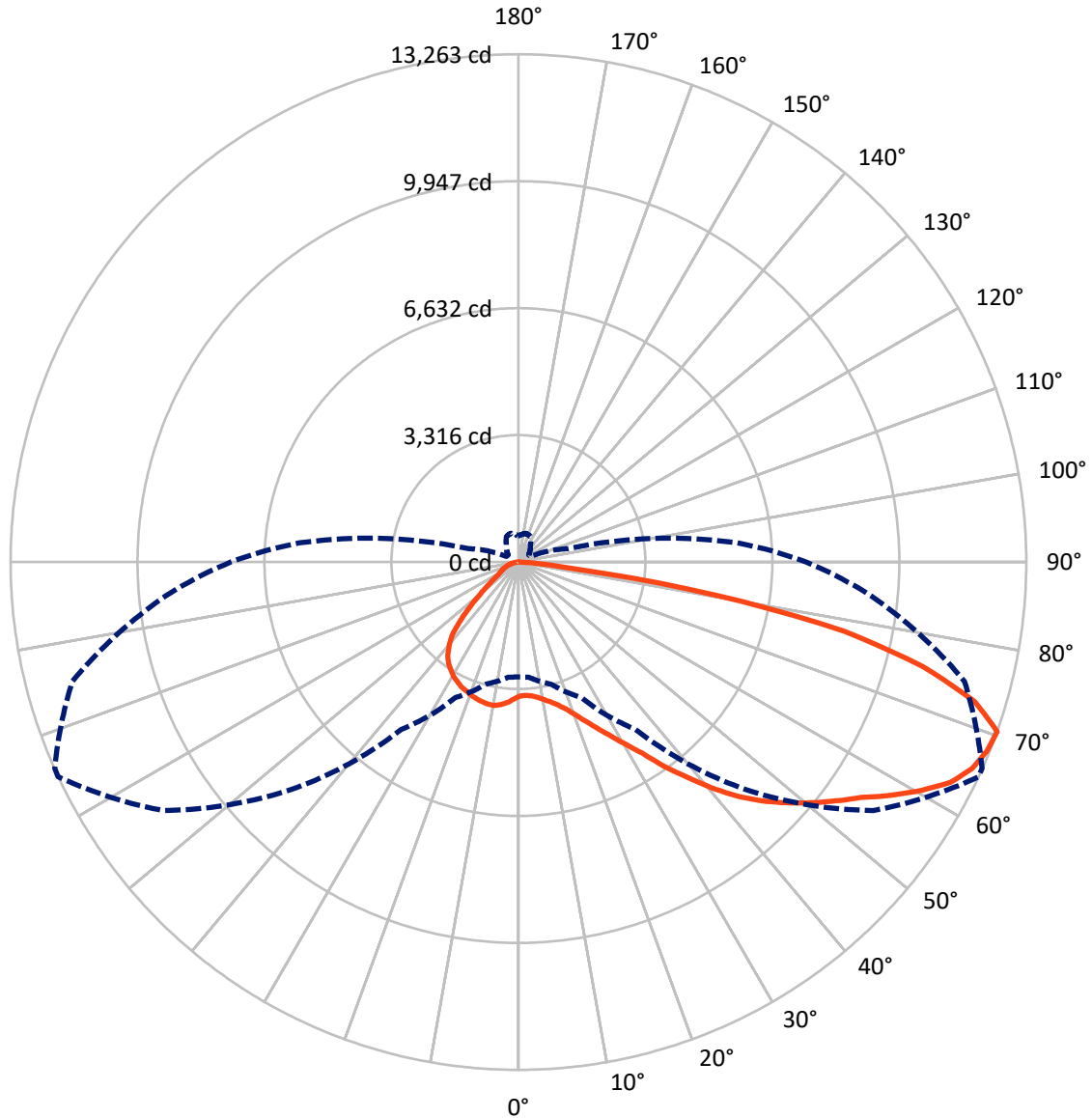
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P509887
CATALOG NUMBER: VERD-M-CA3-160-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P509887

CATALOG NUMBER: VERD-M-CA3-160-730-U-T3

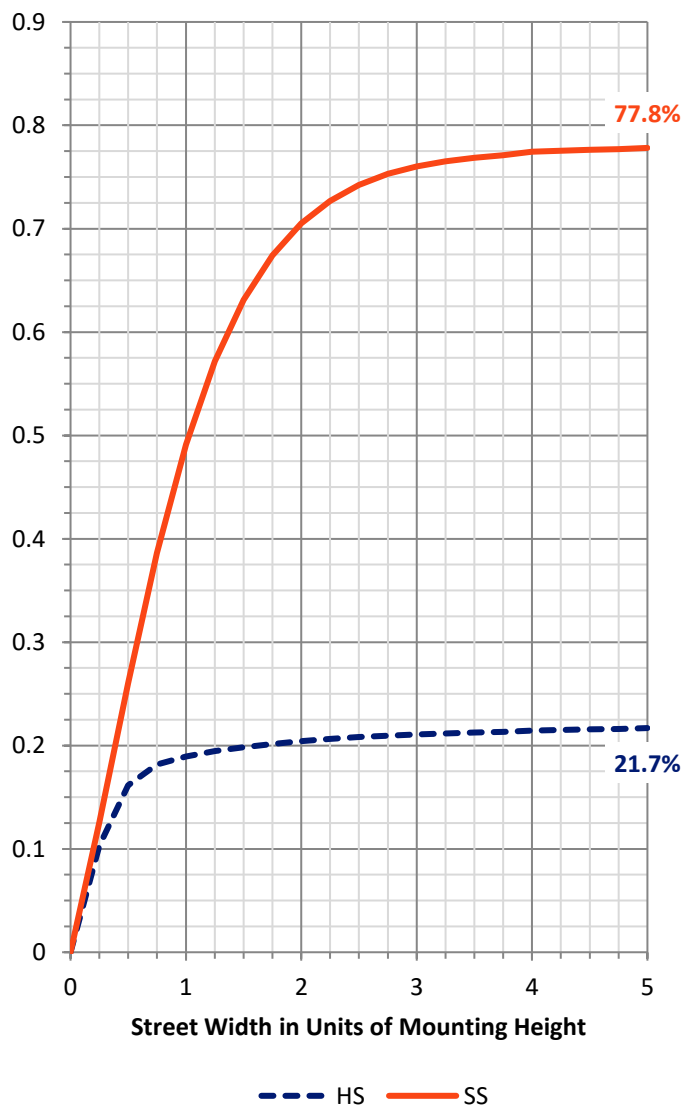
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5061.9	0.0	5061.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17885.1	0.0	17885.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	22947.0	0.0	22947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.4	1.5
10°-20°	1110.8	4.8
20°-30°	1927.0	8.4
30°-40°	2801.7	12.2
40°-50°	3743.2	16.3
50°-60°	4559.5	19.9
60°-70°	4915.2	21.4
70°-80°	3186.7	13.9
80°-90°	351.5	1.5
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°	22947.0	100.0
0°-180°	22947.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509887

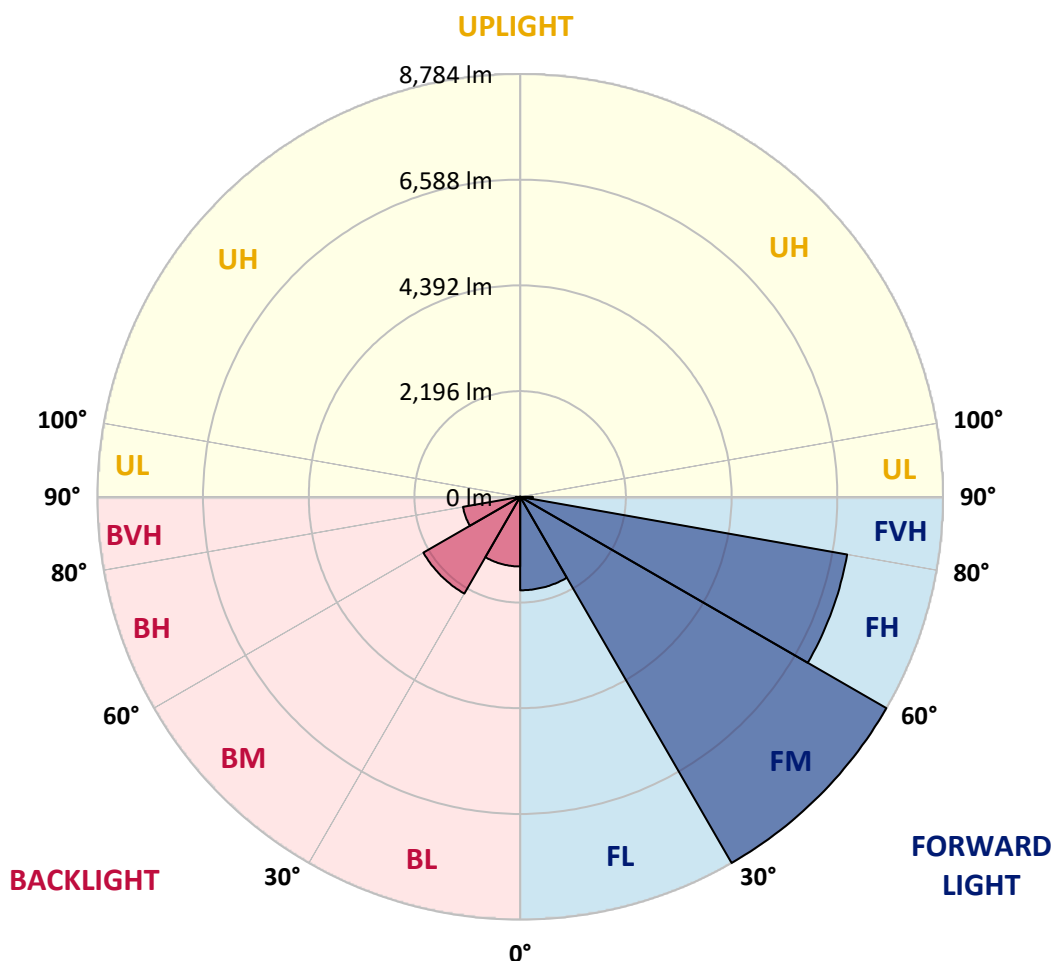
CATALOG NUMBER: VERD-M-CA3-160-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.0	8.5			
FM (30°-60°)	8783.7	38.3			
FH (60°-80°)	6897.3	30.1			G3/7500
FVH (80°-90°)	262.1	1.1			G3/500
BL (0°-30°)	1447.2	6.3	B3/2500		
BM (30°-60°)	2320.7	10.1	B2/2500		
BH (60°-80°)	1204.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	89.3	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 Medium





REPORT NUMBER: P509887

CATALOG NUMBER: VERD-M-CA3-160-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4
2.5°	3451.6	3482.7	3466.1	3467.1	3490.9	3471.3	3484.7	3484.7	3483.7	3490.9	3512.7
5°	3536.5	3569.6	3549.9	3537.5	3542.7	3517.8	3512.7	3508.5	3505.4	3513.7	3549.9
7.5°	3660.6	3698.9	3677.2	3665.8	3659.6	3602.7	3592.3	3564.4	3561.3	3568.5	3601.6
10°	3825.1	3876.9	3851.0	3818.9	3797.2	3731.0	3678.2	3653.4	3646.1	3642.0	3676.1
12.5°	4062.1	4107.6	4077.6	4017.6	3988.6	3882.0	3818.9	3748.6	3747.5	3733.0	3758.9
15°	4286.6	4334.2	4295.9	4236.9	4198.6	4054.8	3961.7	3874.8	3864.4	3847.9	3856.2
17.5°	4503.9	4561.8	4534.9	4481.1	4434.5	4274.2	4152.1	4040.3	4029.0	4003.1	3964.8
20°	4773.9	4826.7	4819.4	4770.8	4719.1	4537.0	4403.5	4259.7	4247.3	4200.7	4114.8
22.5°	5044.0	5109.1	5068.8	5060.5	5031.5	4850.5	4664.2	4518.4	4505.9	4444.9	4287.6
25°	5298.5	5356.4	5370.9	5357.5	5360.6	5181.6	4996.4	4813.2	4800.8	4718.0	4490.4
27.5°	5599.6	5654.4	5658.5	5661.6	5697.9	5548.9	5331.6	5143.3	5135.0	5041.9	4753.2
30°	5830.3	5921.3	5940.0	5957.6	5976.2	5896.5	5698.9	5523.0	5506.4	5405.1	5049.1
32.5°	6041.4	6109.7	6175.9	6212.1	6295.9	6224.5	6062.1	5953.4	5954.5	5906.9	5520.9
35°	6204.8	6280.4	6364.2	6496.6	6618.7	6588.7	6538.0	6544.2	6545.2	6565.9	6157.2
37.5°	6361.1	6429.4	6534.9	6693.2	6908.4	6947.7	6981.9	7111.2	7156.7	7254.0	6744.9
40°	6455.2	6527.7	6664.2	6883.6	7162.9	7304.7	7408.2	7740.3	7818.9	7819.9	7199.1
42.5°	6317.6	6397.3	6641.5	7031.5	7392.6	7657.5	7929.6	8348.7	8405.6	8278.3	7587.1
45°	6194.5	6268.0	6530.8	7054.3	7572.7	8034.1	8412.8	8898.1	8939.4	8682.8	7945.1
47.5°	6075.5	6133.5	6437.6	7006.7	7756.8	8411.8	8824.6	9394.7	9424.7	9125.7	8294.9
50°	5911.0	5980.3	6303.1	6950.8	7867.5	8735.6	9228.1	9885.1	9881.0	9524.0	8611.5
52.5°	5731.0	5799.3	6145.9	6848.4	7940.0	8987.0	9687.5	10365.2	10368.3	9981.3	8925.0
55°	5504.4	5588.2	5953.4	6709.8	7957.6	9184.7	10085.8	10857.7	10908.4	10448.0	9227.1
57.5°	5233.3	5317.1	5716.5	6507.0	7853.1	9350.2	10511.1	11486.8	11513.7	10925.0	9452.6
60°	4917.7	5019.1	5400.9	6235.9	7653.4	9542.6	11026.3	12103.4	12112.7	11351.2	9640.9
62.5°	4552.5	4624.9	5026.4	5842.7	7334.7	9619.2	11452.6	12669.4	12671.5	11673.0	9725.8
65°	4157.3	4185.2	4521.5	5307.8	6870.1	9494.0	11616.1	13013.9	13004.6	11955.5	9683.4
67.5°	3686.5	3673.0	4032.1	4646.6	6282.4	9077.1	11536.4	13190.9	13218.8	12172.8	9546.8
70°	2997.4	3017.1	3302.6	3906.9	5333.7	8407.6	11317.1	13263.3	13256.0	12064.1	9107.1
72.5°	2275.2	2310.4	2517.3	2970.5	4139.7	7070.9	10377.6	12462.5	12476.9	11298.5	8315.5
75°	1407.1	1508.5	1683.4	1959.6	2593.9	5065.7	8832.9	10916.7	10990.1	9968.9	6847.4
77.5°	616.7	640.5	728.4	944.6	1356.4	2543.2	6529.7	8718.0	8935.3	8062.1	4939.5
80°	381.8	381.8	406.6	473.9	605.3	945.7	2616.6	5205.4	4985.0	4611.5	2179.0
82.5°	317.6	317.6	330.1	341.4	310.4	400.4	875.3	1458.9	1563.4	1265.4	669.4
85°	172.8	176.9	178.0	181.1	178.0	216.2	344.5	431.5	436.6	395.2	238.0
87.5°	63.1	67.3	65.2	61.0	54.8	51.7	66.2	67.3	69.3	64.1	35.2
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: P509887

CATALOG NUMBER: VERD-M-CA3-160-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4	3503.4
2.5°	3527.1	3541.6	3579.9	3583.0	3597.5	3602.7	3615.1	3632.7	3663.7	3648.2	3630.6
5°	3567.5	3586.1	3647.2	3678.2	3718.6	3742.4	3781.7	3801.3	3848.9	3833.4	3831.3
7.5°	3628.5	3667.9	3722.7	3752.7	3805.5	3821.0	3850.0	3850.0	3889.3	3869.6	3864.4
10°	3711.3	3737.2	3795.1	3797.2	3827.2	3827.2	3861.3	3839.6	3877.9	3855.1	3854.1
12.5°	3777.5	3792.0	3813.7	3796.2	3811.7	3794.1	3811.7	3785.8	3809.6	3780.6	3774.4
15°	3852.0	3832.4	3810.6	3769.3	3755.8	3727.9	3713.4	3686.5	3688.6	3655.4	3650.3
17.5°	3935.8	3885.1	3822.0	3732.0	3682.3	3611.0	3581.0	3542.7	3520.9	3490.9	3504.4
20°	4037.2	3961.7	3830.3	3690.6	3585.1	3476.5	3406.1	3344.0	3338.8	3311.9	3297.5
22.5°	4168.6	4047.6	3866.5	3631.6	3462.0	3306.8	3202.3	3098.8	3088.5	3033.6	3012.9
25°	4331.1	4161.4	3885.1	3586.1	3318.1	3105.0	2940.5	2796.7	2727.4	2669.4	2656.0
27.5°	4549.4	4329.0	3922.4	3504.4	3148.5	2854.6	2618.7	2428.3	2345.6	2316.6	2286.6
30°	4805.0	4533.9	3991.7	3436.1	2947.7	2534.9	2247.3	2020.7	1930.7	1885.1	1870.7
32.5°	5181.6	4792.5	4055.9	3323.3	2704.6	2183.1	1808.6	1558.2	1503.4	1495.1	1514.7
35°	5729.9	5278.8	4149.0	3218.8	2419.0	1792.0	1378.2	1214.7	1203.3	1205.4	1205.4
37.5°	6301.1	5742.4	4425.2	3064.7	2069.3	1349.2	1049.1	960.2	964.3	964.3	963.3
40°	6673.5	6114.8	4626.0	2846.3	1634.8	967.4	778.1	710.8	739.8	779.1	799.8
42.5°	7084.3	6453.2	4764.6	2594.9	1137.1	683.9	566.0	589.8	674.6	734.6	742.9
45°	7434.0	6740.8	4780.1	2203.8	732.5	519.4	516.3	584.6	682.9	748.1	753.2
47.5°	7734.1	7002.6	4682.9	1756.8	533.9	485.3	516.3	602.2	691.2	731.5	735.6
50°	8024.8	7210.5	4454.2	1350.2	486.3	472.8	522.5	605.3	661.1	689.1	684.9
52.5°	8283.5	7399.9	4123.1	1053.3	467.7	464.6	527.7	602.2	637.3	635.3	632.2
55°	8480.1	7455.7	3864.4	821.5	452.1	459.4	530.8	605.3	631.1	612.5	608.4
57.5°	8581.5	7386.4	3647.2	652.9	435.6	454.2	539.1	604.2	649.8	684.9	682.9
60°	8579.4	7307.8	3379.2	562.9	419.0	450.1	552.5	656.0	820.5	853.6	854.6
62.5°	8546.3	7173.3	3011.9	509.1	400.4	452.1	561.8	745.0	934.3	907.4	885.7
65°	8436.6	6920.8	2519.4	451.1	376.6	454.2	557.7	806.0	856.7	760.5	747.0
67.5°	8131.4	6432.5	1978.3	403.5	354.9	442.8	564.9	749.1	787.4	726.3	706.7
70°	7511.6	5744.4	1340.9	347.6	330.1	426.3	548.4	736.7	777.0	714.9	686.0
72.5°	6529.7	4610.4	784.3	299.0	293.8	392.1	540.1	745.0	789.4	720.1	682.9
75°	5082.2	3232.3	453.2	242.1	245.2	362.1	495.6	702.5	782.2	728.4	679.8
77.5°	3280.9	1569.6	319.7	193.5	191.4	285.6	402.5	614.6	753.2	735.6	695.3
80°	1174.3	573.2	224.5	143.8	139.7	193.5	309.4	494.6	637.3	660.1	660.1
82.5°	422.1	287.6	143.8	87.9	86.9	123.1	230.7	375.6	462.5	521.5	536.0
85°	176.9	125.2	70.4	44.5	36.2	47.6	119.0	232.8	313.5	337.3	367.3
87.5°	25.9	22.8	18.6	14.5	12.4	12.4	15.5	67.3	111.7	160.4	198.7
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)