

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: P509839

Luminaire Tested: **VERD-M-CA3-150-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509839
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-CA3-150-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 940mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21776 lumens
Efficiency: N/A
Efficacy: 142.3 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

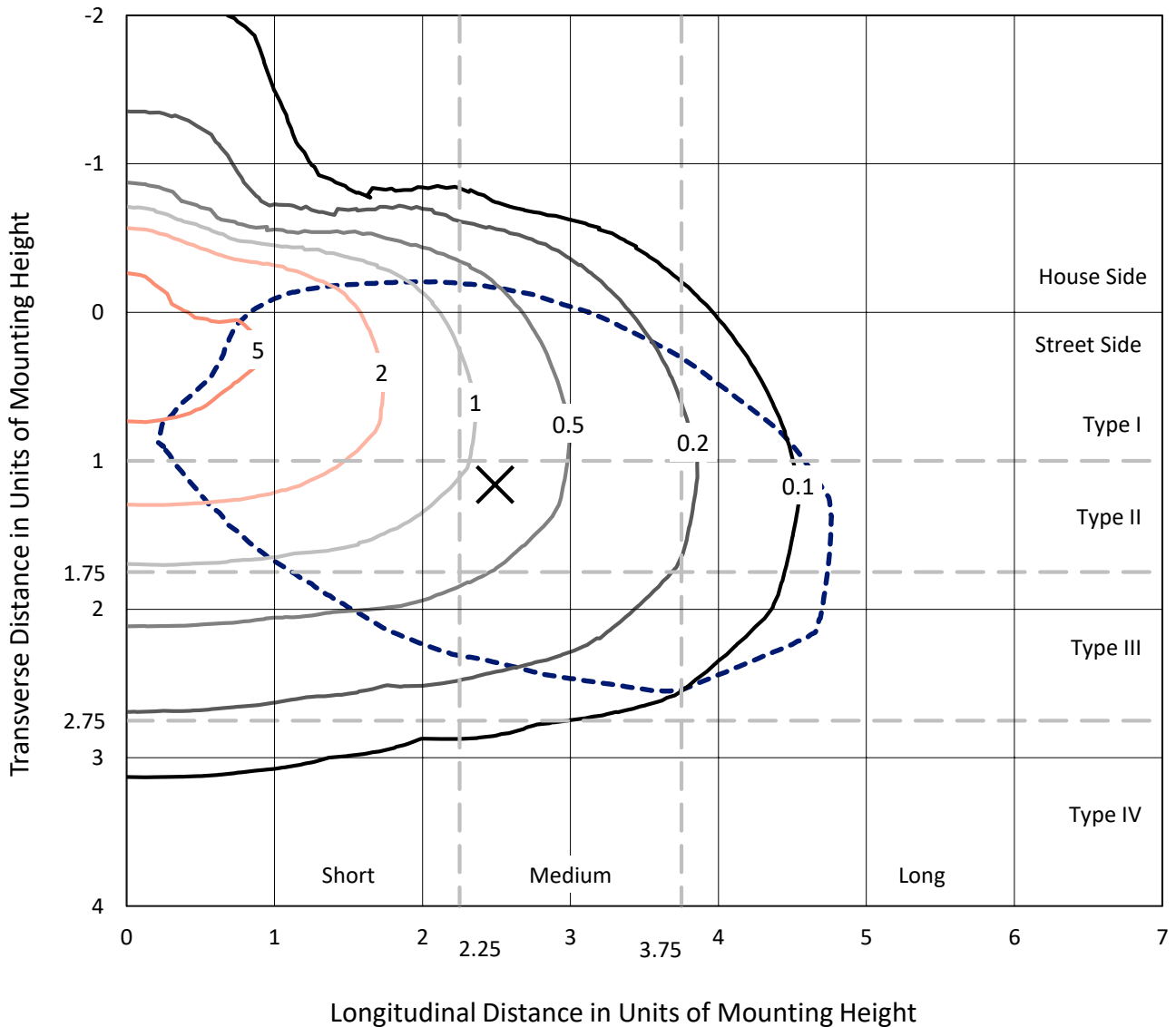
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509839
 CATALOG NUMBER: VERD-M-CA3-150-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

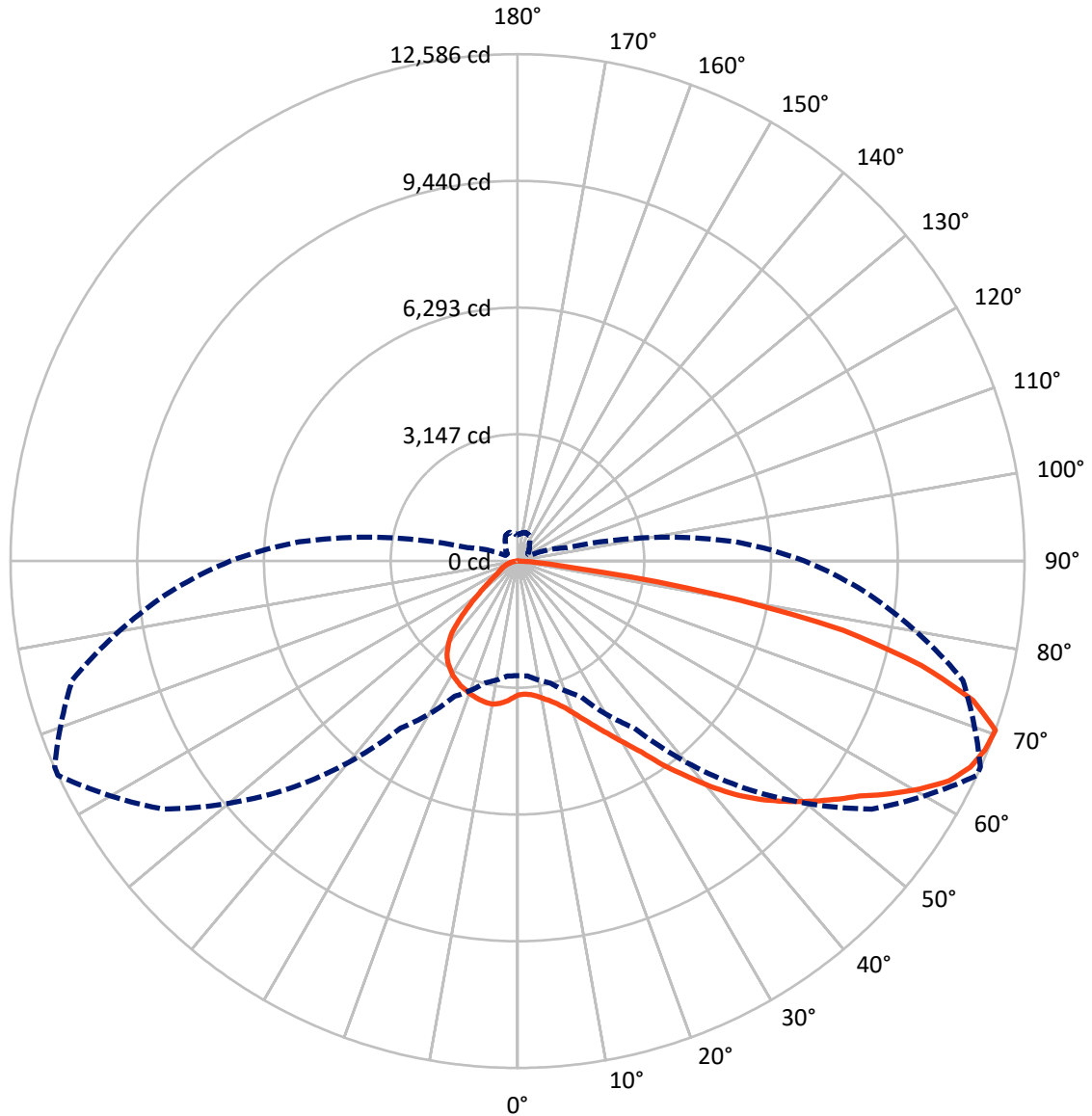
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P509839
CATALOG NUMBER: VERD-M-CA3-150-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509839

CATALOG NUMBER: VERD-M-CA3-150-730-U-T3

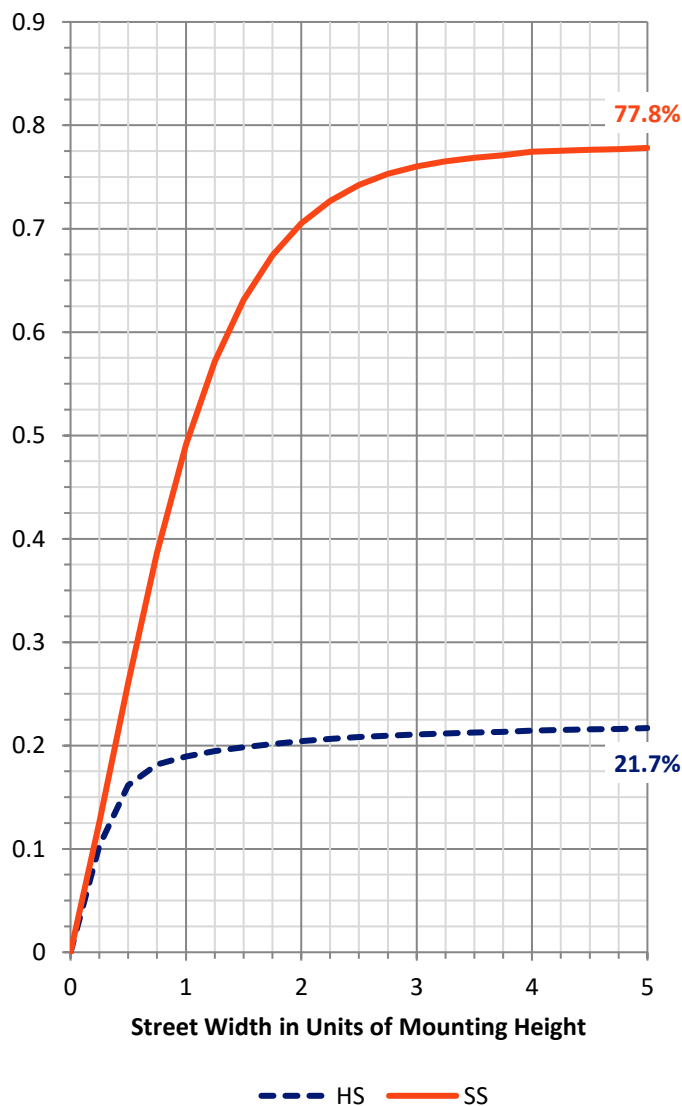
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4803.6	0.0	4803.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	16972.4	0.0	16972.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	21776.0	0.0	21776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.5
10°-20°	1054.1	4.8
20°-30°	1828.6	8.4
30°-40°	2658.8	12.2
40°-50°	3552.2	16.3
50°-60°	4326.8	19.9
60°-70°	4664.4	21.4
70°-80°	3024.1	13.9
80°-90°	333.5	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°	21776.0	100.0
0°-180°	21776.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509839

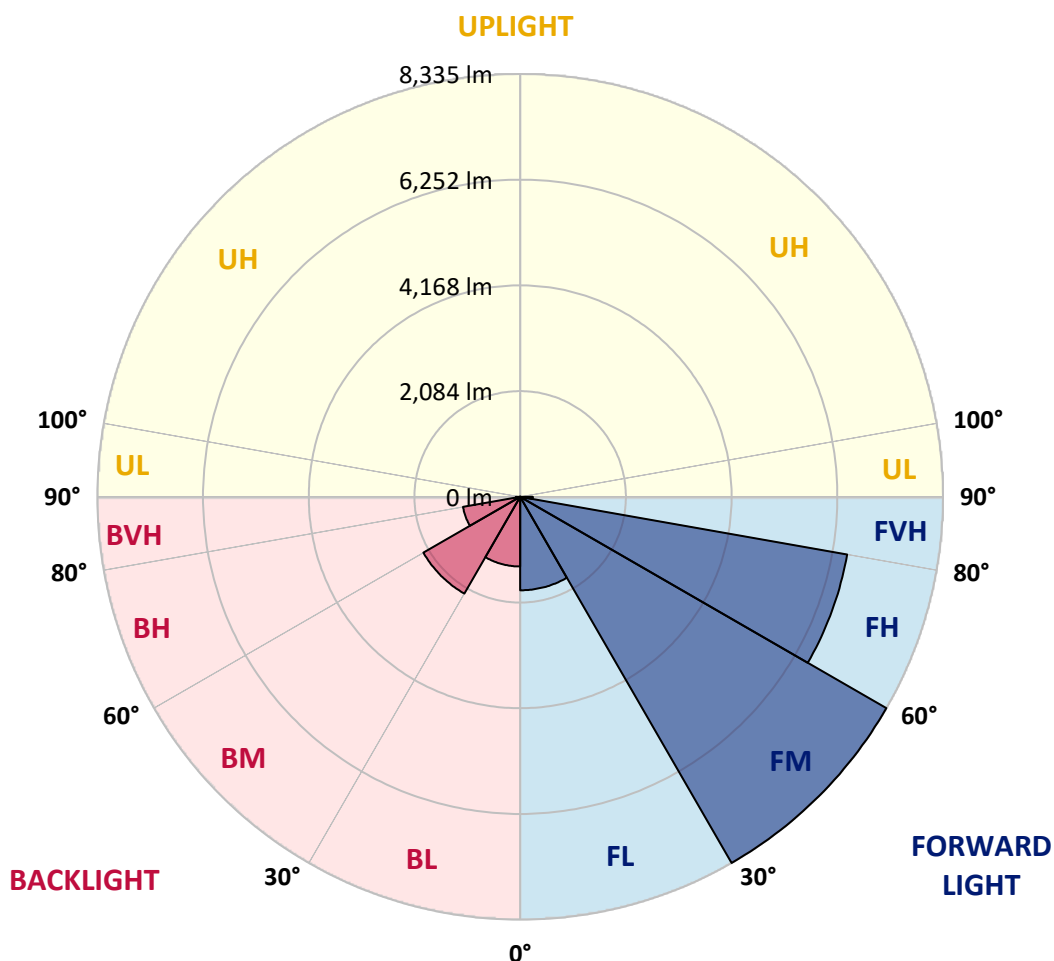
CATALOG NUMBER: VERD-M-CA3-150-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.9	8.5			
FM (30°-60°)	8335.5	38.3			
FH (60°-80°)	6545.3	30.1			G3/7500
FVH (80°-90°)	248.8	1.1			G3/500
BL (0°-30°)	1373.3	6.3	B3/2500		
BM (30°-60°)	2202.3	10.1	B2/2500		
BH (60°-80°)	1143.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	84.8	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: P509839

CATALOG NUMBER: VERD-M-CA3-150-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6
2.5°	3275.5	3304.9	3289.2	3290.2	3312.8	3294.1	3306.9	3306.9	3305.9	3312.8	3333.4
5°	3356.0	3387.4	3368.8	3357.0	3361.9	3338.3	3333.4	3329.5	3326.5	3334.4	3368.8
7.5°	3473.8	3510.1	3489.5	3478.7	3472.8	3418.8	3409.0	3382.5	3379.6	3386.4	3417.8
10°	3629.9	3679.0	3654.5	3624.0	3603.4	3540.6	3490.5	3466.9	3460.1	3456.1	3488.5
12.5°	3854.8	3898.0	3869.5	3812.6	3785.1	3683.9	3624.0	3557.3	3556.3	3542.5	3567.1
15°	4067.8	4113.0	4076.7	4020.7	3984.4	3847.9	3759.5	3677.1	3667.2	3651.5	3659.4
17.5°	4274.0	4329.0	4303.5	4252.4	4208.2	4056.1	3940.2	3834.2	3823.4	3798.8	3762.5
20°	4530.3	4580.4	4573.5	4527.4	4478.3	4305.5	4178.8	4042.3	4030.5	3986.3	3904.9
22.5°	4786.6	4848.4	4810.1	4802.3	4774.8	4603.0	4426.2	4287.8	4276.0	4218.1	4068.8
25°	5028.1	5083.1	5096.8	5084.1	5087.0	4917.1	4741.4	4567.6	4555.8	4477.3	4261.3
27.5°	5313.8	5365.9	5369.8	5372.7	5407.1	5265.7	5059.5	4880.8	4873.0	4784.6	4510.7
30°	5532.8	5619.2	5636.9	5653.5	5671.2	5595.6	5408.1	5241.2	5225.5	5129.2	4791.5
32.5°	5733.1	5797.9	5860.7	5895.1	5974.6	5906.9	5752.7	5649.6	5650.6	5605.4	5239.2
35°	5888.2	5959.9	6039.4	6165.1	6280.9	6252.5	6204.4	6210.3	6211.2	6230.9	5843.0
37.5°	6036.5	6101.3	6201.4	6351.6	6555.9	6593.2	6625.6	6748.3	6791.5	6883.8	6400.7
40°	6125.8	6194.5	6324.2	6532.3	6797.4	6931.9	7030.1	7345.3	7419.9	7420.9	6831.8
42.5°	5995.2	6070.8	6302.6	6672.7	7015.4	7266.7	7525.0	7922.6	7976.6	7855.9	7200.0
45°	5878.4	5948.1	6197.5	6694.3	7186.2	7624.1	7983.5	8444.0	8483.3	8239.8	7539.7
47.5°	5765.5	5820.5	6109.1	6649.1	7361.0	7982.5	8374.3	8915.3	8943.8	8660.0	7871.6
50°	5609.4	5675.1	5981.5	6596.1	7466.1	8289.8	8757.2	9380.7	9376.8	9038.0	8172.0
52.5°	5438.5	5503.3	5832.2	6498.9	7534.8	8528.4	9193.1	9836.3	9839.2	9472.0	8469.5
55°	5223.5	5303.0	5649.6	6367.4	7551.5	8716.0	9571.2	10303.6	10351.7	9914.8	8756.2
57.5°	4966.2	5045.8	5424.8	6174.9	7452.3	8873.1	9974.7	10900.6	10926.1	10367.4	8970.3
60°	4666.8	4763.0	5125.3	5917.7	7262.8	9055.7	10463.7	11485.8	11494.6	10772.0	9149.0
62.5°	4320.2	4388.9	4769.9	5544.6	6960.4	9128.3	10868.2	12022.9	12024.8	11077.3	9229.5
65°	3945.1	3971.6	4290.7	5036.9	6519.5	9009.5	11023.3	12349.8	12341.0	11345.4	9189.2
67.5°	3498.4	3485.6	3826.3	4409.5	5961.8	8613.8	10947.7	12517.7	12544.2	11551.6	9059.6
70°	2844.4	2863.1	3134.1	3707.5	5061.5	7978.6	10739.6	12586.4	12579.6	11448.5	8642.3
72.5°	2159.1	2192.5	2388.9	2818.9	3928.4	6710.0	9848.0	11826.5	11840.2	10721.9	7891.2
75°	1335.3	1431.5	1597.5	1859.6	2461.5	4807.2	8382.1	10359.6	10429.3	9460.2	6497.9
77.5°	585.2	607.8	691.2	896.4	1287.2	2413.4	6196.5	8273.1	8479.3	7650.6	4687.4
80°	362.3	362.3	385.9	449.7	574.4	897.4	2483.1	4939.7	4730.6	4376.1	2067.8
82.5°	301.4	301.4	313.2	324.0	294.6	380.0	830.7	1384.4	1483.6	1200.8	635.3
85°	164.0	167.9	168.9	171.8	168.9	205.2	327.0	409.4	414.3	375.1	225.8
87.5°	59.9	63.8	61.9	57.9	52.0	49.1	62.8	63.8	65.8	60.9	33.4
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: P509839

CATALOG NUMBER: VERD-M-CA3-150-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6
2.5°	3347.2	3360.9	3397.2	3400.2	3413.9	3418.8	3430.6	3447.3	3476.8	3462.0	3445.3
5°	3385.4	3403.1	3461.1	3490.5	3528.8	3551.4	3588.7	3607.3	3652.5	3637.8	3635.8
7.5°	3443.4	3480.7	3532.7	3561.2	3611.3	3626.0	3653.5	3653.5	3690.8	3672.2	3667.2
10°	3521.9	3546.5	3601.5	3603.4	3631.9	3631.9	3664.3	3643.7	3680.0	3658.4	3657.4
12.5°	3584.8	3598.5	3619.1	3602.4	3617.2	3600.5	3617.2	3592.6	3615.2	3587.7	3581.8
15°	3655.5	3636.8	3616.2	3576.9	3564.1	3537.6	3523.9	3498.4	3500.3	3468.9	3464.0
17.5°	3735.0	3686.9	3627.0	3541.6	3494.4	3426.7	3398.2	3361.9	3341.3	3312.8	3325.6
20°	3831.2	3759.5	3634.8	3502.3	3402.1	3299.0	3232.3	3173.4	3168.5	3142.9	3129.2
22.5°	3955.9	3841.0	3669.2	3446.3	3285.3	3138.0	3038.9	2940.7	2930.8	2878.8	2859.2
25°	4110.1	3949.0	3686.9	3403.1	3148.8	2946.6	2790.4	2654.0	2588.2	2533.2	2520.4
27.5°	4317.2	4108.1	3722.2	3325.6	2987.8	2708.9	2485.1	2304.4	2225.9	2198.4	2169.9
30°	4559.8	4302.5	3788.0	3260.8	2797.3	2405.6	2132.6	1917.6	1832.1	1788.9	1775.2
32.5°	4917.1	4548.0	3848.9	3153.7	2566.6	2071.7	1716.3	1478.7	1426.6	1418.8	1437.4
35°	5437.5	5009.4	3937.3	3054.6	2295.6	1700.6	1307.8	1152.7	1141.9	1143.9	1143.9
37.5°	5979.5	5449.3	4199.4	2908.3	1963.7	1280.3	995.6	911.2	915.1	915.1	914.1
40°	6333.0	5802.8	4389.9	2701.1	1551.3	918.0	738.4	674.5	702.0	739.3	759.0
42.5°	6722.8	6123.9	4521.5	2462.5	1079.1	649.0	537.1	559.7	640.2	697.1	705.0
45°	7054.7	6396.8	4536.2	2091.4	695.2	492.9	489.9	554.8	648.0	709.9	714.8
47.5°	7339.4	6645.2	4443.9	1667.2	506.6	460.5	489.9	571.4	655.9	694.2	698.1
50°	7615.3	6842.6	4226.9	1281.3	461.5	448.7	495.8	574.4	627.4	653.9	650.0
52.5°	7860.8	7022.3	3912.7	999.5	443.8	440.9	500.7	571.4	604.8	602.9	599.9
55°	8047.3	7075.3	3667.2	779.6	429.1	435.9	503.7	574.4	598.9	581.3	577.3
57.5°	8143.5	7009.5	3461.1	619.6	413.4	431.0	511.5	573.4	616.6	650.0	648.0
60°	8141.6	6934.9	3206.8	534.1	397.7	427.1	524.3	622.5	778.6	810.0	811.0
62.5°	8110.2	6807.2	2858.2	483.1	380.0	429.1	533.1	706.9	886.6	861.1	840.5
65°	8006.1	6567.7	2390.8	428.1	357.4	431.0	529.2	764.9	813.0	721.7	708.9
67.5°	7716.4	6104.2	1877.3	382.9	336.8	420.2	536.1	710.9	747.2	689.3	670.6
70°	7128.3	5451.3	1272.5	329.9	313.2	404.5	520.4	699.1	737.4	678.5	651.0
72.5°	6196.5	4375.2	744.2	283.8	278.8	372.1	512.5	706.9	749.2	683.4	648.0
75°	4822.9	3067.3	430.1	229.8	232.7	343.7	470.3	666.7	742.3	691.2	645.1
77.5°	3113.5	1489.5	303.4	183.6	181.6	271.0	381.9	583.2	714.8	698.1	659.8
80°	1114.4	543.9	213.1	136.5	132.6	183.6	293.6	469.3	604.8	626.4	626.4
82.5°	400.6	273.0	136.5	83.5	82.5	116.8	219.0	356.4	438.9	494.9	508.6
85°	167.9	118.8	66.8	42.2	34.4	45.2	112.9	220.9	297.5	320.1	348.6
87.5°	24.5	21.6	17.7	13.7	11.8	11.8	14.7	63.8	106.0	152.2	188.5
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)