

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: P509863

Luminaire Tested: **VERD-M-CA3-150-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509863
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-CA3-150-760-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 940mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22106 lumens
Efficiency: N/A
Efficacy: 144.5 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

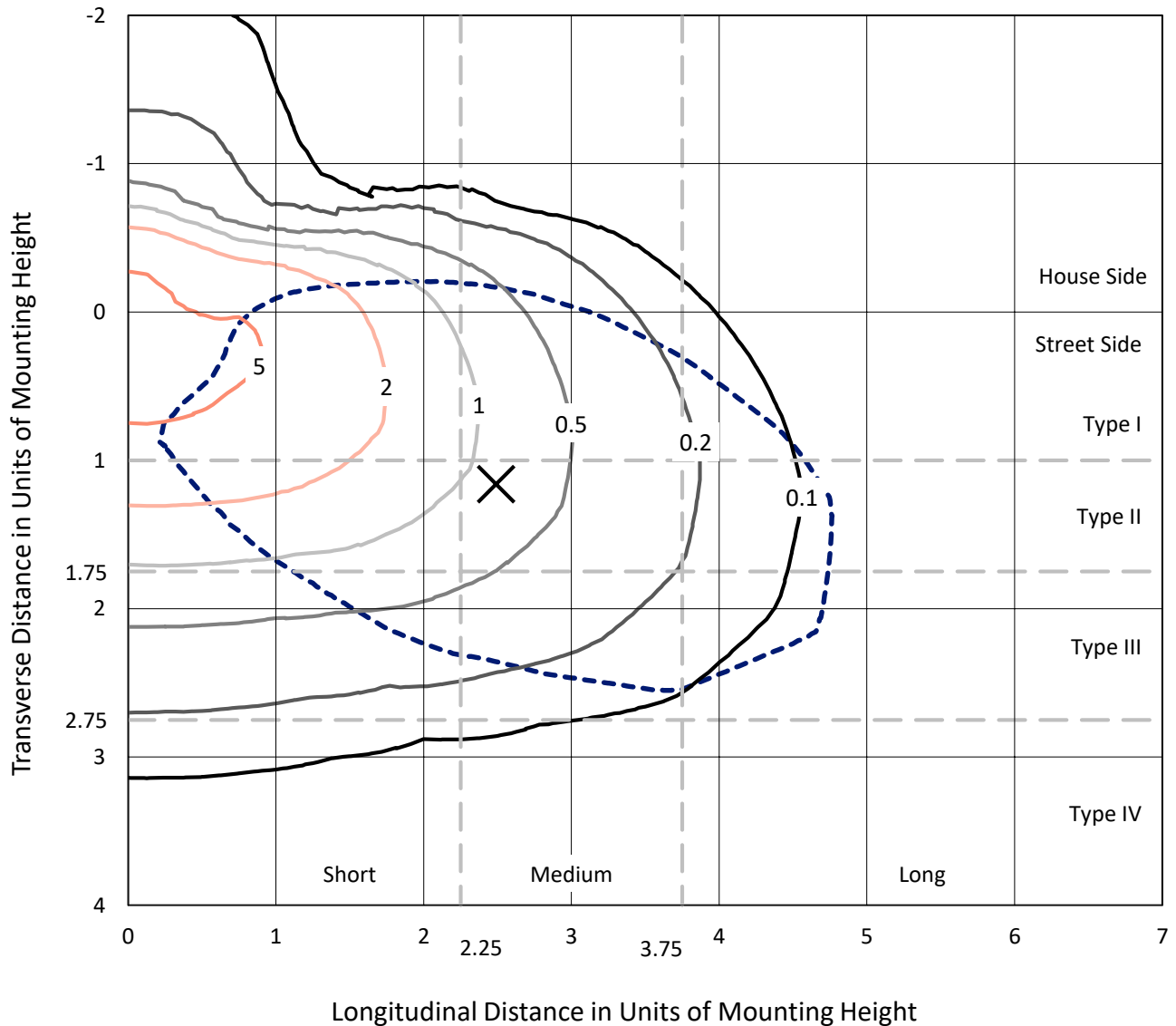


REPORT NUMBER: P509863

CATALOG NUMBER: VERD-M-CA3-150-760-U-T3

Iso-Footcandle Lines of Horizontal Illumination

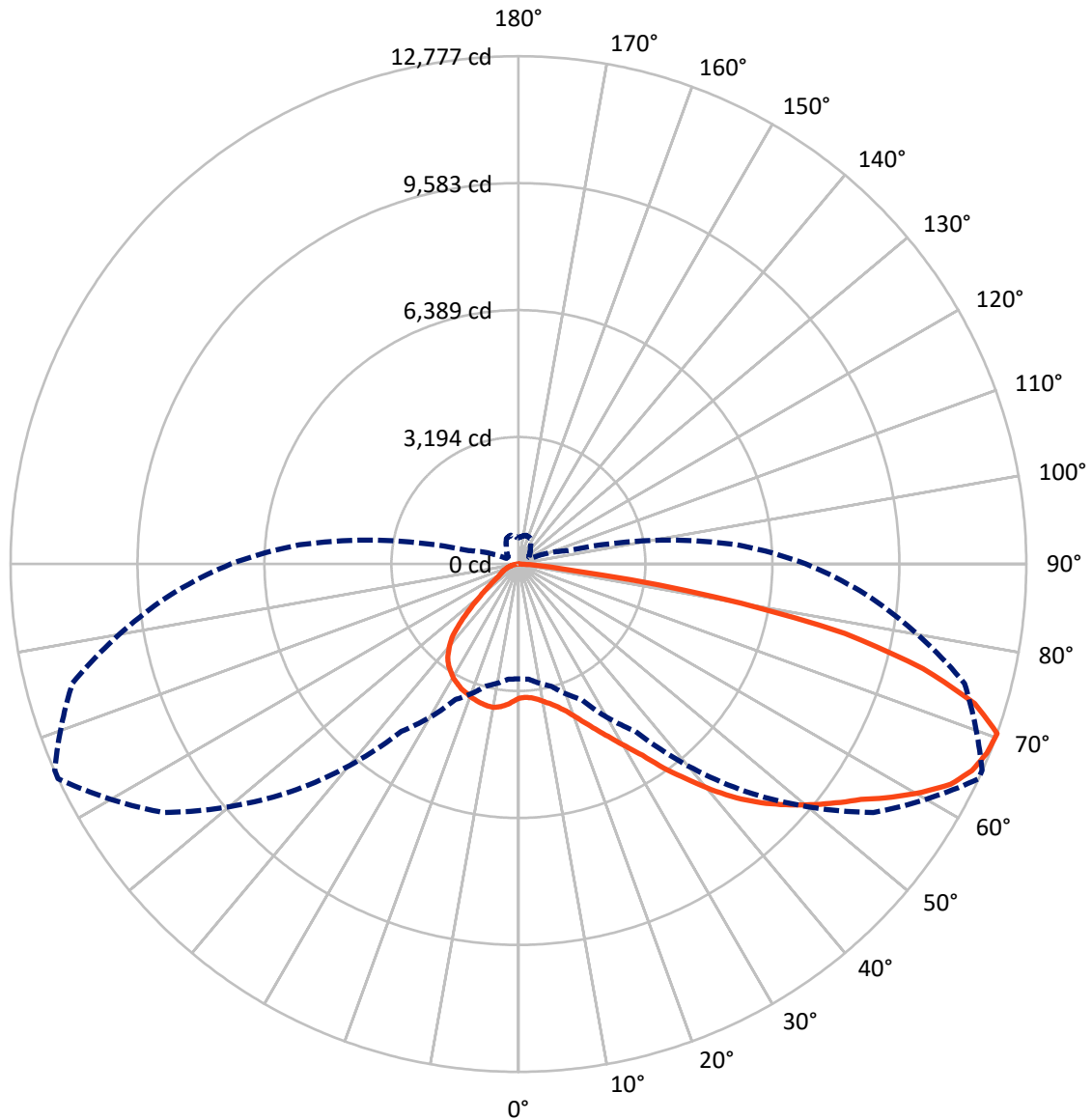
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P509863
CATALOG NUMBER: VERD-M-CA3-150-760-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509863

CATALOG NUMBER: VERD-M-CA3-150-760-U-T3

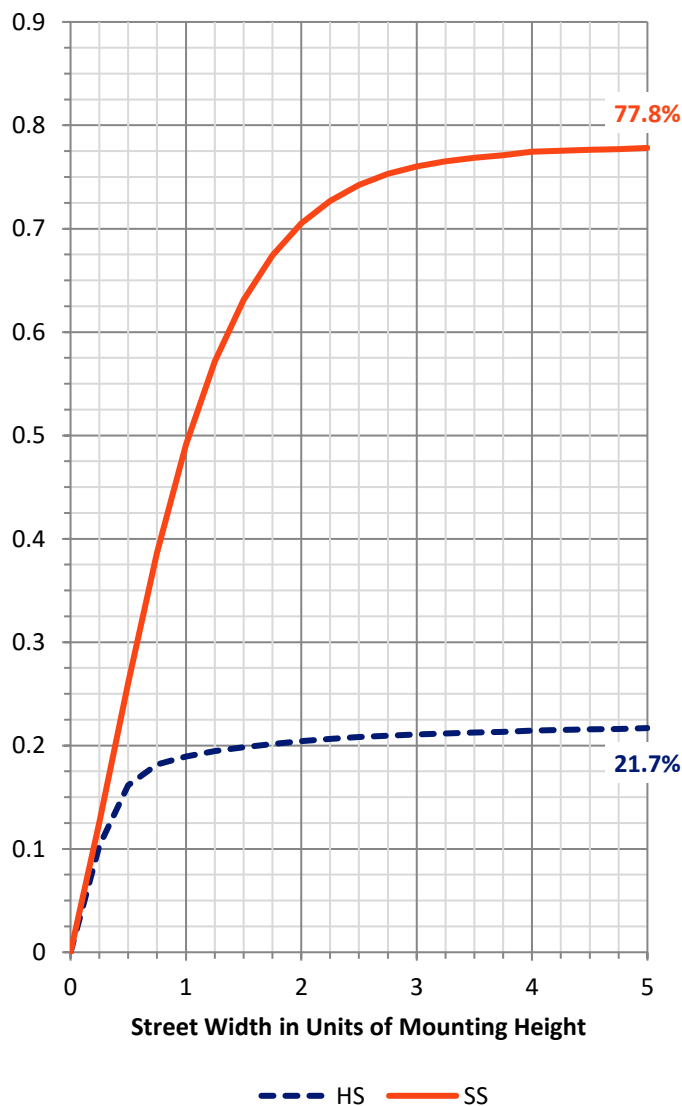
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4876.4	0.0	4876.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17229.6	0.0	17229.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	22106.0	0.0	22106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	1.5
10°-20°	1070.0	4.8
20°-30°	1856.3	8.4
30°-40°	2699.1	12.2
40°-50°	3606.0	16.3
50°-60°	4392.4	19.9
60°-70°	4735.1	21.4
70°-80°	3069.9	13.9
80°-90°	338.6	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°	22106.0	100.0
0°-180°	22106.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509863

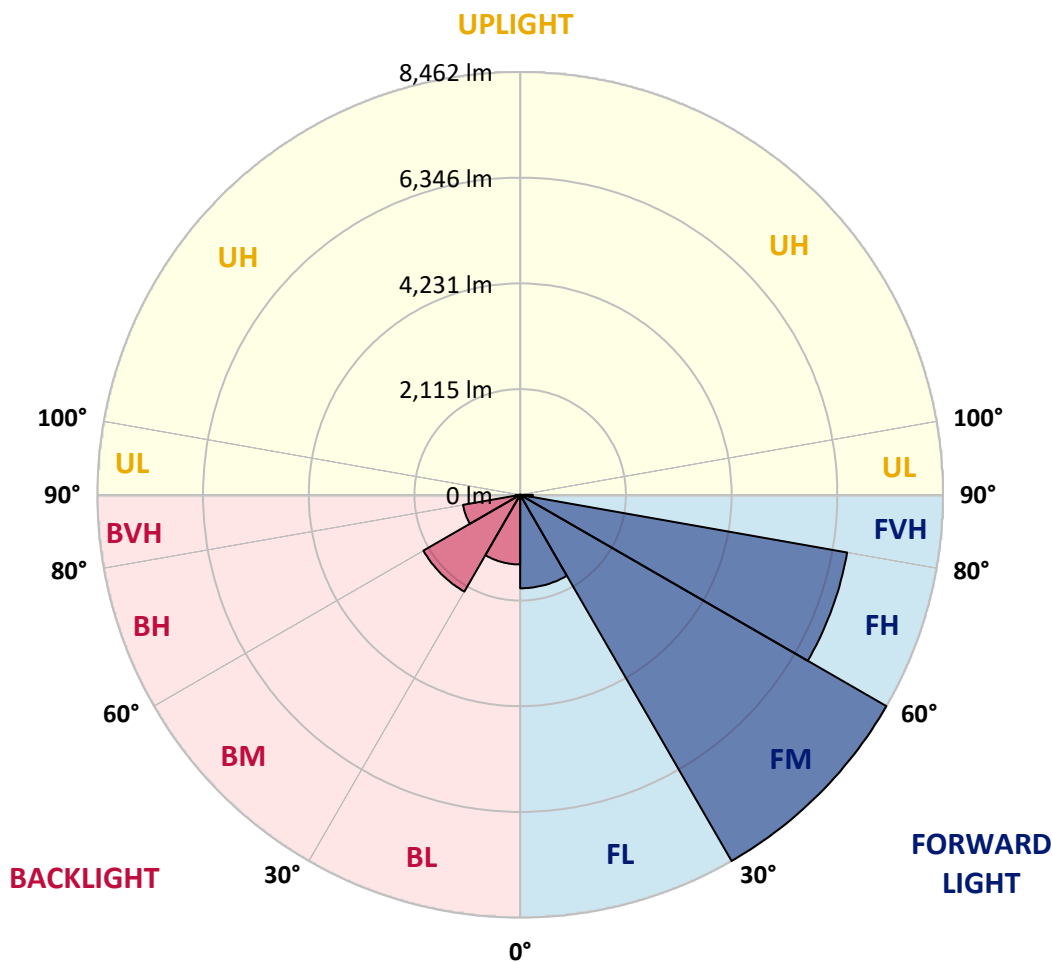
CATALOG NUMBER: VERD-M-CA3-150-760-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1870.8	8.5			
FM (30°-60°)	8461.8	38.3			
FH (60°-80°)	6644.5	30.1			G3/7500
FVH (80°-90°)	252.5	1.1			G3/500
BL (0°-30°)	1394.1	6.3	B3/2500		
BM (30°-60°)	2235.7	10.1	B2/2500		
BH (60°-80°)	1160.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	86.1	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: P509863

CATALOG NUMBER: VERD-M-CA3-150-760-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0
2.5°	3325.1	3355.0	3339.1	3340.1	3363.0	3344.1	3357.0	3357.0	3356.0	3363.0	3383.9
5°	3406.9	3438.7	3419.8	3407.8	3412.8	3388.9	3383.9	3379.9	3376.9	3384.9	3419.8
7.5°	3526.5	3563.3	3542.4	3531.4	3525.5	3470.6	3460.7	3433.8	3430.8	3437.7	3469.6
10°	3684.9	3734.8	3709.9	3679.0	3658.0	3594.2	3543.4	3519.5	3512.5	3508.5	3541.4
12.5°	3913.2	3957.1	3928.1	3870.3	3842.4	3739.8	3679.0	3611.2	3610.2	3596.2	3621.1
15°	4129.5	4175.3	4138.5	4081.6	4044.8	3906.2	3816.5	3732.8	3722.8	3706.9	3714.8
17.5°	4338.8	4394.6	4368.7	4316.9	4272.0	4117.5	3999.9	3892.3	3881.3	3856.4	3819.5
20°	4598.9	4649.8	4642.8	4596.0	4546.1	4370.7	4242.1	4103.6	4091.6	4046.8	3964.0
22.5°	4859.1	4921.9	4883.0	4875.0	4847.1	4672.7	4493.3	4352.8	4340.8	4282.0	4130.5
25°	5104.3	5160.1	5174.1	5161.1	5164.1	4991.7	4813.2	4636.8	4624.9	4545.1	4325.8
27.5°	5394.3	5447.2	5451.2	5454.2	5489.0	5345.5	5136.2	4954.8	4946.8	4857.1	4579.0
30°	5616.6	5704.3	5722.3	5739.2	5757.2	5680.4	5490.0	5320.6	5304.6	5207.0	4864.1
32.5°	5820.0	5885.7	5949.5	5984.4	6065.2	5996.4	5839.9	5735.2	5736.2	5690.4	5318.6
35°	5977.4	6050.2	6130.9	6258.5	6376.1	6347.2	6298.4	6304.4	6305.4	6325.3	5931.6
37.5°	6127.9	6193.7	6295.4	6447.9	6655.2	6693.1	6726.0	6850.6	6894.4	6988.1	6497.7
40°	6218.6	6288.4	6420.0	6631.3	6900.4	7037.0	7136.6	7456.6	7532.3	7533.3	6935.3
42.5°	6086.1	6162.8	6398.1	6773.8	7121.7	7376.9	7639.0	8042.7	8097.5	7974.9	7309.1
45°	5967.5	6038.2	6291.4	6795.8	7295.1	7739.7	8104.5	8571.9	8611.8	8364.6	7654.0
47.5°	5852.8	5908.7	6201.7	6749.9	7472.5	8103.5	8501.2	9050.4	9079.3	8791.2	7990.8
50°	5694.4	5761.1	6072.1	6696.1	7579.2	8415.5	8889.9	9522.8	9518.8	9175.0	8295.9
52.5°	5520.9	5586.7	5920.6	6597.4	7649.0	8657.7	9332.5	9985.3	9988.3	9615.5	8597.9
55°	5302.6	5383.4	5735.2	6463.8	7665.9	8848.0	9716.2	10459.8	10508.6	10065.1	8888.9
57.5°	5041.5	5122.2	5507.0	6268.5	7565.2	9007.5	10125.9	11065.8	11091.7	10524.6	9106.2
60°	4737.5	4835.2	5203.0	6007.3	7372.9	9192.9	10622.2	11659.8	11668.8	10935.2	9287.6
62.5°	4385.6	4455.4	4842.2	5628.6	7065.9	9266.7	11032.9	12205.1	12207.1	11245.2	9369.3
65°	4004.9	4031.8	4355.7	5113.3	6618.3	9146.1	11190.4	12537.0	12528.0	11517.3	9328.5
67.5°	3551.4	3538.4	3884.3	4476.4	6052.2	8744.4	11113.6	12707.4	12734.3	11726.6	9196.9
70°	2887.6	2906.5	3181.6	3763.7	5138.2	8099.5	10902.3	12777.2	12770.2	11622.0	8773.3
72.5°	2191.8	2225.7	2425.1	2861.6	3987.9	6811.7	9997.3	12005.7	12019.7	10884.4	8010.8
75°	1355.6	1453.2	1621.7	1887.8	2498.8	4880.0	8509.2	10516.6	10587.4	9603.6	6596.4
77.5°	594.1	617.0	701.7	910.0	1306.7	2450.0	6290.4	8398.5	8607.8	7766.6	4758.4
80°	367.8	367.8	391.7	456.5	583.1	911.0	2520.8	5014.6	4802.3	4442.5	2099.1
82.5°	306.0	306.0	318.0	328.9	299.0	385.7	843.2	1405.4	1506.1	1219.0	644.9
85°	166.5	170.4	171.4	174.4	171.4	208.3	331.9	415.6	420.6	380.8	229.2
87.5°	60.8	64.8	62.8	58.8	52.8	49.8	63.8	64.8	66.8	61.8	33.9
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: P509863

CATALOG NUMBER: VERD-M-CA3-150-760-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0	3375.0
2.5°	3397.9	3411.8	3448.7	3451.7	3465.7	3470.6	3482.6	3499.5	3529.4	3514.5	3497.6
5°	3436.8	3454.7	3513.5	3543.4	3582.3	3605.2	3643.1	3662.0	3707.9	3692.9	3690.9
7.5°	3495.6	3533.4	3586.3	3615.2	3666.0	3681.0	3708.9	3708.9	3746.7	3727.8	3722.8
10°	3575.3	3600.2	3656.0	3658.0	3686.9	3686.9	3719.8	3698.9	3735.8	3713.8	3712.8
12.5°	3639.1	3653.0	3674.0	3657.0	3672.0	3655.0	3672.0	3647.1	3670.0	3642.1	3636.1
15°	3710.9	3691.9	3671.0	3631.1	3618.2	3591.2	3577.3	3551.4	3553.4	3521.5	3516.5
17.5°	3791.6	3742.8	3682.0	3595.2	3547.4	3478.6	3449.7	3412.8	3391.9	3363.0	3376.0
20°	3889.3	3816.5	3689.9	3555.4	3453.7	3349.0	3281.3	3221.5	3216.5	3190.6	3176.6
22.5°	4015.9	3899.2	3724.8	3498.6	3335.1	3185.6	3084.9	2985.2	2975.3	2922.4	2902.5
25°	4172.3	4008.9	3742.8	3454.7	3196.5	2991.2	2832.7	2694.2	2627.4	2571.6	2558.6
27.5°	4382.7	4170.4	3778.6	3376.0	3033.1	2750.0	2522.7	2339.3	2259.6	2231.7	2202.8
30°	4628.9	4367.7	3845.4	3310.2	2839.7	2442.0	2164.9	1946.6	1859.9	1816.1	1802.1
32.5°	4991.7	4616.9	3907.2	3201.5	2605.5	2103.1	1742.3	1501.1	1448.3	1440.3	1459.2
35°	5519.9	5085.4	3996.9	3100.9	2330.4	1726.4	1327.7	1170.2	1159.2	1161.2	1161.2
37.5°	6070.1	5531.9	4263.0	2952.3	1993.5	1299.7	1010.7	925.0	929.0	929.0	928.0
40°	6429.0	5890.7	4456.4	2742.0	1574.8	932.0	749.5	684.8	712.7	750.5	770.5
42.5°	6824.7	6216.7	4590.0	2499.8	1095.4	658.8	545.2	568.1	649.9	707.7	715.7
45°	7161.6	6493.7	4604.9	2123.1	705.7	500.4	497.4	563.2	657.8	720.6	725.6
47.5°	7450.6	6745.9	4511.2	1692.5	514.3	467.5	497.4	580.1	665.8	704.7	708.7
50°	7730.7	6946.3	4291.0	1300.7	468.5	455.5	503.4	583.1	636.9	663.8	659.8
52.5°	7979.9	7128.7	3972.0	1014.7	450.5	447.5	508.3	580.1	614.0	612.0	609.0
55°	8169.3	7182.5	3722.8	791.4	435.6	442.6	511.3	583.1	608.0	590.1	586.1
57.5°	8266.9	7115.7	3513.5	628.9	419.6	437.6	519.3	582.1	626.0	659.8	657.8
60°	8265.0	7040.0	3255.3	542.2	403.7	433.6	532.3	631.9	790.4	822.3	823.3
62.5°	8233.1	6910.4	2901.5	490.4	385.7	435.6	541.2	717.7	900.1	874.1	853.2
65°	8127.4	6667.2	2427.1	434.6	362.8	437.6	537.2	776.5	825.3	732.6	719.6
67.5°	7833.4	6196.7	1905.8	388.7	341.9	426.6	544.2	721.6	758.5	699.7	680.8
70°	7236.3	5533.9	1291.8	334.9	318.0	410.7	528.3	709.7	748.6	688.7	660.8
72.5°	6290.4	4441.5	755.5	288.1	283.1	377.8	520.3	717.7	760.5	693.7	657.8
75°	4896.0	3113.8	436.6	233.2	236.2	348.9	477.4	676.8	753.5	701.7	654.9
77.5°	3160.7	1512.1	308.0	186.4	184.4	275.1	387.7	592.1	725.6	708.7	669.8
80°	1131.3	552.2	216.3	138.5	134.6	186.4	298.0	476.4	614.0	635.9	635.9
82.5°	406.7	277.1	138.5	84.7	83.7	118.6	222.3	361.8	445.5	502.4	516.3
85°	170.4	120.6	67.8	42.9	34.9	45.8	114.6	224.3	302.0	324.9	353.8
87.5°	24.9	21.9	17.9	14.0	12.0	12.0	15.0	64.8	107.6	154.5	191.4
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)