

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: P509975

Luminaire Tested: **VERD-M-CA3-180-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509975
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-CA3-180-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21654 lumens
Efficiency: N/A
Efficacy: 118.3 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

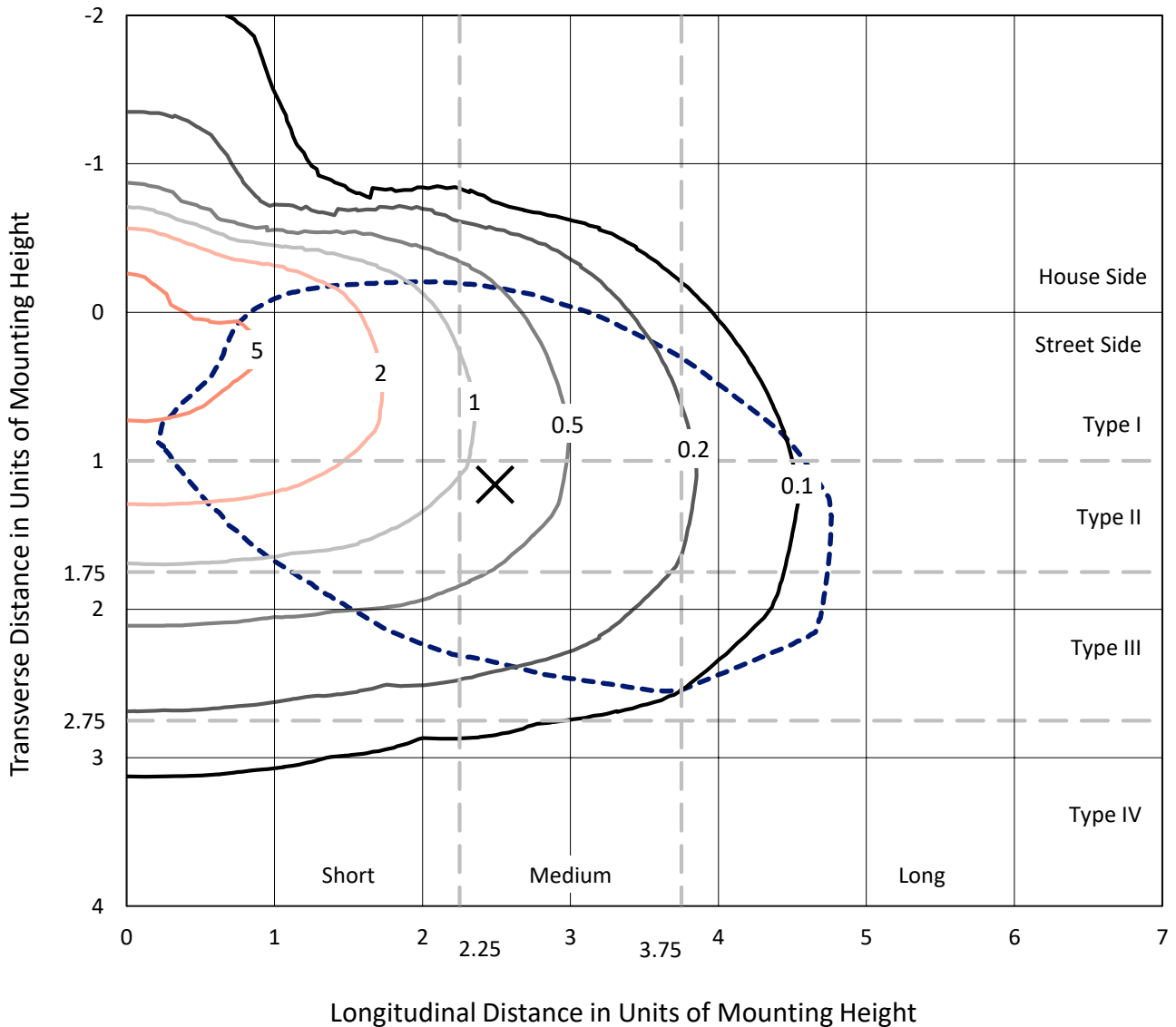
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

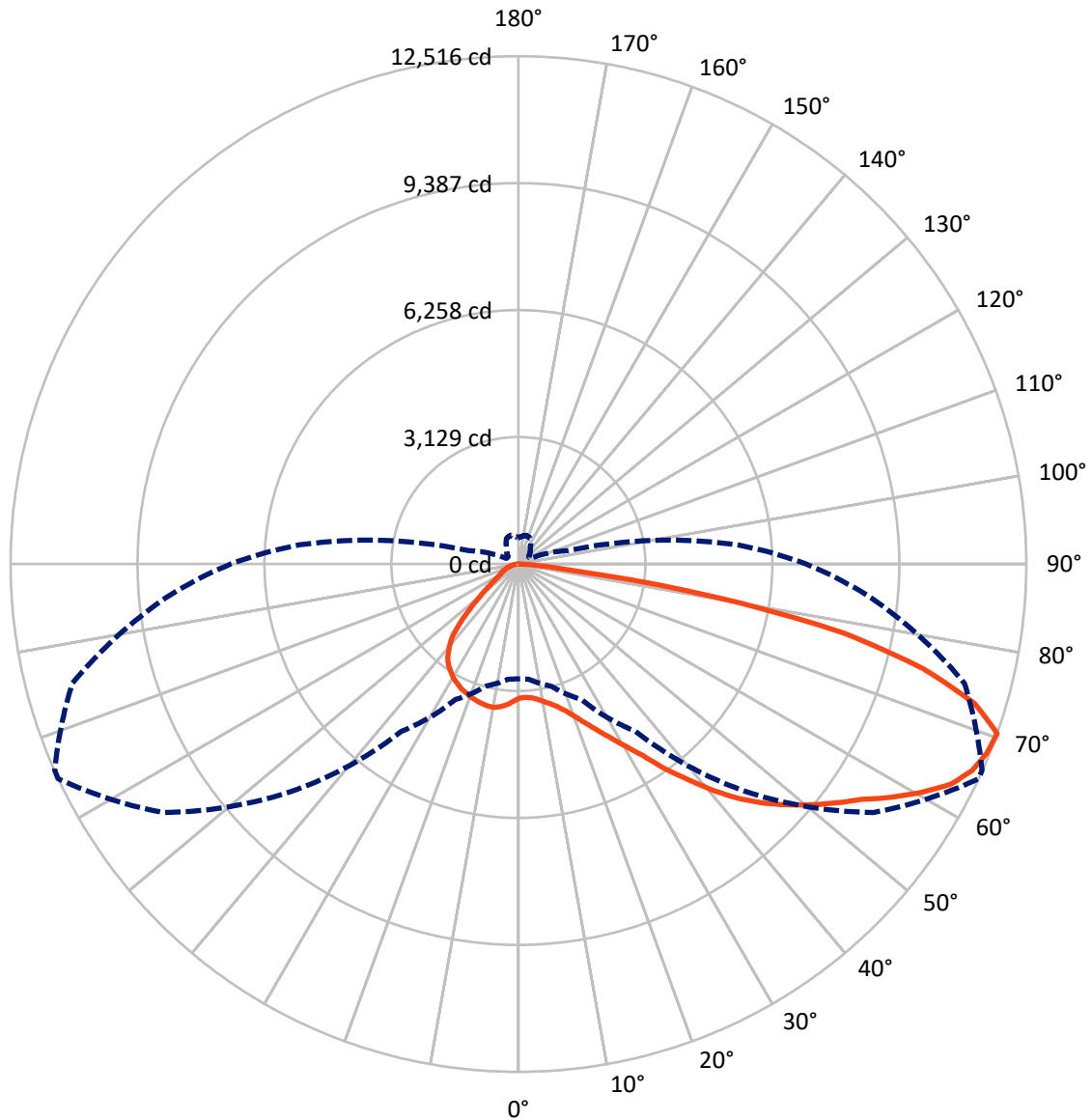
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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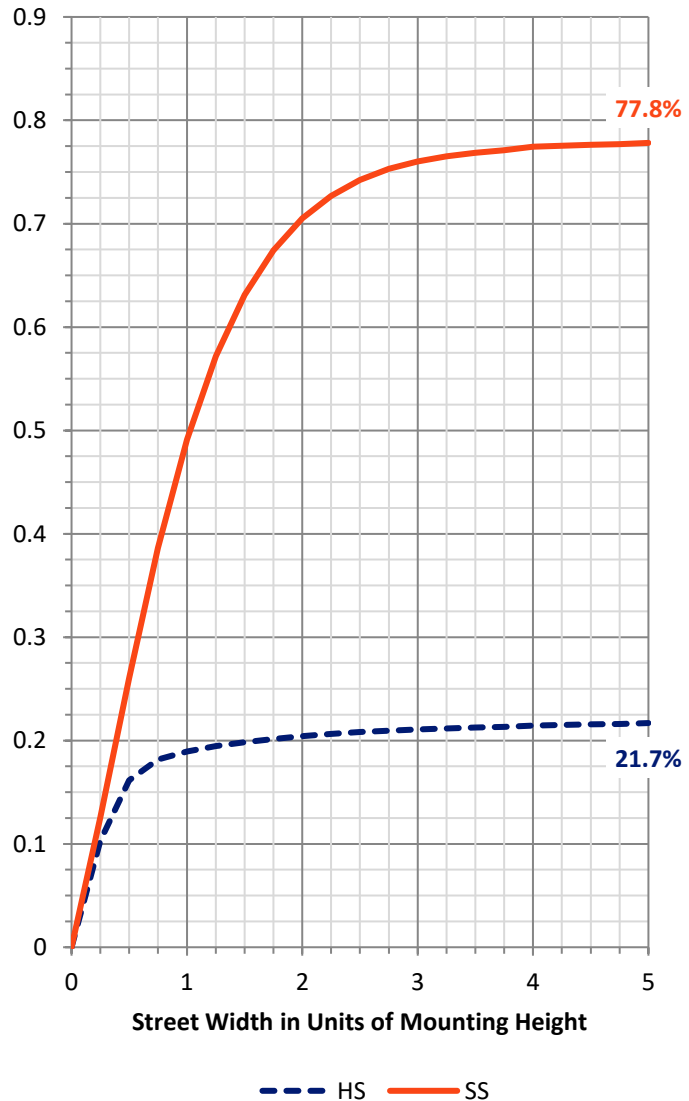
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4776.7	0.0	4776.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	16877.3	0.0	16877.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	21654.0	0.0	21654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.6	1.5
10°-20°	1048.2	4.8
20°-30°	1818.4	8.4
30°-40°	2643.9	12.2
40°-50°	3532.3	16.3
50°-60°	4302.6	19.9
60°-70°	4638.3	21.4
70°-80°	3007.2	13.9
80°-90°	331.7	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°	21654.0	100.0
0°-180°	21654.0	100.0

Coefficient of Utilization



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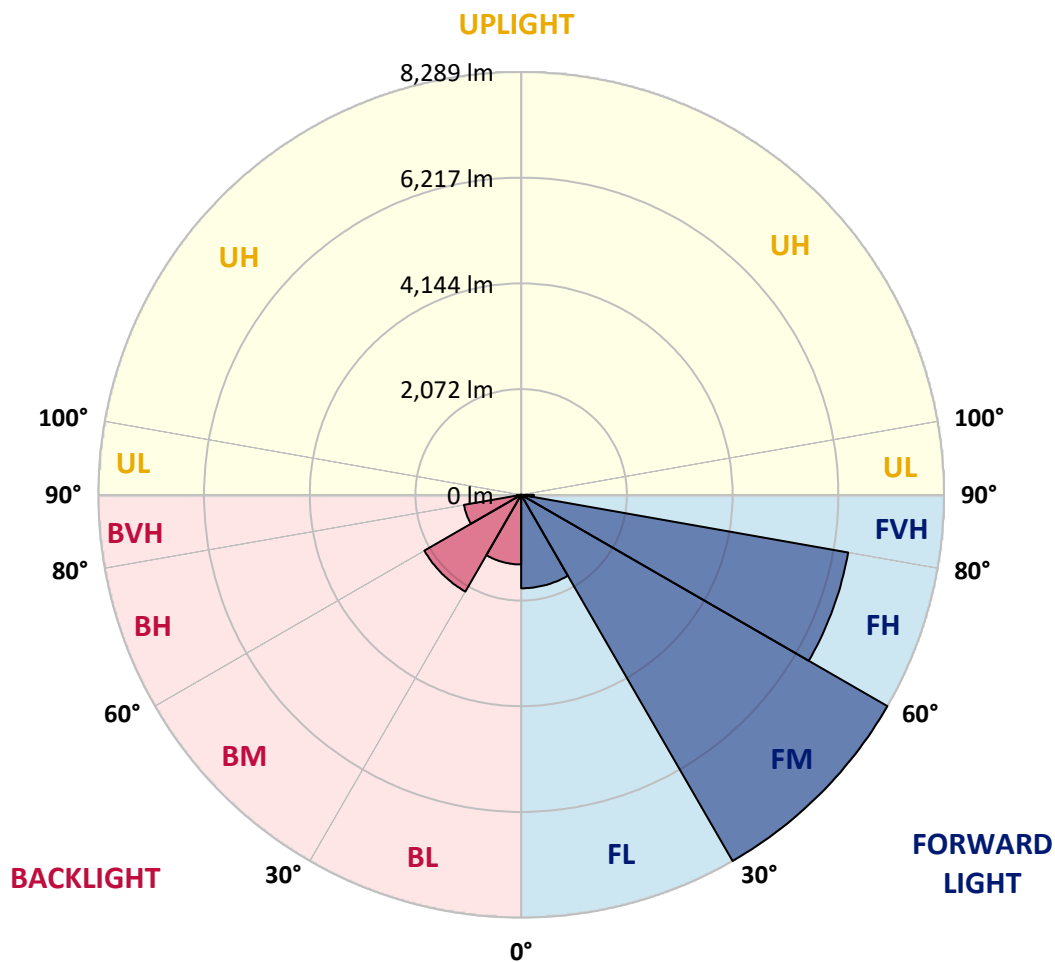
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1832.5	8.5			
FM	(30°-60°)	8288.8	38.3			
FH	(60°-80°)	6508.7	30.1			G3/7500
FVH	(80°-90°)	247.4	1.1			G3/500
BL	(0°-30°)	1365.6	6.3	B3/2500		
BM	(30°-60°)	2189.9	10.1	B2/2500		
BH	(60°-80°)	1136.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	84.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9
2.5°	3257.1	3286.4	3270.8	3271.8	3294.2	3275.7	3288.4	3288.4	3287.4	3294.2	3314.7
5°	3337.2	3368.4	3349.9	3338.2	3343.0	3319.6	3314.7	3310.8	3307.9	3315.7	3349.9
7.5°	3454.4	3490.5	3470.0	3459.2	3453.4	3399.7	3389.9	3363.6	3360.6	3367.5	3398.7
10°	3609.6	3658.4	3634.0	3603.7	3583.2	3520.7	3471.0	3447.5	3440.7	3436.8	3469.0
12.5°	3833.2	3876.1	3847.8	3791.2	3763.9	3663.3	3603.7	3537.3	3536.4	3522.7	3547.1
15°	4045.1	4090.0	4053.8	3998.2	3962.1	3826.3	3738.5	3656.5	3646.7	3631.1	3638.9
17.5°	4250.1	4304.8	4279.4	4228.6	4184.7	4033.3	3918.1	3812.7	3801.9	3777.5	3741.4
20°	4504.9	4554.7	4547.9	4502.0	4453.2	4281.3	4155.4	4019.7	4007.9	3964.0	3883.0
22.5°	4759.7	4821.3	4783.2	4775.4	4748.0	4577.2	4401.4	4263.8	4252.0	4194.4	4046.0
25°	4999.9	5054.6	5068.3	5055.6	5058.5	4889.6	4714.8	4542.0	4530.3	4452.2	4237.4
27.5°	5284.0	5335.8	5339.7	5342.6	5376.8	5236.2	5031.2	4853.5	4845.7	4757.8	4485.4
30°	5501.8	5587.7	5605.3	5621.9	5639.4	5564.3	5377.8	5211.8	5196.2	5100.5	4764.6
32.5°	5701.0	5765.4	5827.9	5862.1	5941.1	5873.8	5720.5	5618.0	5618.9	5574.0	5209.8
35°	5855.2	5926.5	6005.6	6130.6	6245.8	6217.4	6169.6	6175.5	6176.4	6196.0	5810.3
37.5°	6002.6	6067.1	6166.7	6316.1	6519.1	6556.2	6588.5	6710.5	6753.5	6845.2	6364.9
40°	6091.5	6159.8	6288.7	6495.7	6759.3	6893.1	6990.7	7304.1	7378.3	7379.3	6793.5
42.5°	5961.6	6036.8	6267.2	6635.3	6976.1	7226.0	7482.8	7878.2	7931.9	7811.8	7159.6
45°	5845.5	5914.8	6162.8	6656.8	7146.0	7581.4	7938.8	8396.7	8435.7	8193.6	7497.5
47.5°	5733.2	5787.8	6074.9	6611.9	7319.8	7937.8	8327.4	8865.3	8893.6	8611.5	7827.5
50°	5577.9	5643.3	5948.0	6559.2	7424.2	8243.4	8708.1	9328.1	9324.2	8987.4	8126.2
52.5°	5408.0	5472.5	5799.6	6462.5	7492.6	8480.6	9141.6	9781.2	9784.1	9418.9	8422.1
55°	5194.2	5273.3	5618.0	6331.7	7509.2	8667.1	9517.5	10245.9	10293.7	9859.3	8707.2
57.5°	4938.4	5017.5	5394.4	6140.3	7410.6	8823.3	9918.8	10839.5	10864.9	10309.4	8920.0
60°	4640.6	4736.3	5096.6	5884.5	7222.1	9004.9	10405.0	11421.4	11430.2	10711.6	9097.7
62.5°	4296.0	4364.3	4743.1	5513.5	6921.4	9077.2	10807.3	11955.5	11957.5	11015.3	9177.8
65°	3923.0	3949.4	4266.7	5008.7	6483.0	8959.1	10961.6	12280.6	12271.8	11281.8	9137.7
67.5°	3478.8	3466.1	3804.9	4384.8	5928.4	8565.6	10886.4	12447.6	12473.9	11486.8	9008.9
70°	2828.5	2847.1	3116.5	3686.7	5033.1	7933.9	10679.4	12515.9	12509.1	11384.3	8593.9
72.5°	2147.0	2180.2	2375.5	2803.1	3906.4	6672.4	9792.9	11760.2	11773.9	10661.8	7847.0
75°	1327.8	1423.5	1588.5	1849.2	2447.7	4780.2	8335.2	10301.6	10370.9	9407.2	6461.5
77.5°	581.9	604.4	687.4	891.4	1280.0	2399.9	6161.8	8226.8	8431.8	7607.8	4661.1
80°	360.3	360.3	383.7	447.2	571.2	892.4	2469.2	4912.1	4704.1	4351.6	2056.2
82.5°	299.7	299.7	311.5	322.2	292.9	377.9	826.0	1376.7	1475.3	1194.1	631.7
85°	163.1	167.0	167.9	170.9	167.9	204.1	325.1	407.1	412.0	373.0	224.6
87.5°	59.6	63.5	61.5	57.6	51.7	48.8	62.5	63.5	65.4	60.5	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9	3305.9
2.5°	3328.4	3342.1	3378.2	3381.1	3394.8	3399.7	3411.4	3428.0	3457.3	3442.6	3426.0
5°	3366.5	3384.1	3441.7	3471.0	3509.0	3531.5	3568.6	3587.1	3632.1	3617.4	3615.5
7.5°	3424.1	3461.2	3512.9	3541.2	3591.0	3605.7	3633.0	3633.0	3670.1	3651.6	3646.7
10°	3502.2	3526.6	3581.3	3583.2	3611.5	3611.5	3643.8	3623.3	3659.4	3637.9	3636.9
12.5°	3564.7	3578.4	3598.9	3582.3	3596.9	3580.3	3596.9	3572.5	3594.9	3567.6	3561.8
15°	3635.0	3616.4	3595.9	3556.9	3544.2	3517.8	3504.1	3478.8	3480.7	3449.5	3444.6
17.5°	3714.1	3666.2	3606.7	3521.7	3474.9	3407.5	3379.2	3343.0	3322.5	3294.2	3306.9
20°	3809.7	3738.5	3614.5	3482.7	3383.1	3280.6	3214.2	3155.6	3150.7	3125.3	3111.7
22.5°	3933.7	3819.5	3648.6	3427.0	3266.9	3120.4	3021.8	2924.2	2914.4	2862.7	2843.2
25°	4087.0	3926.9	3666.2	3384.1	3131.2	2930.0	2774.8	2639.1	2573.7	2519.0	2506.3
27.5°	4293.0	4085.1	3701.4	3306.9	2971.1	2693.8	2471.2	2291.5	2213.4	2186.1	2157.8
30°	4534.2	4278.4	3766.8	3242.5	2781.6	2392.1	2120.6	1906.8	1821.9	1778.9	1765.3
32.5°	4889.6	4522.5	3827.3	3136.1	2552.2	2060.1	1706.7	1470.4	1418.6	1410.8	1429.4
35°	5407.1	4981.4	3915.2	3037.4	2282.7	1691.1	1300.5	1146.2	1135.5	1137.5	1137.5
37.5°	5946.0	5418.8	4175.9	2892.0	1952.7	1273.2	990.0	906.1	910.0	910.0	909.0
40°	6297.5	5770.3	4365.3	2686.0	1542.6	912.9	734.2	670.8	698.1	735.2	754.7
42.5°	6685.1	6089.5	4496.1	2448.7	1073.0	645.4	534.1	556.5	636.6	693.2	701.0
45°	7015.1	6361.0	4510.8	2079.6	691.3	490.1	487.2	551.6	644.4	705.9	710.8
47.5°	7298.3	6608.0	4419.0	1657.9	503.8	457.9	487.2	568.2	652.2	690.3	694.2
50°	7572.6	6804.2	4203.2	1274.1	458.9	446.2	493.1	571.2	623.9	650.3	646.3
52.5°	7816.7	6982.9	3890.8	993.9	441.3	438.4	497.9	568.2	601.4	599.5	596.6
55°	8002.2	7035.6	3646.7	775.2	426.7	433.5	500.9	571.2	595.6	578.0	574.1
57.5°	8097.9	6970.2	3441.7	616.1	411.0	428.6	508.7	570.2	613.2	646.3	644.4
60°	8096.0	6896.0	3188.8	531.1	395.4	424.7	521.4	619.0	774.3	805.5	806.5
62.5°	8064.7	6769.1	2842.2	480.4	377.9	426.7	530.2	703.0	881.7	856.3	835.8
65°	7961.2	6530.9	2377.4	425.7	355.4	428.6	526.3	760.6	808.4	717.6	704.9
67.5°	7673.2	6070.0	1866.8	380.8	334.9	417.9	533.1	706.9	743.0	685.4	666.9
70°	7088.4	5420.7	1265.4	328.1	311.5	402.3	517.5	695.2	733.2	674.7	647.3
72.5°	6161.8	4350.7	740.1	282.2	277.3	370.0	509.7	703.0	745.0	679.5	644.4
75°	4795.9	3050.1	427.6	228.5	231.4	341.7	467.7	662.9	738.1	687.4	641.5
77.5°	3096.0	1481.1	301.7	182.6	180.6	269.5	379.8	580.0	710.8	694.2	656.1
80°	1108.2	540.9	211.9	135.7	131.8	182.6	291.9	466.7	601.4	622.9	622.9
82.5°	398.4	271.4	135.7	83.0	82.0	116.2	217.7	354.4	436.4	492.1	505.8
85°	167.0	118.1	66.4	42.0	34.2	44.9	112.3	219.7	295.8	318.3	346.6
87.5°	24.4	21.5	17.6	13.7	11.7	11.7	14.6	63.5	105.4	151.3	187.5
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)