

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: P509855

Luminaire Tested: **VERD-M-CA3-150-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509855
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-CA3-150-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 940mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22585 lumens
Efficiency: N/A
Efficacy: 147.6 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

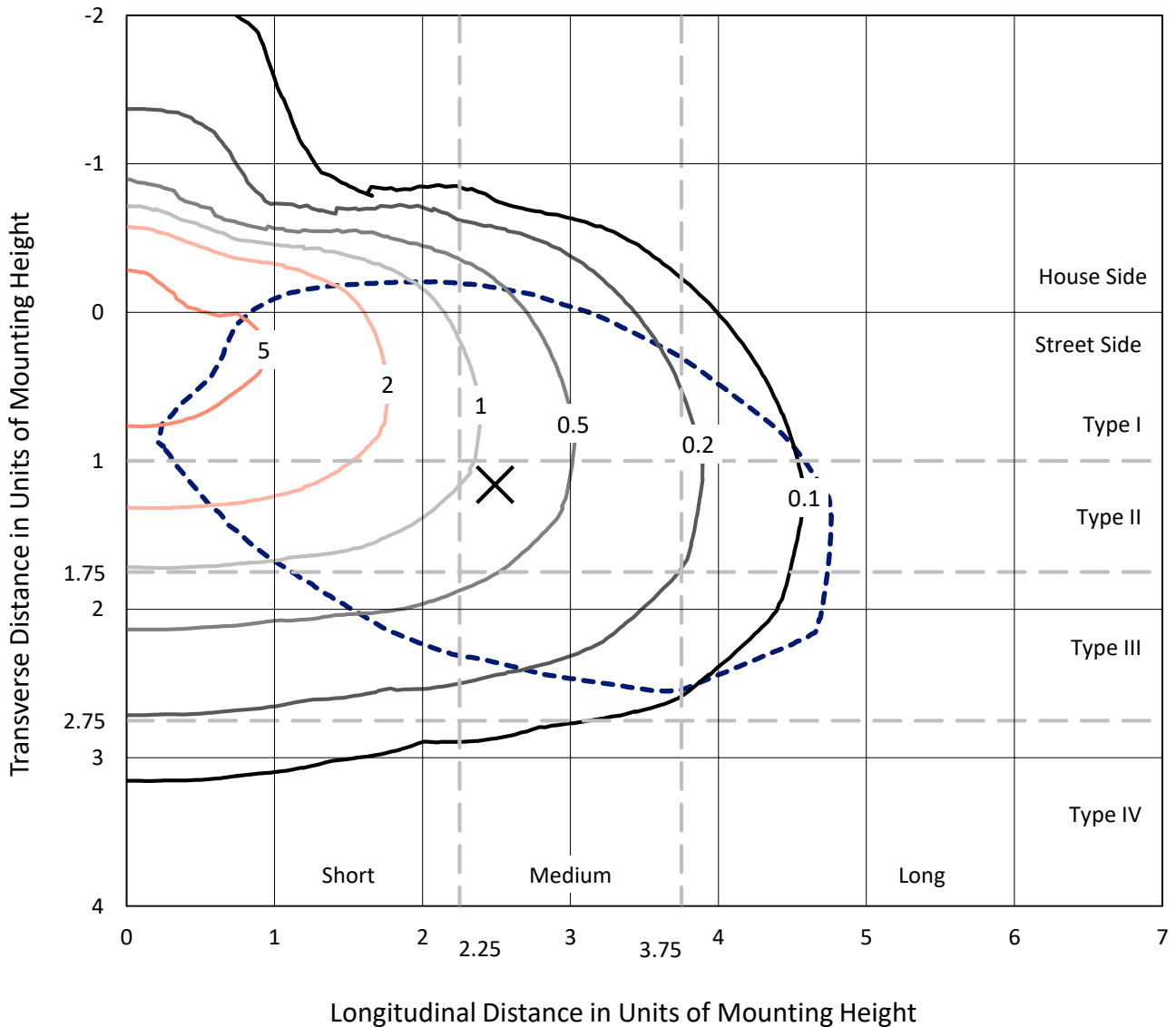
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

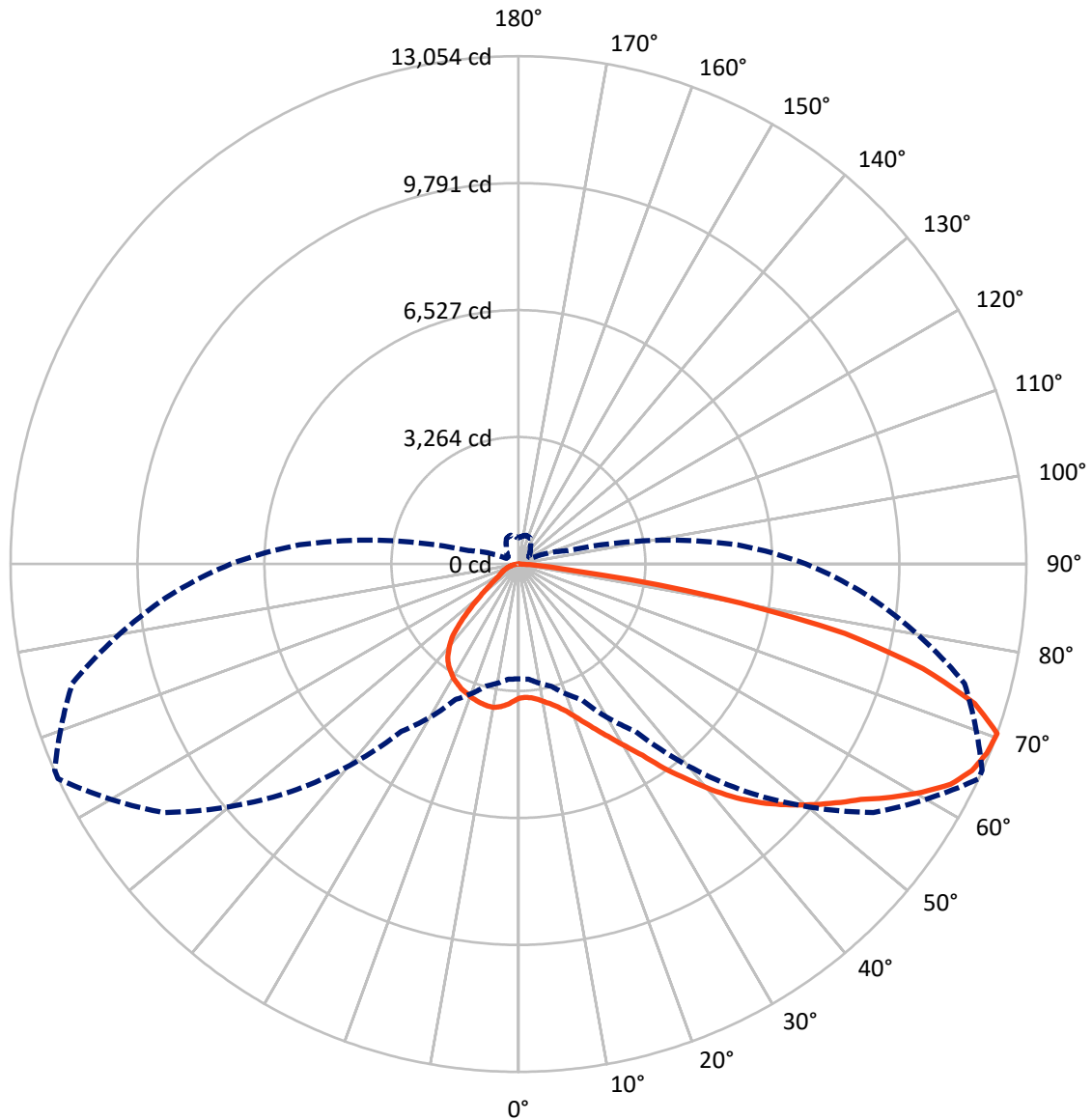
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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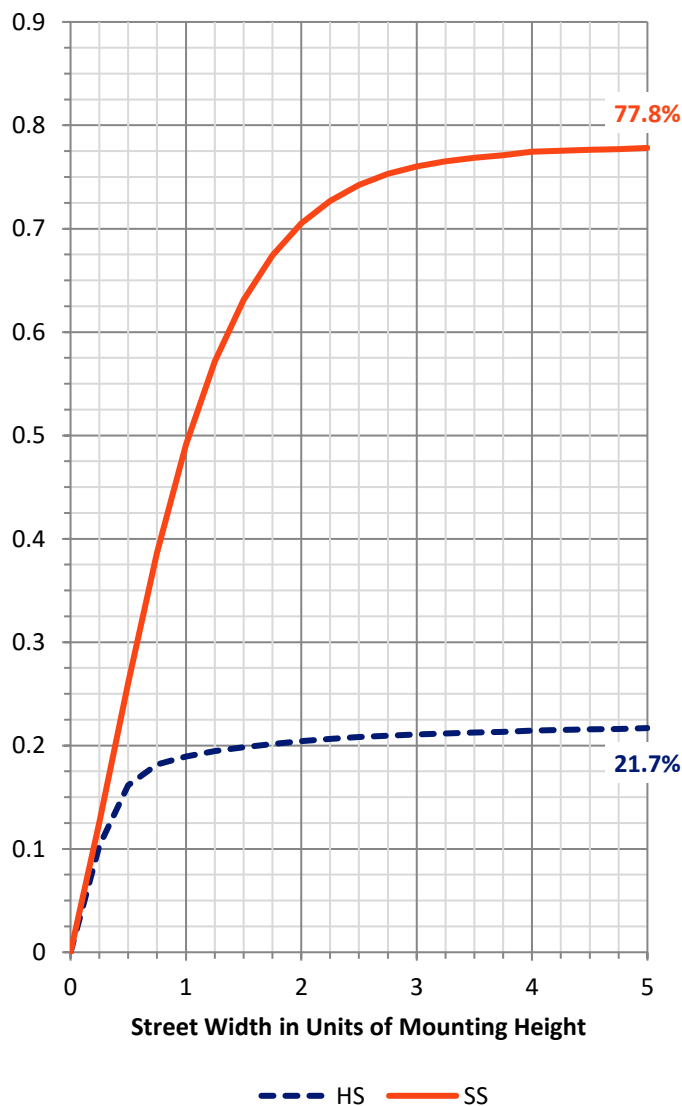
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4982.0	0.0	4982.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17603.0	0.0	17603.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	22585.0	0.0	22585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.9	1.5
10°-20°	1093.2	4.8
20°-30°	1896.6	8.4
30°-40°	2757.5	12.2
40°-50°	3684.1	16.3
50°-60°	4487.6	19.9
60°-70°	4837.7	21.4
70°-80°	3136.5	13.9
80°-90°	345.9	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°	22585.0	100.0
0°-180°	22585.0	100.0

Coefficient of Utilization



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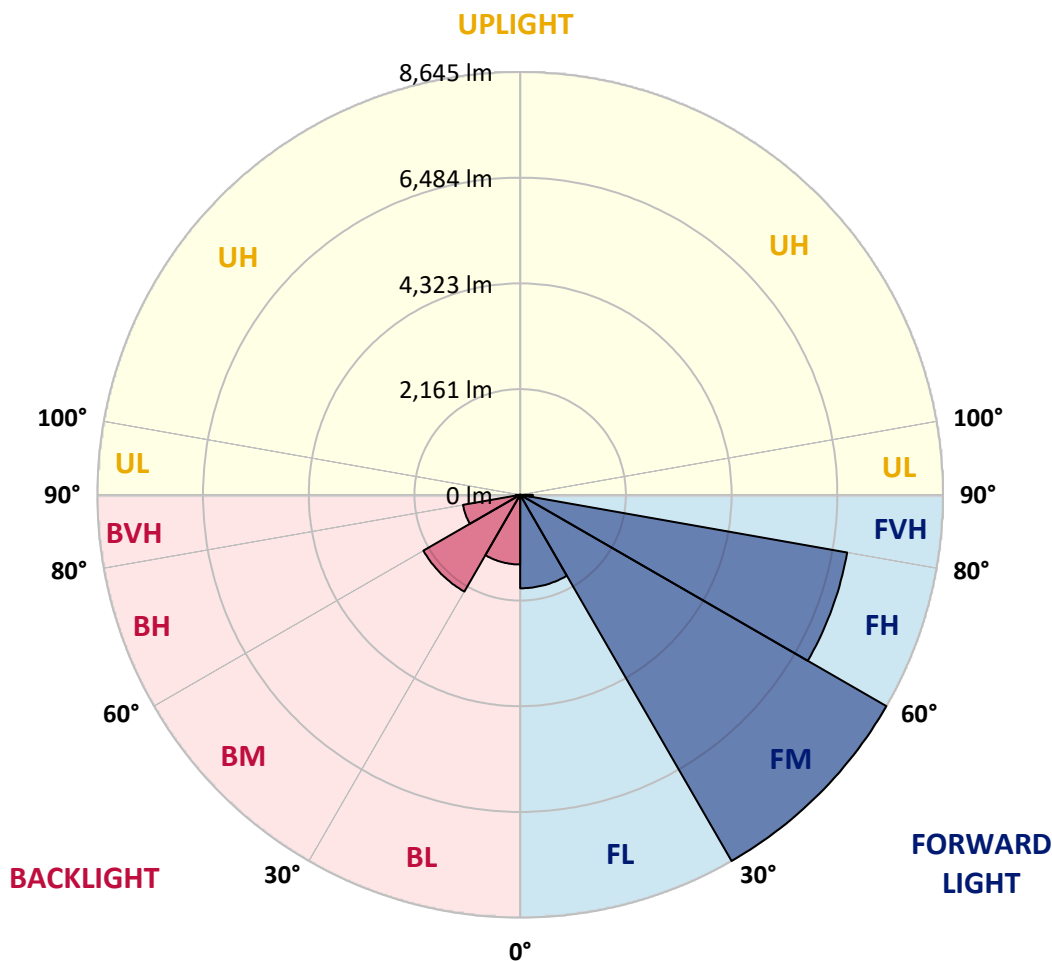
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1911.3	8.5			
FM (30°-60°)	8645.1	38.3			
FH (60°-80°)	6788.5	30.1			G3/7500
FVH (80°-90°)	258.0	1.1			G3/500
BL (0°-30°)	1424.4	6.3	B3/2500		
BM (30°-60°)	2284.1	10.1	B2/2500		
BH (60°-80°)	1185.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	87.9	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°	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1
2.5°	3397.2	3427.7	3411.4	3412.4	3435.9	3416.5	3429.8	3429.8	3428.7	3435.9	3457.2
5°	3480.7	3513.3	3493.9	3481.7	3486.8	3462.3	3457.2	3453.2	3450.1	3458.3	3493.9
7.5°	3602.9	3640.6	3619.2	3608.0	3601.9	3545.8	3535.7	3508.2	3505.1	3512.2	3544.8
10°	3764.8	3815.7	3790.2	3758.7	3737.3	3672.1	3620.2	3595.7	3588.6	3584.5	3618.1
12.5°	3998.0	4042.8	4013.3	3954.2	3925.7	3820.8	3758.7	3689.4	3688.4	3674.2	3699.6
15°	4219.0	4265.8	4228.1	4170.1	4132.4	3990.9	3899.2	3813.7	3803.5	3787.2	3795.3
17.5°	4432.8	4489.8	4463.4	4410.4	4364.6	4206.7	4086.6	3976.6	3965.4	3939.9	3902.3
20°	4698.6	4750.5	4743.4	4695.5	4644.6	4465.4	4334.0	4192.5	4180.3	4134.4	4049.9
22.5°	4964.4	5028.5	4988.8	4980.7	4952.2	4774.0	4590.7	4447.1	4434.9	4374.8	4220.0
25°	5214.9	5271.9	5286.2	5272.9	5276.0	5099.8	4917.5	4737.3	4725.1	4643.6	4419.6
27.5°	5511.2	5565.2	5569.3	5572.3	5608.0	5461.3	5247.5	5062.1	5054.0	4962.3	4678.2
30°	5738.3	5827.9	5846.3	5863.6	5881.9	5803.5	5609.0	5435.9	5419.6	5319.8	4969.5
32.5°	5946.1	6013.3	6078.4	6114.1	6196.6	6126.3	5966.4	5859.5	5860.5	5813.7	5433.8
35°	6107.0	6181.3	6263.8	6394.1	6514.3	6484.8	6434.9	6441.0	6442.0	6462.4	6060.1
37.5°	6260.7	6327.9	6431.8	6587.6	6799.4	6838.1	6871.7	6999.0	7043.8	7139.6	6638.5
40°	6353.4	6424.7	6559.1	6775.0	7049.9	7189.4	7291.3	7618.2	7695.6	7696.6	7085.6
42.5°	6218.0	6296.4	6536.7	6920.6	7276.0	7536.7	7804.5	8217.0	8273.0	8147.7	7467.5
45°	6096.8	6169.1	6427.7	6943.0	7453.2	7907.4	8280.1	8757.7	8798.4	8545.9	7819.8
47.5°	5979.7	6036.7	6336.1	6896.2	7634.5	8279.1	8685.4	9246.5	9276.0	8981.7	8164.0
50°	5817.8	5886.0	6203.7	6841.2	7743.4	8597.8	9082.5	9729.2	9725.1	9373.8	8475.6
52.5°	5640.6	5707.8	6048.9	6740.4	7814.7	8845.3	9534.7	10201.7	10204.7	9823.9	8784.2
55°	5417.5	5500.0	5859.5	6603.9	7832.0	9039.8	9926.7	10686.4	10736.3	10283.2	9081.5
57.5°	5150.7	5233.2	5626.3	6404.3	7729.2	9202.7	10345.3	11305.6	11332.0	10752.6	9303.5
60°	4840.1	4939.9	5315.7	6137.5	7532.6	9392.1	10852.4	11912.5	11921.7	11172.2	9488.9
62.5°	4480.7	4552.0	4947.1	5750.5	7219.0	9467.5	11272.0	12469.5	12471.6	11488.9	9572.4
65°	4091.7	4119.2	4450.1	5224.1	6761.7	9344.2	11432.9	12808.6	12799.5	11766.9	9530.6
67.5°	3628.3	3615.1	3968.5	4573.3	6183.3	8933.9	11354.4	12982.8	13010.3	11980.7	9396.2
70°	2950.1	2969.5	3250.5	3845.2	5249.5	8275.0	11138.6	13054.0	13046.9	11873.8	8963.4
72.5°	2239.3	2273.9	2477.6	2923.6	4074.4	6959.3	10213.9	12265.9	12280.1	11120.2	8184.4
75°	1384.9	1484.7	1656.8	1928.7	2553.0	4985.8	8693.5	10744.5	10816.8	9811.7	6739.3
77.5°	606.9	630.3	716.9	929.7	1335.0	2503.1	6426.7	8580.5	8794.3	7934.9	4861.5
80°	375.8	375.8	400.2	466.4	595.7	930.8	2575.4	5123.2	4906.3	4538.7	2144.6
82.5°	312.6	312.6	324.8	336.1	305.5	394.1	861.5	1435.9	1538.7	1245.4	658.9
85°	170.1	174.1	175.2	178.2	175.2	212.8	339.1	424.6	429.7	389.0	234.2
87.5°	62.1	66.2	64.2	60.1	54.0	50.9	65.2	66.2	68.2	63.1	34.6
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°	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1
2.5°	3471.5	3485.8	3523.4	3526.5	3540.8	3545.8	3558.1	3575.4	3605.9	3590.7	3573.3
5°	3511.2	3529.6	3589.6	3620.2	3659.9	3683.3	3722.0	3741.4	3788.2	3772.9	3770.9
7.5°	3571.3	3610.0	3664.0	3693.5	3745.4	3760.7	3789.2	3789.2	3827.9	3808.6	3803.5
10°	3652.8	3678.2	3735.3	3737.3	3766.8	3766.8	3800.4	3779.0	3816.7	3794.3	3793.3
12.5°	3717.9	3732.2	3753.6	3736.3	3751.5	3734.2	3751.5	3726.1	3749.5	3721.0	3714.9
15°	3791.3	3771.9	3750.5	3709.8	3696.6	3669.1	3654.8	3628.3	3630.4	3597.8	3592.7
17.5°	3873.7	3823.9	3761.7	3673.1	3624.3	3554.0	3524.5	3486.8	3465.4	3435.9	3449.1
20°	3973.5	3899.2	3769.9	3632.4	3528.5	3421.6	3352.4	3291.3	3286.2	3259.7	3245.4
22.5°	4102.9	3983.7	3805.5	3574.4	3407.4	3254.6	3151.7	3049.9	3039.7	2985.8	2965.4
25°	4262.8	4095.7	3823.9	3529.6	3265.8	3056.0	2894.1	2752.6	2684.3	2627.3	2614.1
27.5°	4477.6	4260.7	3860.5	3449.1	3098.8	2809.6	2577.4	2390.0	2308.6	2280.1	2250.5
30°	4729.2	4462.3	3928.7	3381.9	2901.2	2494.9	2211.8	1988.8	1900.2	1855.4	1841.2
32.5°	5099.8	4716.9	3991.9	3270.9	2661.9	2148.7	1780.1	1533.6	1479.6	1471.5	1490.8
35°	5639.5	5195.5	4083.5	3168.0	2380.9	1763.8	1356.4	1195.5	1184.3	1186.4	1186.4
37.5°	6201.7	5651.8	4355.4	3016.3	2036.7	1327.9	1032.6	945.0	949.1	949.1	948.1
40°	6568.3	6018.4	4553.0	2801.4	1609.0	952.1	765.8	699.6	728.1	766.8	787.2
42.5°	6972.5	6351.4	4689.4	2554.0	1119.2	673.1	557.0	580.5	664.0	723.0	731.2
45°	7316.7	6634.5	4704.7	2169.1	721.0	511.2	508.1	575.4	672.1	736.3	741.3
47.5°	7612.1	6892.1	4609.0	1729.1	525.5	477.6	508.1	592.7	680.2	720.0	724.0
50°	7898.2	7096.8	4383.9	1328.9	478.6	465.4	514.3	595.7	650.7	678.2	674.1
52.5°	8152.8	7283.1	4058.1	1036.7	460.3	457.2	519.4	592.7	627.3	625.3	622.2
55°	8346.3	7338.1	3803.5	808.6	445.0	452.1	522.4	595.7	621.2	602.9	598.8
57.5°	8446.1	7269.9	3589.6	642.6	428.7	447.0	530.6	594.7	639.5	674.1	672.1
60°	8444.0	7192.5	3325.9	554.0	412.4	443.0	543.8	645.6	807.5	840.1	841.1
62.5°	8411.5	7060.1	2964.4	501.0	394.1	445.0	553.0	733.2	919.6	893.1	871.7
65°	8303.5	6811.6	2479.6	444.0	370.7	447.0	548.9	793.3	843.2	748.5	735.2
67.5°	8003.1	6331.0	1947.1	397.2	349.3	435.8	556.0	737.3	775.0	714.9	695.5
70°	7393.1	5653.8	1319.8	342.2	324.8	419.6	539.7	725.1	764.8	703.7	675.2
72.5°	6426.7	4537.7	771.9	294.3	289.2	385.9	531.6	733.2	777.0	708.8	672.1
75°	5002.1	3181.3	446.0	238.3	241.3	356.4	487.8	691.4	769.9	716.9	669.0
77.5°	3229.1	1544.8	314.7	190.4	188.4	281.1	396.1	604.9	741.3	724.0	684.3
80°	1155.8	564.2	221.0	141.5	137.5	190.4	304.5	486.8	627.3	649.7	649.7
82.5°	415.5	283.1	141.5	86.6	85.5	121.2	227.1	369.7	455.2	513.2	527.5
85°	174.1	123.2	69.2	43.8	35.6	46.8	117.1	229.1	308.6	332.0	361.5
87.5°	25.5	22.4	18.3	14.3	12.2	12.2	15.3	66.2	110.0	157.8	195.5
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)