

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: P510070

Luminaire Tested: **VERD-M-CA4-200-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-727-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22751 lumens
Efficiency: N/A
Efficacy: 112.7 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

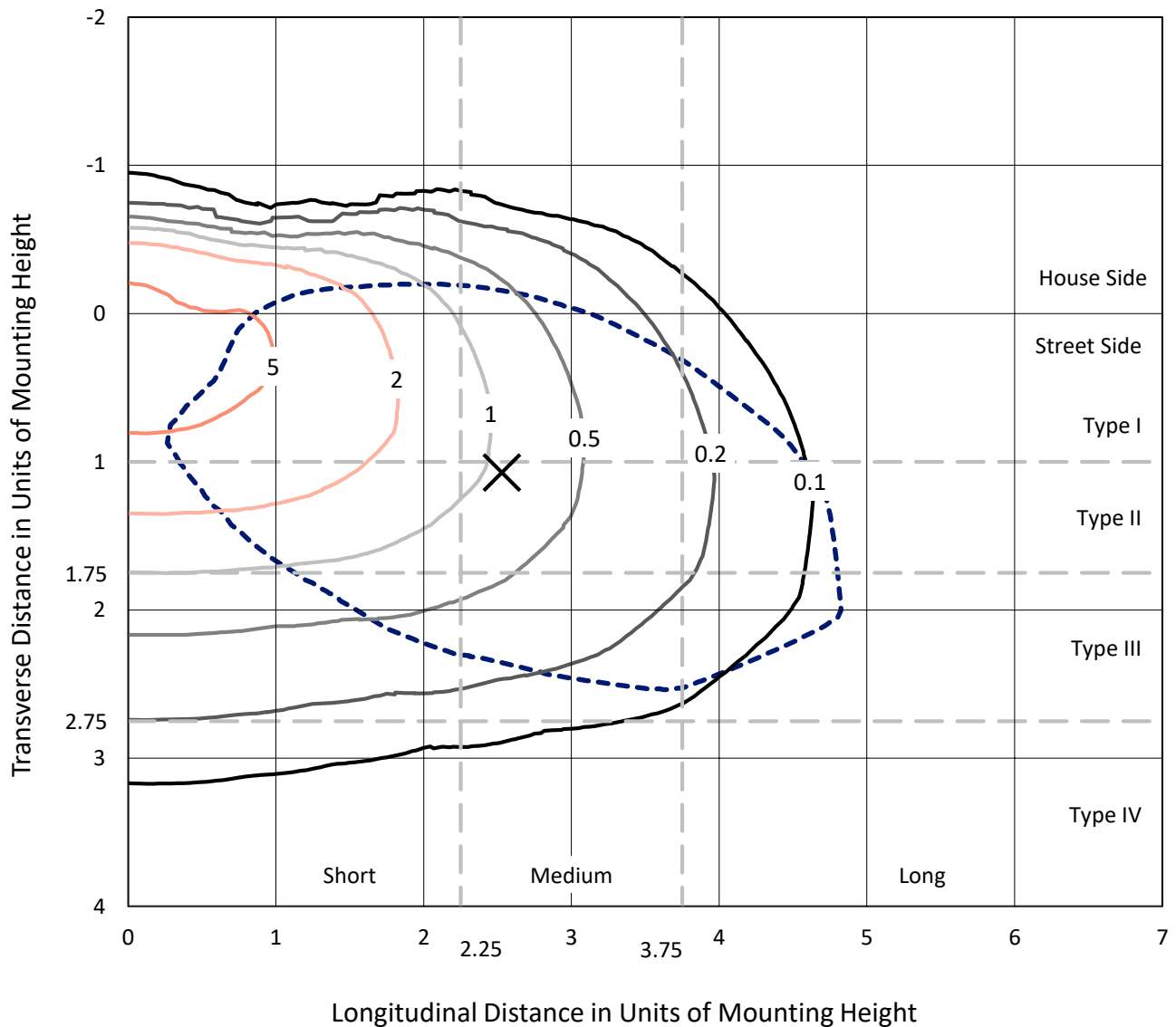
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

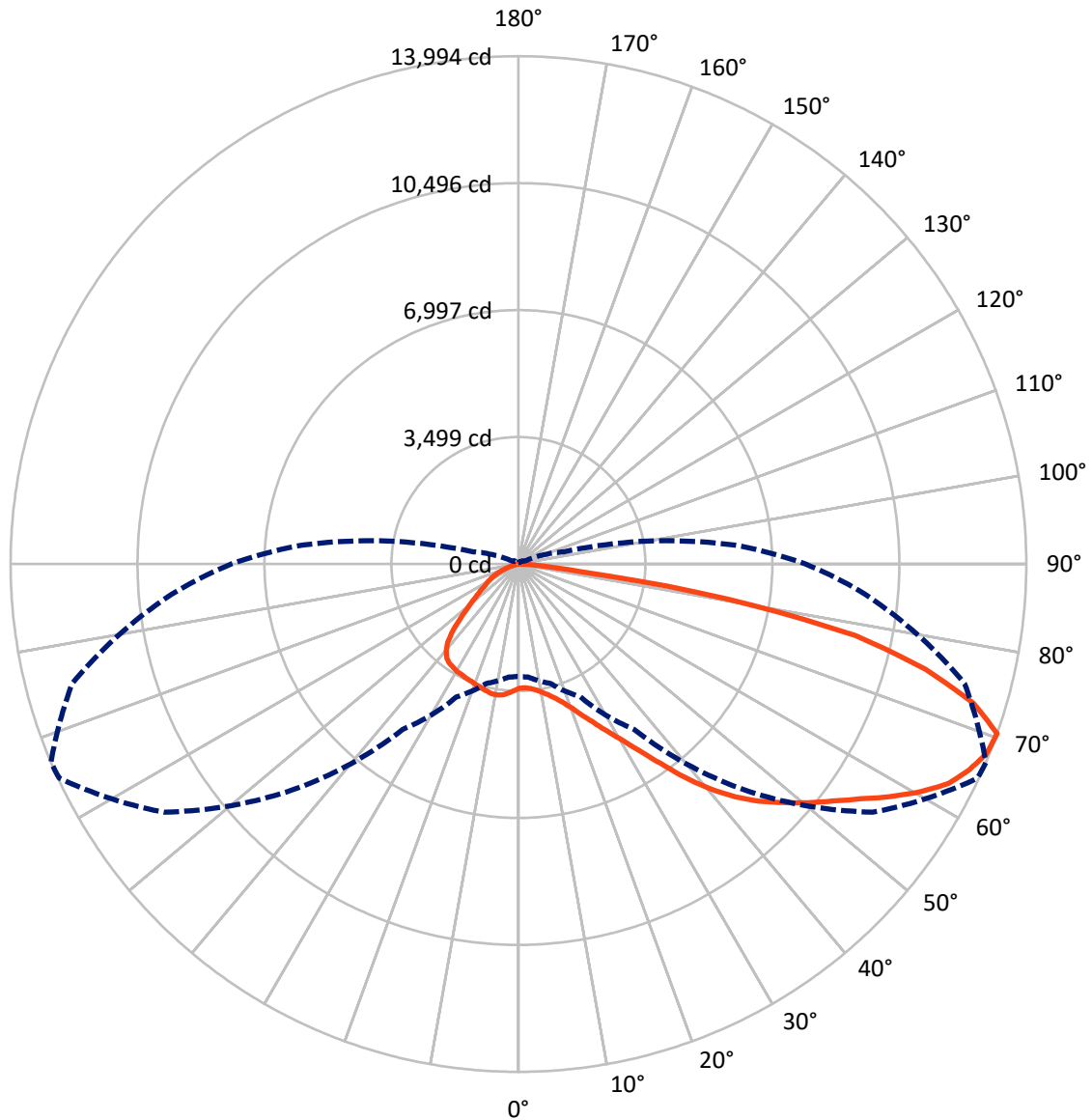
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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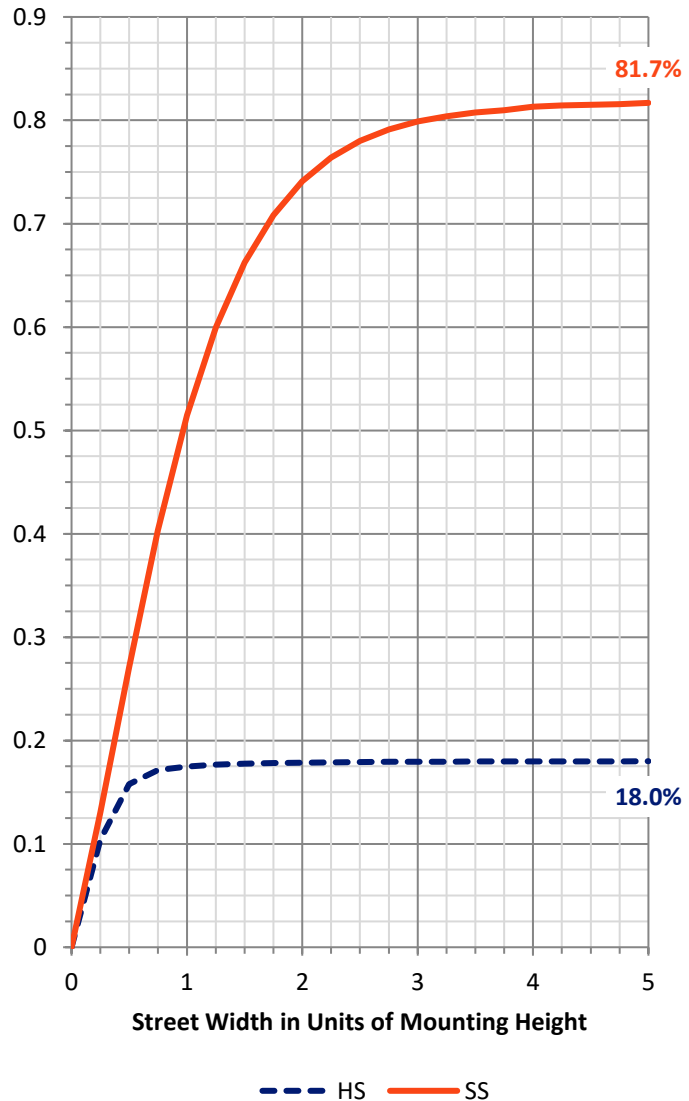
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4145.4	0.0	4145.4
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	18605.6	0.0	18605.6
	% Fixture	81.8	0.0	81.8
Total	Lumens	22751.0	0.0	22751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	1.5
10°-20°	1063.7	4.7
20°-30°	1845.6	8.1
30°-40°	2741.1	12.0
40°-50°	3760.7	16.5
50°-60°	4618.3	20.3
60°-70°	4951.3	21.8
70°-80°	3143.2	13.8
80°-90°	286.0	1.3
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°	22751.0	100.0
0°-180°	22751.0	100.0

Coefficient of Utilization



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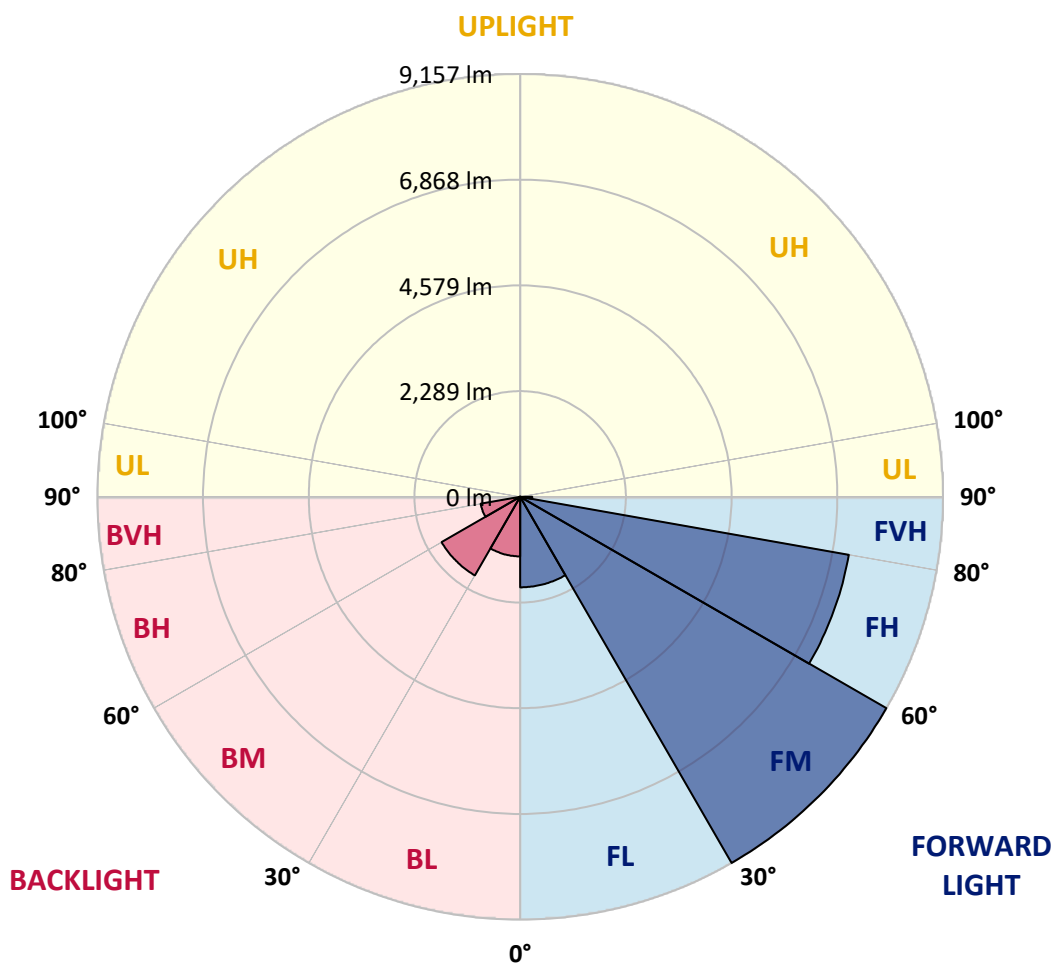
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1960.2	8.6			
FM	(30°-60°)	9157.1	40.2			
FH	(60°-80°)	7227.4	31.8			G3/7500
FVH	(80°-90°)	260.9	1.1			G3/500
BL	(0°-30°)	1290.1	5.7	B3/2500		
BM	(30°-60°)	1963.1	8.6	B2/2500		
BH	(60°-80°)	867.1	3.8	B2/1000		G2/1000
BVH	(80°-90°)	25.1	0.1			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°	67°	75°	85°
0°	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3
2.5°	3391.4	3423.4	3404.6	3402.4	3424.5	3403.5	3417.9	3414.6	3412.4	3415.7	3438.8
5°	3480.6	3518.0	3492.7	3485.0	3497.1	3459.7	3456.4	3448.7	3446.5	3447.6	3480.6
7.5°	3605.0	3649.0	3639.1	3619.3	3612.7	3551.1	3540.0	3512.5	3503.7	3505.9	3538.9
10°	3800.9	3845.0	3825.1	3781.1	3753.6	3683.1	3643.5	3608.3	3590.7	3592.9	3628.1
12.5°	4051.9	4093.7	4060.7	3980.3	3964.9	3851.6	3789.9	3715.1	3703.0	3685.3	3722.8
15°	4288.6	4324.9	4309.5	4234.6	4192.8	4058.5	3945.1	3852.7	3841.7	3825.1	3824.0
17.5°	4550.5	4586.9	4558.2	4503.2	4448.2	4288.6	4166.4	4047.5	4018.9	4004.6	3952.8
20°	4830.1	4887.4	4881.9	4836.7	4770.7	4583.6	4410.7	4276.5	4245.6	4219.2	4110.2
22.5°	5118.5	5193.4	5176.9	5152.7	5125.1	4914.9	4713.5	4558.2	4535.1	4479.0	4307.3
25°	5437.8	5489.5	5477.4	5489.5	5470.8	5284.7	5064.6	4875.3	4844.4	4791.6	4528.5
27.5°	5747.1	5801.0	5821.9	5796.6	5808.7	5675.5	5414.6	5245.1	5215.4	5118.5	4794.9
30°	6026.7	6093.8	6123.5	6134.5	6175.3	6037.7	5845.0	5639.2	5629.3	5530.2	5146.1
32.5°	6250.1	6325.0	6397.6	6444.9	6509.9	6449.4	6257.8	6133.4	6134.5	6045.4	5673.3
35°	6411.9	6497.8	6603.5	6728.9	6865.4	6840.1	6726.7	6728.9	6746.6	6776.3	6345.9
37.5°	6591.3	6660.7	6785.1	6960.1	7168.1	7221.0	7205.6	7380.6	7466.5	7519.3	6937.0
40°	6698.1	6768.6	6923.8	7159.3	7462.1	7588.6	7730.6	8037.7	8150.0	8095.0	7442.2
42.5°	6580.3	6643.1	6912.8	7320.1	7703.1	7990.4	8244.7	8693.8	8775.3	8595.8	7868.2
45°	6427.3	6508.8	6792.8	7364.1	7916.7	8384.5	8779.7	9265.1	9325.6	9071.4	8244.7
47.5°	6301.8	6373.4	6704.7	7316.8	8113.7	8788.5	9249.7	9804.5	9819.9	9506.2	8634.4
50°	6141.1	6228.1	6573.7	7258.4	8232.6	9146.2	9680.1	10307.5	10341.6	9956.4	8964.6
52.5°	5972.7	6057.5	6415.2	7162.6	8318.4	9443.4	10127.0	10842.5	10845.8	10433.0	9316.8
55°	5724.0	5814.2	6210.5	7023.9	8344.9	9640.5	10576.1	11388.5	11422.6	10916.2	9636.1
57.5°	5460.9	5537.9	5963.9	6808.2	8246.9	9826.5	11037.3	11995.0	12088.5	11461.1	9910.1
60°	5111.9	5189.0	5639.2	6525.3	8038.8	10035.6	11565.7	12725.9	12735.8	11902.5	10109.4
62.5°	4736.6	4803.7	5217.6	6081.7	7716.3	10116.0	12019.2	13310.4	13309.3	12295.5	10208.4
65°	4290.8	4318.3	4739.9	5536.8	7215.5	9998.2	12219.5	13695.7	13658.2	12578.4	10175.4
67.5°	3762.4	3792.1	4111.3	4859.9	6489.0	9538.1	12130.4	13881.7	13919.1	12830.5	10032.3
70°	3093.1	3128.4	3406.9	4038.7	5563.2	8803.9	11921.2	13962.0	13994.0	12729.2	9590.9
72.5°	2283.0	2330.3	2500.9	3006.2	4222.5	7397.1	10952.6	13082.5	13100.1	11883.8	8671.8
75°	1417.8	1504.7	1665.4	1997.9	2739.8	5187.9	9362.0	11695.6	11585.5	10600.3	7175.9
77.5°	566.9	581.2	661.6	935.6	1336.3	2701.3	6786.2	9297.0	9507.3	8481.4	5132.8
80°	330.2	328.0	346.7	435.9	573.5	923.5	2639.6	5215.4	5813.1	4658.4	2309.4
82.5°	266.4	256.5	256.5	279.6	275.2	388.6	865.2	1523.5	1671.0	1482.7	657.2
85°	139.8	136.5	111.2	137.6	137.6	193.7	332.4	431.5	455.7	397.4	246.6
87.5°	35.2	35.2	35.2	42.9	34.1	40.7	56.1	68.2	70.4	57.2	36.3
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°	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3
2.5°	3447.6	3457.5	3496.0	3490.5	3497.1	3497.1	3508.1	3520.2	3556.6	3535.6	3526.8
5°	3487.2	3507.0	3555.5	3573.1	3599.5	3602.8	3624.8	3632.5	3672.1	3650.1	3650.1
7.5°	3563.2	3586.3	3631.4	3638.0	3650.1	3629.2	3634.7	3610.5	3636.9	3610.5	3611.6
10°	3649.0	3664.4	3695.3	3651.2	3632.5	3583.0	3572.0	3512.5	3533.4	3499.3	3490.5
12.5°	3731.6	3726.1	3703.0	3624.8	3573.1	3491.6	3457.5	3377.1	3372.7	3327.6	3318.8
15°	3809.7	3771.2	3696.4	3575.3	3487.2	3373.8	3292.4	3204.3	3173.5	3121.8	3117.4
17.5°	3905.5	3839.4	3706.3	3527.9	3383.7	3218.6	3103.0	3004.0	2940.1	2892.8	2891.7
20°	4022.2	3920.9	3710.7	3474.0	3277.0	3065.6	2903.8	2778.3	2687.0	2627.5	2626.4
22.5°	4168.6	4031.0	3751.4	3412.4	3140.5	2880.7	2679.2	2462.4	2336.9	2215.8	2193.8
25°	4340.3	4142.2	3786.6	3380.4	3006.2	2688.1	2388.6	2071.6	1876.8	1779.9	1743.6
27.5°	4581.4	4327.1	3838.3	3319.9	2879.6	2450.3	2014.4	1668.8	1434.3	1351.7	1351.7
30°	4859.9	4560.4	3935.2	3283.6	2703.5	2116.8	1603.8	1232.9	1014.9	890.5	887.2
32.5°	5284.7	4838.9	4023.3	3205.4	2489.9	1753.5	1160.2	794.7	619.7	542.7	538.3
35°	5895.7	5369.5	4165.3	3127.3	2180.6	1305.5	736.4	455.7	353.3	309.3	307.1
37.5°	6483.5	5874.8	4471.3	2972.1	1741.4	820.1	408.4	263.1	215.7	210.2	208.0
40°	6897.4	6310.7	4687.0	2735.4	1237.3	434.8	236.7	190.4	187.1	184.9	183.8
42.5°	7348.7	6634.3	4840.0	2433.8	734.2	252.1	192.6	171.7	166.2	164.0	164.0
45°	7715.2	6945.8	4868.7	2002.3	369.9	208.0	176.1	156.3	149.7	154.1	155.2
47.5°	8053.2	7239.7	4771.8	1505.8	249.9	193.7	165.1	145.3	140.9	151.9	151.9
50°	8341.6	7488.5	4549.4	1123.9	234.5	182.7	154.1	134.3	133.2	143.1	144.2
52.5°	8628.9	7688.8	4199.4	848.7	222.4	170.6	143.1	124.4	121.1	127.7	128.8
55°	8856.7	7760.4	3939.6	631.8	213.5	159.6	133.2	114.5	106.8	105.7	107.9
57.5°	8982.2	7697.6	3685.3	464.5	203.6	149.7	123.3	101.3	89.2	89.2	89.2
60°	8984.4	7621.7	3413.5	367.7	192.6	138.7	112.3	87.0	74.9	72.7	72.7
62.5°	8960.2	7486.3	3018.3	319.2	180.5	129.9	98.0	73.8	64.9	61.6	61.6
65°	8853.4	7230.9	2539.5	273.0	166.2	123.3	83.7	66.0	58.3	53.9	53.9
67.5°	8521.0	6752.1	1954.9	237.8	153.0	109.0	76.0	59.4	51.7	47.3	46.2
70°	7911.2	5978.2	1290.1	202.5	139.8	96.9	69.3	53.9	46.2	41.8	40.7
72.5°	6888.6	4865.4	648.3	171.7	120.0	89.2	62.7	47.3	39.6	35.2	35.2
75°	5398.1	3377.1	353.3	136.5	94.7	78.2	55.0	39.6	34.1	30.8	30.8
77.5°	3310.0	1674.3	241.1	105.7	71.5	63.8	44.0	33.0	29.7	28.6	28.6
80°	1207.5	548.2	161.8	74.9	53.9	49.5	35.2	28.6	27.5	27.5	27.5
82.5°	435.9	278.5	109.0	50.6	34.1	37.4	28.6	24.2	23.1	24.2	25.3
85°	179.4	122.2	39.6	28.6	18.7	19.8	17.6	16.5	17.6	18.7	18.7
87.5°	27.5	24.2	14.3	14.3	11.0	9.9	7.7	8.8	11.0	13.2	13.2
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)