

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: P509998

Luminaire Tested: **VERD-M-CA3-180-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509998
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-CA3-180-750-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24267 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

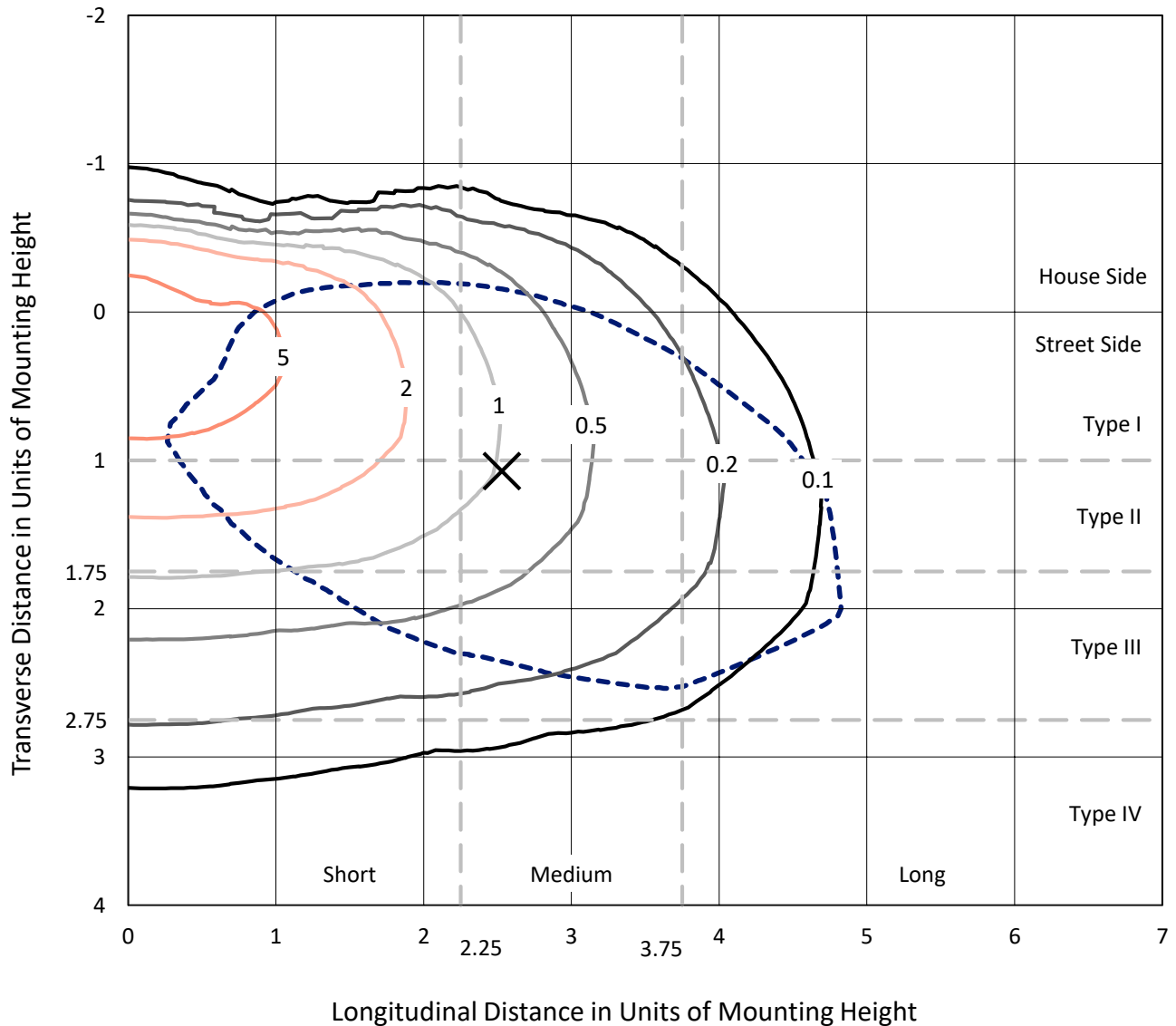
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

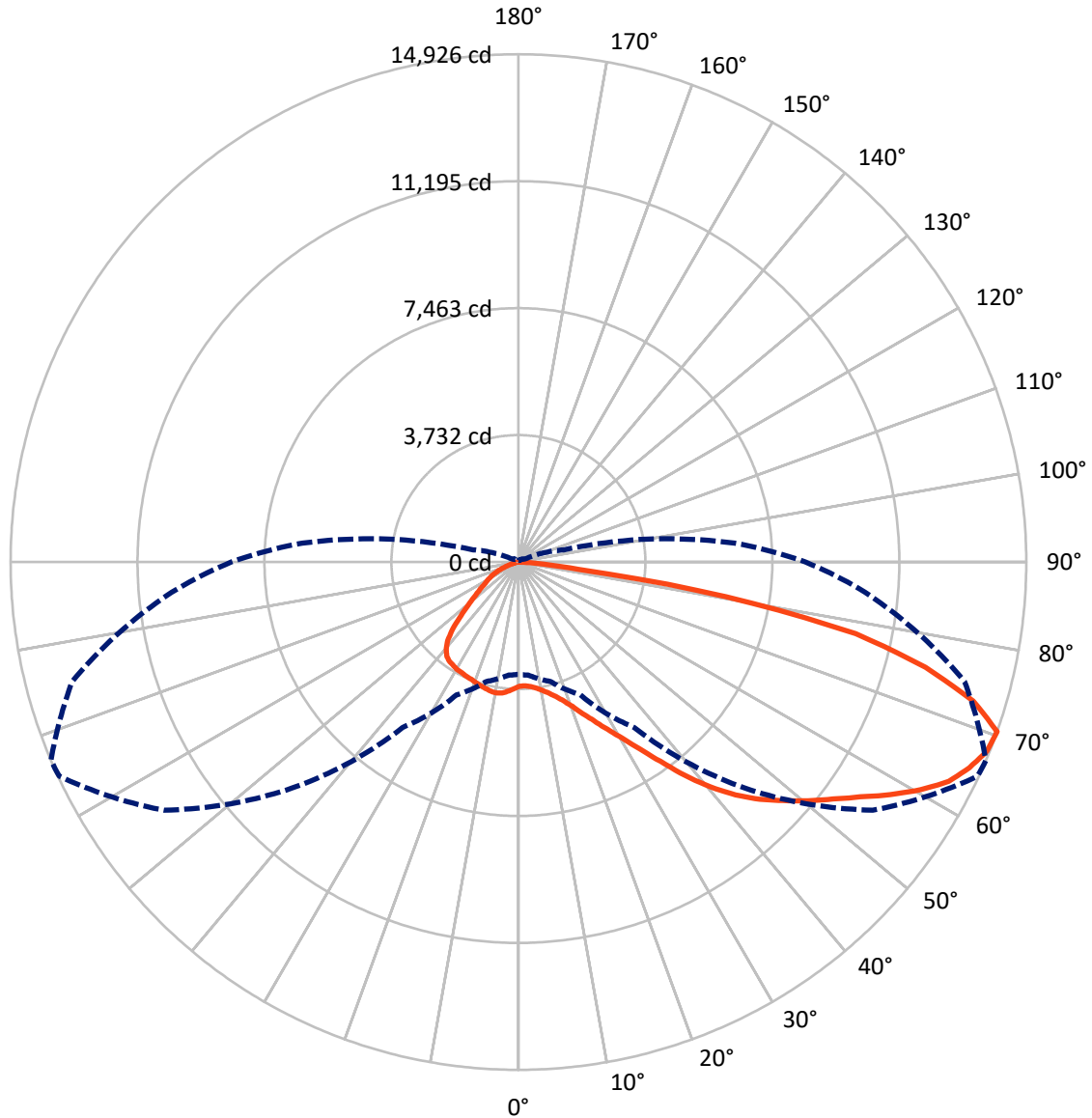
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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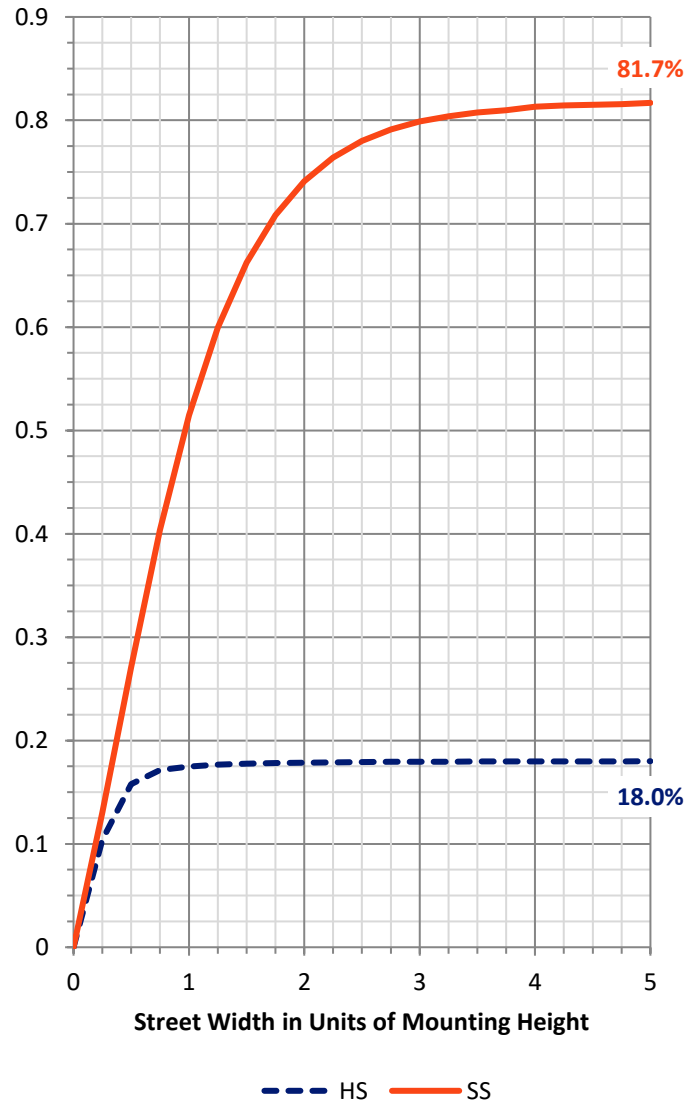
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4421.6	0.0	4421.6
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	19845.4	0.0	19845.4
	% Fixture	81.8	0.0	81.8
Total	Lumens	24267.0	0.0	24267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.5
10°-20°	1134.6	4.7
20°-30°	1968.6	8.1
30°-40°	2923.8	12.0
40°-50°	4011.3	16.5
50°-60°	4926.1	20.3
60°-70°	5281.3	21.8
70°-80°	3352.6	13.8
80°-90°	305.1	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°	24267.0	100.0
0°-180°	24267.0	100.0

Coefficient of Utilization



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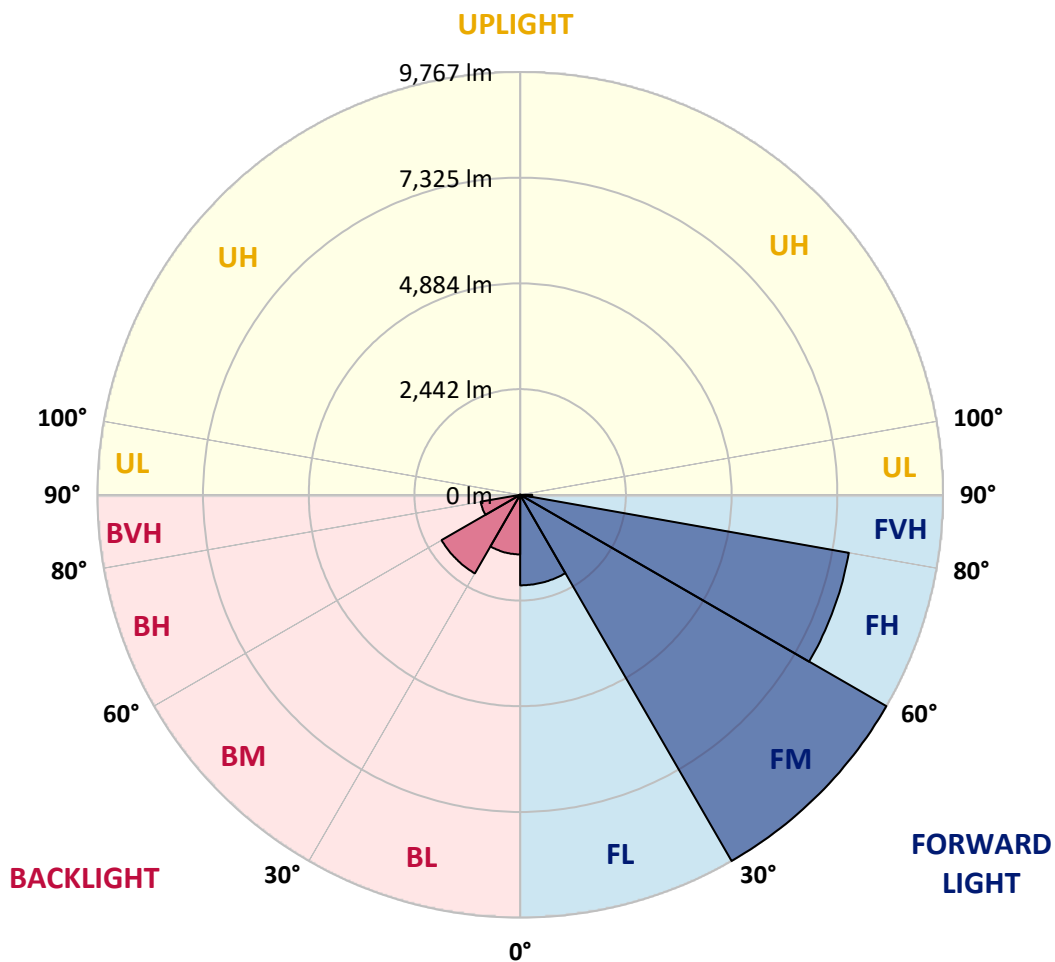
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2090.8	8.6			
FM (30°-60°)	9767.2	40.2			
FH (60°-80°)	7709.0	31.8			G4/12000
FVH (80°-90°)	278.3	1.1			G3/500
BL (0°-30°)	1376.1	5.7	B3/2500		
BM (30°-60°)	2093.9	8.6	B2/2500		
BH (60°-80°)	924.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	26.8	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3
2.5°	3617.4	3651.5	3631.5	3629.2	3652.7	3630.3	3645.6	3642.1	3639.7	3643.3	3667.9
5°	3712.5	3752.4	3725.4	3717.2	3730.1	3690.2	3686.7	3678.5	3676.1	3677.3	3712.5
7.5°	3845.2	3892.2	3881.6	3860.5	3853.4	3787.7	3775.9	3746.6	3737.2	3739.5	3774.8
10°	4054.2	4101.2	4080.0	4033.1	4003.7	3928.6	3886.3	3848.7	3829.9	3832.3	3869.9
12.5°	4321.9	4366.5	4331.3	4245.6	4229.1	4108.2	4042.5	3962.6	3949.7	3930.9	3970.8
15°	4574.3	4613.1	4596.6	4516.8	4472.2	4328.9	4208.0	4109.4	4097.6	4080.0	4078.9
17.5°	4853.8	4892.5	4862.0	4803.3	4744.6	4574.3	4444.0	4317.2	4286.7	4271.4	4216.2
20°	5152.0	5213.0	5207.2	5159.0	5088.6	4889.0	4704.7	4561.4	4528.5	4500.4	4384.1
22.5°	5459.6	5539.4	5521.8	5496.0	5466.6	5242.4	5027.5	4862.0	4837.3	4777.4	4594.3
25°	5800.1	5855.3	5842.4	5855.3	5835.3	5636.9	5402.1	5200.1	5167.3	5110.9	4830.3
27.5°	6130.0	6187.6	6209.9	6182.9	6195.8	6053.7	5775.4	5594.6	5562.9	5459.6	5114.4
30°	6428.2	6499.9	6531.6	6543.3	6586.7	6440.0	6234.5	6015.0	6004.4	5898.7	5489.0
32.5°	6666.6	6746.4	6823.9	6874.4	6943.7	6879.1	6674.8	6542.1	6543.3	6448.2	6051.4
35°	6839.2	6930.8	7043.5	7177.3	7322.9	7295.9	7175.0	7177.3	7196.1	7227.8	6768.7
37.5°	7030.6	7104.5	7237.2	7423.9	7645.8	7702.2	7685.7	7872.4	7964.0	8020.3	7399.2
40°	7144.4	7219.6	7385.1	7636.4	7959.3	8094.3	8245.8	8573.3	8693.1	8634.4	7938.1
42.5°	7018.8	7085.7	7373.4	7807.8	8216.4	8522.9	8794.1	9273.1	9360.0	9168.6	8392.5
45°	6855.6	6942.5	7245.4	7854.8	8444.2	8943.2	9364.7	9882.5	9947.0	9675.8	8794.1
47.5°	6721.8	6798.1	7151.5	7804.3	8654.4	9374.1	9866.0	10457.8	10474.2	10139.6	9209.7
50°	6550.3	6643.1	7011.8	7742.1	8781.2	9755.7	10325.1	10994.3	11030.7	10619.8	9561.9
52.5°	6370.7	6461.1	6842.7	7639.9	8872.7	10072.7	10801.8	11565.0	11568.5	11128.2	9937.7
55°	6105.4	6201.6	6624.3	7492.0	8900.9	10282.8	11280.8	12147.3	12183.7	11643.6	10278.1
57.5°	5824.8	5906.9	6361.3	7261.9	8796.4	10481.3	11772.8	12794.3	12894.1	12224.8	10570.5
60°	5452.6	5534.7	6015.0	6960.1	8574.5	10704.3	12336.4	13573.9	13584.4	12695.6	10783.0
62.5°	5052.2	5123.8	5565.3	6486.9	8230.5	10790.1	12820.1	14197.3	14196.1	13114.8	10888.7
65°	4576.7	4606.0	5055.7	5905.8	7696.3	10664.4	13033.8	14608.3	14568.3	13416.5	10853.5
67.5°	4013.1	4044.8	4385.3	5183.7	6921.4	10173.6	12938.7	14806.7	14846.6	13685.4	10700.8
70°	3299.2	3336.8	3633.9	4307.8	5933.9	9390.5	12715.6	14892.4	14926.4	13577.4	10230.0
72.5°	2435.1	2485.6	2667.6	3206.5	4503.9	7890.0	11682.4	13954.3	13973.1	12675.7	9249.6
75°	1512.3	1605.0	1776.4	2131.0	2922.4	5533.6	9985.8	12474.9	12357.5	11306.7	7654.0
77.5°	604.7	619.9	705.6	998.0	1425.4	2881.3	7238.4	9916.5	10140.8	9046.5	5474.9
80°	352.2	349.9	369.8	464.9	611.7	985.1	2815.5	5562.9	6200.5	4968.8	2463.3
82.5°	284.1	273.6	273.6	298.2	293.5	414.5	922.8	1625.0	1782.3	1581.5	700.9
85°	149.1	145.6	118.6	146.8	146.8	206.6	354.6	460.3	486.1	423.9	263.0
87.5°	37.6	37.6	37.6	45.8	36.4	43.4	59.9	72.8	75.1	61.1	38.7
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°	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3	3650.3
2.5°	3677.3	3687.9	3729.0	3723.1	3730.1	3730.1	3741.9	3754.8	3793.5	3771.2	3761.8
5°	3719.6	3740.7	3792.4	3811.2	3839.3	3842.9	3866.3	3874.6	3916.8	3893.3	3893.3
7.5°	3800.6	3825.2	3873.4	3880.4	3893.3	3871.0	3876.9	3851.1	3879.3	3851.1	3852.2
10°	3892.2	3908.6	3941.5	3894.5	3874.6	3821.7	3810.0	3746.6	3768.9	3732.5	3723.1
12.5°	3980.2	3974.4	3949.7	3866.3	3811.2	3724.3	3687.9	3602.2	3597.5	3549.3	3539.9
15°	4063.6	4022.5	3942.7	3813.5	3719.6	3598.6	3511.8	3417.8	3385.0	3329.8	3325.1
17.5°	4165.7	4095.3	3953.2	3763.0	3609.2	3433.1	3309.8	3204.1	3136.0	3085.6	3084.4
20°	4290.2	4182.2	3957.9	3705.5	3495.3	3269.9	3097.3	2963.4	2866.0	2802.6	2801.4
22.5°	4446.3	4299.6	4001.4	3639.7	3349.7	3072.6	2857.8	2626.5	2492.6	2363.5	2340.0
25°	4629.5	4418.2	4038.9	3605.7	3206.5	2867.2	2547.8	2209.7	2001.9	1898.5	1859.8
27.5°	4886.6	4615.4	4094.1	3541.1	3071.5	2613.6	2148.6	1779.9	1529.9	1441.8	1441.8
30°	5183.7	4864.3	4197.4	3502.4	2883.6	2257.8	1710.7	1315.0	1082.5	949.9	946.3
32.5°	5636.9	5161.4	4291.4	3419.0	2655.8	1870.4	1237.5	847.7	661.0	578.8	574.1
35°	6288.5	5727.3	4442.8	3335.6	2325.9	1392.5	785.5	486.1	376.9	329.9	327.6
37.5°	6915.5	6266.2	4769.2	3170.1	1857.4	874.7	435.6	280.6	230.1	224.3	221.9
40°	7357.0	6731.2	4999.4	2917.7	1319.7	463.8	252.4	203.1	199.6	197.3	196.1
42.5°	7838.3	7076.4	5162.6	2596.0	783.1	268.9	205.5	183.2	177.3	174.9	174.9
45°	8229.3	7408.6	5193.1	2135.7	394.5	221.9	187.9	166.7	159.7	164.4	165.5
47.5°	8589.8	7722.1	5089.8	1606.2	266.5	206.6	176.1	155.0	150.3	162.0	162.0
50°	8897.4	7987.5	4852.6	1198.8	250.1	194.9	164.4	143.2	142.1	152.6	153.8
52.5°	9203.8	8201.1	4479.2	905.2	237.2	182.0	152.6	132.7	129.2	136.2	137.4
55°	9446.9	8277.5	4202.1	673.9	227.8	170.2	142.1	122.1	113.9	112.7	115.1
57.5°	9580.7	8210.5	3930.9	495.5	217.2	159.7	131.5	108.0	95.1	95.1	95.1
60°	9583.1	8129.5	3640.9	392.2	205.5	147.9	119.8	92.8	79.8	77.5	77.5
62.5°	9557.2	7985.1	3219.4	340.5	192.6	138.5	104.5	78.7	69.3	65.8	65.8
65°	9443.4	7712.7	2708.7	291.2	177.3	131.5	89.2	70.4	62.2	57.5	57.5
67.5°	9088.8	7202.0	2085.2	253.6	163.2	116.2	81.0	63.4	55.2	50.5	49.3
70°	8438.3	6376.6	1376.1	216.0	149.1	103.3	74.0	57.5	49.3	44.6	43.4
72.5°	7347.6	5189.6	691.5	183.2	128.0	95.1	66.9	50.5	42.3	37.6	37.6
75°	5757.8	3602.2	376.9	145.6	101.0	83.4	58.7	42.3	36.4	32.9	32.9
77.5°	3530.5	1785.8	257.1	112.7	76.3	68.1	47.0	35.2	31.7	30.5	30.5
80°	1288.0	584.7	172.6	79.8	57.5	52.8	37.6	30.5	29.4	29.4	29.4
82.5°	464.9	297.0	116.2	54.0	36.4	39.9	30.5	25.8	24.7	25.8	27.0
85°	191.4	130.3	42.3	30.5	20.0	21.1	18.8	17.6	18.8	20.0	20.0
87.5°	29.4	25.8	15.3	15.3	11.7	10.6	8.2	9.4	11.7	14.1	14.1
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)