

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: P510054

Luminaire Tested: **VERD-M-CA4-190-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510054
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-CA4-190-760-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 870mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25738 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

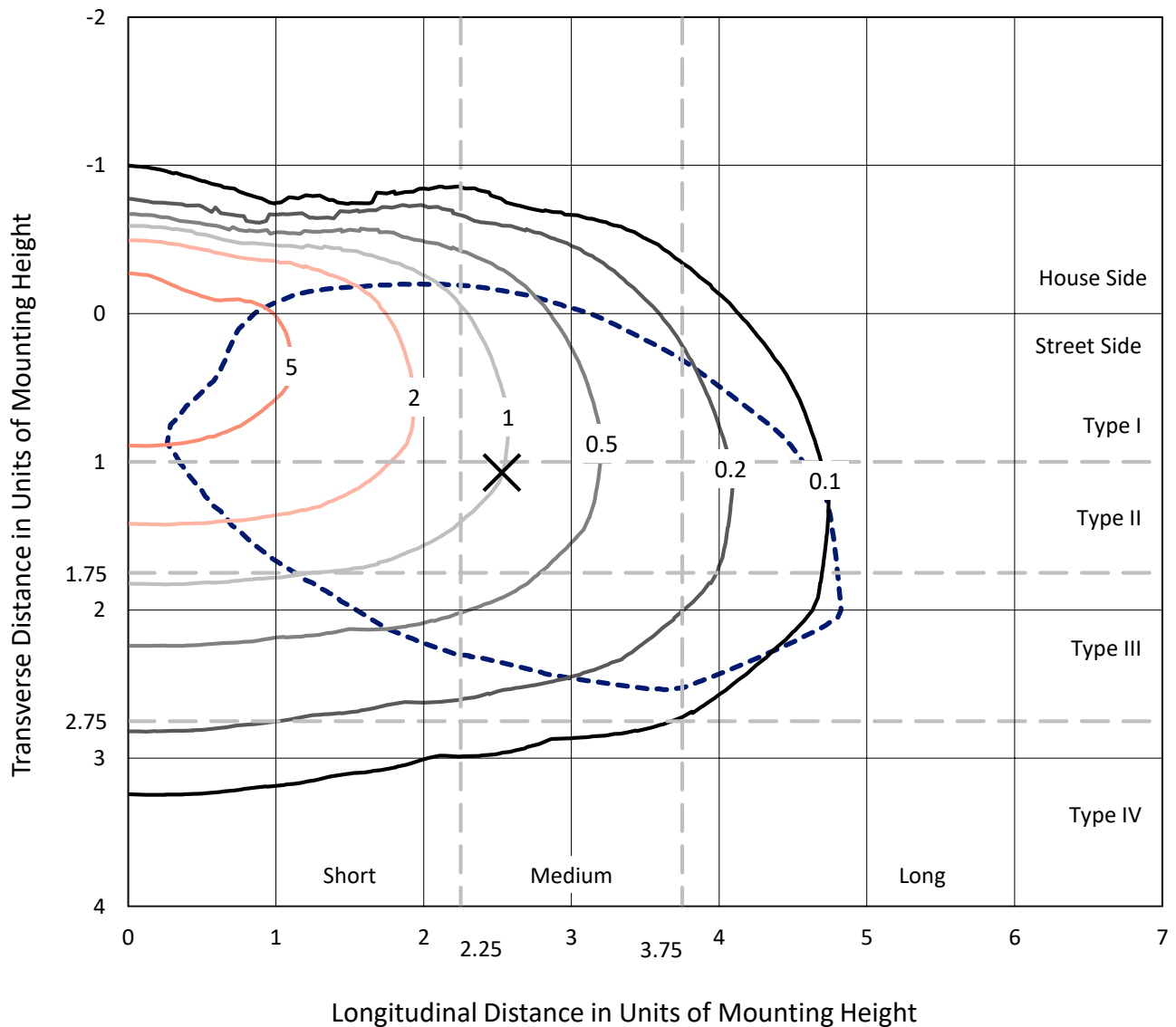
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

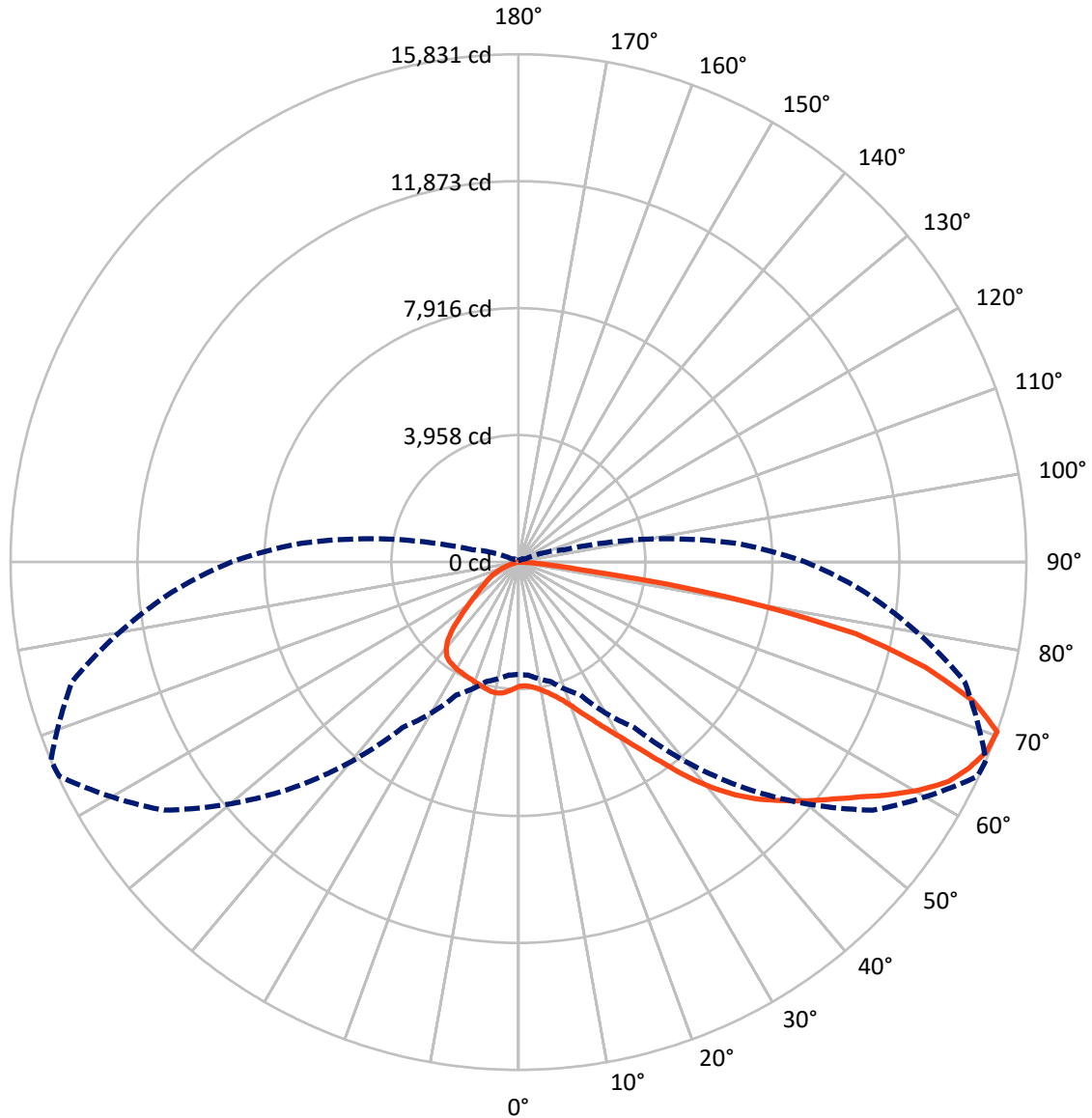
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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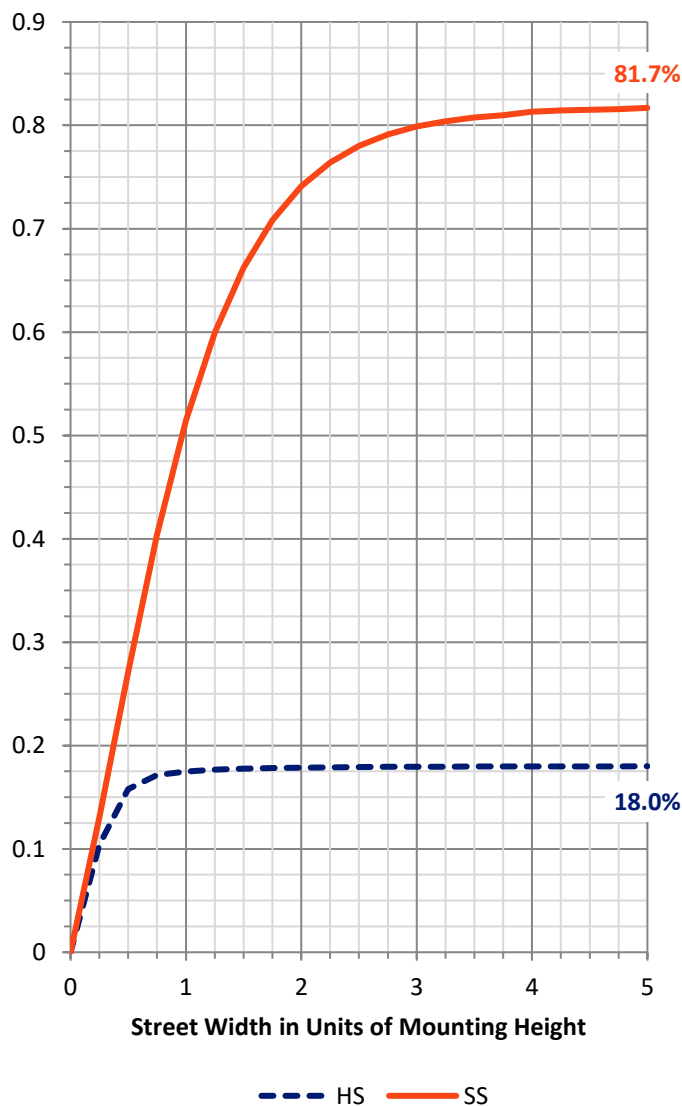
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4689.7	0.0	4689.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	21048.3	0.0	21048.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	25738.0	0.0	25738.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	1.5
10°-20°	1203.4	4.7
20°-30°	2087.9	8.1
30°-40°	3101.0	12.0
40°-50°	4254.4	16.5
50°-60°	5224.7	20.3
60°-70°	5601.4	21.8
70°-80°	3555.8	13.8
80°-90°	323.6	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°	25738.0	100.0
0°-180°	25738.0	100.0



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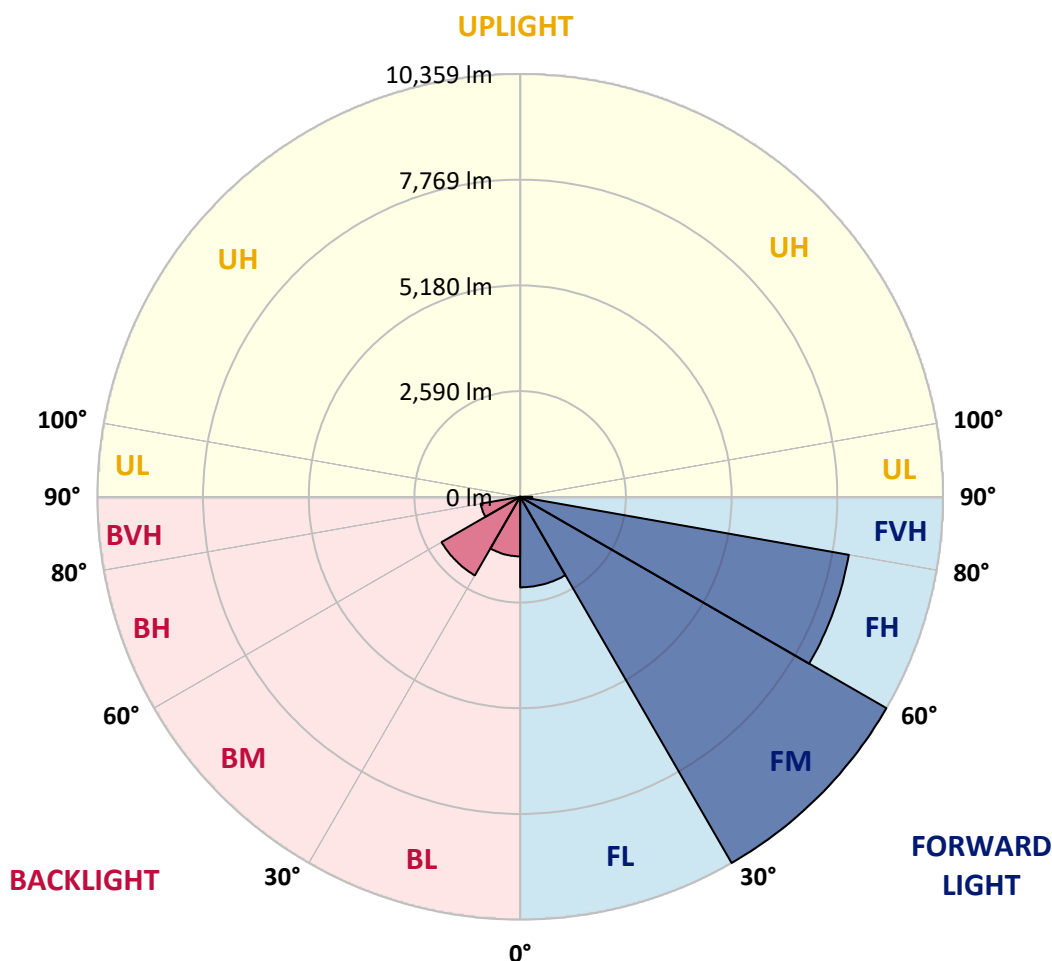
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2217.5	8.6			
FM	(30°-60°)	10359.3	40.2			
FH	(60°-80°)	8176.3	31.8			G4/12000
FVH	(80°-90°)	295.2	1.1			G3/500
BL	(0°-30°)	1459.5	5.7	B3/2500		
BM	(30°-60°)	2220.8	8.6	B2/2500		
BH	(60°-80°)	980.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	28.4	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°	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6
2.5°	3836.7	3872.8	3851.6	3849.2	3874.1	3850.4	3866.6	3862.9	3860.4	3864.1	3890.3
5°	3937.6	3979.9	3951.3	3942.6	3956.3	3913.9	3910.2	3901.5	3899.0	3900.2	3937.6
7.5°	4078.3	4128.1	4116.9	4094.5	4087.0	4017.3	4004.8	3973.7	3963.7	3966.2	4003.6
10°	4300.0	4349.8	4327.3	4277.5	4246.4	4166.7	4121.9	4082.0	4062.1	4064.6	4104.4
12.5°	4583.9	4631.2	4593.8	4502.9	4485.5	4357.2	4287.5	4202.8	4189.1	4169.2	4211.5
15°	4851.6	4892.7	4875.3	4790.6	4743.3	4591.3	4463.1	4358.5	4346.0	4327.3	4326.1
17.5°	5148.0	5189.1	5156.7	5094.4	5032.2	4851.6	4713.4	4578.9	4546.5	4530.3	4471.8
20°	5464.3	5529.0	5522.8	5471.8	5397.0	5185.3	4989.8	4837.9	4803.0	4773.2	4649.9
22.5°	5790.5	5875.2	5856.5	5829.2	5798.0	5560.2	5332.3	5156.7	5130.6	5067.0	4872.8
25°	6151.7	6210.2	6196.5	6210.2	6189.0	5978.6	5729.5	5515.3	5480.5	5420.7	5123.1
27.5°	6501.6	6562.6	6586.3	6557.6	6571.3	6420.7	6125.5	5933.8	5900.1	5790.5	5424.4
30°	6817.9	6893.9	6927.5	6939.9	6986.0	6830.4	6612.4	6379.6	6368.4	6256.3	5821.7
32.5°	7070.7	7155.4	7237.6	7291.1	7364.6	7296.1	7079.4	6938.7	6939.9	6839.1	6418.2
35°	7253.8	7350.9	7470.4	7612.4	7766.8	7738.2	7609.9	7612.4	7632.3	7665.9	7179.0
37.5°	7456.7	7535.2	7675.9	7873.9	8109.3	8169.0	8151.6	8349.6	8446.7	8506.5	7847.8
40°	7577.5	7657.2	7832.8	8099.3	8441.7	8585.0	8745.6	9093.0	9220.0	9157.8	8419.3
42.5°	7444.3	7515.3	7820.4	8281.1	8714.5	9039.5	9327.1	9835.2	9927.4	9724.4	8901.3
45°	7271.2	7363.3	7684.6	8330.9	8956.1	9485.3	9932.3	10481.5	10550.0	10262.3	9327.1
47.5°	7129.2	7210.2	7585.0	8277.4	9179.0	9942.3	10464.1	11091.7	11109.1	10754.2	9768.0
50°	6947.4	7045.8	7436.8	8211.4	9313.4	10347.0	10951.0	11660.8	11699.4	11263.6	10141.6
52.5°	6756.9	6852.8	7257.5	8103.0	9410.6	10683.3	11456.6	12266.0	12269.7	11802.8	10540.0
55°	6475.5	6577.6	7025.9	7946.1	9440.5	10906.2	11964.6	12883.7	12922.3	12349.4	10901.2
57.5°	6177.8	6265.0	6746.9	7702.1	9329.6	11116.6	12486.4	13569.8	13675.7	12965.9	11211.3
60°	5783.1	5870.2	6379.6	7382.0	9094.3	11353.2	13084.2	14396.7	14407.9	13465.2	11436.6
62.5°	5358.4	5434.4	5902.6	6880.2	8729.4	11444.1	13597.2	15057.9	15056.7	13909.8	11548.7
65°	4854.1	4885.2	5362.2	6263.8	8162.8	11310.9	13823.8	15493.8	15451.4	14229.8	11511.4
67.5°	4256.4	4290.0	4651.1	5497.9	7340.9	10790.3	13723.0	15704.2	15746.6	14515.0	11349.5
70°	3499.2	3539.1	3854.1	4568.9	6293.6	9959.7	13486.4	15795.1	15831.2	14400.4	10850.1
72.5°	2582.7	2636.3	2829.3	3400.9	4776.9	8368.3	12390.5	14800.1	14820.1	13444.0	9810.3
75°	1603.9	1702.3	1884.1	2260.2	3099.5	5869.0	10591.1	13231.1	13106.6	11992.0	8118.0
77.5°	641.3	657.5	748.4	1058.5	1511.8	3055.9	7677.1	10517.6	10755.5	9594.9	5806.7
80°	373.6	371.1	392.3	493.1	648.8	1044.8	2986.2	5900.1	6576.3	5270.0	2612.6
82.5°	301.4	290.2	290.2	316.3	311.3	439.6	978.8	1723.5	1890.3	1677.4	743.4
85°	158.2	154.4	125.8	155.7	155.7	219.2	376.1	488.1	515.5	449.5	278.9
87.5°	39.8	39.8	39.8	48.6	38.6	46.1	63.5	77.2	79.7	64.8	41.1
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°	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6	3871.6
2.5°	3900.2	3911.4	3955.0	3948.8	3956.3	3956.3	3968.7	3982.4	4023.5	3999.8	3989.9
5°	3945.0	3967.5	4022.3	4042.2	4072.1	4075.8	4100.7	4109.4	4154.3	4129.3	4129.3
7.5°	4031.0	4057.1	4108.2	4115.6	4129.3	4105.7	4111.9	4084.5	4114.4	4084.5	4085.8
10°	4128.1	4145.5	4180.4	4130.6	4109.4	4053.4	4040.9	3973.7	3997.3	3958.7	3948.8
12.5°	4221.5	4215.3	4189.1	4100.7	4042.2	3950.0	3911.4	3820.5	3815.5	3764.5	3754.5
15°	4309.9	4266.3	4181.6	4044.7	3945.0	3816.8	3724.6	3625.0	3590.1	3531.6	3526.6
17.5°	4418.3	4343.5	4192.9	3991.1	3828.0	3641.2	3510.4	3398.4	3326.1	3272.6	3271.3
20°	4550.3	4435.7	4197.8	3930.1	3707.2	3468.1	3285.0	3143.1	3039.7	2972.5	2971.2
22.5°	4715.9	4560.2	4243.9	3860.4	3552.8	3258.9	3031.0	2785.7	2643.7	2506.7	2481.8
25°	4910.1	4686.0	4283.8	3824.3	3400.9	3041.0	2702.3	2343.6	2123.2	2013.6	1972.5
27.5°	5182.9	4895.2	4342.3	3755.8	3257.7	2772.0	2278.9	1887.8	1622.6	1529.2	1529.2
30°	5497.9	5159.2	4451.9	3714.7	3058.4	2394.7	1814.4	1394.7	1148.1	1007.4	1003.7
32.5°	5978.6	5474.2	4551.5	3626.3	2816.8	1983.7	1312.5	899.1	701.1	613.9	608.9
35°	6669.7	6074.5	4712.1	3537.8	2466.9	1476.9	833.1	515.5	399.7	349.9	347.4
37.5°	7334.7	6646.1	5058.3	3362.3	1970.0	927.7	462.0	297.6	244.1	237.8	235.4
40°	7802.9	7139.2	5302.4	3094.5	1399.7	491.9	267.7	215.4	211.7	209.2	208.0
42.5°	8313.5	7505.3	5475.5	2753.3	830.6	285.2	217.9	194.3	188.0	185.5	185.5
45°	8728.2	7857.7	5507.9	2265.2	418.4	235.4	199.2	176.8	169.4	174.3	175.6
47.5°	9110.5	8190.2	5398.3	1703.5	282.7	219.2	186.8	164.4	159.4	171.8	171.8
50°	9436.7	8471.6	5146.7	1271.4	265.2	206.7	174.3	151.9	150.7	161.9	163.1
52.5°	9761.7	8698.3	4750.7	960.1	251.5	193.0	161.9	140.7	137.0	144.5	145.7
55°	10019.5	8779.2	4456.9	714.8	241.6	180.6	150.7	129.5	120.8	119.5	122.0
57.5°	10161.5	8708.2	4169.2	525.5	230.4	169.4	139.5	114.6	100.9	100.9	100.9
60°	10164.0	8622.3	3861.6	415.9	217.9	156.9	127.0	98.4	84.7	82.2	82.2
62.5°	10136.6	8469.1	3414.6	361.1	204.2	146.9	110.8	83.4	73.5	69.7	69.7
65°	10015.8	8180.2	2872.9	308.8	188.0	139.5	94.6	74.7	66.0	61.0	61.0
67.5°	9639.7	7638.5	2211.6	269.0	173.1	123.3	85.9	67.2	58.5	53.5	52.3
70°	8949.8	6763.1	1459.5	229.1	158.2	109.6	78.5	61.0	52.3	47.3	46.1
72.5°	7793.0	5504.1	733.5	194.3	135.7	100.9	71.0	53.5	44.8	39.8	39.8
75°	6106.9	3820.5	399.7	154.4	107.1	88.4	62.3	44.8	38.6	34.9	34.9
77.5°	3744.6	1894.1	272.7	119.5	80.9	72.2	49.8	37.4	33.6	32.4	32.4
80°	1366.1	620.1	183.1	84.7	61.0	56.0	39.8	32.4	31.1	31.1	31.1
82.5°	493.1	315.1	123.3	57.3	38.6	42.3	32.4	27.4	26.2	27.4	28.6
85°	203.0	138.2	44.8	32.4	21.2	22.4	19.9	18.7	19.9	21.2	21.2
87.5°	31.1	27.4	16.2	16.2	12.5	11.2	8.7	10.0	12.5	14.9	14.9
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)