

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: P510109

Luminaire Tested: **VERD-M-CA4-210-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-210-722-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 960mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24540 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

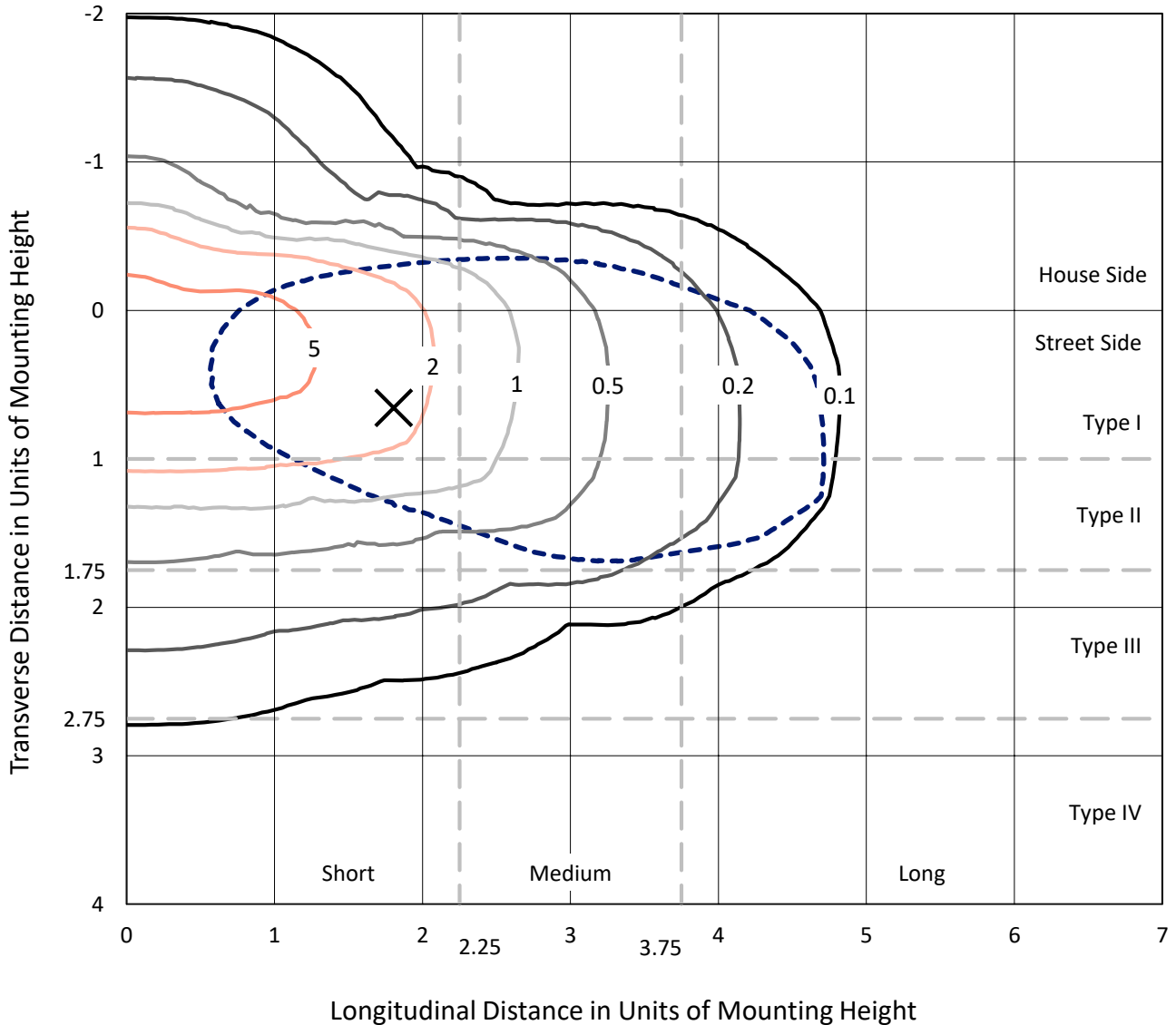
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

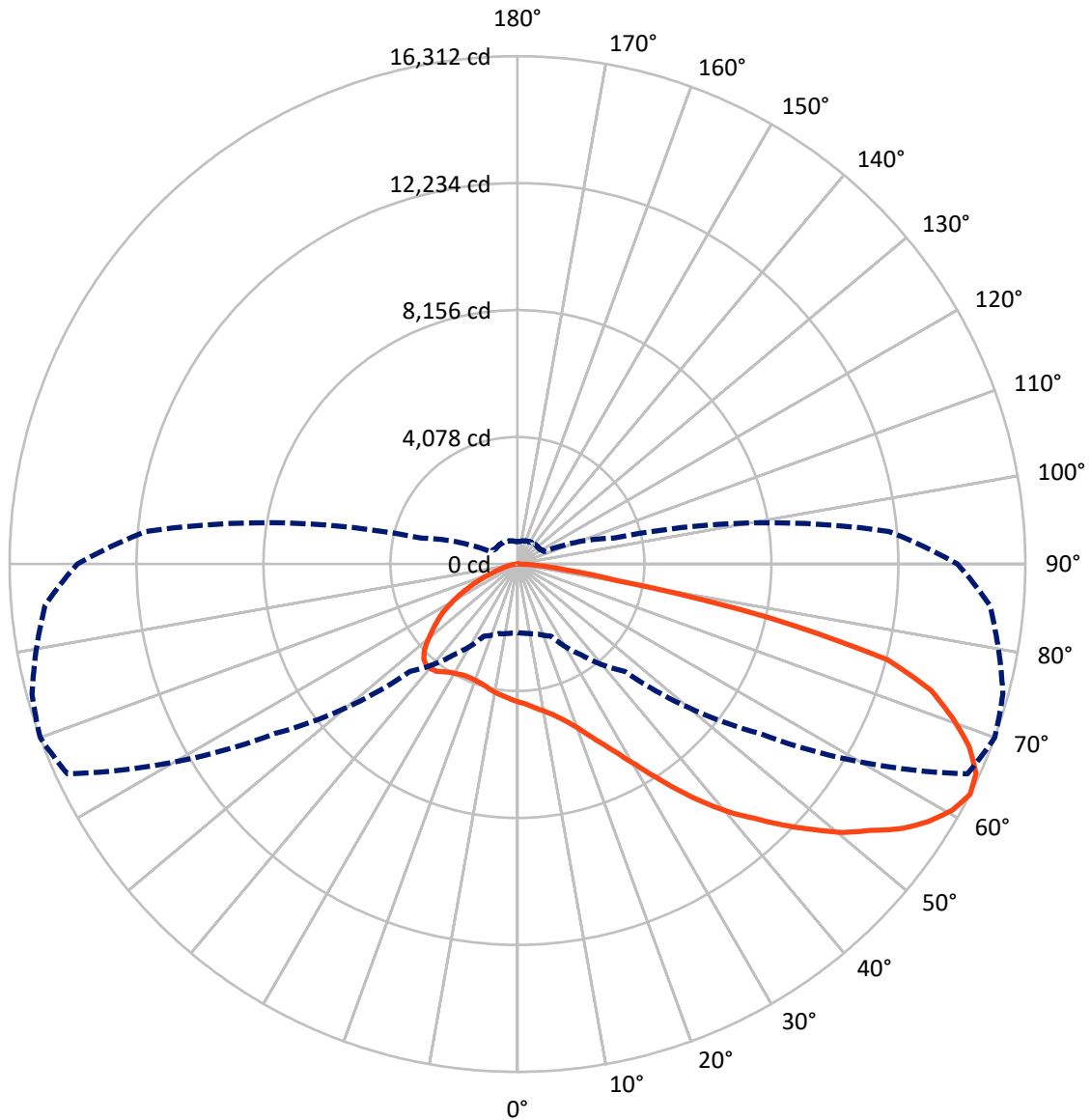
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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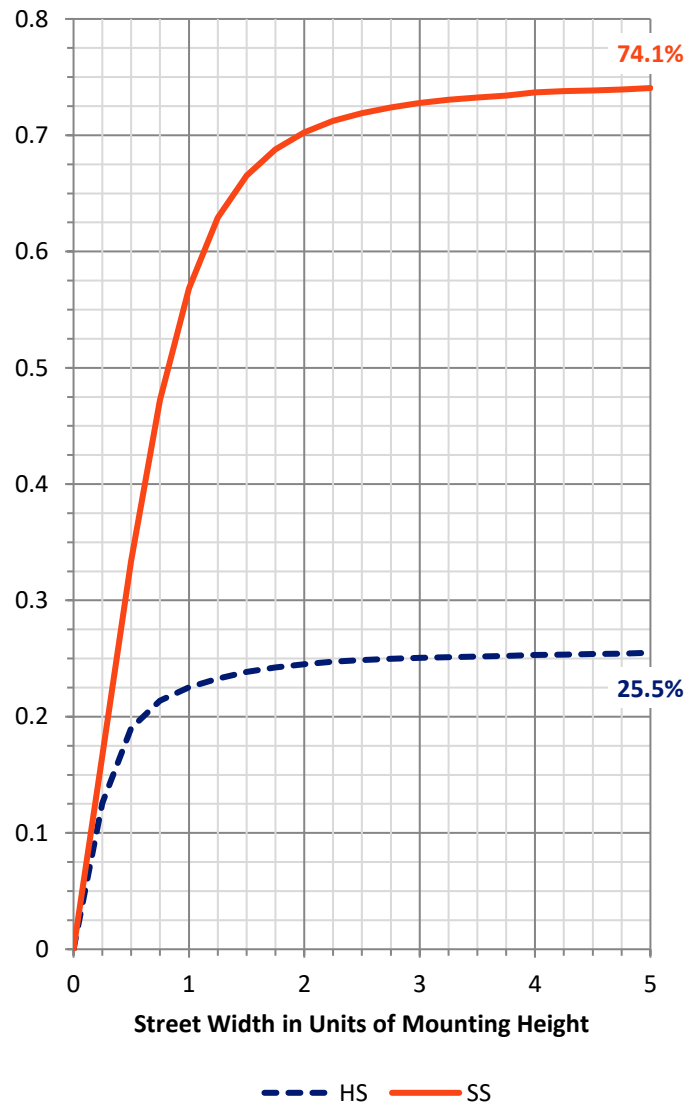
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6353.5	0.0	6353.5
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	18186.5	0.0	18186.5
	% Fixture	74.1	0.0	74.1
Total	Lumens	24540.0	0.0	24540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.4	1.7
10°-20°	1291.9	5.3
20°-30°	2192.6	8.9
30°-40°	3172.6	12.9
40°-50°	4163.2	17.0
50°-60°	4864.6	19.8
60°-70°	4881.8	19.9
70°-80°	3110.7	12.7
80°-90°	437.2	1.8
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°	24540.0	100.0
0°-180°	24540.0	100.0



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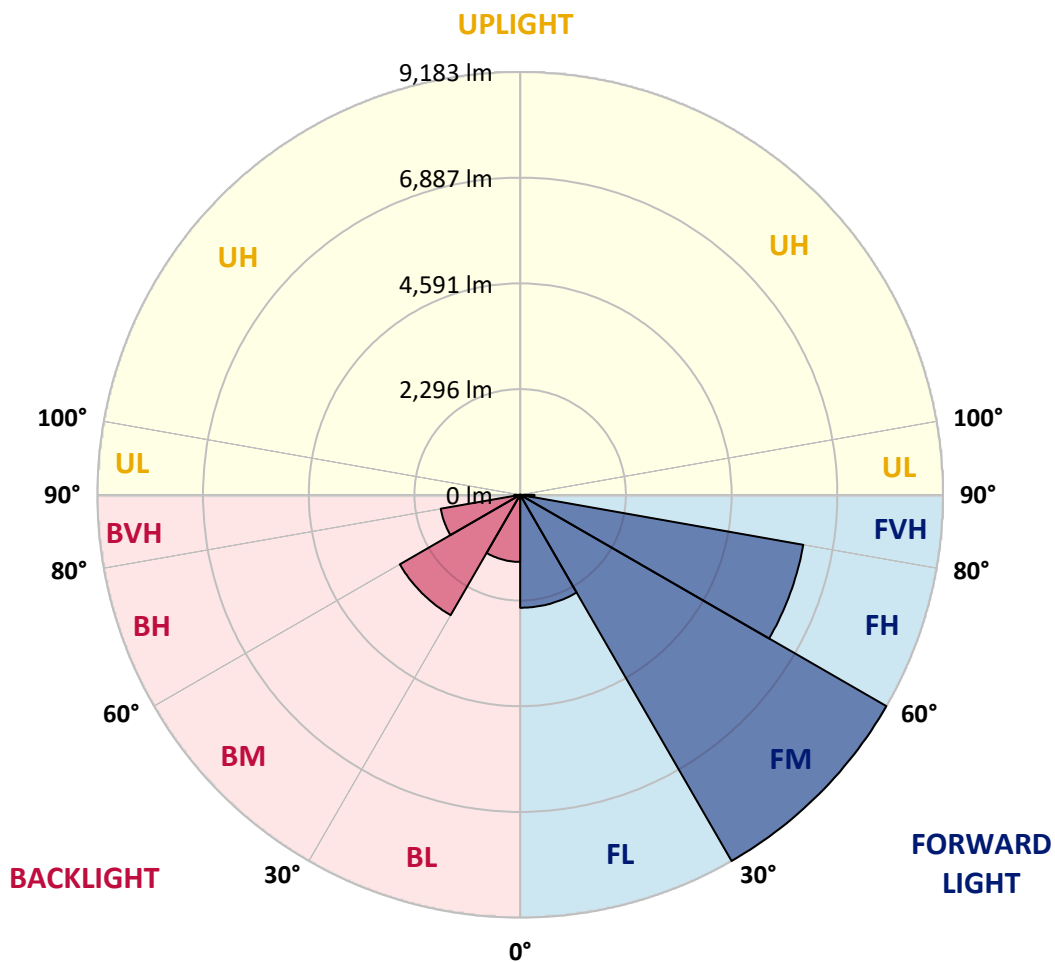
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.8	10.0			
FM (30°-60°)	9182.6	37.4			
FH (60°-80°)	6242.7	25.4			G3/7500
FVH (80°-90°)	308.4	1.3			G3/500
BL (0°-30°)	1457.2	5.9	B3/2500		
BM (30°-60°)	3017.7	12.3	B3/5000		
BH (60°-80°)	1749.8	7.1	B3/2500		G3/2500
BVH (80°-90°)	128.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1
2.5°	4598.8	4647.6	4640.9	4611.0	4632.1	4574.4	4553.3	4521.2	4487.9	4476.8	4458.0
5°	4816.2	4880.5	4868.3	4828.4	4827.2	4745.2	4698.6	4637.6	4586.6	4546.7	4487.9
7.5°	5019.1	5093.4	5082.3	5043.5	5041.3	4947.0	4850.5	4755.2	4696.4	4645.4	4537.8
10°	5234.2	5290.8	5280.8	5230.9	5220.9	5128.9	5015.8	4896.0	4809.5	4738.5	4585.5
12.5°	5432.7	5492.6	5497.0	5434.9	5419.4	5320.7	5222.0	5063.4	4951.4	4870.5	4645.4
15°	5617.9	5688.9	5675.6	5613.5	5596.9	5497.0	5400.6	5254.2	5137.7	5024.6	4743.0
17.5°	5766.5	5834.2	5817.5	5789.8	5780.9	5703.3	5623.5	5464.9	5361.8	5216.5	4893.8
20°	5868.5	5931.8	5938.4	5930.6	5981.7	5908.5	5864.1	5752.1	5639.0	5508.1	5100.0
22.5°	5908.5	5983.9	6048.2	6098.1	6203.4	6192.4	6184.6	6120.3	6009.4	5818.6	5372.8
25°	5920.7	5996.1	6095.9	6219.0	6407.5	6475.1	6523.9	6539.5	6418.6	6267.8	5712.2
27.5°	5922.9	6003.8	6105.9	6304.4	6591.6	6795.6	6912.1	6966.4	6898.8	6779.0	6173.5
30°	5876.3	5959.5	6090.3	6355.4	6735.7	7070.6	7263.6	7504.2	7475.4	7374.5	6751.3
32.5°	5742.1	5817.5	5998.3	6346.5	6878.8	7352.3	7652.8	8069.8	8167.4	8102.0	7417.7
35°	5501.5	5593.5	5827.5	6273.3	6956.4	7626.2	8110.8	8759.6	8935.9	8940.3	8235.0
37.5°	5258.6	5328.5	5603.5	6135.8	6999.7	7869.1	8545.5	9450.4	9706.6	9712.2	8914.8
40°	5000.2	5064.6	5367.3	5951.7	6955.3	8059.8	8950.3	10114.7	10481.8	10447.4	9582.4
42.5°	4665.3	4736.3	5036.8	5701.1	6844.4	8207.3	9361.7	10812.2	11164.9	11203.7	10278.8
45°	4379.2	4435.8	4698.6	5309.6	6641.5	8287.2	9747.6	11556.3	11960.0	11919.0	11021.8
47.5°	4026.6	4110.9	4391.4	4991.4	6276.6	8267.2	10116.9	12292.7	12741.8	12704.1	11666.1
50°	3106.2	3203.7	3855.8	4657.6	5810.9	8110.8	10451.8	12996.8	13554.6	13456.0	12348.1
52.5°	2821.2	2848.9	3108.4	4273.9	5351.8	7756.0	10698.0	13886.2	14216.7	14177.9	13039.0
55°	2647.1	2700.3	2818.9	3520.9	4939.2	7179.3	10868.8	14629.2	15001.8	14820.0	13664.4
57.5°	2494.0	2531.7	2672.6	3014.1	4464.6	6385.3	10818.9	15255.8	15588.5	15334.5	14275.5
60°	2331.0	2355.4	2496.2	2751.3	3952.3	5508.1	10312.1	15902.3	16049.8	15816.9	14792.2
62.5°	2204.6	2227.9	2312.2	2557.2	3553.1	4880.5	9482.6	15947.8	16311.5	16141.8	15231.4
65°	2042.7	2058.2	2163.6	2356.5	3182.7	4506.8	8751.8	15520.8	16185.1	16142.9	15399.9
67.5°	1864.1	1883.0	1982.8	2119.2	2709.2	4066.5	7529.7	15290.2	15650.6	15691.6	15083.9
70°	1654.5	1667.9	1771.0	1869.7	2317.7	3569.7	5986.1	14406.3	14826.6	14825.5	14108.0
72.5°	1428.3	1427.2	1529.2	1633.5	1941.8	2998.6	4686.4	12790.6	13902.9	13819.7	12719.6
75°	1177.7	1194.3	1293.0	1375.1	1615.7	2430.8	3263.6	9265.2	12273.8	12388.0	10977.5
77.5°	753.0	764.1	819.5	903.8	1130.0	1857.5	2129.2	5148.8	8195.1	9885.1	8640.9
80°	550.0	555.6	604.4	653.2	751.9	1131.1	1082.3	2237.9	3248.1	4852.7	5300.8
82.5°	374.8	375.9	414.7	425.8	431.4	510.1	513.4	1089.0	1547.0	1822.0	2341.0
85°	248.4	206.3	160.8	212.9	218.5	187.4	183.0	491.3	767.4	920.4	867.2
87.5°	55.4	54.3	63.2	64.3	62.1	53.2	44.4	75.4	115.3	114.2	146.4
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°	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1	4429.1
2.5°	4440.2	4434.7	4403.6	4338.2	4293.8	4248.4	4222.9	4207.3	4212.9	4187.4	4176.3
5°	4451.3	4423.6	4336.0	4258.4	4188.5	4109.8	4044.3	4035.5	4048.8	4025.5	4012.2
7.5°	4480.1	4421.4	4309.4	4176.3	4059.9	3985.6	3891.3	3843.6	3840.3	3817.0	3821.4
10°	4496.8	4420.3	4270.6	4109.8	3973.4	3841.4	3740.5	3687.2	3683.9	3650.7	3642.9
12.5°	4542.2	4432.5	4225.1	4028.8	3876.9	3700.6	3594.1	3545.3	3539.8	3493.2	3475.4
15°	4612.1	4460.2	4177.4	3934.5	3738.3	3573.0	3445.5	3380.1	3370.1	3315.7	3296.9
17.5°	4723.0	4538.9	4163.0	3849.2	3617.4	3436.6	3286.9	3215.9	3158.3	3128.3	3102.8
20°	4872.7	4636.5	4179.6	3769.3	3465.5	3257.0	3070.7	2977.5	2937.6	2888.8	2892.1
22.5°	5085.6	4789.5	4208.5	3707.2	3327.9	3065.1	2855.5	2751.3	2679.2	2638.2	2640.4
25°	5385.0	5020.2	4265.0	3648.4	3178.2	2855.5	2608.2	2463.0	2389.8	2363.2	2335.4
27.5°	5763.2	5296.3	4399.2	3576.4	3000.8	2618.2	2344.3	2174.6	2100.3	2060.4	2054.9
30°	6248.9	5659.0	4556.7	3523.1	2814.5	2322.1	2017.2	1883.0	1817.6	1761.0	1734.4
32.5°	6841.1	6171.3	4731.9	3469.9	2583.8	1990.6	1714.4	1611.3	1507.1	1435.0	1438.3
35°	7528.6	6729.1	4992.5	3402.2	2313.3	1681.2	1490.4	1357.4	1259.8	1212.1	1189.9
37.5°	8177.4	7301.3	5298.5	3333.5	2010.5	1480.4	1269.7	1146.7	1071.2	1034.6	1042.4
40°	8833.9	7891.3	5562.5	3164.9	1671.2	1298.6	1051.3	981.4	951.5	922.6	926.0
42.5°	9421.6	8361.5	5755.4	2977.5	1433.9	1090.1	896.0	911.6	929.3	912.7	908.2
45°	10033.7	8911.5	5925.1	2658.1	1235.4	926.0	857.2	900.5	939.3	937.1	931.5
47.5°	10648.1	9421.6	5941.7	2234.5	1054.6	870.5	856.1	888.3	939.3	948.1	941.5
50°	11281.3	9956.1	5844.1	1735.5	978.1	877.2	857.2	862.8	919.3	929.3	926.0
52.5°	11983.3	10533.9	5603.5	1319.6	948.1	888.3	860.5	852.8	884.9	902.7	906.0
55°	12628.7	10993.0	5152.2	1165.5	926.0	889.4	884.9	859.4	860.5	851.7	873.8
57.5°	13171.0	11431.0	4639.8	1081.2	906.0	879.4	896.0	848.3	835.0	798.4	789.6
60°	13732.1	11787.0	3919.0	1023.6	882.7	867.2	868.3	829.5	796.2	743.0	727.5
62.5°	14130.2	11975.5	3219.3	955.9	850.6	848.3	831.7	802.9	772.9	726.4	719.7
65°	14245.5	11875.7	2473.0	884.9	808.4	817.3	787.4	747.4	623.2	565.6	565.6
67.5°	13864.0	11261.3	1830.9	802.9	757.4	775.2	716.4	588.9	524.5	490.2	495.7
70°	12818.3	10268.8	1192.1	683.1	684.2	698.6	591.1	530.1	469.1	448.0	459.1
72.5°	11421.0	8797.3	786.2	544.5	576.7	552.3	540.1	487.9	433.6	409.2	417.0
75°	9411.6	6946.4	545.6	428.1	373.7	471.3	480.2	410.3	368.2	446.9	464.6
77.5°	7435.5	4828.4	450.2	299.4	276.1	348.2	384.8	380.4	608.8	715.3	707.5
80°	4421.4	2780.1	367.1	207.4	195.2	224.0	302.7	436.9	682.0	512.3	487.9
82.5°	2005.0	1264.2	195.2	108.7	127.5	148.6	226.2	543.4	446.9	328.2	309.4
85°	782.9	412.5	77.6	47.7	44.4	55.4	103.1	261.7	179.6	145.3	145.3
87.5°	100.9	74.3	22.2	16.6	14.4	17.7	33.3	145.3	84.3	71.0	68.8
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)