

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: P510304

Luminaire Tested: **VERD-M-CA4-250-722-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-250-722-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1130mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25334 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

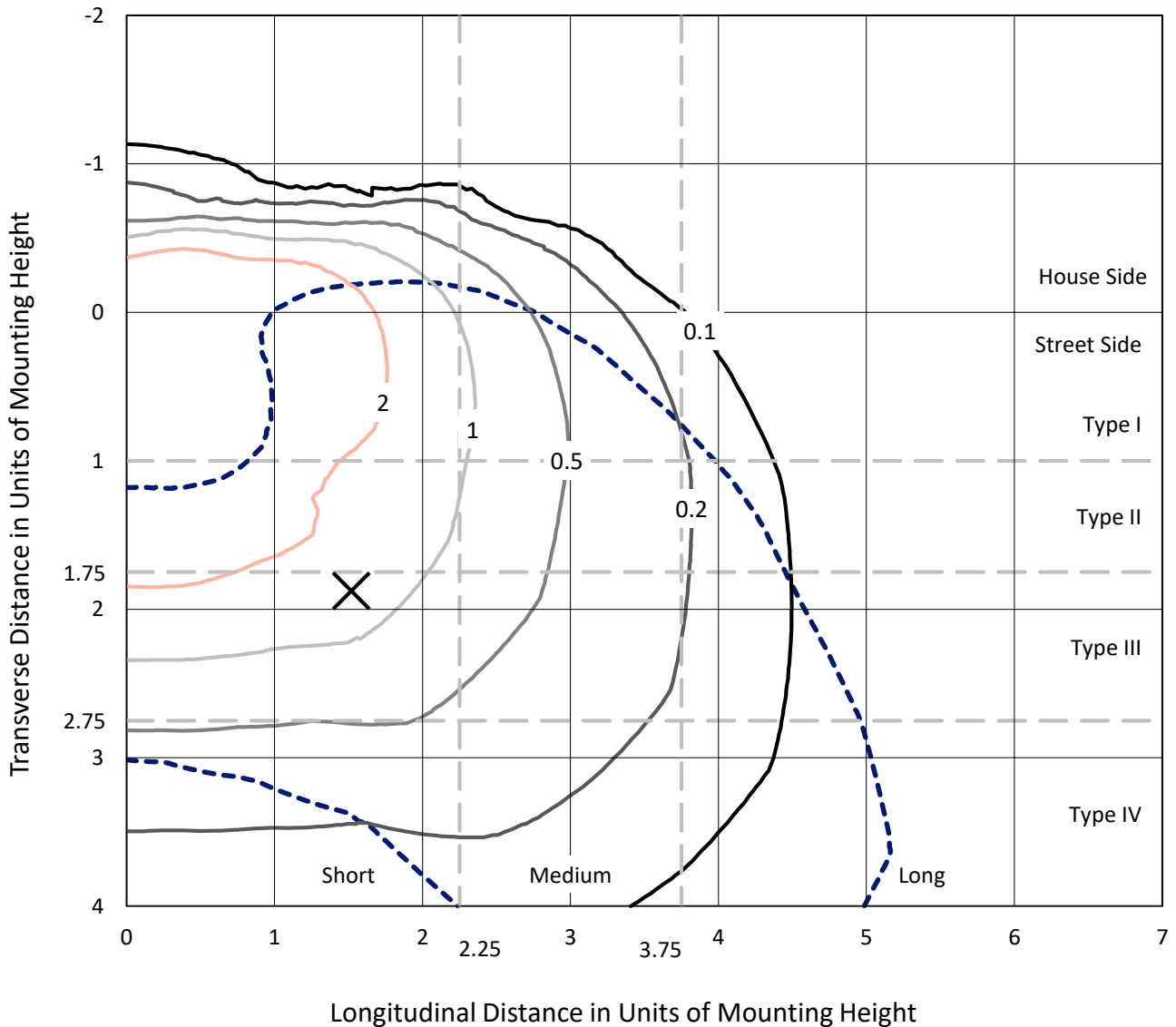
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

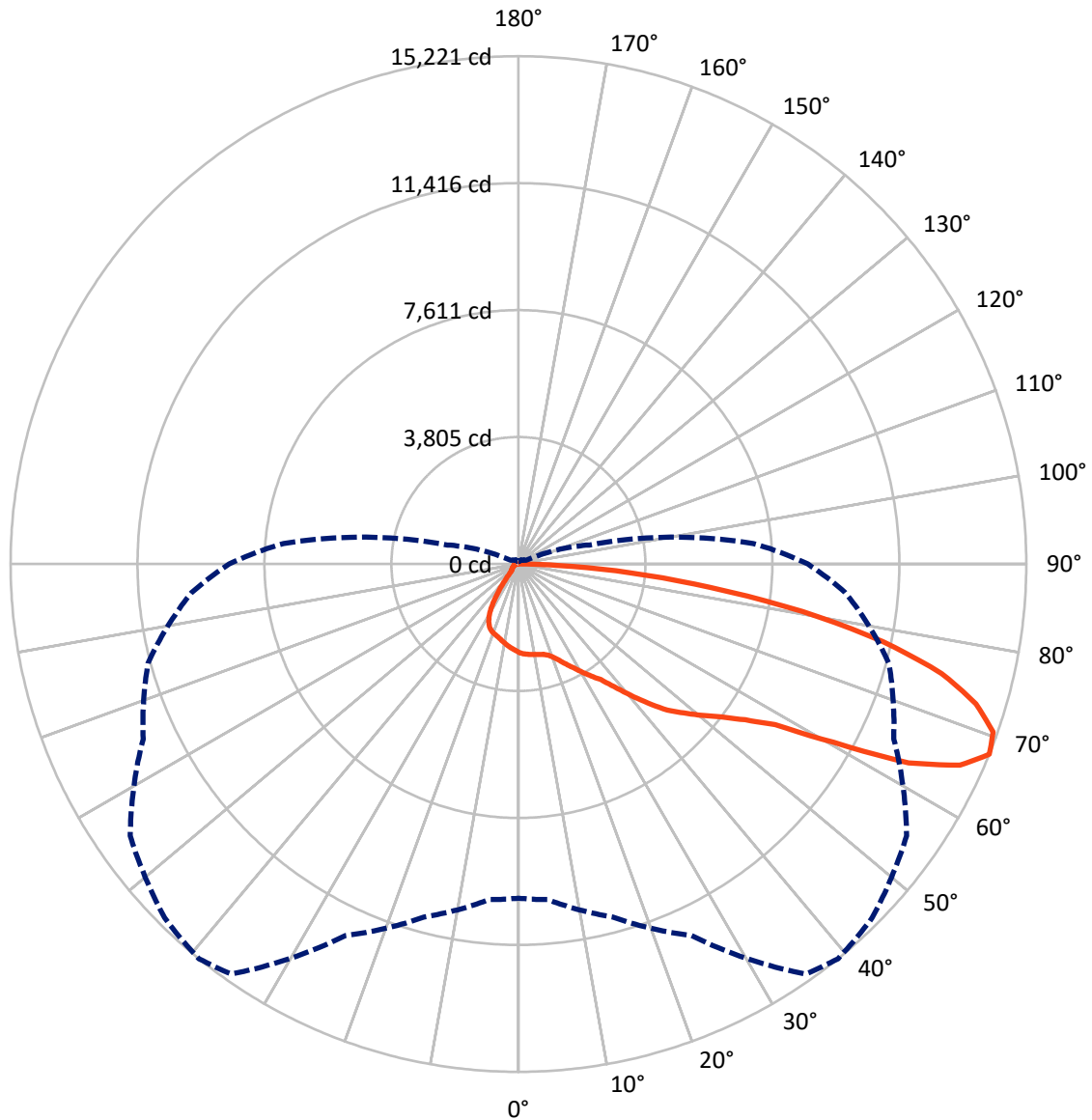
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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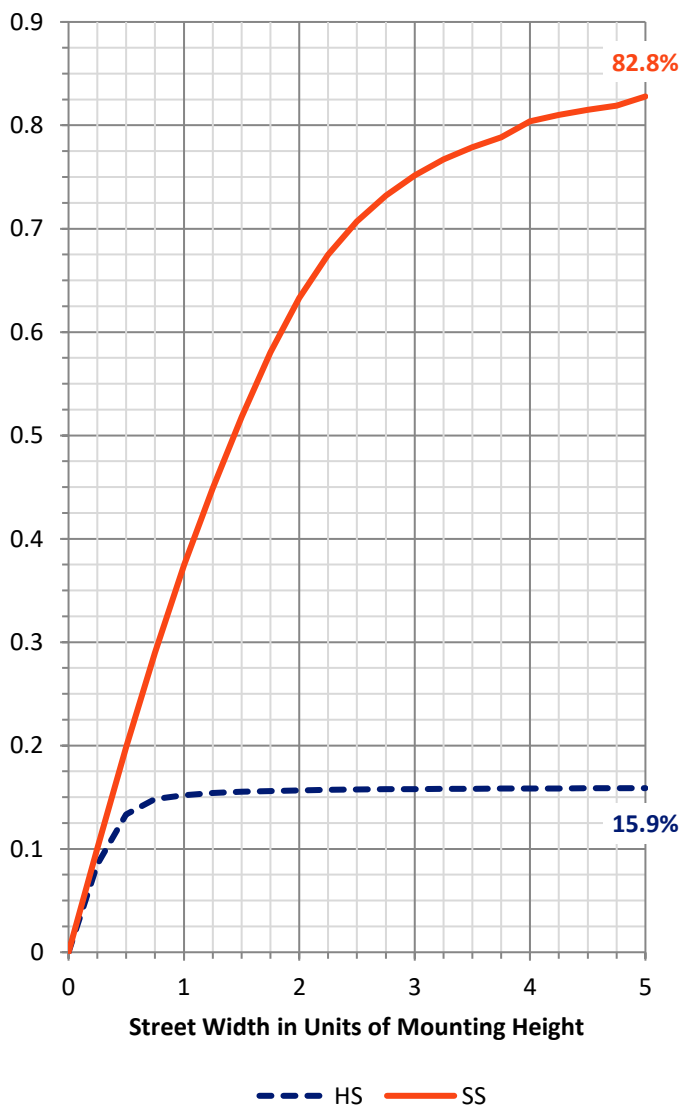
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4068.0	0.0	4068.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	21266.0	0.0	21266.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	25334.0	0.0	25334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	1.0
10°-20°	745.4	2.9
20°-30°	1320.6	5.2
30°-40°	2115.1	8.3
40°-50°	3393.1	13.4
50°-60°	4959.7	19.6
60°-70°	6609.0	26.1
70°-80°	4959.5	19.6
80°-90°	981.3	3.9
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°	25334.0	100.0
0°-180°	25334.0	100.0

Coefficient of Utilization



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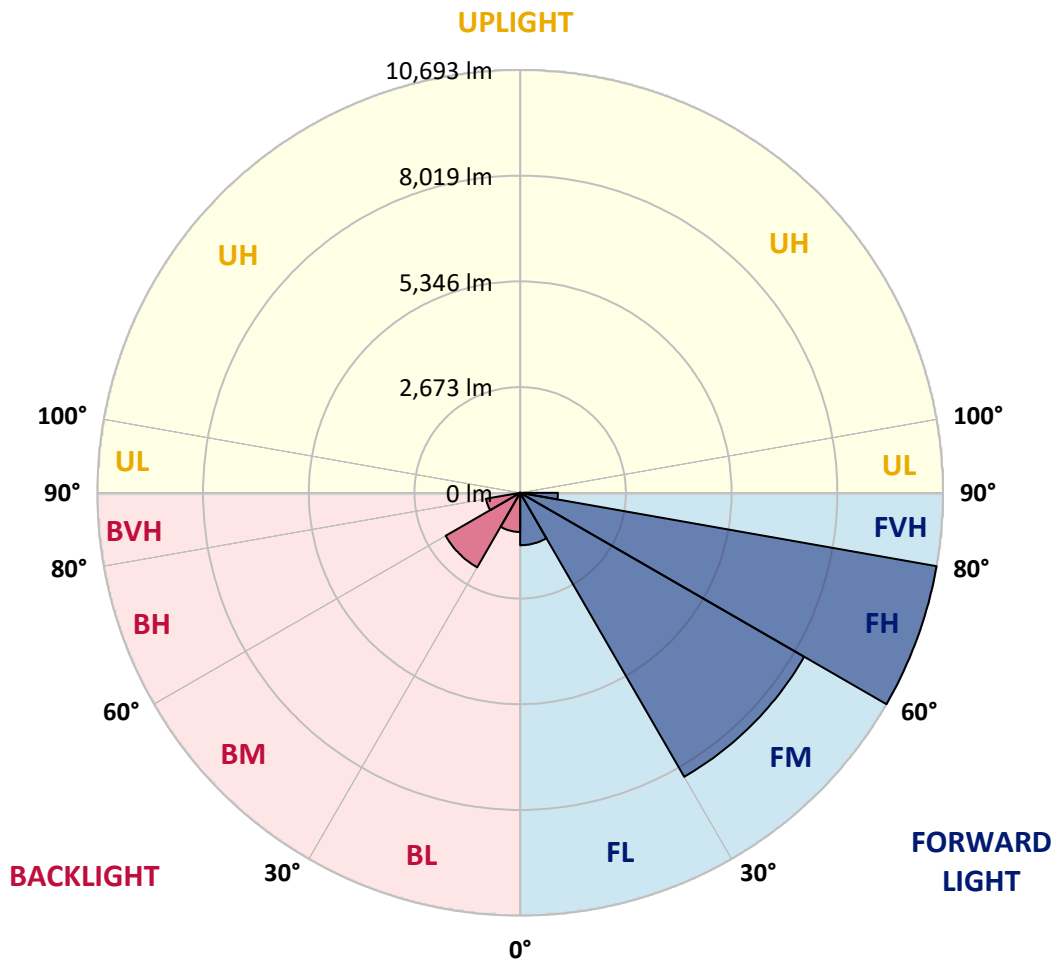
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.8	5.2			
FM (30°-60°)	8292.0	32.7			
FH (60°-80°)	10692.6	42.2			G4/12000
FVH (80°-90°)	955.6	3.8			G5
BL (0°-30°)	990.6	3.9	B2/1000		
BM (30°-60°)	2175.8	8.6	B2/2500		
BH (60°-80°)	875.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	25.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7
2.5°	2655.3	2690.9	2690.9	2680.7	2687.1	2692.2	2654.0	2664.2	2660.4	2659.1	2666.7
5°	2675.7	2715.1	2712.6	2699.8	2704.9	2715.1	2679.5	2694.7	2689.7	2676.9	2679.5
7.5°	2675.7	2708.7	2716.4	2702.4	2726.6	2739.3	2701.1	2715.1	2721.5	2712.6	2703.7
10°	2665.5	2694.7	2704.9	2702.4	2734.2	2754.6	2717.7	2757.1	2762.2	2762.2	2748.2
12.5°	2661.7	2694.7	2708.7	2720.2	2757.1	2778.8	2757.1	2795.3	2820.8	2819.5	2810.6
15°	2664.2	2701.1	2722.8	2741.8	2781.3	2808.0	2799.1	2857.7	2888.2	2897.1	2897.1
17.5°	2727.8	2772.4	2782.6	2802.9	2829.7	2870.4	2859.0	2934.1	2982.4	2997.7	3019.3
20°	2906.0	2940.4	2953.1	2943.0	2954.4	2979.9	2957.0	3029.5	3102.1	3142.8	3178.5
22.5°	3133.9	3159.4	3147.9	3137.7	3131.4	3137.7	3109.7	3158.1	3239.6	3298.1	3359.2
25°	3307.0	3363.0	3354.1	3326.1	3317.2	3324.8	3289.2	3349.0	3424.1	3485.2	3576.9
27.5°	3517.0	3551.4	3527.2	3517.0	3523.4	3522.1	3500.5	3557.8	3626.5	3702.9	3837.8
30°	3744.9	3774.2	3750.0	3739.8	3751.3	3758.9	3734.7	3835.3	3907.8	3990.6	4165.0
32.5°	4119.1	4189.1	4122.9	3990.6	3993.1	4004.6	4007.1	4142.0	4274.4	4339.3	4569.7
35°	4652.5	4708.5	4620.7	4460.3	4260.4	4252.8	4273.2	4474.3	4740.3	5035.6	5305.5
37.5°	5150.2	5231.7	5152.7	4965.6	4722.5	4663.9	4558.3	4797.6	5216.4	5851.6	6187.6
40°	5747.2	5808.3	5651.7	5488.8	5245.7	5162.9	4993.6	5146.4	5720.4	6703.1	6934.8
42.5°	6227.1	6264.0	6134.1	5963.6	5752.3	5689.9	5515.5	5529.5	6258.9	7449.1	7598.0
45°	6671.3	6710.8	6603.8	6458.7	6325.1	6250.0	6122.7	6191.4	6890.3	8235.7	8145.3
47.5°	7008.6	7048.1	6962.8	6859.7	6721.0	6670.0	6672.6	6919.5	7662.9	8864.5	8636.7
50°	7561.1	7545.8	7323.0	7211.0	7102.8	7129.6	7157.6	7508.9	8441.9	9404.2	9091.1
52.5°	8524.7	8449.6	7990.0	7697.3	7563.6	7609.4	7655.3	8122.4	9326.6	9896.9	9439.9
55°	9614.3	9537.9	9147.1	8520.8	8167.0	8240.8	8201.3	8729.6	10070.0	10370.4	9727.6
57.5°	10423.8	10549.9	10400.9	10059.8	9173.8	9077.1	8989.3	9343.1	10670.8	10843.9	10003.8
60°	11127.8	11303.4	11569.5	11476.5	11099.8	10847.7	10042.0	10059.8	11248.7	11172.3	10113.3
62.5°	11815.1	11918.2	12373.9	12474.5	12941.7	13122.4	12303.9	10986.5	11807.5	11400.2	10187.1
65°	11127.8	11260.1	12053.2	12785.1	14294.8	14536.6	14248.9	12664.2	12218.6	11535.1	10101.8
67.5°	10016.5	10096.7	10953.4	12284.8	15002.5	15221.4	14997.4	14204.4	12410.9	11494.4	9837.0
70°	8564.1	8690.1	9531.5	11316.2	14977.0	15094.1	14899.4	14390.2	12338.3	11260.1	9168.8
72.5°	7082.5	7153.7	7866.6	9647.4	14245.1	14343.1	14240.0	14105.1	12093.9	10607.1	7884.4
75°	5323.3	5338.6	6069.2	7618.4	12595.4	13107.1	13233.2	13613.8	11158.3	9092.4	5831.2
77.5°	3569.2	3720.7	4422.1	5822.3	10339.8	11158.3	11755.3	12032.8	9322.8	6785.9	3100.8
80°	1915.7	1953.9	2710.0	4131.9	7857.7	8640.5	9206.9	9212.0	6519.8	3361.7	692.5
82.5°	887.2	850.3	1364.6	2614.6	5443.0	5791.7	6171.1	5169.3	2610.7	574.1	176.9
85°	393.3	415.0	617.4	1274.2	3020.6	3370.7	3322.3	2288.7	458.2	155.3	108.2
87.5°	146.4	154.0	239.3	514.3	1078.2	1176.2	1057.8	440.4	59.8	54.7	33.1
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°	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7	2652.7
2.5°	2657.8	2657.8	2655.3	2620.9	2613.3	2596.7	2582.7	2592.9	2581.5	2589.1	2581.5
5°	2669.3	2662.9	2647.6	2606.9	2587.8	2550.9	2522.9	2529.3	2514.0	2514.0	2512.7
7.5°	2696.0	2683.3	2656.6	2591.6	2556.0	2502.5	2459.3	2445.3	2430.0	2412.2	2409.6
10°	2739.3	2721.5	2685.8	2596.7	2528.0	2456.7	2381.6	2352.3	2314.1	2286.1	2281.1
12.5°	2799.1	2772.4	2724.0	2615.8	2525.4	2412.2	2311.6	2254.3	2208.5	2167.8	2158.9
15°	2885.7	2859.0	2801.7	2654.0	2526.7	2370.2	2237.8	2142.3	2063.4	2025.2	2026.5
17.5°	3011.7	2992.6	2904.8	2734.2	2550.9	2348.5	2176.7	2025.2	1903.0	1839.4	1830.4
20°	3173.4	3160.6	3053.7	2839.9	2606.9	2352.3	2110.5	1900.5	1721.0	1582.2	1551.7
22.5°	3361.7	3342.7	3211.5	2931.5	2650.2	2342.2	2037.9	1763.0	1493.1	1312.4	1276.7
25°	3571.8	3561.6	3356.7	3011.7	2655.3	2298.9	1933.5	1584.8	1246.2	1052.7	1022.1
27.5°	3840.4	3780.5	3487.8	3055.0	2643.8	2213.6	1784.6	1340.4	990.3	856.7	823.6
30°	4134.4	4013.5	3615.1	3088.1	2587.8	2077.4	1572.0	1057.8	737.0	618.6	602.1
32.5°	4460.3	4279.5	3734.7	3085.5	2488.5	1867.4	1295.8	734.5	497.7	449.3	432.8
35°	5049.6	4742.9	3878.6	3043.5	2321.8	1617.9	915.2	478.6	369.1	339.9	336.0
37.5°	5868.1	5347.5	4072.0	2963.3	2106.7	1327.6	597.0	327.1	315.7	317.0	315.7
40°	6538.9	6022.1	4340.6	2842.4	1835.5	948.3	357.7	291.5	297.9	301.7	303.0
42.5°	7195.7	6572.0	4672.8	2690.9	1551.7	616.1	290.2	278.8	273.7	280.0	282.6
45°	7724.0	7051.9	4986.0	2514.0	1219.4	364.1	281.3	258.4	249.5	252.0	255.9
47.5°	8146.6	7433.8	5174.4	2307.8	891.0	274.9	273.7	240.6	227.9	225.3	224.0
50°	8545.0	7760.9	5295.3	2058.3	567.7	264.8	253.3	220.2	204.9	202.4	202.4
52.5°	8816.2	7974.8	5336.0	1763.0	338.6	258.4	239.3	203.7	183.3	187.1	189.7
55°	9080.9	8191.2	5252.0	1378.6	259.7	241.9	224.0	183.3	166.8	182.0	187.1
57.5°	9206.9	8223.0	5062.4	958.5	252.0	218.9	202.4	164.2	151.5	160.4	160.4
60°	9308.8	8201.3	4797.6	607.2	245.7	203.7	184.6	148.9	133.7	128.6	124.7
62.5°	9241.3	8114.8	4265.5	395.9	227.9	185.8	168.0	137.5	115.8	101.8	100.6
65°	9097.5	7809.3	3405.0	311.9	211.3	176.9	152.7	123.5	101.8	85.3	84.0
67.5°	8673.6	7065.9	2203.4	258.4	202.4	170.6	141.3	114.6	90.4	73.8	72.6
70°	7657.8	5707.7	675.9	231.7	210.0	164.2	138.7	104.4	80.2	64.9	62.4
72.5°	6055.2	3813.6	250.8	192.2	180.8	157.8	134.9	94.2	68.7	54.7	52.2
75°	3900.2	1246.2	212.6	148.9	154.0	150.2	124.7	86.6	58.6	44.6	43.3
77.5°	1104.9	260.9	193.5	109.5	136.2	145.1	109.5	72.6	52.2	38.2	36.9
80°	231.7	185.8	176.9	77.6	101.8	94.2	73.8	56.0	49.6	33.1	33.1
82.5°	151.5	147.7	151.5	53.5	67.5	68.7	58.6	48.4	43.3	30.5	30.5
85°	106.9	134.9	72.6	38.2	31.8	29.3	34.4	42.0	38.2	25.5	25.5
87.5°	36.9	21.6	15.3	15.3	14.0	14.0	16.5	19.1	20.4	20.4	19.1
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)