

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: P510328

Luminaire Tested: **VERD-M-CA4-250-740-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510328
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-CA4-250-740-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1130mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31085 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

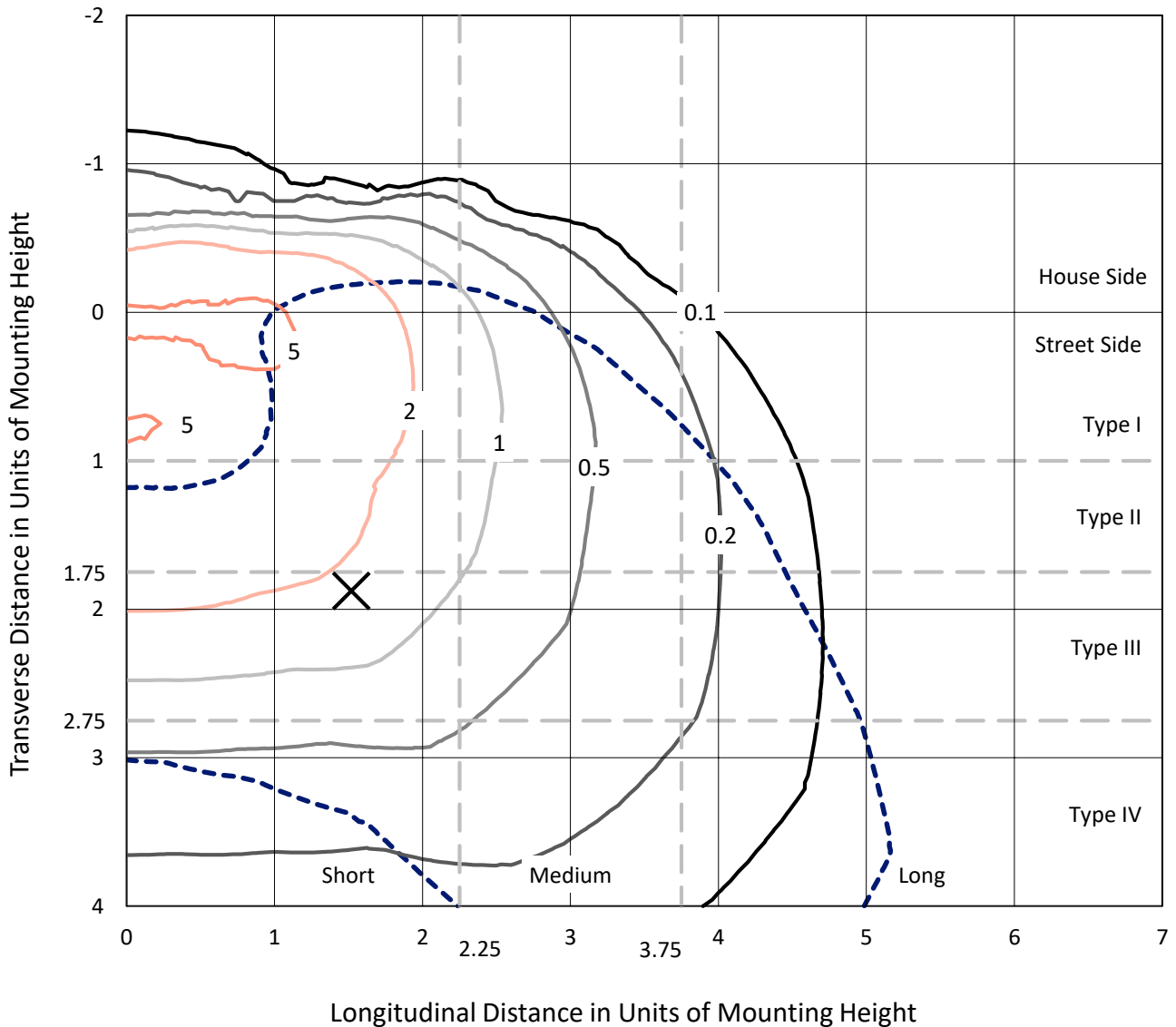
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510328
 CATALOG NUMBER: VERD-M-CA4-250-740-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

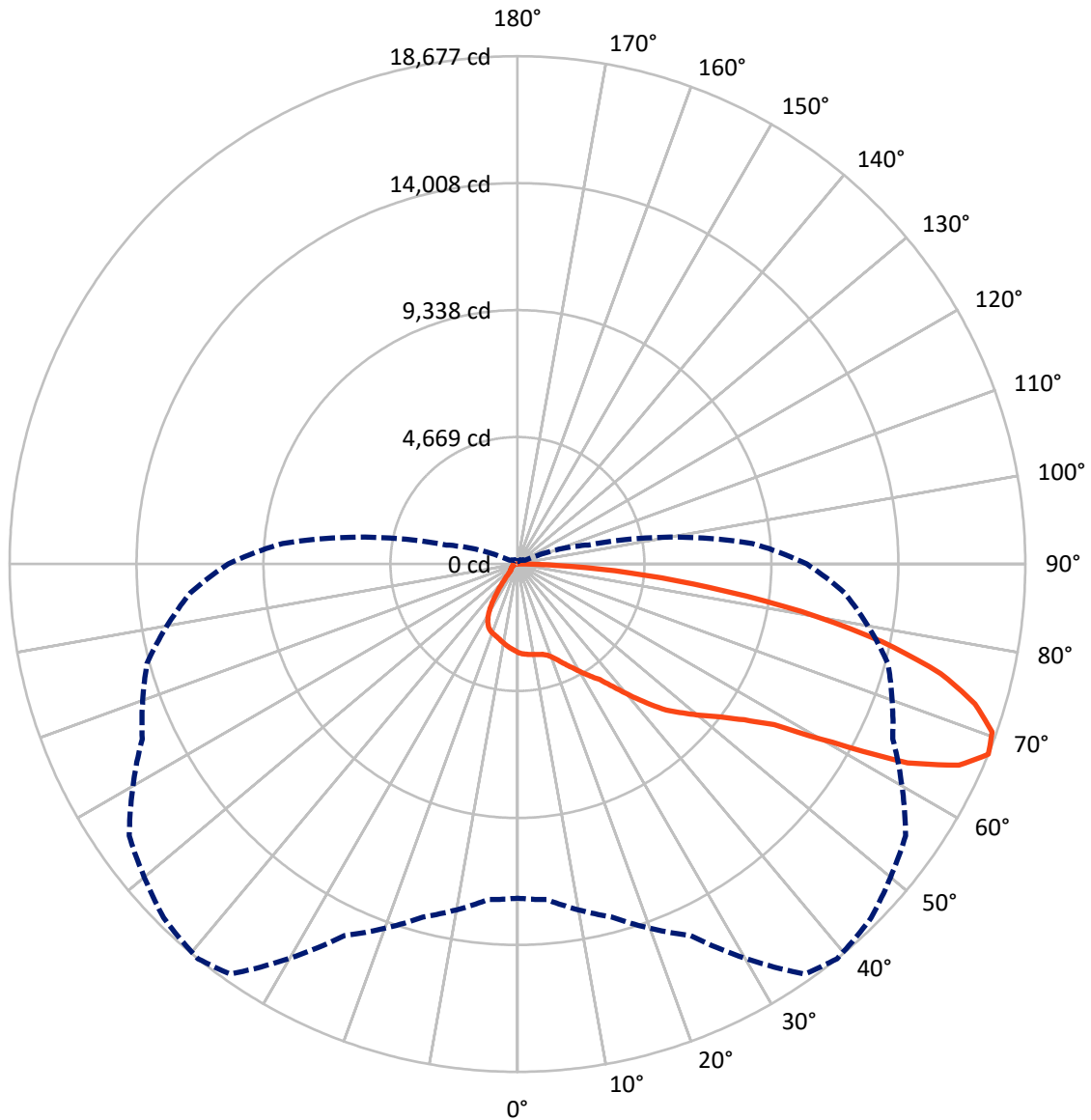
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

REPORT NUMBER: P510328
CATALOG NUMBER: VERD-M-CA4-250-740-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510328

CATALOG NUMBER: VERD-M-CA4-250-740-U-T4-HSS

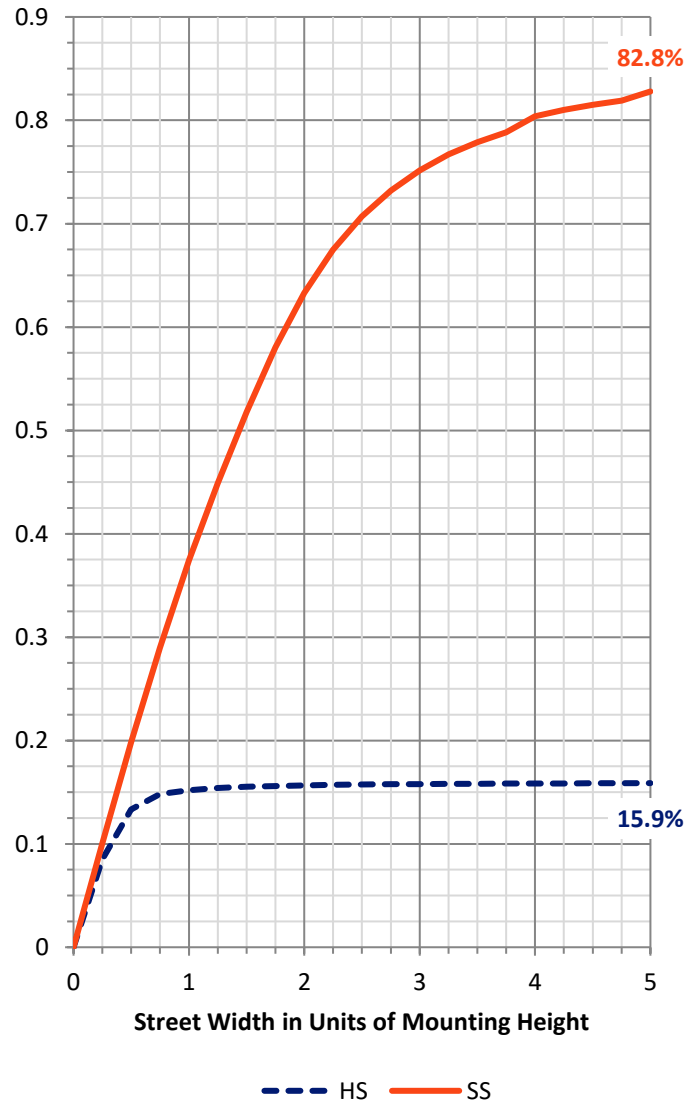
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4991.5	0.0	4991.5
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	26093.5	0.0	26093.5
	% Fixture	83.9	0.0	83.9
Total	Lumens	31085.0	0.0	31085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	1.0
10°-20°	914.6	2.9
20°-30°	1620.3	5.2
30°-40°	2595.3	8.3
40°-50°	4163.3	13.4
50°-60°	6085.6	19.6
60°-70°	8109.3	26.1
70°-80°	6085.4	19.6
80°-90°	1204.0	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°	31085.0	100.0
0°-180°	31085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510328

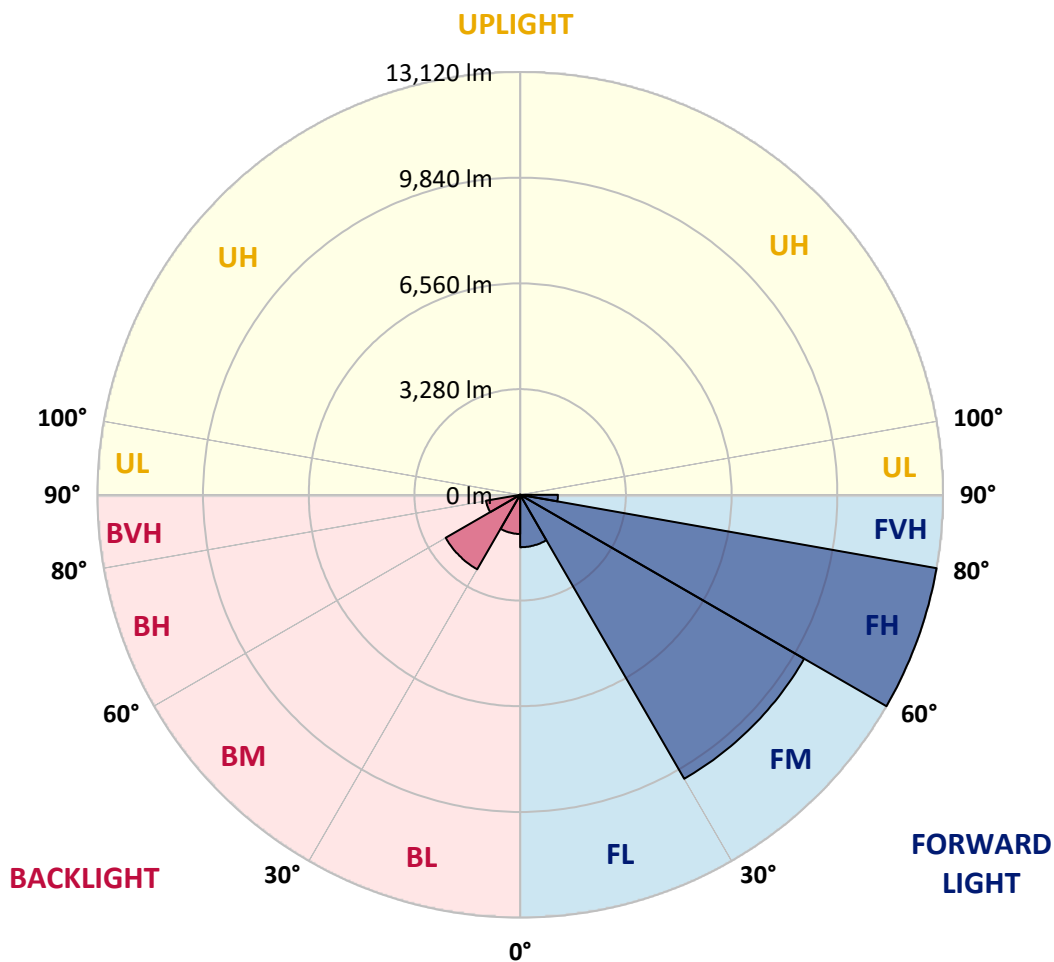
CATALOG NUMBER: VERD-M-CA4-250-740-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1626.7	5.2			
FM	(30°-60°)	10174.4	32.7			
FH	(60°-80°)	13119.9	42.2			G5
FVH	(80°-90°)	1172.5	3.8			G5
BL	(0°-30°)	1215.5	3.9	B3/2500		
BM	(30°-60°)	2669.7	8.6	B3/5000		
BH	(60°-80°)	1074.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	31.5	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-G5

Type IV Short





REPORT NUMBER: P510328

CATALOG NUMBER: VERD-M-CA4-250-740-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9
2.5°	3258.1	3301.8	3301.8	3289.3	3297.1	3303.3	3256.5	3269.0	3264.3	3262.7	3272.1
5°	3283.0	3331.5	3328.3	3312.7	3319.0	3331.5	3287.7	3306.5	3300.2	3284.6	3287.7
7.5°	3283.0	3323.7	3333.0	3315.8	3345.5	3361.1	3314.3	3331.5	3339.3	3328.3	3317.4
10°	3270.5	3306.5	3319.0	3315.8	3354.9	3379.9	3334.6	3383.0	3389.3	3389.3	3372.1
12.5°	3265.9	3306.5	3323.7	3337.7	3383.0	3409.6	3383.0	3429.9	3461.1	3459.5	3448.6
15°	3269.0	3314.3	3340.8	3364.3	3412.7	3445.5	3434.5	3506.4	3543.9	3554.8	3554.8
17.5°	3347.1	3401.7	3414.2	3439.2	3472.0	3522.0	3508.0	3600.1	3659.5	3678.2	3704.7
20°	3565.7	3607.9	3623.5	3611.0	3625.1	3656.3	3628.2	3717.2	3806.3	3856.3	3900.0
22.5°	3845.3	3876.6	3862.5	3850.0	3842.2	3850.0	3815.6	3875.0	3975.0	4046.8	4121.8
25°	4057.7	4126.5	4115.5	4081.2	4070.2	4079.6	4035.9	4109.3	4201.4	4276.4	4388.8
27.5°	4315.4	4357.6	4327.9	4315.4	4323.2	4321.7	4295.1	4365.4	4449.8	4543.5	4709.0
30°	4595.0	4630.9	4601.3	4588.8	4602.8	4612.2	4582.5	4705.9	4794.9	4896.5	5110.4
32.5°	5054.2	5140.1	5058.9	4896.5	4899.6	4913.6	4916.8	5082.3	5244.8	5324.4	5607.1
35°	5708.6	5777.3	5669.6	5472.8	5227.6	5218.2	5243.2	5490.0	5816.4	6178.7	6509.9
37.5°	6319.3	6419.3	6322.4	6092.8	5794.5	5722.7	5593.0	5886.7	6400.5	7179.9	7592.2
40°	7051.8	7126.8	6934.7	6734.8	6436.5	6334.9	6127.2	6314.6	7019.0	8224.8	8509.1
42.5°	7640.7	7685.9	7526.6	7317.3	7058.1	6981.5	6767.6	6784.8	7679.7	9140.0	9322.8
45°	8185.7	8234.2	8103.0	7924.9	7760.9	7668.8	7512.6	7596.9	8454.4	10105.3	9994.4
47.5°	8599.6	8648.1	8543.4	8416.9	8246.7	8184.2	8187.3	8490.3	9402.4	10876.8	10597.3
50°	9277.5	9258.7	8985.4	8848.0	8715.2	8748.0	8782.4	9213.5	10358.3	11539.1	11154.9
52.5°	10459.8	10367.7	9803.8	9444.6	9280.6	9336.8	9393.1	9966.3	11443.8	12143.5	11582.8
55°	11796.8	11703.1	11223.6	10455.1	10020.9	10111.5	10063.1	10711.3	12355.9	12724.5	11935.8
57.5°	12790.1	12944.8	12762.0	12343.4	11256.4	11137.7	11029.9	11464.1	13093.1	13305.5	12274.7
60°	13653.8	13869.4	14195.8	14081.8	13619.5	13310.2	12321.6	12343.4	13802.2	13708.5	12409.0
62.5°	14497.3	14623.8	15182.9	15306.3	15879.5	16101.3	15097.0	13480.5	14487.9	13988.1	12499.6
65°	13653.8	13816.3	14789.3	15687.4	17539.8	17836.5	17483.5	15539.0	14992.4	14153.6	12395.0
67.5°	12290.3	12388.7	13439.9	15073.6	18408.2	18676.8	18401.9	17428.9	15228.2	14103.7	12070.1
70°	10508.2	10662.9	11695.3	13885.0	18376.9	18520.6	18281.7	17656.9	15139.2	13816.3	11250.1
72.5°	8690.2	8777.7	9652.3	11837.4	17478.9	17599.1	17472.6	17307.1	14839.3	13015.0	9674.2
75°	6531.7	6550.5	7447.0	9347.8	15454.7	16082.5	16237.2	16704.2	13691.3	11156.4	7154.9
77.5°	4379.5	4565.3	5425.9	7144.0	12687.0	13691.3	14423.8	14764.3	11439.1	8326.3	3804.7
80°	2350.6	2397.5	3325.2	5069.8	9641.4	10602.0	11297.0	11303.2	7999.9	4124.9	849.7
82.5°	1088.6	1043.3	1674.3	3208.1	6678.5	7106.5	7571.9	6342.7	3203.4	704.4	217.1
85°	482.6	509.2	757.5	1563.4	3706.3	4135.8	4076.5	2808.2	562.3	190.5	132.8
87.5°	179.6	189.0	293.6	631.0	1322.9	1443.2	1297.9	540.4	73.4	67.2	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510328

CATALOG NUMBER: VERD-M-CA4-250-740-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9
2.5°	3261.2	3261.2	3258.1	3215.9	3206.5	3186.2	3169.0	3181.5	3167.5	3176.8	3167.5
5°	3275.2	3267.4	3248.7	3198.7	3175.3	3130.0	3095.6	3103.4	3084.7	3084.7	3083.1
7.5°	3308.0	3292.4	3259.6	3180.0	3136.2	3070.6	3017.5	3000.3	2981.6	2959.7	2956.6
10°	3361.1	3339.3	3295.5	3186.2	3101.9	3014.4	2922.3	2886.3	2839.5	2805.1	2798.9
12.5°	3434.5	3401.7	3342.4	3209.6	3098.7	2959.7	2836.4	2766.1	2709.8	2659.9	2648.9
15°	3540.8	3508.0	3437.7	3256.5	3100.3	2908.2	2745.8	2628.6	2531.8	2484.9	2486.5
17.5°	3695.4	3671.9	3564.2	3354.9	3130.0	2881.6	2670.8	2484.9	2335.0	2256.9	2246.0
20°	3893.7	3878.1	3746.9	3484.5	3198.7	2886.3	2589.6	2331.9	2111.6	1941.4	1903.9
22.5°	4124.9	4101.5	3940.6	3597.0	3251.8	2873.8	2500.5	2163.2	1832.1	1610.3	1566.6
25°	4382.6	4370.1	4118.6	3695.4	3258.1	2820.7	2372.5	1944.5	1529.1	1291.7	1254.2
27.5°	4712.2	4638.7	4279.5	3748.5	3244.0	2716.1	2189.7	1644.6	1215.1	1051.1	1010.5
30°	5072.9	4924.6	4435.7	3789.1	3175.3	2549.0	1928.9	1297.9	904.3	759.1	738.8
32.5°	5472.8	5251.0	4582.5	3786.0	3053.5	2291.3	1590.0	901.2	610.7	551.3	531.0
35°	6195.9	5819.5	4759.0	3734.4	2848.8	1985.1	1123.0	587.3	452.9	417.0	412.3
37.5°	7200.2	6561.4	4996.4	3636.0	2584.9	1629.0	732.5	401.4	387.3	388.9	387.3
40°	8023.3	7389.2	5326.0	3487.6	2252.2	1163.6	438.9	357.7	365.5	370.2	371.7
42.5°	8829.2	8063.9	5733.6	3301.8	1903.9	755.9	356.1	342.0	335.8	343.6	346.7
45°	9477.4	8652.7	6117.8	3084.7	1496.3	446.7	345.2	317.1	306.1	309.2	313.9
47.5°	9996.0	9121.3	6349.0	2831.7	1093.3	337.4	335.8	295.2	279.6	276.5	274.9
50°	10484.8	9522.7	6497.4	2525.5	696.6	324.9	310.8	270.2	251.5	248.3	248.3
52.5°	10817.5	9785.1	6547.3	2163.2	415.5	317.1	293.6	249.9	224.9	229.6	232.7
55°	11142.4	10050.6	6444.3	1691.5	318.6	296.8	274.9	224.9	204.6	223.3	229.6
57.5°	11297.0	10089.7	6211.5	1176.1	309.2	268.6	248.3	201.5	185.9	196.8	196.8
60°	11421.9	10063.1	5886.7	745.0	301.4	249.9	226.5	182.7	164.0	157.7	153.1
62.5°	11339.2	9956.9	5233.8	485.7	279.6	228.0	206.2	168.7	142.1	124.9	123.4
65°	11162.7	9582.1	4178.0	382.7	259.3	217.1	187.4	151.5	124.9	104.6	103.1
67.5°	10642.6	8669.9	2703.6	317.1	248.3	209.3	173.4	140.6	110.9	90.6	89.0
70°	9396.2	7003.4	829.4	284.3	257.7	201.5	170.2	128.1	98.4	79.7	76.5
72.5°	7429.8	4679.4	307.7	235.8	221.8	193.7	165.6	115.6	84.3	67.2	64.0
75°	4785.6	1529.1	260.8	182.7	189.0	184.3	153.1	106.2	71.8	54.7	53.1
77.5°	1355.7	320.2	237.4	134.3	167.1	178.1	134.3	89.0	64.0	46.9	45.3
80°	284.3	228.0	217.1	95.3	124.9	115.6	90.6	68.7	60.9	40.6	40.6
82.5°	185.9	181.2	185.9	65.6	82.8	84.3	71.8	59.4	53.1	37.5	37.5
85°	131.2	165.6	89.0	46.9	39.0	35.9	42.2	51.5	46.9	31.2	31.2
87.5°	45.3	26.6	18.7	18.7	17.2	17.2	20.3	23.4	25.0	25.0	23.4
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)