

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: P510344

Luminaire Tested: **VERD-M-CA4-250-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510344
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-CA4-250-760-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1130mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30984 lumens
Efficiency: N/A
Efficacy: 123.1 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

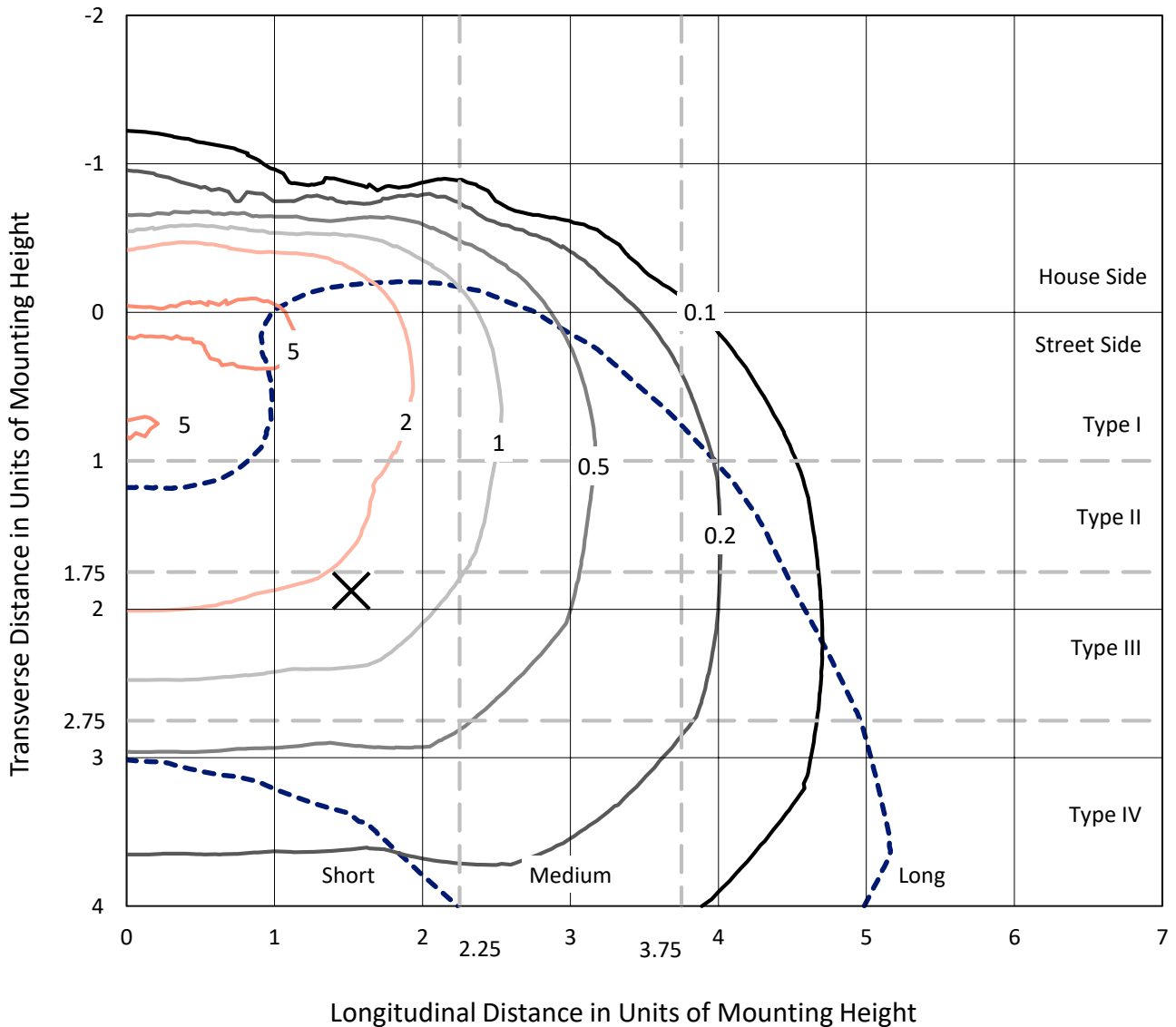
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

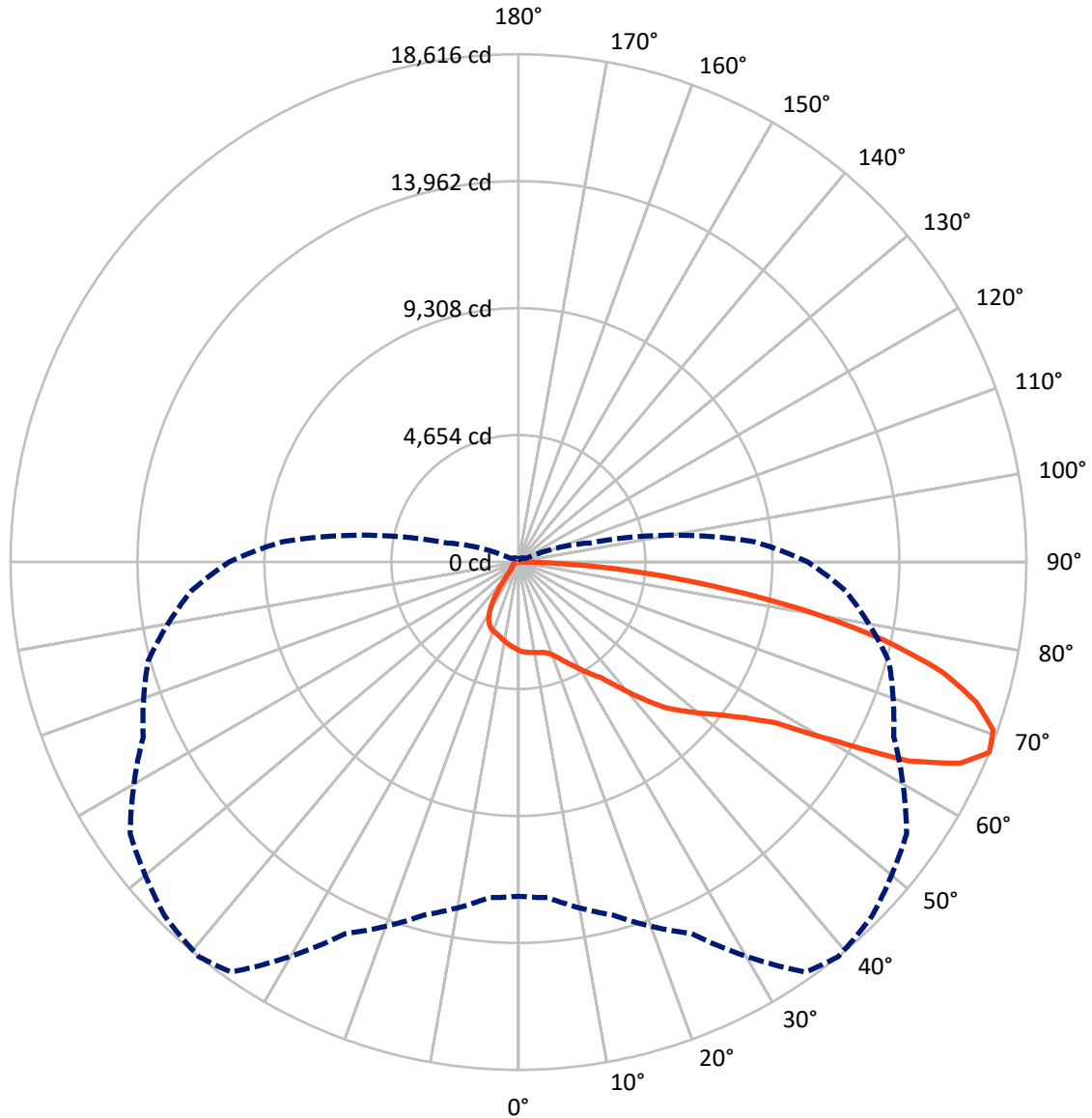
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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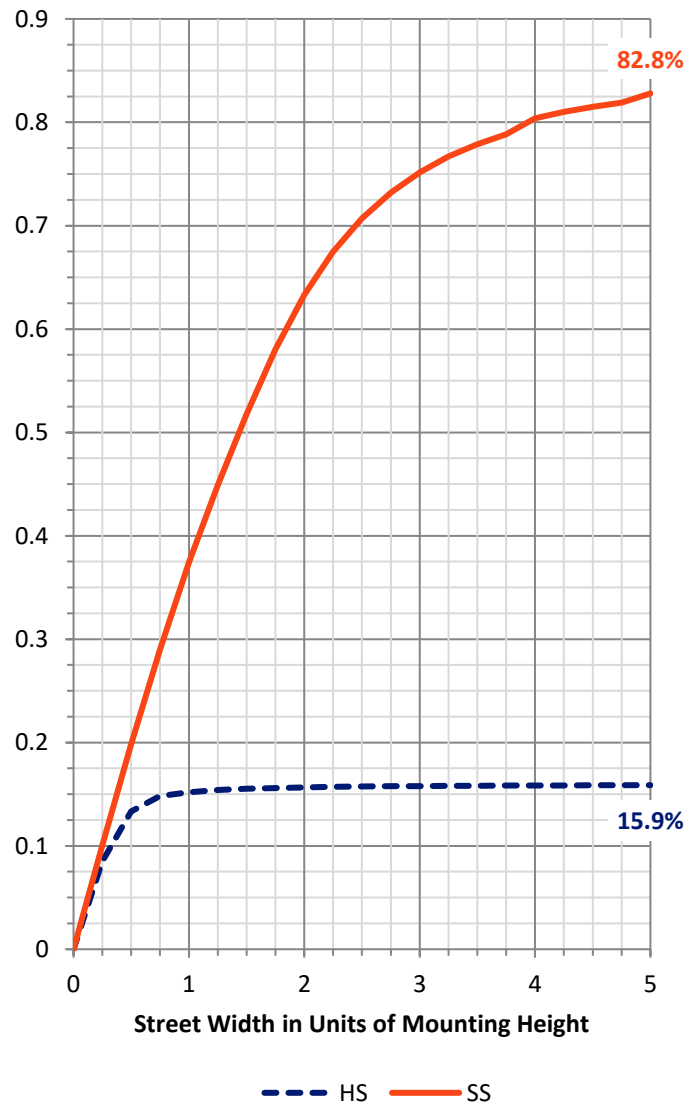
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4975.3	0.0	4975.3
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	26008.7	0.0	26008.7
	% Fixture	83.9	0.0	83.9
Total	Lumens	30984.0	0.0	30984.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	1.0
10°-20°	911.6	2.9
20°-30°	1615.1	5.2
30°-40°	2586.8	8.3
40°-50°	4149.8	13.4
50°-60°	6065.8	19.6
60°-70°	8083.0	26.1
70°-80°	6065.6	19.6
80°-90°	1200.1	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°	30984.0	100.0
0°-180°	30984.0	100.0



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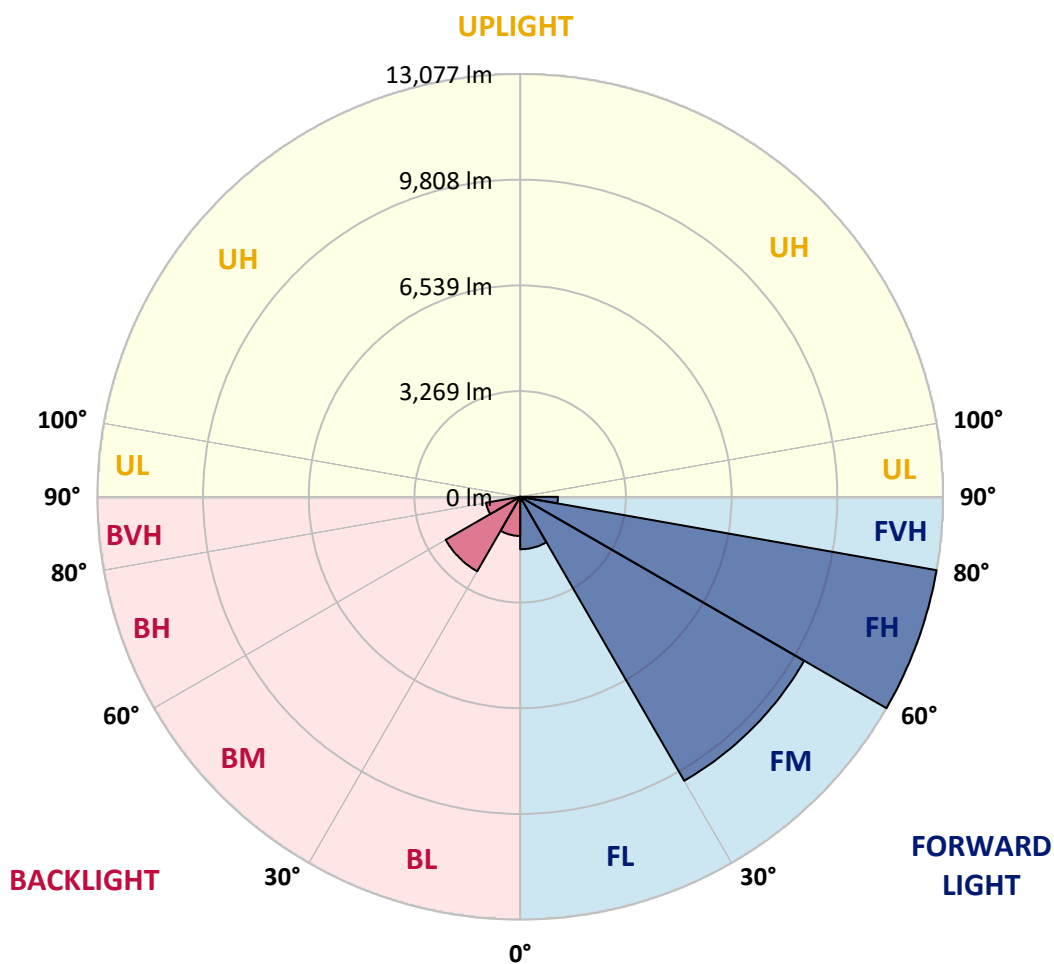
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1621.4	5.2			
FM	(30°-60°)	10141.3	32.7			
FH	(60°-80°)	13077.3	42.2			G5
FVH	(80°-90°)	1168.7	3.8			G5
BL	(0°-30°)	1211.5	3.9	B3/2500		
BM	(30°-60°)	2661.1	8.6	B3/5000		
BH	(60°-80°)	1071.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	31.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4
2.5°	3247.5	3291.1	3291.1	3278.6	3286.4	3292.6	3245.9	3258.4	3253.7	3252.1	3261.5
5°	3272.4	3320.6	3317.5	3302.0	3308.2	3320.6	3277.0	3295.7	3289.5	3273.9	3277.0
7.5°	3272.4	3312.9	3322.2	3305.1	3334.6	3350.2	3303.5	3320.6	3328.4	3317.5	3306.6
10°	3259.9	3295.7	3308.2	3305.1	3344.0	3368.9	3323.8	3372.0	3378.2	3378.2	3361.1
12.5°	3255.3	3295.7	3312.9	3326.9	3372.0	3398.5	3372.0	3418.7	3449.9	3448.3	3437.4
15°	3258.4	3303.5	3330.0	3353.3	3401.6	3434.3	3423.4	3495.0	3532.4	3543.3	3543.3
17.5°	3336.2	3390.7	3403.1	3428.1	3460.7	3510.6	3496.6	3588.4	3647.6	3666.2	3692.7
20°	3554.2	3596.2	3611.8	3599.3	3613.3	3644.5	3616.4	3705.2	3793.9	3843.7	3887.3
22.5°	3832.8	3864.0	3849.9	3837.5	3829.7	3837.5	3803.2	3862.4	3962.0	4033.6	4108.4
25°	4044.5	4113.0	4102.1	4067.9	4057.0	4066.3	4022.8	4095.9	4187.8	4262.5	4374.6
27.5°	4301.4	4343.5	4313.9	4301.4	4309.2	4307.6	4281.2	4351.2	4435.3	4528.7	4693.7
30°	4580.1	4615.9	4586.3	4573.9	4587.9	4597.2	4567.6	4690.6	4779.4	4880.5	5093.8
32.5°	5037.8	5123.4	5042.5	4880.5	4883.7	4897.7	4900.8	5065.8	5227.7	5307.1	5588.9
35°	5690.1	5758.6	5651.2	5455.0	5210.6	5201.2	5226.2	5472.1	5797.5	6158.7	6488.7
37.5°	6298.8	6398.4	6301.9	6073.0	5775.7	5704.1	5574.9	5867.6	6379.7	7156.6	7567.6
40°	7028.9	7103.6	6912.2	6712.9	6415.5	6314.4	6107.3	6294.1	6996.2	8198.1	8481.4
42.5°	7615.8	7661.0	7502.2	7293.6	7035.1	6958.9	6745.6	6762.7	7654.7	9110.3	9292.5
45°	8159.1	8207.4	8076.6	7899.2	7735.7	7643.9	7488.2	7572.2	8426.9	10072.4	9961.9
47.5°	8571.7	8620.0	8515.7	8389.6	8219.9	8157.6	8160.7	8462.7	9371.9	10841.5	10562.8
50°	9247.3	9228.7	8956.2	8819.2	8686.9	8719.6	8753.8	9183.5	10324.6	11501.6	11118.6
52.5°	10425.8	10334.0	9772.0	9413.9	9250.5	9306.5	9362.5	9933.9	11406.6	12104.1	11545.2
55°	11758.5	11665.0	11187.1	10421.2	9988.4	10078.7	10030.4	10676.5	12315.8	12683.2	11897.0
57.5°	12748.6	12902.7	12720.6	12303.3	11219.8	11101.5	10994.1	11426.9	13050.6	13262.3	12234.8
60°	13609.5	13824.3	14149.7	14036.0	13575.2	13267.0	12281.5	12303.3	13757.4	13664.0	12368.7
62.5°	14450.1	14576.2	15133.6	15256.6	15827.9	16049.0	15048.0	13436.7	14440.8	13942.6	12459.0
65°	13609.5	13771.4	14741.3	15636.4	17482.8	17778.6	17426.7	15488.5	14943.7	14107.7	12354.7
67.5°	12250.4	12348.5	13396.2	15024.6	18348.4	18616.1	18342.1	17372.2	15178.7	14057.8	12030.9
70°	10474.1	10628.2	11657.3	13839.9	18317.2	18460.4	18222.3	17599.5	15090.0	13771.4	11213.6
72.5°	8662.0	8749.2	9621.0	11798.9	17422.1	17541.9	17415.8	17250.8	14791.1	12972.8	9642.8
75°	6510.5	6529.2	7422.8	9317.4	15404.5	16030.3	16184.4	16649.9	13646.8	11120.2	7131.7
77.5°	4365.2	4550.5	5408.3	7120.8	12645.8	13646.8	14377.0	14716.4	11401.9	8299.3	3792.3
80°	2343.0	2389.7	3314.4	5053.3	9610.1	10567.5	11260.3	11266.5	7973.9	4111.5	846.9
82.5°	1085.1	1039.9	1668.9	3197.7	6656.8	7083.4	7547.3	6322.1	3193.0	702.1	216.4
85°	481.0	507.5	755.0	1558.3	3694.3	4122.4	4063.2	2799.1	560.4	189.9	132.3
87.5°	179.0	188.4	292.7	628.9	1318.6	1438.5	1293.7	538.7	73.2	66.9	40.5
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°	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4	3244.4
2.5°	3250.6	3250.6	3247.5	3205.4	3196.1	3175.9	3158.7	3171.2	3157.2	3166.5	3157.2
5°	3264.6	3256.8	3238.1	3188.3	3165.0	3119.8	3085.6	3093.3	3074.7	3074.7	3073.1
7.5°	3297.3	3281.7	3249.0	3169.6	3126.0	3060.7	3007.7	2990.6	2971.9	2950.1	2947.0
10°	3350.2	3328.4	3284.8	3175.9	3091.8	3004.6	2912.8	2877.0	2830.2	2796.0	2789.8
12.5°	3423.4	3390.7	3331.5	3199.2	3088.7	2950.1	2827.1	2757.1	2701.0	2651.2	2640.3
15°	3529.2	3496.6	3426.5	3245.9	3090.2	2898.7	2736.8	2620.1	2523.6	2476.9	2478.4
17.5°	3683.4	3660.0	3552.6	3344.0	3119.8	2872.3	2662.1	2476.9	2327.4	2249.6	2238.7
20°	3881.1	3865.5	3734.7	3473.2	3188.3	2877.0	2581.2	2324.3	2104.8	1935.1	1897.7
22.5°	4111.5	4088.1	3927.8	3585.3	3241.2	2864.5	2492.4	2156.2	1826.1	1605.1	1561.5
25°	4368.4	4355.9	4105.3	3683.4	3247.5	2811.6	2364.8	1938.2	1524.1	1287.5	1250.1
27.5°	4696.8	4623.7	4265.6	3736.3	3233.5	2707.3	2182.6	1639.3	1211.2	1047.7	1007.2
30°	5056.5	4908.6	4421.3	3776.8	3165.0	2540.7	1922.6	1293.7	901.4	756.6	736.4
32.5°	5455.0	5233.9	4567.6	3773.7	3043.5	2283.8	1584.8	898.3	608.7	549.5	529.3
35°	6175.8	5800.6	4743.5	3722.3	2839.6	1978.7	1119.3	585.4	451.5	415.7	411.0
37.5°	7176.8	6540.1	4980.2	3624.2	2576.5	1623.7	730.1	400.1	386.1	387.6	386.1
40°	7997.2	7365.2	5308.7	3476.3	2244.9	1159.8	437.5	356.5	364.3	369.0	370.5
42.5°	8800.5	8037.7	5715.0	3291.1	1897.7	753.5	354.9	340.9	334.7	342.5	345.6
45°	9446.6	8624.6	6098.0	3074.7	1491.4	445.2	344.1	316.0	305.1	308.2	312.9
47.5°	9963.5	9091.7	6328.4	2822.5	1089.8	336.3	334.7	294.2	278.7	275.6	274.0
50°	10450.7	9491.8	6476.3	2517.3	694.3	323.8	309.8	269.3	250.6	247.5	247.5
52.5°	10782.3	9753.3	6526.1	2156.2	414.1	316.0	292.7	249.1	224.2	228.8	232.0
55°	11106.2	10018.0	6423.3	1686.0	317.6	295.8	274.0	224.2	203.9	222.6	228.8
57.5°	11260.3	10056.9	6191.4	1172.3	308.2	267.8	247.5	200.8	185.3	196.2	196.2
60°	11384.8	10030.4	5867.6	742.6	300.5	249.1	225.7	182.1	163.5	157.2	152.6
62.5°	11302.3	9924.6	5216.8	484.2	278.7	227.3	205.5	168.1	141.7	124.5	123.0
65°	11126.4	9550.9	4164.4	381.4	258.4	216.4	186.8	151.0	124.5	104.3	102.7
67.5°	10608.0	8641.8	2694.8	316.0	247.5	208.6	172.8	140.1	110.5	90.3	88.7
70°	9365.7	6980.7	826.7	283.3	256.9	200.8	169.7	127.7	98.1	79.4	76.3
72.5°	7405.7	4664.2	306.7	235.1	221.1	193.0	165.0	115.2	84.1	66.9	63.8
75°	4770.0	1524.1	260.0	182.1	188.4	183.7	152.6	105.9	71.6	54.5	52.9
77.5°	1351.3	319.1	236.6	133.9	166.6	177.5	133.9	88.7	63.8	46.7	45.1
80°	283.3	227.3	216.4	95.0	124.5	115.2	90.3	68.5	60.7	40.5	40.5
82.5°	185.3	180.6	185.3	65.4	82.5	84.1	71.6	59.2	52.9	37.4	37.4
85°	130.8	165.0	88.7	46.7	38.9	35.8	42.0	51.4	46.7	31.1	31.1
87.5°	45.1	26.5	18.7	18.7	17.1	17.1	20.2	23.4	24.9	24.9	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)