

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: P510280

Luminaire Tested: **VERD-M-CA4-240-740-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510280
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-CA4-240-740-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1090mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30076 lumens
Efficiency: N/A
Efficacy: 124.1 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

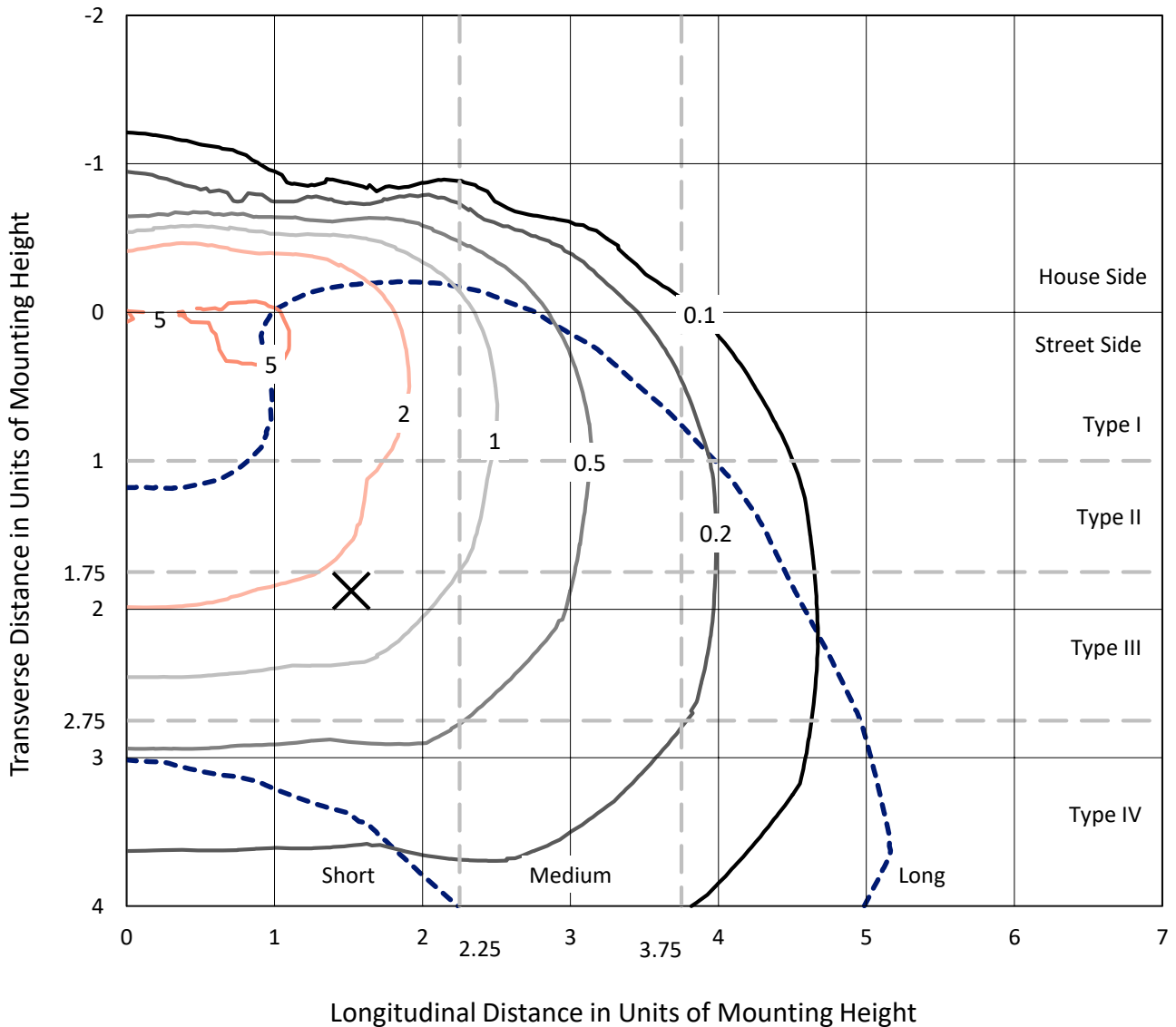
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

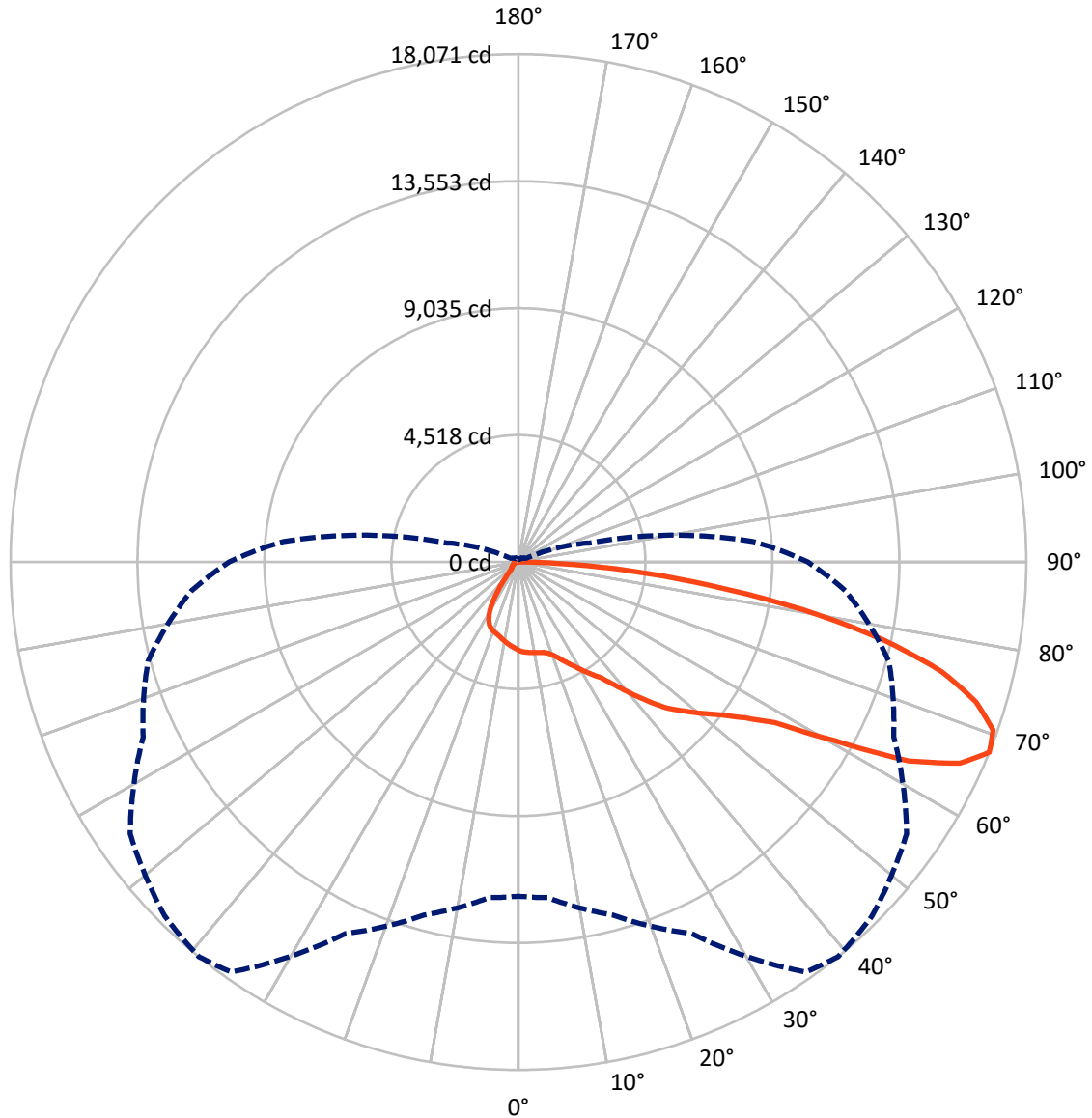
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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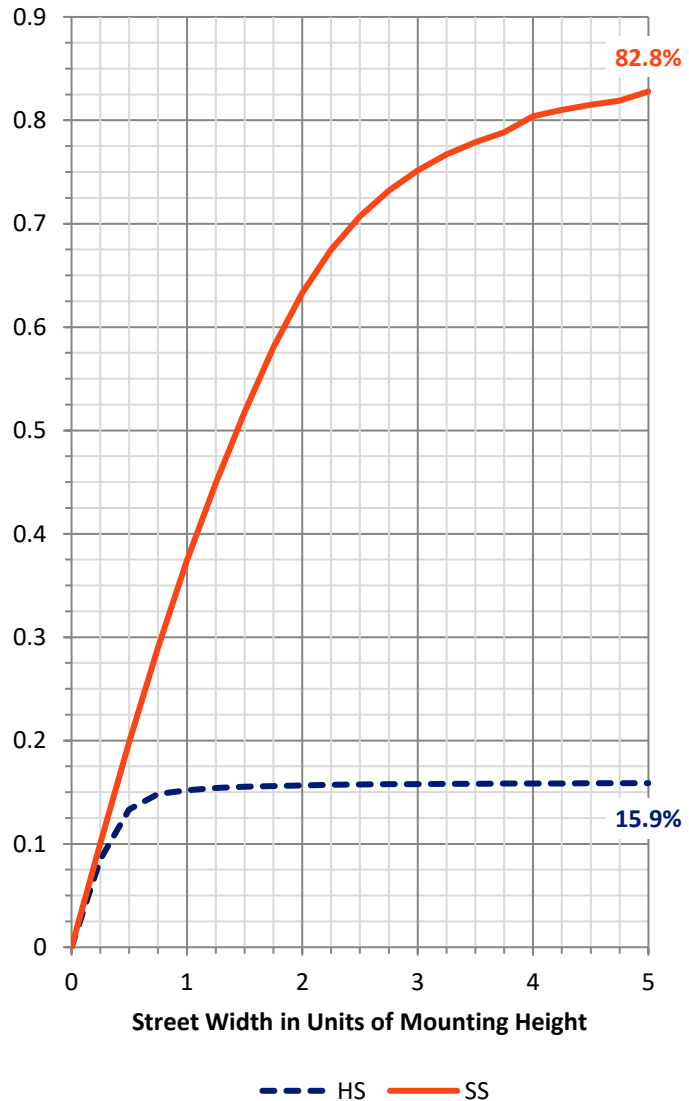
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4829.5	0.0	4829.5
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	25246.5	0.0	25246.5
	% Fixture	83.9	0.0	83.9
Total	Lumens	30076.0	0.0	30076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	1.0
10°-20°	884.9	2.9
20°-30°	1567.7	5.2
30°-40°	2511.0	8.3
40°-50°	4028.2	13.4
50°-60°	5888.0	19.6
60°-70°	7846.1	26.1
70°-80°	5887.8	19.6
80°-90°	1164.9	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°	30076.0	100.0
0°-180°	30076.0	100.0

Coefficient of Utilization



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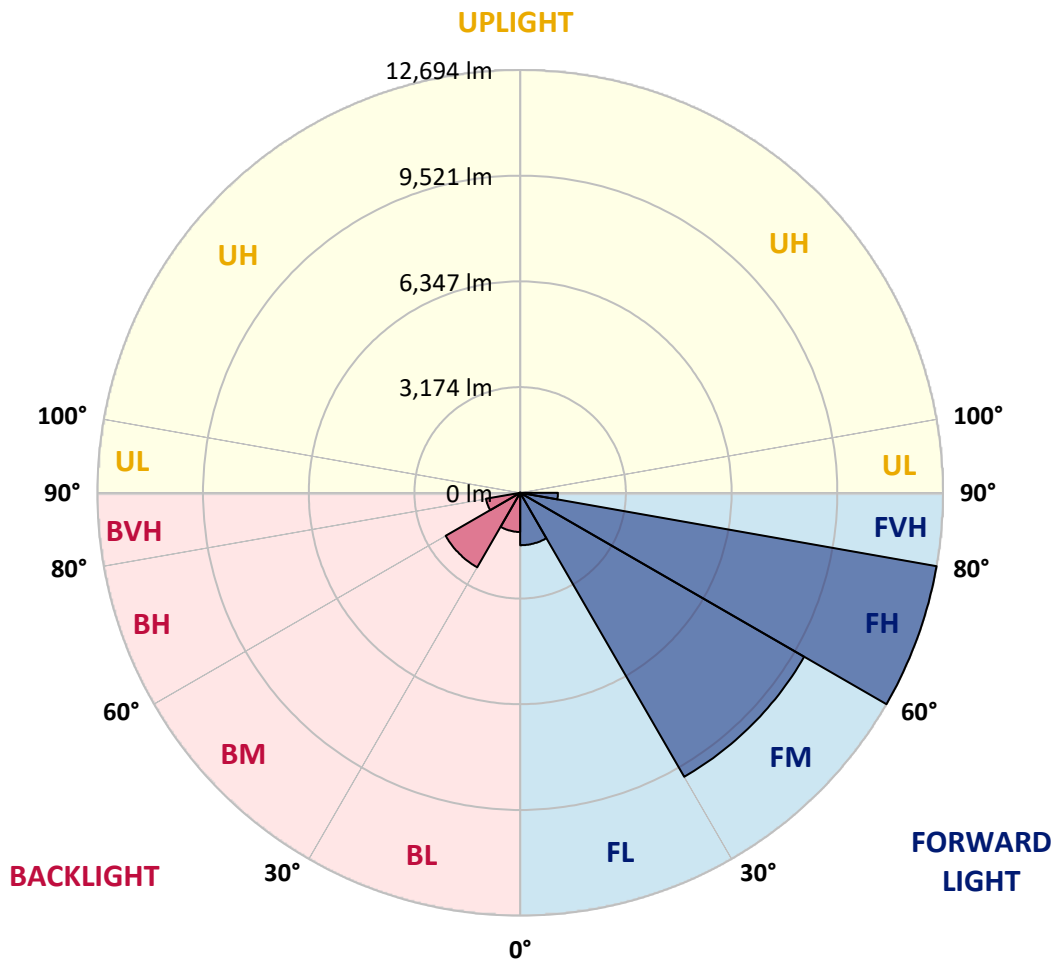
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1573.9	5.2			
FM	(30°-60°)	9844.1	32.7			
FH	(60°-80°)	12694.1	42.2			G5
FVH	(80°-90°)	1134.4	3.8			G5
BL	(0°-30°)	1176.0	3.9	B3/2500		
BM	(30°-60°)	2583.1	8.6	B3/5000		
BH	(60°-80°)	1039.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	30.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3
2.5°	3152.3	3194.6	3194.6	3182.5	3190.1	3196.1	3150.8	3162.9	3158.3	3156.8	3165.9
5°	3176.5	3223.3	3220.3	3205.2	3211.2	3223.3	3181.0	3199.1	3193.1	3178.0	3181.0
7.5°	3176.5	3215.8	3224.8	3208.2	3236.9	3252.0	3206.7	3223.3	3230.9	3220.3	3209.7
10°	3164.4	3199.1	3211.2	3208.2	3246.0	3270.2	3226.3	3273.2	3279.2	3279.2	3262.6
12.5°	3159.9	3199.1	3215.8	3229.4	3273.2	3298.9	3273.2	3318.5	3348.8	3347.2	3336.7
15°	3162.9	3206.7	3232.4	3255.1	3301.9	3333.6	3323.1	3392.6	3428.8	3439.4	3439.4
17.5°	3238.4	3291.3	3303.4	3327.6	3359.3	3407.7	3394.1	3483.2	3540.7	3558.8	3584.5
20°	3450.0	3490.8	3505.9	3493.8	3507.4	3537.6	3510.4	3596.6	3682.7	3731.1	3773.4
22.5°	3720.5	3750.7	3737.1	3725.0	3717.5	3725.0	3691.8	3749.2	3845.9	3915.4	3988.0
25°	3926.0	3992.5	3981.9	3948.7	3938.1	3947.2	3904.9	3975.9	4065.0	4137.6	4246.4
27.5°	4175.4	4216.2	4187.5	4175.4	4182.9	4181.4	4155.7	4223.7	4305.3	4396.0	4556.2
30°	4445.9	4480.6	4451.9	4439.8	4453.4	4462.5	4433.8	4553.2	4639.3	4737.5	4944.5
32.5°	4890.1	4973.3	4894.7	4737.5	4740.5	4754.1	4757.2	4917.3	5074.5	5151.6	5425.1
35°	5523.3	5589.8	5485.5	5295.1	5057.9	5048.8	5073.0	5311.8	5627.6	5978.2	6298.6
37.5°	6114.2	6210.9	6117.2	5895.1	5606.4	5536.9	5411.5	5695.6	6192.8	6946.8	7345.8
40°	6822.9	6895.5	6709.6	6516.2	6227.5	6129.3	5928.3	6109.7	6791.2	7957.8	8232.9
42.5°	7392.6	7436.5	7282.3	7079.8	6829.0	6754.9	6547.9	6564.5	7430.4	8843.4	9020.2
45°	7920.0	7966.9	7839.9	7667.7	7509.0	7419.8	7268.7	7350.3	8180.0	9777.3	9670.0
47.5°	8320.5	8367.3	8266.1	8143.7	7979.0	7918.5	7921.6	8214.7	9097.2	10523.8	10253.3
50°	8976.3	8958.2	8693.8	8560.8	8432.3	8464.1	8497.3	8914.4	10022.1	11164.5	10792.8
52.5°	10120.3	10031.1	9485.6	9138.0	8979.4	9033.8	9088.2	9642.8	11072.3	11749.3	11206.8
55°	11413.9	11323.2	10859.3	10115.8	9695.7	9783.3	9736.5	10363.6	11954.9	12311.5	11548.4
57.5°	12375.0	12524.6	12347.8	11942.8	10891.0	10776.2	10671.9	11092.0	12668.1	12873.7	11876.3
60°	13210.6	13419.2	13735.0	13624.7	13177.4	12878.2	11921.6	11942.8	13354.2	13263.5	12006.2
62.5°	14026.7	14149.1	14690.1	14809.5	15364.1	15578.7	14607.0	13042.9	14017.6	13534.0	12093.9
65°	13210.6	13367.8	14309.3	15178.2	16970.4	17257.6	16916.0	15034.6	14505.7	13694.2	11992.6
67.5°	11891.4	11986.6	13003.6	14584.3	17810.6	18070.6	17804.6	16863.1	14733.9	13645.9	11678.3
70°	10167.2	10316.8	11315.6	13434.3	17780.4	17919.5	17688.2	17083.8	14647.8	13367.8	10885.0
72.5°	8408.1	8492.8	9339.0	11453.2	16911.5	17027.9	16905.5	16745.3	14357.6	12592.6	9360.2
75°	6319.7	6337.8	7205.3	9044.4	14953.0	15560.5	15710.1	16162.0	13246.9	10794.3	6922.7
77.5°	4237.3	4417.1	5249.8	6912.1	12275.2	13246.9	13955.7	14285.1	11067.8	8056.0	3681.2
80°	2274.3	2319.6	3217.3	4905.3	9328.5	10257.8	10930.3	10936.3	7740.2	3991.0	822.1
82.5°	1053.3	1009.5	1620.0	3103.9	6461.8	6875.8	7326.2	6136.9	3099.4	681.5	210.1
85°	467.0	492.6	732.9	1512.7	3586.0	4001.6	3944.2	2717.1	544.0	184.4	128.4
87.5°	173.8	182.9	284.1	610.5	1280.0	1396.3	1255.8	522.9	71.0	65.0	39.3
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°	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3	3149.3
2.5°	3155.3	3155.3	3152.3	3111.5	3102.4	3082.8	3066.2	3078.3	3064.7	3073.7	3064.7
5°	3168.9	3161.4	3143.2	3094.9	3072.2	3028.4	2995.1	3002.7	2984.6	2984.6	2983.0
7.5°	3200.7	3185.5	3153.8	3076.7	3034.4	2971.0	2919.6	2903.0	2884.8	2863.7	2860.6
10°	3252.0	3230.9	3188.6	3082.8	3001.2	2916.6	2827.4	2792.6	2747.3	2714.1	2708.0
12.5°	3323.1	3291.3	3233.9	3105.5	2998.2	2863.7	2744.3	2676.3	2621.9	2573.5	2562.9
15°	3425.8	3394.1	3326.1	3150.8	2999.7	2813.8	2656.6	2543.3	2449.6	2404.3	2405.8
17.5°	3575.4	3552.8	3448.5	3246.0	3028.4	2788.1	2584.1	2404.3	2259.2	2183.6	2173.1
20°	3767.3	3752.2	3625.3	3371.4	3094.9	2792.6	2505.5	2256.2	2043.1	1878.4	1842.1
22.5°	3991.0	3968.3	3812.7	3480.2	3146.3	2780.6	2419.4	2093.0	1772.6	1558.0	1515.7
25°	4240.3	4228.3	3985.0	3575.4	3152.3	2729.2	2295.5	1881.4	1479.4	1249.7	1213.5
27.5°	4559.2	4488.2	4140.6	3626.8	3138.7	2627.9	2118.7	1591.3	1175.7	1017.0	977.7
30°	4908.3	4764.7	4291.7	3666.1	3072.2	2466.2	1866.3	1255.8	875.0	734.4	714.8
32.5°	5295.1	5080.6	4433.8	3663.1	2954.3	2216.9	1538.4	871.9	590.9	533.4	513.8
35°	5994.8	5630.6	4604.5	3613.2	2756.4	1920.7	1086.5	568.2	438.2	403.5	398.9
37.5°	6966.5	6348.4	4834.2	3518.0	2501.0	1576.2	708.7	388.4	374.8	376.3	374.8
40°	7762.9	7149.3	5153.1	3374.4	2179.1	1125.8	424.6	346.1	353.6	358.1	359.7
42.5°	8542.6	7802.2	5547.5	3194.6	1842.1	731.4	344.5	330.9	324.9	332.5	335.5
45°	9169.8	8371.9	5919.3	2984.6	1447.7	432.2	334.0	306.8	296.2	299.2	303.7
47.5°	9671.5	8825.2	6142.9	2739.8	1057.8	326.4	324.9	285.6	270.5	267.5	266.0
50°	10144.5	9213.6	6286.5	2443.6	674.0	314.3	300.7	261.4	243.3	240.3	240.3
52.5°	10466.4	9467.5	6334.8	2093.0	402.0	306.8	284.1	241.8	217.6	222.1	225.2
55°	10780.7	9724.4	6235.1	1636.6	308.3	287.1	266.0	217.6	198.0	216.1	222.1
57.5°	10930.3	9762.2	6009.9	1137.9	299.2	259.9	240.3	194.9	179.8	190.4	190.4
60°	11051.2	9736.5	5695.6	720.8	291.7	241.8	219.1	176.8	158.7	152.6	148.1
62.5°	10971.1	9633.7	5063.9	470.0	270.5	220.6	199.5	163.2	137.5	120.9	119.4
65°	10800.3	9271.0	4042.4	370.2	250.9	210.1	181.3	146.6	120.9	101.2	99.7
67.5°	10297.1	8388.5	2615.8	306.8	240.3	202.5	167.7	136.0	107.3	87.6	86.1
70°	9091.2	6776.1	802.4	275.0	249.3	194.9	164.7	123.9	95.2	77.1	74.0
72.5°	7188.6	4527.5	297.7	228.2	214.6	187.4	160.2	111.8	81.6	65.0	62.0
75°	4630.2	1479.4	252.4	176.8	182.9	178.3	148.1	102.8	69.5	52.9	51.4
77.5°	1311.7	309.8	229.7	130.0	161.7	172.3	130.0	86.1	62.0	45.3	43.8
80°	275.0	220.6	210.1	92.2	120.9	111.8	87.6	66.5	58.9	39.3	39.3
82.5°	179.8	175.3	179.8	63.5	80.1	81.6	69.5	57.4	51.4	36.3	36.3
85°	126.9	160.2	86.1	45.3	37.8	34.8	40.8	49.9	45.3	30.2	30.2
87.5°	43.8	25.7	18.1	18.1	16.6	16.6	19.6	22.7	24.2	24.2	22.7
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)