

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: P509966

Luminaire Tested: **VERD-M-CA3-180-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-180-722-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19422 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

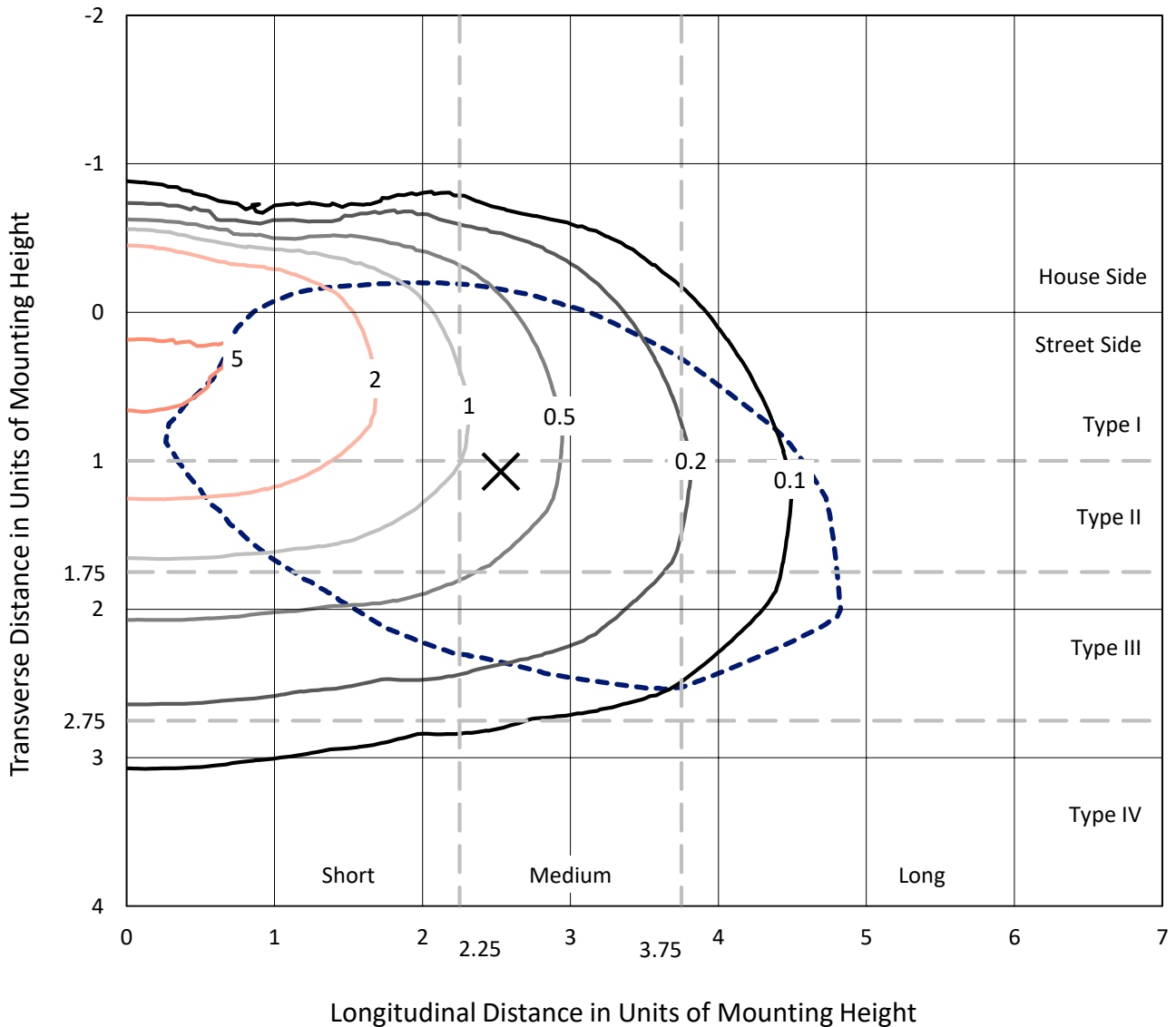
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

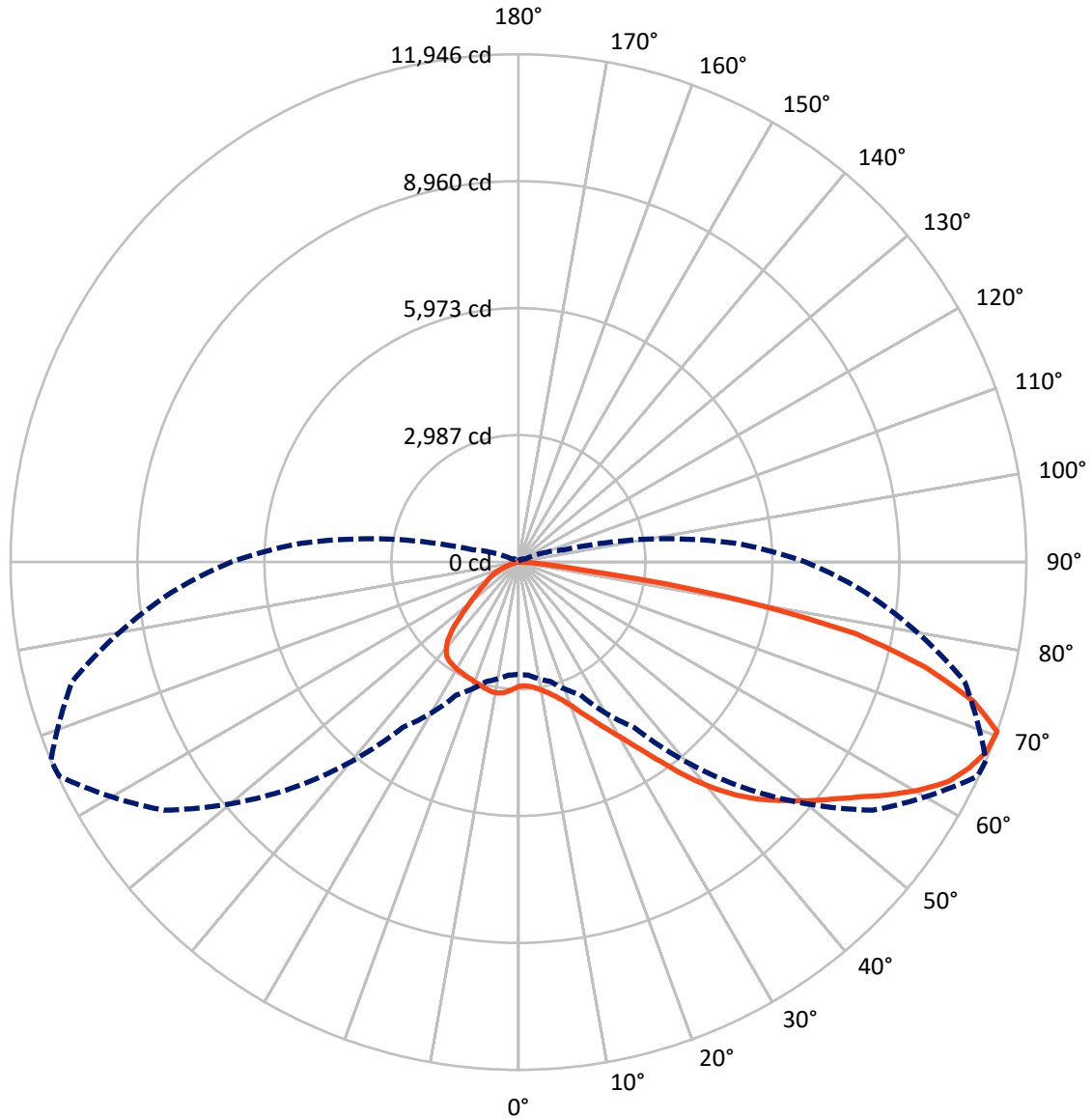
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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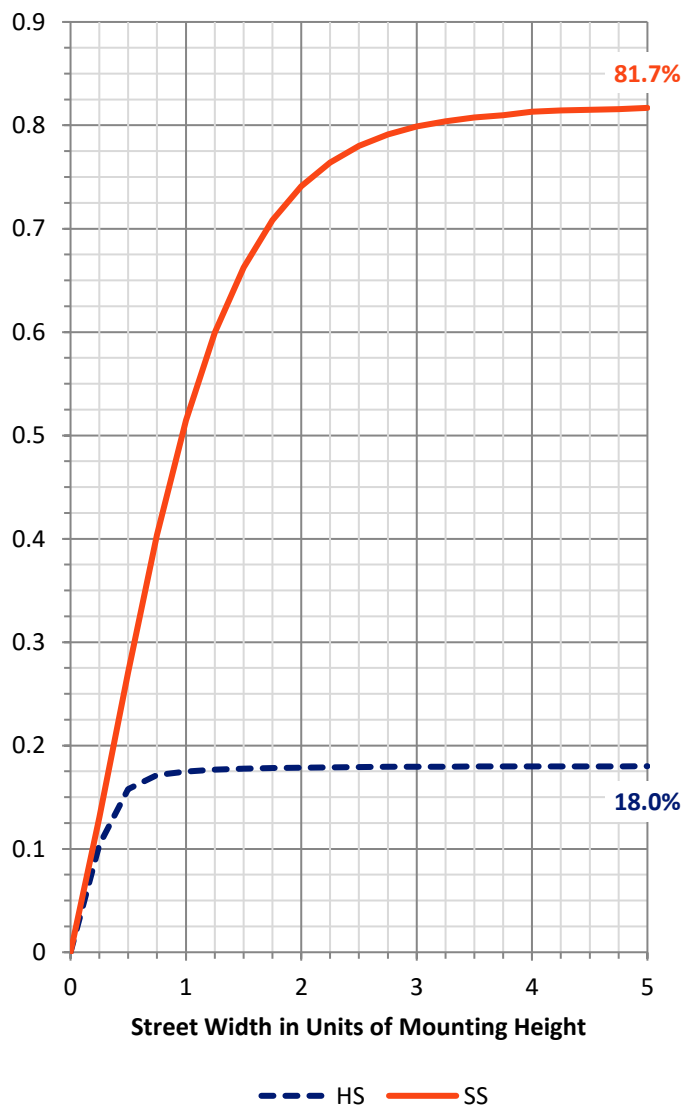
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3538.8	0.0	3538.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	15883.2	0.0	15883.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	19422.0	0.0	19422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	1.5
10°-20°	908.1	4.7
20°-30°	1575.6	8.1
30°-40°	2340.0	12.0
40°-50°	3210.4	16.5
50°-60°	3942.6	20.3
60°-70°	4226.8	21.8
70°-80°	2683.3	13.8
80°-90°	244.2	1.3
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°	19422.0	100.0
0°-180°	19422.0	100.0

Coefficient of Utilization



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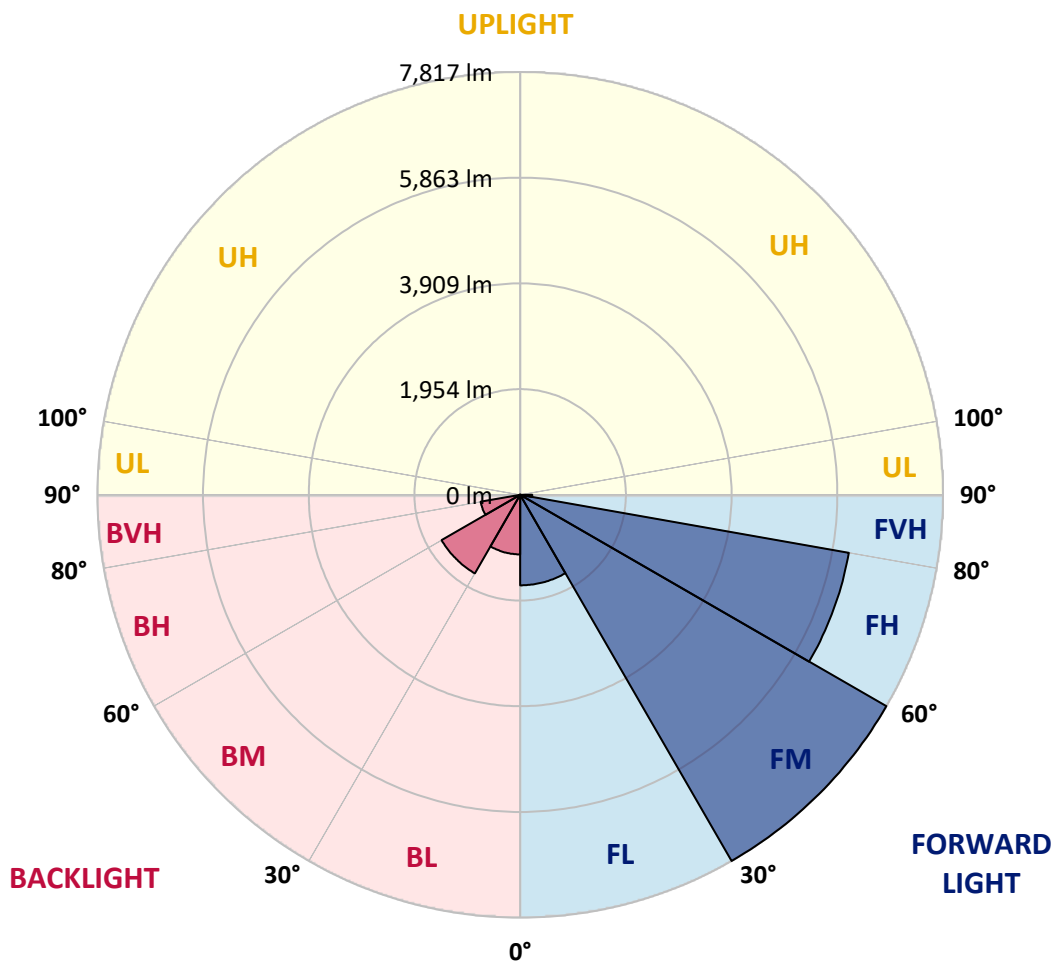
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1673.4	8.6			
FM	(30°-60°)	7817.2	40.2			
FH	(60°-80°)	6169.9	31.8			G3/7500
FVH	(80°-90°)	222.7	1.1			G2/225
BL	(0°-30°)	1101.3	5.7	B3/2500		
BM	(30°-60°)	1675.8	8.6	B2/2500		
BH	(60°-80°)	740.2	3.8	B2/1000		G2/1000
BVH	(80°-90°)	21.5	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2895.2	2922.4	2906.5	2904.6	2923.4	2905.5	2917.7	2914.9	2913.0	2915.9	2935.6
5°	2971.3	3003.3	2981.6	2975.1	2985.4	2953.5	2950.6	2944.1	2942.2	2943.1	2971.3
7.5°	3077.5	3115.1	3106.6	3089.7	3084.1	3031.4	3022.1	2998.6	2991.0	2992.9	3021.1
10°	3244.8	3282.3	3265.4	3227.8	3204.4	3144.2	3110.4	3080.3	3065.3	3067.2	3097.2
12.5°	3459.0	3494.7	3466.5	3397.9	3384.8	3288.0	3235.4	3171.5	3161.1	3146.1	3178.0
15°	3661.0	3692.1	3678.9	3615.0	3579.3	3464.6	3367.9	3288.9	3279.5	3265.4	3264.5
17.5°	3884.7	3915.7	3891.3	3844.3	3797.3	3661.0	3556.7	3455.3	3430.8	3418.6	3374.4
20°	4123.4	4172.2	4167.5	4129.0	4072.6	3912.9	3765.3	3650.7	3624.4	3601.8	3508.8
22.5°	4369.6	4433.5	4419.4	4398.7	4375.2	4195.7	4023.8	3891.3	3871.5	3823.6	3677.0
25°	4642.1	4686.2	4675.9	4686.2	4670.3	4511.5	4323.5	4161.9	4135.6	4090.5	3865.9
27.5°	4906.1	4952.2	4970.0	4948.4	4958.8	4845.1	4622.3	4477.6	4452.3	4369.6	4093.3
30°	5144.8	5202.1	5227.5	5236.9	5271.7	5154.2	4989.8	4814.0	4805.6	4721.0	4393.1
32.5°	5335.6	5399.5	5461.5	5501.9	5557.3	5505.7	5342.2	5236.0	5236.9	5160.8	4843.2
35°	5473.7	5547.0	5637.2	5744.3	5860.9	5839.3	5742.5	5744.3	5759.4	5784.8	5417.3
37.5°	5626.9	5686.1	5792.3	5941.7	6119.3	6164.4	6151.2	6300.6	6373.9	6419.0	5921.9
40°	5718.0	5778.2	5910.7	6111.8	6370.2	6478.2	6599.5	6861.6	6957.5	6910.5	6353.3
42.5°	5617.5	5671.0	5901.3	6249.0	6576.0	6821.2	7038.3	7421.7	7491.2	7338.1	6716.9
45°	5486.9	5556.4	5798.8	6286.5	6758.3	7157.6	7495.0	7909.4	7961.1	7744.0	7038.3
47.5°	5379.7	5440.8	5723.7	6246.1	6926.5	7502.5	7896.2	8369.8	8383.0	8115.2	7371.0
50°	5242.5	5316.8	5611.8	6196.3	7028.0	7807.9	8263.7	8799.3	8828.4	8499.5	7652.9
52.5°	5098.8	5171.1	5476.5	6114.6	7101.3	8061.6	8645.2	9256.0	9258.8	8906.4	7953.6
55°	4886.4	4963.5	5301.7	5996.2	7123.8	8229.8	9028.6	9722.1	9751.2	9318.9	8226.1
57.5°	4661.8	4727.6	5091.3	5812.0	7040.2	8388.6	9422.3	10239.8	10319.7	9784.1	8460.1
60°	4363.9	4429.7	4814.0	5570.5	6862.6	8567.2	9873.4	10863.8	10872.2	10160.9	8630.1
62.5°	4043.5	4100.8	4454.1	5191.8	6587.2	8635.8	10260.5	11362.8	11361.8	10496.4	8714.7
65°	3662.9	3686.4	4046.3	4726.7	6159.7	8535.2	10431.5	11691.7	11659.7	10737.9	8686.5
67.5°	3211.9	3237.2	3509.8	4148.7	5539.5	8142.4	10355.4	11850.5	11882.4	10953.1	8564.4
70°	2640.5	2670.6	2908.3	3447.7	4749.2	7515.7	10176.9	11919.1	11946.3	10866.6	8187.5
72.5°	1948.9	1989.3	2135.0	2566.3	3604.7	6314.7	9349.9	11168.3	11183.3	10144.9	7402.9
75°	1210.3	1284.6	1421.8	1705.5	2338.9	4428.8	7992.1	9984.2	9890.3	9049.2	6125.9
77.5°	483.9	496.2	564.8	798.7	1140.8	2306.0	5793.2	7936.6	8116.1	7240.3	4381.8
80°	281.9	280.0	296.0	372.1	489.6	788.4	2253.4	4452.3	4962.5	3976.8	1971.5
82.5°	227.4	218.9	218.9	238.7	234.9	331.7	738.6	1300.5	1426.5	1265.8	561.0
85°	119.3	116.5	94.9	117.5	117.5	165.4	283.8	368.4	389.0	339.2	210.5
87.5°	30.1	30.1	30.1	36.6	29.1	34.8	47.9	58.3	60.1	48.9	31.0
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°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2943.1	2951.6	2984.5	2979.8	2985.4	2985.4	2994.8	3005.1	3036.1	3018.3	3010.8
5°	2976.9	2993.9	3035.2	3050.2	3072.8	3075.6	3094.4	3101.0	3134.8	3116.0	3116.0
7.5°	3041.8	3061.5	3100.0	3105.7	3116.0	3098.2	3102.9	3082.2	3104.7	3082.2	3083.1
10°	3115.1	3128.2	3154.5	3117.0	3101.0	3058.7	3049.3	2998.6	3016.4	2987.3	2979.8
12.5°	3185.6	3180.9	3161.1	3094.4	3050.2	2980.7	2951.6	2883.0	2879.2	2840.7	2833.2
15°	3252.3	3219.4	3155.5	3052.1	2976.9	2880.2	2810.6	2735.4	2709.1	2665.0	2661.2
17.5°	3334.0	3277.6	3163.9	3011.7	2888.6	2747.7	2649.0	2564.4	2509.9	2469.5	2468.6
20°	3433.6	3347.2	3167.7	2965.7	2797.5	2617.0	2478.9	2371.8	2293.8	2243.0	2242.1
22.5°	3558.6	3441.2	3202.5	2913.0	2680.9	2459.2	2287.2	2102.1	1995.0	1891.6	1872.8
25°	3705.2	3536.1	3232.5	2885.8	2566.3	2294.7	2039.1	1768.5	1602.2	1519.5	1488.5
27.5°	3911.0	3693.9	3276.7	2834.1	2458.2	2091.8	1719.6	1424.6	1224.4	1153.9	1153.9
30°	4148.7	3893.1	3359.4	2803.1	2307.9	1807.0	1369.1	1052.5	866.4	760.2	757.4
32.5°	4511.5	4130.9	3434.6	2736.4	2125.6	1496.9	990.4	678.5	529.0	463.3	459.5
35°	5033.0	4583.8	3555.8	2669.7	1861.5	1114.5	628.7	389.0	301.6	264.1	262.2
37.5°	5534.8	5015.1	3817.0	2537.2	1486.6	700.1	348.6	224.6	184.2	179.5	177.6
40°	5888.1	5387.3	4001.2	2335.1	1056.2	371.2	202.0	162.6	159.7	157.9	156.9
42.5°	6273.4	5663.5	4131.8	2077.7	626.8	215.2	164.4	146.6	141.9	140.0	140.0
45°	6586.3	5929.5	4156.3	1709.3	315.7	177.6	150.4	133.4	127.8	131.6	132.5
47.5°	6874.8	6180.4	4073.6	1285.5	213.3	165.4	141.0	124.0	120.3	129.7	129.7
50°	7121.0	6392.7	3883.8	959.4	200.2	156.0	131.6	114.6	113.7	122.2	123.1
52.5°	7366.3	6563.8	3584.9	724.5	189.8	145.7	122.2	106.2	103.4	109.0	109.9
55°	7560.8	6624.8	3363.2	539.4	182.3	136.3	113.7	97.7	91.2	90.2	92.1
57.5°	7667.9	6571.3	3146.1	396.6	173.8	127.8	105.2	86.5	76.1	76.1	76.1
60°	7669.8	6506.4	2914.0	313.9	164.4	118.4	95.8	74.2	63.9	62.0	62.0
62.5°	7649.1	6390.9	2576.6	272.5	154.1	110.9	83.6	63.0	55.4	52.6	52.6
65°	7558.0	6172.8	2167.9	233.0	141.9	105.2	71.4	56.4	49.8	46.0	46.0
67.5°	7274.2	5764.1	1668.9	203.0	130.6	93.0	64.8	50.7	44.2	40.4	39.5
70°	6753.6	5103.5	1101.3	172.9	119.3	82.7	59.2	46.0	39.5	35.7	34.8
72.5°	5880.6	4153.4	553.5	146.6	102.4	76.1	53.6	40.4	33.8	30.1	30.1
75°	4608.3	2883.0	301.6	116.5	80.8	66.7	47.0	33.8	29.1	26.3	26.3
77.5°	2825.7	1429.3	205.8	90.2	61.1	54.5	37.6	28.2	25.4	24.4	24.4
80°	1030.8	468.0	138.1	63.9	46.0	42.3	30.1	24.4	23.5	23.5	23.5
82.5°	372.1	237.7	93.0	43.2	29.1	31.9	24.4	20.7	19.7	20.7	21.6
85°	153.2	104.3	33.8	24.4	16.0	16.9	15.0	14.1	15.0	16.0	16.0
87.5°	23.5	20.7	12.2	12.2	9.4	8.5	6.6	7.5	9.4	11.3	11.3
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)