

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: P509231

Luminaire Tested: **VERD-CA2-130-750-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-750-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1180mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18602 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

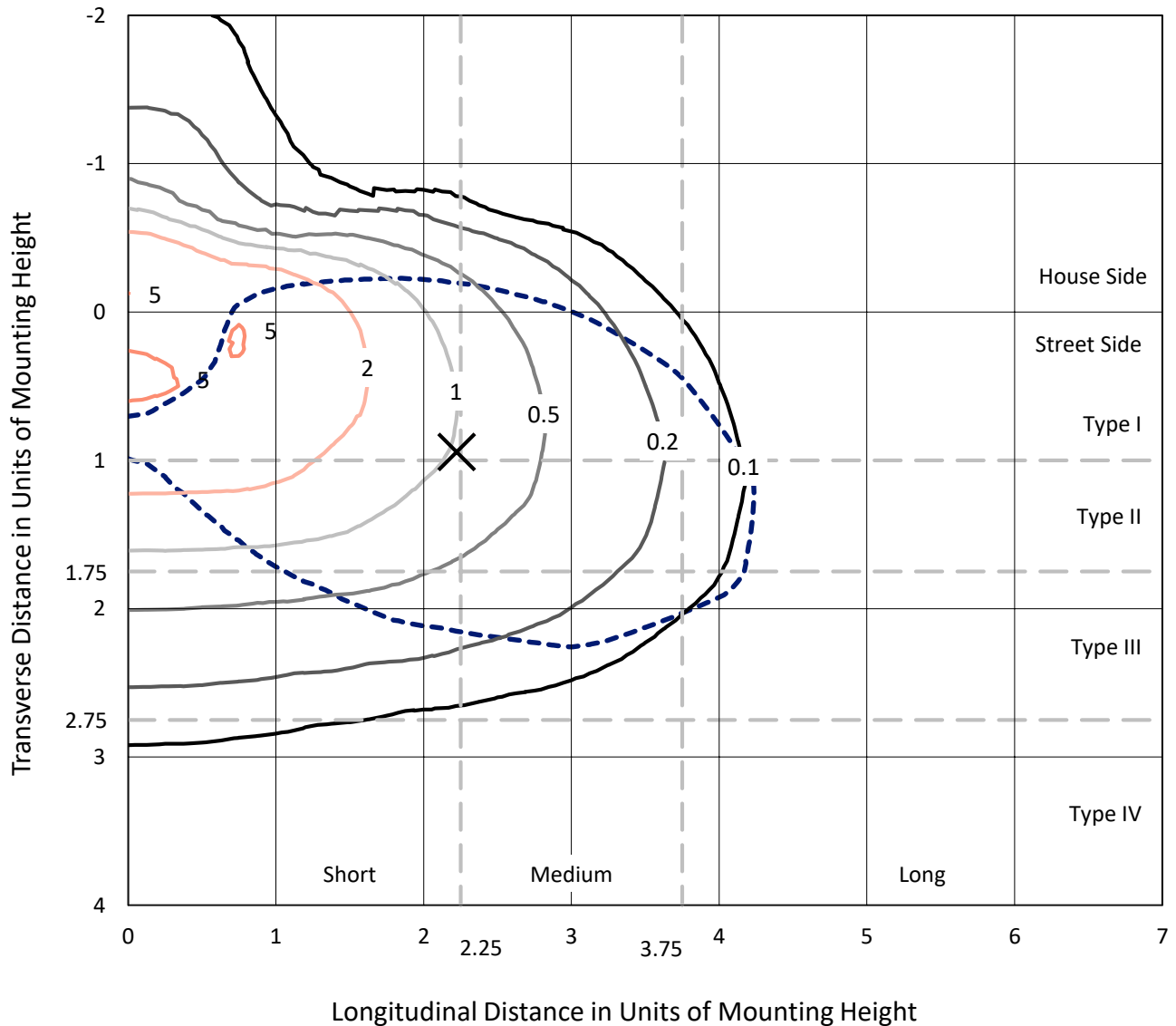
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

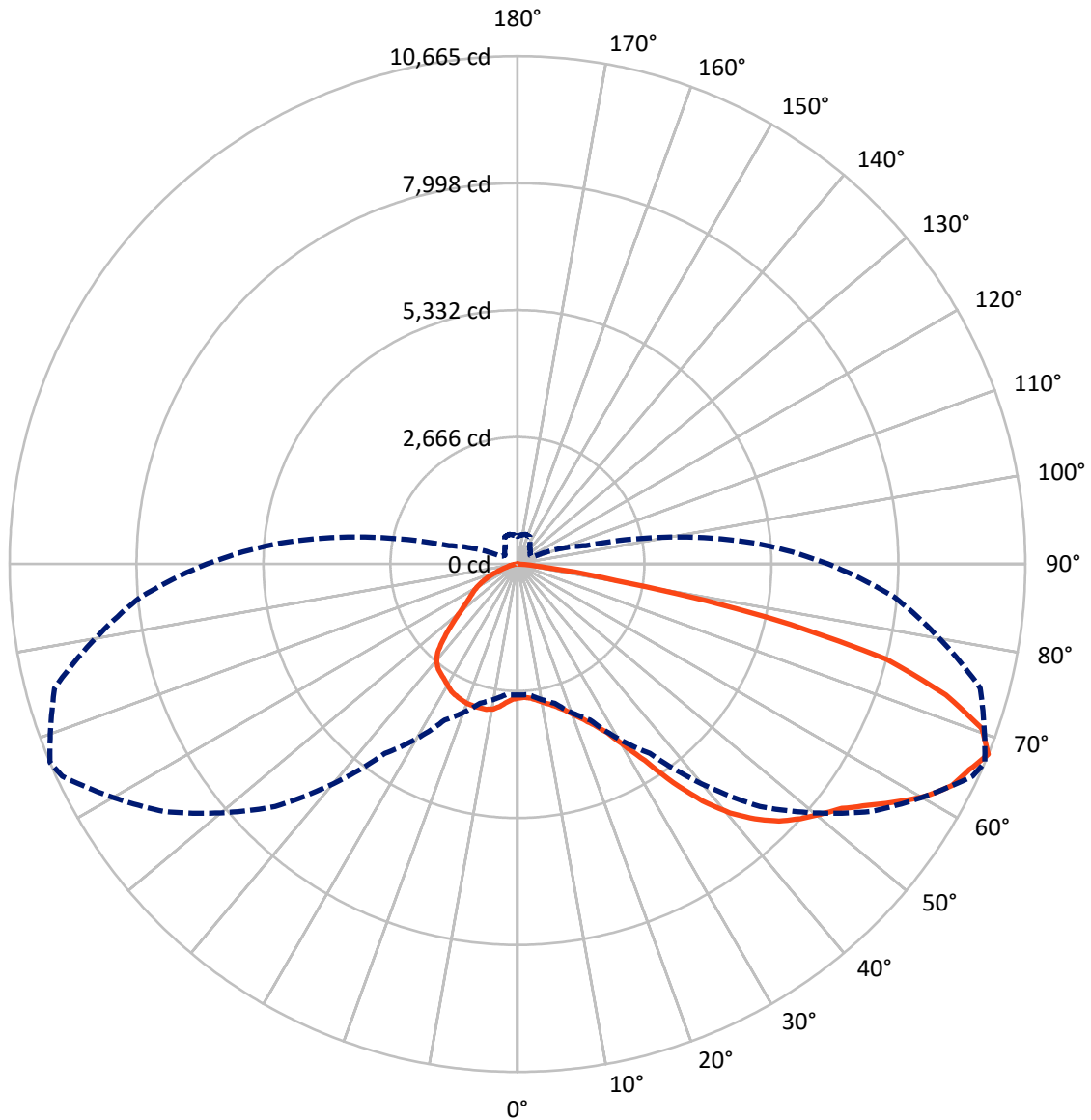
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4253.5	0.0	4253.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14348.5	0.0	14348.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	18602.0	0.0	18602.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.0	1.5
10°-20°	912.1	4.9
20°-30°	1576.0	8.5
30°-40°	2392.3	12.9
40°-50°	3250.7	17.5
50°-60°	3866.0	20.8
60°-70°	3977.6	21.4
70°-80°	2169.8	11.7
80°-90°	172.4	0.9
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°	18602.0	100.0
0°-180°	18602.0	100.0



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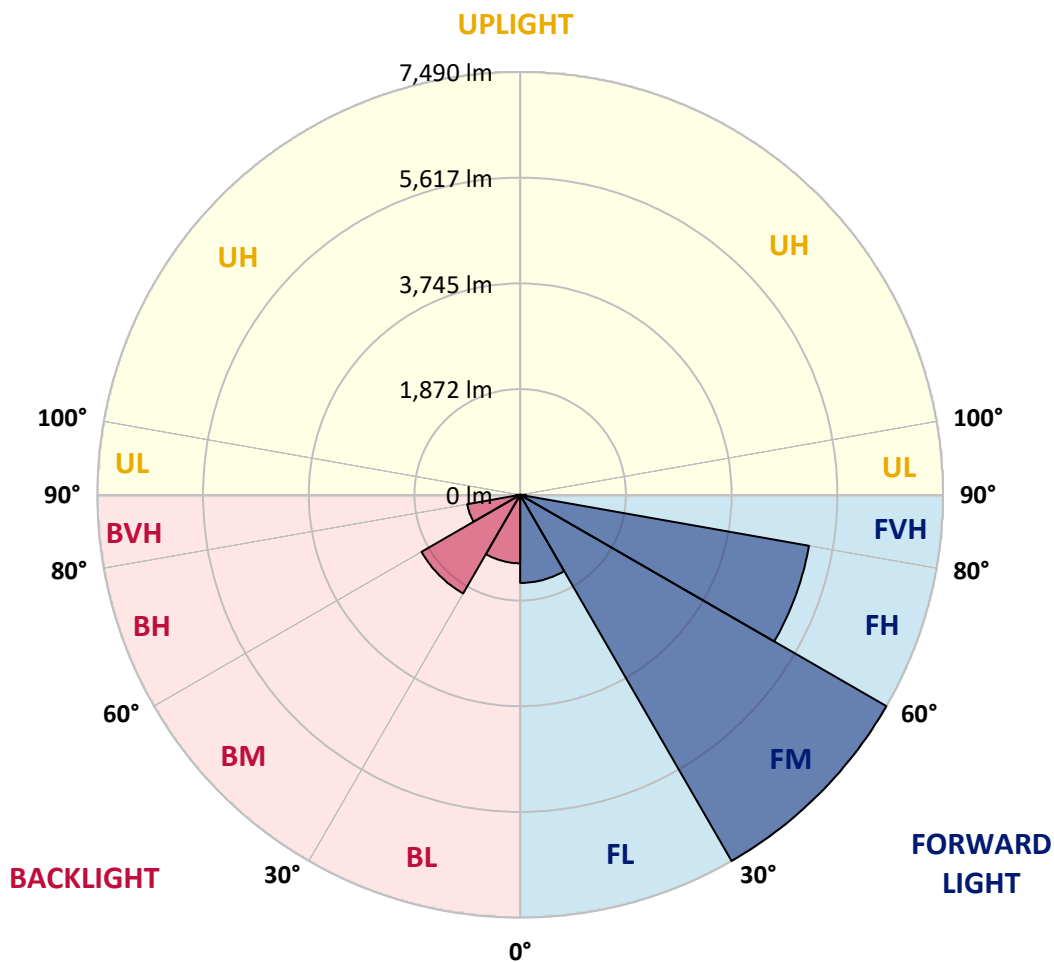
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.3	8.4			
FM (30°-60°)	7489.9	40.3			
FH (60°-80°)	5195.2	27.9			G3/7500
FVH (80°-90°)	103.2	0.6			G2/225
BL (0°-30°)	1212.9	6.5	B3/2500		
BM (30°-60°)	2019.1	10.9	B2/2500		
BH (60°-80°)	952.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	69.2	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2
2.5°	2830.3	2818.2	2802.1	2808.1	2796.0	2816.2	2808.1	2804.1	2804.1	2806.1	2816.2
5°	2894.8	2882.7	2870.6	2868.6	2844.4	2852.5	2840.4	2828.3	2828.3	2826.3	2830.3
7.5°	3007.6	2991.4	2977.3	2975.3	2945.1	2941.1	2904.8	2880.7	2880.7	2878.6	2884.7
10°	3156.6	3150.6	3122.4	3104.3	3068.0	3043.8	2999.5	2961.2	2953.2	2941.1	2957.2
12.5°	3299.7	3297.6	3271.5	3251.3	3201.0	3158.6	3086.1	3033.8	3023.7	3009.6	3021.7
15°	3478.9	3460.8	3432.6	3420.5	3348.0	3283.5	3201.0	3122.4	3112.3	3096.2	3106.3
17.5°	3676.4	3666.3	3622.0	3607.9	3517.2	3442.7	3339.9	3239.2	3223.1	3201.0	3198.9
20°	3914.1	3895.9	3861.7	3821.4	3732.8	3626.0	3507.1	3392.3	3378.2	3360.1	3321.8
22.5°	4169.9	4149.8	4115.5	4073.2	3960.4	3847.6	3698.5	3553.5	3545.4	3533.3	3462.8
25°	4413.6	4379.4	4383.4	4343.1	4242.4	4099.4	3924.1	3750.9	3746.9	3744.9	3632.0
27.5°	4673.5	4637.2	4625.2	4611.1	4516.4	4381.4	4184.0	4018.8	4004.7	4006.7	3835.5
30°	4917.3	4901.1	4891.1	4881.0	4834.7	4713.8	4524.4	4377.4	4421.7	4417.7	4182.0
32.5°	5106.6	5094.5	5136.8	5185.2	5173.1	5072.4	4941.4	4875.0	4919.3	5062.3	4856.8
35°	5273.8	5267.8	5348.3	5451.1	5523.6	5451.1	5437.0	5539.7	5642.5	5880.2	5761.3
37.5°	5455.1	5447.1	5515.5	5690.8	5817.7	5839.9	5946.6	6210.5	6309.2	6546.9	6297.1
40°	5453.1	5463.2	5628.4	5852.0	6083.6	6271.0	6490.5	6746.4	6873.3	6986.1	6599.3
42.5°	5364.5	5370.5	5578.0	6003.0	6339.5	6708.1	6903.5	7231.9	7318.5	7340.6	6955.9
45°	5273.8	5277.8	5503.5	5980.9	6553.0	7117.0	7334.6	7634.7	7701.2	7624.7	7197.6
47.5°	5142.9	5169.1	5412.8	5958.7	6736.3	7493.7	7669.0	7967.1	7993.3	7896.6	7399.1
50°	4987.8	5001.9	5281.9	5886.2	6857.2	7727.4	7934.9	8204.8	8255.2	8146.4	7648.8
52.5°	4798.4	4810.5	5114.7	5789.5	6923.6	7906.7	8138.4	8460.7	8529.2	8480.8	7868.4
55°	4580.8	4586.9	4897.1	5632.4	6905.5	7985.3	8315.6	8823.3	8938.1	8819.2	8051.7
57.5°	4308.9	4331.1	4683.6	5396.7	6768.5	8084.0	8635.9	9270.5	9417.5	9163.7	8188.7
60°	4028.9	4051.0	4371.3	5122.7	6538.9	8128.3	8966.3	9751.9	9880.8	9490.0	8273.3
62.5°	3714.6	3744.9	4010.8	4709.8	6127.9	8069.9	9210.0	10172.9	10245.5	9685.4	8251.2
65°	3257.4	3273.5	3563.6	4212.2	5592.1	7765.7	9200.0	10398.6	10422.7	9901.0	8154.5
67.5°	2749.7	2751.7	3025.7	3611.9	4854.8	7197.6	9059.0	10545.6	10664.5	10060.1	7943.0
70°	2091.0	2119.2	2332.7	2767.8	3968.5	6226.6	8593.6	10400.6	10344.2	9625.0	7336.6
72.5°	1492.7	1476.6	1585.4	1879.5	2777.9	4804.4	7409.1	9397.4	9409.5	8766.9	6383.8
75°	793.7	797.7	890.4	1138.2	1418.2	3126.4	5926.5	7938.9	8011.4	7517.9	4995.8
77.5°	177.3	201.4	306.2	435.1	616.4	1001.2	3215.1	5207.3	5344.3	4947.5	2737.6
80°	137.0	139.0	201.4	247.8	271.9	479.4	1021.3	1889.5	2097.0	1980.2	1029.4
82.5°	90.6	92.7	133.0	137.0	130.9	219.6	463.3	566.1	622.5	543.9	382.7
85°	48.3	50.4	60.4	66.5	52.4	64.5	60.4	48.3	50.4	44.3	44.3
87.5°	10.1	6.0	8.1	6.0	6.0	4.0	6.0	6.0	6.0	6.0	6.0
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°	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2
2.5°	2816.2	2820.2	2830.3	2846.4	2854.5	2872.6	2884.7	2914.9	2957.2	2943.1	2925.0
5°	2832.3	2844.4	2878.6	2920.9	2953.2	3001.5	3025.7	3084.1	3132.5	3128.4	3096.2
7.5°	2892.7	2918.9	2961.2	3023.7	3078.1	3126.4	3160.7	3223.1	3267.4	3249.3	3219.1
10°	2969.3	2995.5	3041.8	3098.2	3138.5	3190.9	3213.0	3263.4	3291.6	3269.4	3243.3
12.5°	3039.8	3053.9	3086.1	3128.4	3150.6	3184.8	3194.9	3231.2	3257.4	3247.3	3215.1
15°	3108.3	3106.3	3112.3	3124.4	3132.5	3140.5	3142.5	3168.7	3186.8	3166.7	3144.5
17.5°	3184.8	3164.7	3138.5	3118.4	3088.1	3074.0	3047.9	3059.9	3057.9	3041.8	3023.7
20°	3281.5	3245.3	3164.7	3102.2	3023.7	2961.2	2906.8	2896.8	2896.8	2852.5	2850.4
22.5°	3396.4	3335.9	3201.0	3064.0	2937.1	2838.4	2737.6	2679.2	2636.9	2604.7	2590.6
25°	3545.4	3434.6	3233.2	3011.6	2824.2	2645.0	2493.9	2413.3	2332.7	2280.3	2272.3
27.5°	3704.6	3583.7	3253.3	2965.3	2669.1	2423.4	2213.9	2048.7	1974.2	1939.9	1907.7
30°	3964.4	3750.9	3289.6	2866.6	2473.7	2151.4	1873.4	1680.0	1607.5	1583.4	1563.2
32.5°	4594.9	4184.0	3323.8	2765.8	2264.2	1851.3	1484.6	1321.5	1259.0	1283.2	1291.3
35°	5384.6	4828.6	3487.0	2649.0	2046.7	1510.8	1142.2	1033.4	1037.4	1073.7	1085.8
37.5°	5920.4	5396.7	3819.4	2501.9	1734.4	1120.0	884.3	850.1	880.3	912.5	918.6
40°	6234.7	5656.6	4053.1	2320.6	1365.8	838.0	664.8	640.6	705.1	777.6	821.9
42.5°	6569.1	5878.1	4173.9	2084.9	958.9	606.3	509.7	527.8	630.5	693.0	721.2
45°	6748.4	6051.4	4119.5	1748.5	652.7	471.4	457.3	507.6	610.4	666.8	674.8
47.5°	6941.8	6224.6	3988.6	1398.0	499.6	447.2	449.2	509.7	614.4	674.8	674.8
50°	7109.0	6367.7	3754.9	1095.9	475.4	431.1	451.2	519.7	620.4	672.8	670.8
52.5°	7302.4	6432.1	3422.5	886.4	451.2	417.0	453.2	527.8	610.4	640.6	636.6
55°	7362.8	6385.8	3263.4	741.3	433.1	408.9	461.3	539.9	606.3	612.4	602.3
57.5°	7362.8	6260.9	3082.1	632.5	417.0	408.9	465.3	537.9	628.5	666.8	662.8
60°	7330.6	6130.0	2804.1	566.1	394.8	404.9	467.4	568.1	747.4	789.7	787.6
62.5°	7227.8	5918.4	2461.6	499.6	372.7	406.9	461.3	610.4	854.1	836.0	791.7
65°	6984.1	5519.6	1996.3	439.1	348.5	406.9	453.2	670.8	759.4	725.2	709.1
67.5°	6524.8	5018.0	1484.6	376.7	320.3	380.7	441.2	628.5	644.6	606.3	582.2
70°	5918.4	4250.5	952.8	318.3	290.1	358.6	433.1	590.2	622.5	576.1	545.9
72.5°	4931.4	3376.2	552.0	259.9	245.8	330.4	417.0	572.1	612.4	549.9	507.6
75°	3478.9	2131.3	362.6	191.4	197.4	282.0	386.8	535.8	574.1	497.6	437.1
77.5°	1772.7	799.7	257.8	141.0	133.0	215.5	334.4	493.5	566.1	501.6	429.1
80°	626.5	402.9	169.2	92.7	86.6	133.0	255.8	419.0	531.8	489.5	475.4
82.5°	267.9	201.4	92.7	58.4	52.4	66.5	145.0	330.4	467.4	443.2	535.8
85°	38.3	34.2	26.2	22.2	22.2	30.2	46.3	163.2	316.3	360.6	437.1
87.5°	6.0	6.0	6.0	4.0	4.0	4.0	2.0	24.2	104.8	157.1	217.6
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)