

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: P509215

Luminaire Tested: **VERD-CA2-130-730-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509215
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-CA2-130-730-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1180mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17936 lumens
Efficiency: N/A
Efficacy: 136.1 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

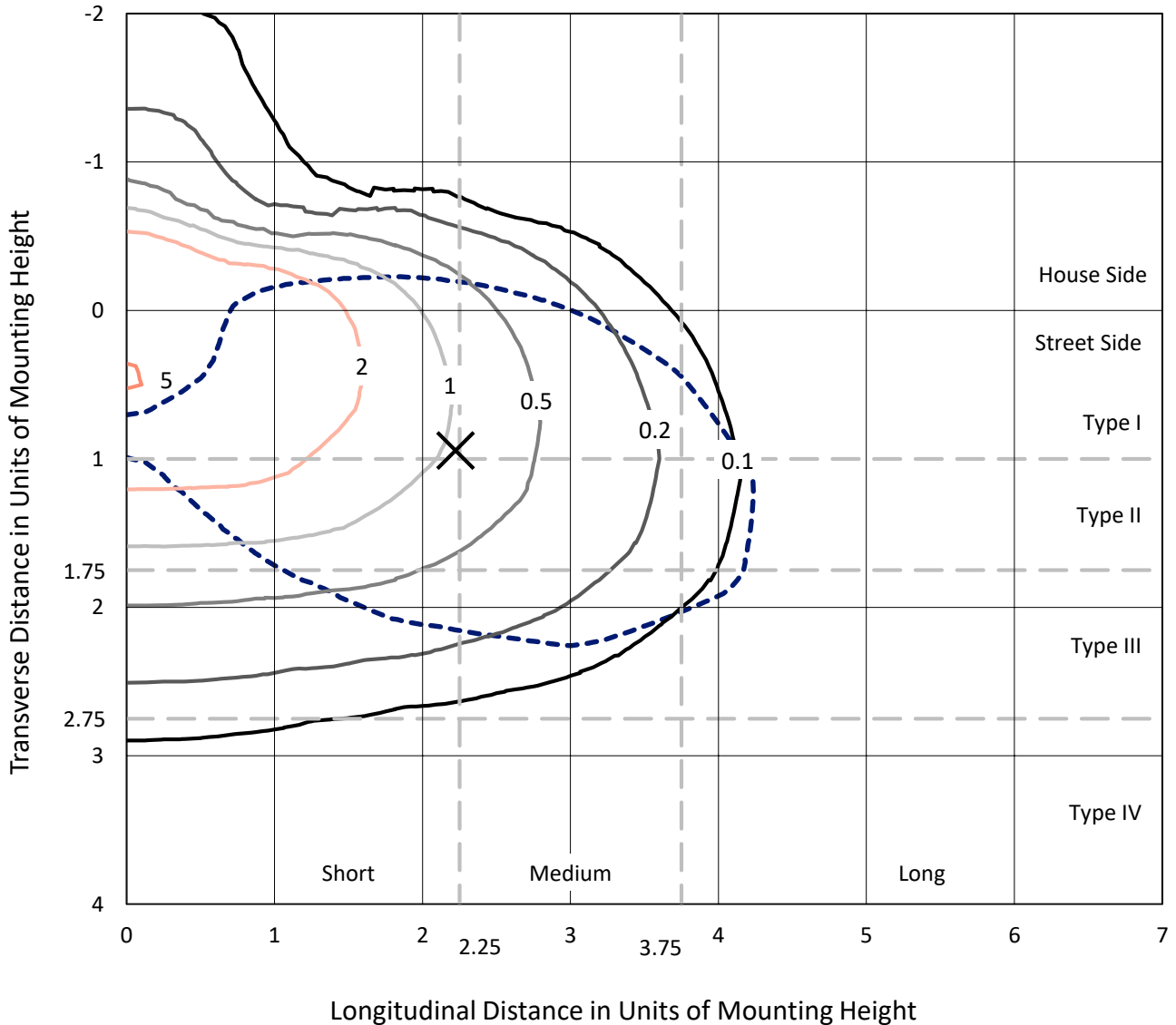
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

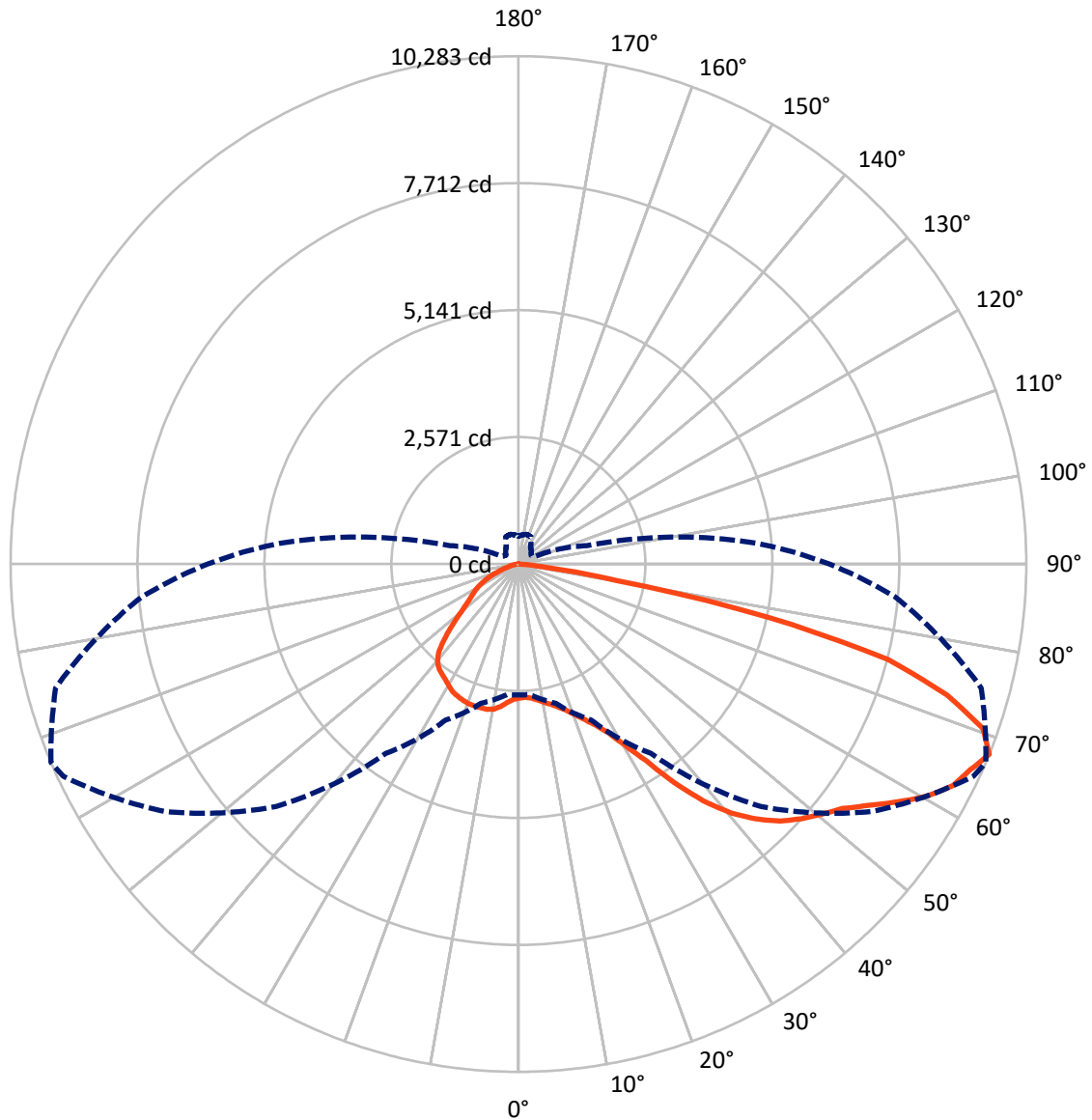
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4101.2	0.0	4101.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13834.8	0.0	13834.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	17936.0	0.0	17936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.5
10°-20°	879.5	4.9
20°-30°	1519.6	8.5
30°-40°	2306.6	12.9
40°-50°	3134.3	17.5
50°-60°	3727.6	20.8
60°-70°	3835.2	21.4
70°-80°	2092.1	11.7
80°-90°	166.2	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°	17936.0	100.0
0°-180°	17936.0	100.0

Coefficient of Utilization



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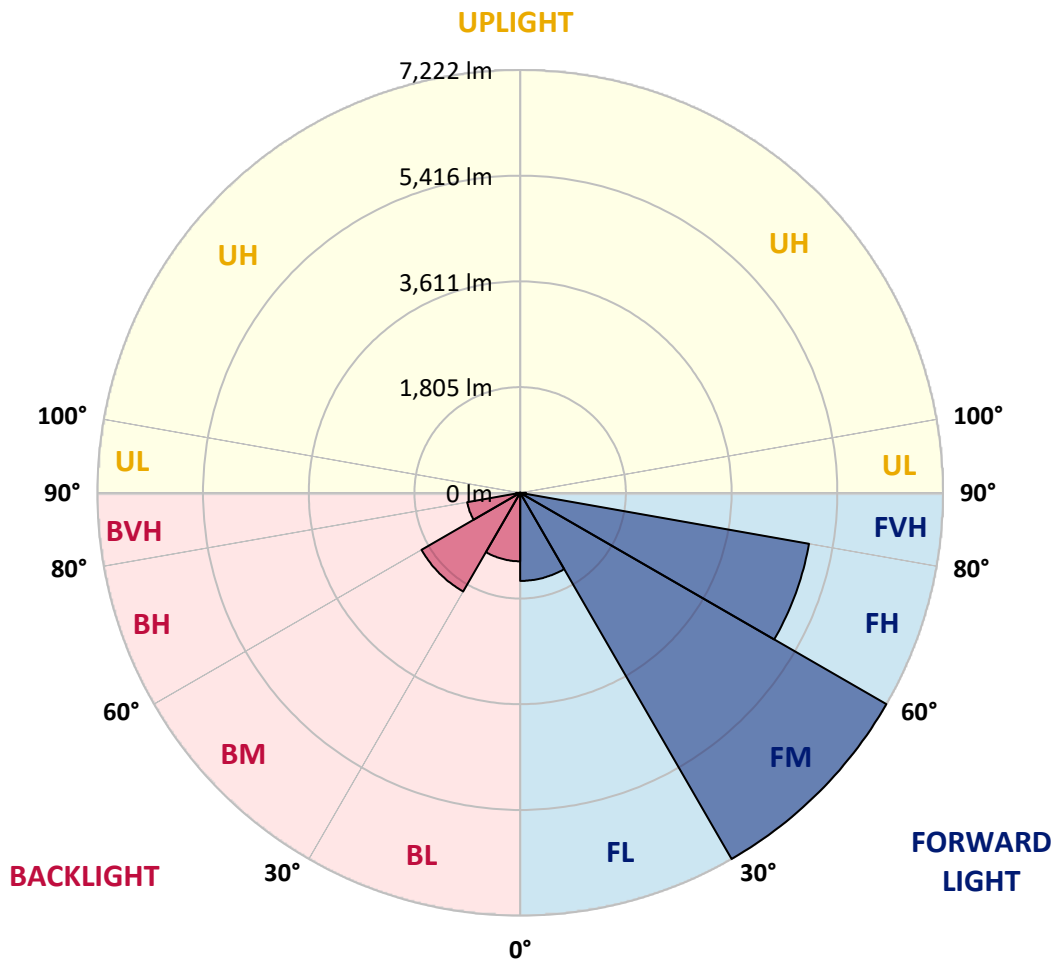
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.4	8.4			
FM (30°-60°)	7221.8	40.3			
FH (60°-80°)	5009.1	27.9			G3/7500
FVH (80°-90°)	99.5	0.6			G1/100
BL (0°-30°)	1169.5	6.5	B3/2500		
BM (30°-60°)	1946.8	10.9	B2/2500		
BH (60°-80°)	918.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	66.7	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°	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2729.0	2717.3	2701.8	2707.6	2695.9	2715.4	2707.6	2703.7	2703.7	2705.7	2715.4
5°	2791.1	2779.5	2767.8	2765.9	2742.6	2750.3	2738.7	2727.0	2727.0	2725.1	2729.0
7.5°	2899.9	2884.3	2870.8	2868.8	2839.7	2835.8	2800.8	2777.5	2777.5	2775.6	2781.4
10°	3043.6	3037.8	3010.6	2993.1	2958.2	2934.8	2892.1	2855.2	2847.4	2835.8	2851.3
12.5°	3181.5	3179.6	3154.3	3134.9	3086.3	3045.6	2975.6	2925.1	2915.4	2901.8	2913.5
15°	3354.4	3336.9	3309.7	3298.1	3228.1	3166.0	3086.3	3010.6	3000.9	2985.3	2995.1
17.5°	3544.7	3535.0	3492.3	3478.7	3391.3	3319.4	3220.4	3123.3	3107.7	3086.3	3084.4
20°	3773.9	3756.4	3723.4	3684.6	3599.1	3496.2	3381.6	3270.9	3257.3	3239.8	3202.9
22.5°	4020.6	4001.2	3968.2	3927.4	3818.6	3709.8	3566.1	3426.3	3418.5	3406.8	3338.8
25°	4255.6	4222.6	4226.5	4187.6	4090.5	3952.6	3783.6	3616.6	3612.7	3610.8	3502.0
27.5°	4506.2	4471.2	4459.6	4446.0	4354.7	4224.5	4034.2	3874.9	3861.3	3863.3	3698.2
30°	4741.2	4725.7	4716.0	4706.2	4661.6	4545.0	4362.5	4220.7	4263.4	4259.5	4032.3
32.5°	4923.8	4912.1	4952.9	4999.5	4987.9	4890.8	4764.5	4700.4	4743.1	4881.1	4682.9
35°	5085.0	5079.2	5156.9	5255.9	5325.8	5255.9	5242.3	5341.4	5440.4	5669.6	5555.0
37.5°	5259.8	5252.0	5318.1	5487.1	5609.4	5630.8	5733.7	5988.2	6083.3	6312.5	6071.7
40°	5257.9	5267.6	5426.8	5642.4	5865.8	6046.4	6258.2	6504.8	6627.2	6736.0	6363.0
42.5°	5172.4	5178.2	5378.3	5788.1	6112.5	6467.9	6656.3	6972.9	7056.5	7077.8	6706.8
45°	5085.0	5088.9	5306.4	5766.8	6318.4	6862.2	7072.0	7361.4	7425.5	7351.7	6939.9
47.5°	4958.7	4984.0	5219.0	5745.4	6495.1	7225.4	7394.4	7681.9	7707.1	7613.9	7134.1
50°	4809.2	4822.8	5092.8	5675.5	6611.7	7450.7	7650.8	7911.1	7959.6	7854.7	7375.0
52.5°	4626.6	4638.3	4931.6	5582.2	6675.8	7623.6	7847.0	8157.7	8223.8	8177.2	7586.7
55°	4416.8	4422.7	4721.8	5430.7	6658.3	7699.4	8017.9	8507.4	8618.1	8503.5	7763.5
57.5°	4154.6	4176.0	4515.9	5203.5	6526.2	7794.5	8326.7	8938.6	9080.4	8835.6	7895.5
60°	3884.6	3906.0	4214.8	4939.3	6304.8	7837.3	8645.3	9402.8	9527.1	9150.3	7977.1
62.5°	3581.6	3610.8	3867.2	4541.1	5908.5	7780.9	8880.3	9808.7	9878.6	9338.7	7955.7
65°	3140.7	3156.3	3436.0	4061.4	5391.9	7487.6	8870.6	10026.3	10049.6	9546.5	7862.5
67.5°	2651.3	2653.2	2917.4	3482.6	4681.0	6939.9	8734.6	10168.1	10282.6	9700.0	7658.6
70°	2016.1	2043.3	2249.2	2668.7	3826.4	6003.7	8285.9	10028.2	9973.8	9280.4	7073.9
72.5°	1439.3	1423.7	1528.6	1812.2	2678.5	4632.4	7143.9	9060.9	9072.6	8453.0	6155.2
75°	765.3	769.2	858.5	1097.4	1367.4	3014.5	5714.3	7654.7	7724.6	7248.7	4817.0
77.5°	170.9	194.2	295.2	419.5	594.4	965.3	3099.9	5020.9	5153.0	4770.3	2639.6
80°	132.1	134.0	194.2	238.9	262.2	462.3	984.8	1821.9	2022.0	1909.3	992.5
82.5°	87.4	89.3	128.2	132.1	126.3	211.7	446.7	545.8	600.2	524.4	369.0
85°	46.6	48.6	58.3	64.1	50.5	62.2	58.3	46.6	48.6	42.7	42.7
87.5°	9.7	5.8	7.8	5.8	5.8	3.9	5.8	5.8	5.8	5.8	5.8
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°	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2715.4	2719.2	2729.0	2744.5	2752.3	2769.7	2781.4	2810.5	2851.3	2837.7	2820.3
5°	2730.9	2742.6	2775.6	2816.4	2847.4	2894.1	2917.4	2973.7	3020.3	3016.4	2985.3
7.5°	2789.2	2814.4	2855.2	2915.4	2967.9	3014.5	3047.5	3107.7	3150.4	3133.0	3103.8
10°	2863.0	2888.2	2932.9	2987.3	3026.1	3076.6	3098.0	3146.6	3173.8	3152.4	3127.1
12.5°	2931.0	2944.6	2975.6	3016.4	3037.8	3070.8	3080.5	3115.5	3140.7	3131.0	3099.9
15°	2997.0	2995.1	3000.9	3012.5	3020.3	3028.1	3030.0	3055.3	3072.8	3053.3	3032.0
17.5°	3070.8	3051.4	3026.1	3006.7	2977.6	2964.0	2938.7	2950.4	2948.4	2932.9	2915.4
20°	3164.0	3129.1	3051.4	2991.2	2915.4	2855.2	2802.8	2793.1	2793.1	2750.3	2748.4
22.5°	3274.8	3216.5	3086.3	2954.3	2831.9	2736.7	2639.6	2583.3	2542.5	2511.4	2497.8
25°	3418.5	3311.7	3117.4	2903.8	2723.1	2550.3	2404.6	2326.9	2249.2	2198.7	2190.9
27.5°	3571.9	3455.4	3136.8	2859.1	2573.6	2336.6	2134.6	1975.3	1903.5	1870.5	1839.4
30°	3822.5	3616.6	3171.8	2763.9	2385.2	2074.4	1806.4	1619.9	1550.0	1526.7	1507.2
32.5°	4430.4	4034.2	3204.8	2666.8	2183.2	1785.0	1431.5	1274.2	1214.0	1237.3	1245.0
35°	5191.8	4655.7	3362.2	2554.2	1973.4	1456.7	1101.3	996.4	1000.3	1035.3	1046.9
37.5°	5708.5	5203.5	3682.6	2412.4	1672.3	1079.9	852.7	819.7	848.8	879.9	885.7
40°	6011.5	5454.0	3907.9	2237.6	1316.9	808.0	641.0	617.7	679.8	749.7	792.5
42.5°	6333.9	5667.7	4024.5	2010.3	924.5	584.6	491.4	508.9	607.9	668.2	695.4
45°	6506.8	5834.7	3972.0	1685.9	629.3	454.5	440.9	489.5	588.5	642.9	650.7
47.5°	6693.2	6001.8	3845.8	1348.0	481.7	431.2	433.1	491.4	592.4	650.7	650.7
50°	6854.5	6139.7	3620.5	1056.6	458.4	415.7	435.1	501.1	598.2	648.7	646.8
52.5°	7040.9	6201.8	3300.0	854.6	435.1	402.1	437.0	508.9	588.5	617.7	613.8
55°	7099.2	6157.2	3146.6	714.8	417.6	394.3	444.8	520.5	584.6	590.5	580.8
57.5°	7099.2	6036.7	2971.8	609.9	402.1	394.3	448.7	518.6	606.0	642.9	639.0
60°	7068.1	5910.5	2703.7	545.8	380.7	390.4	450.6	547.7	720.6	761.4	759.4
62.5°	6969.0	5706.5	2373.5	481.7	359.3	392.3	444.8	588.5	823.5	806.1	763.3
65°	6734.0	5322.0	1924.8	423.4	336.0	392.3	437.0	646.8	732.3	699.2	683.7
67.5°	6291.2	4838.3	1431.5	363.2	308.8	367.1	425.4	606.0	621.5	584.6	561.3
70°	5706.5	4098.3	918.7	306.9	279.7	345.7	417.6	569.1	600.2	555.5	526.4
72.5°	4754.8	3255.3	532.2	250.6	237.0	318.5	402.1	551.6	590.5	530.3	489.5
75°	3354.4	2055.0	349.6	184.5	190.3	271.9	372.9	516.7	553.6	479.8	421.5
77.5°	1709.2	771.1	248.6	136.0	128.2	207.8	322.4	475.9	545.8	483.6	413.7
80°	604.1	388.5	163.2	89.3	83.5	128.2	246.7	404.0	512.8	472.0	458.4
82.5°	258.3	194.2	89.3	56.3	50.5	64.1	139.8	318.5	450.6	427.3	516.7
85°	36.9	33.0	25.3	21.4	21.4	29.1	44.7	157.3	304.9	347.7	421.5
87.5°	5.8	5.8	5.8	3.9	3.9	3.9	1.9	23.3	101.0	151.5	209.8
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)