

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: P509223

Luminaire Tested: **VERD-CA2-130-740-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509223  
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-CA2-130-740-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1180mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18267 lumens  
Efficiency: N/A  
Efficacy: 138.6 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

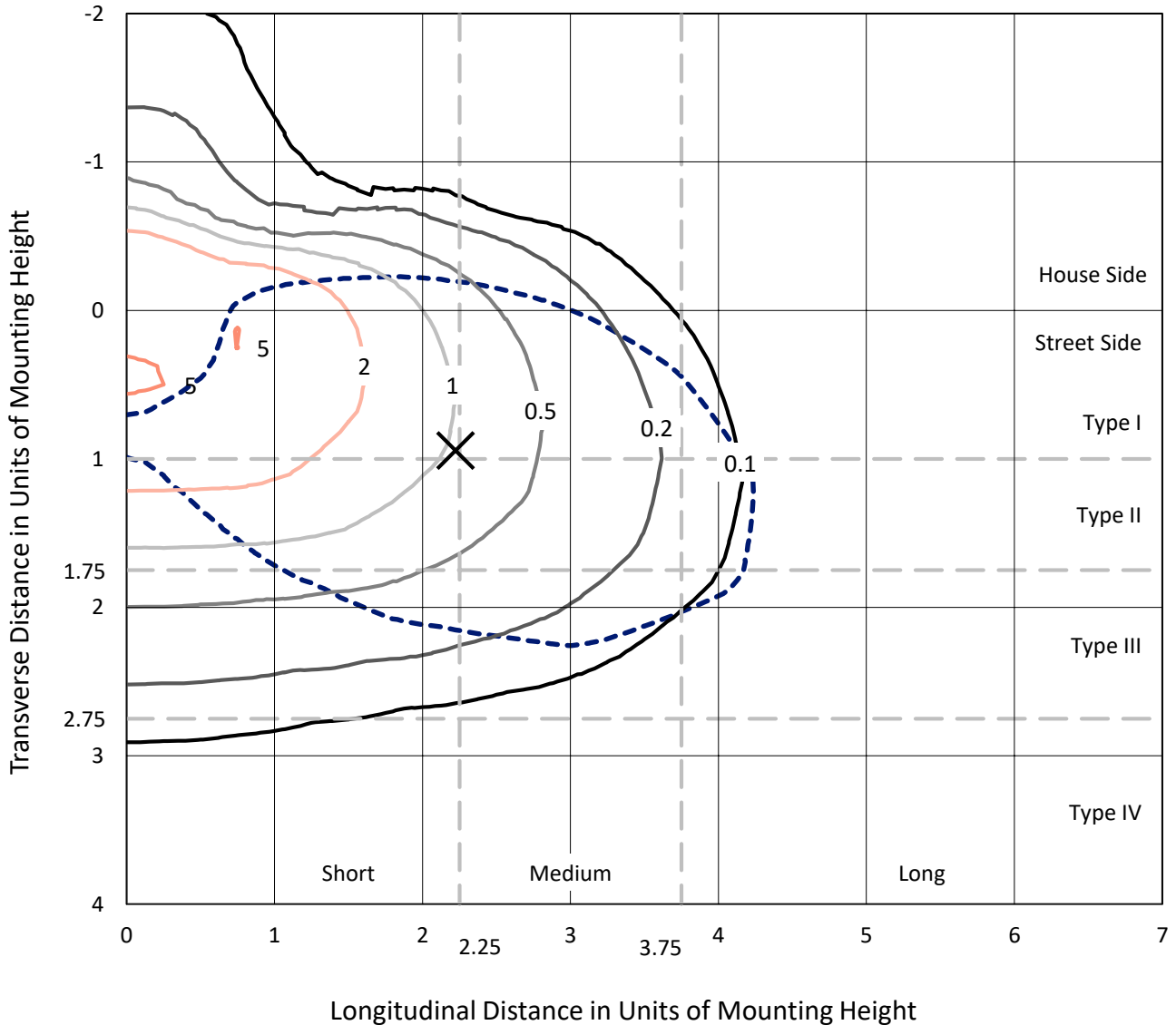
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

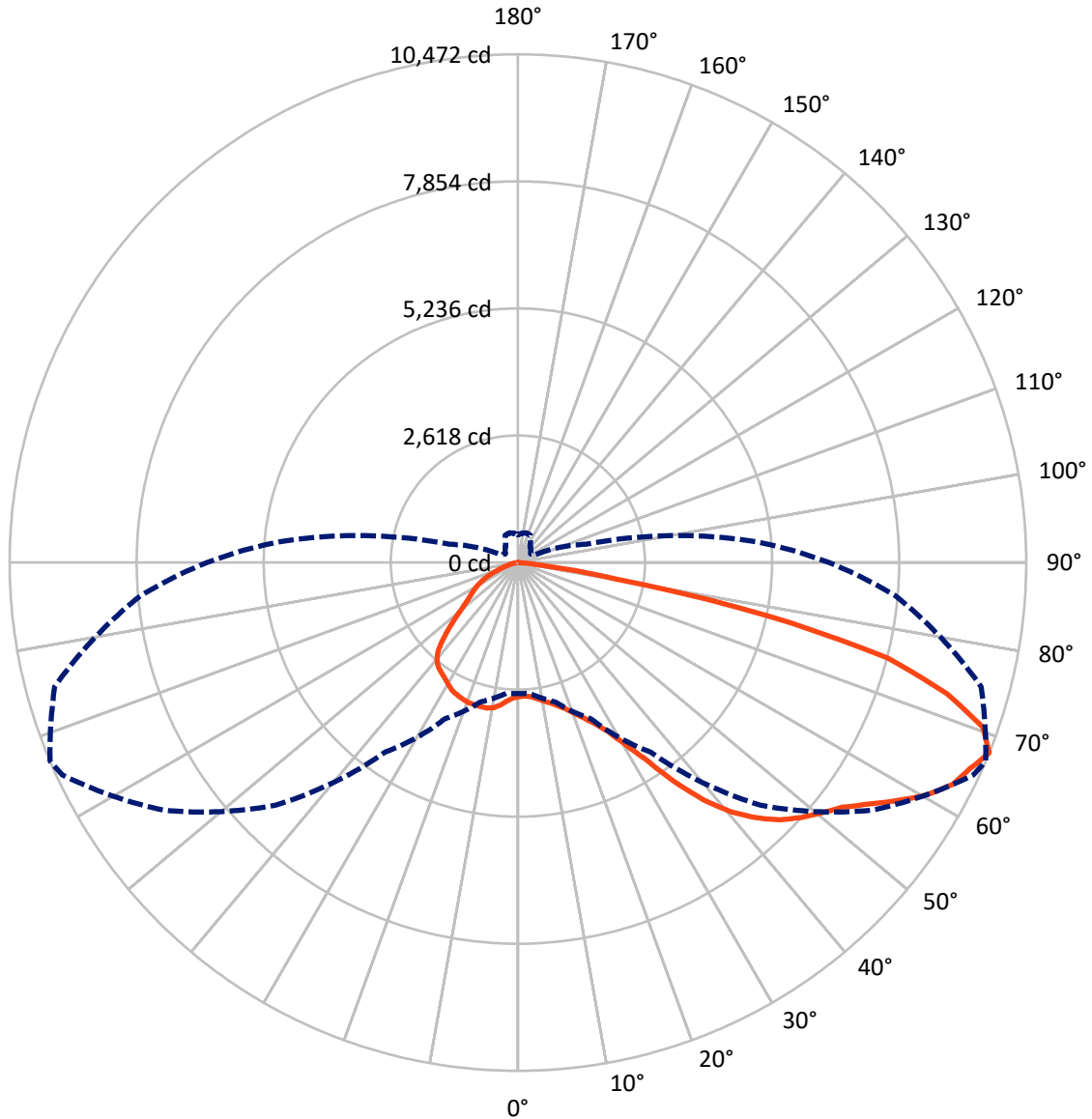
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	4176.9	0.0	4176.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	14090.1	0.0	14090.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	18267.0	0.0	18267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.9	1.5
10°-20°	895.7	4.9
20°-30°	1547.7	8.5
30°-40°	2349.2	12.9
40°-50°	3192.2	17.5
50°-60°	3796.4	20.8
60°-70°	3906.0	21.4
70°-80°	2130.7	11.7
80°-90°	169.3	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°	18267.0	100.0
0°-180°	18267.0	100.0

**Coefficient of Utilization**



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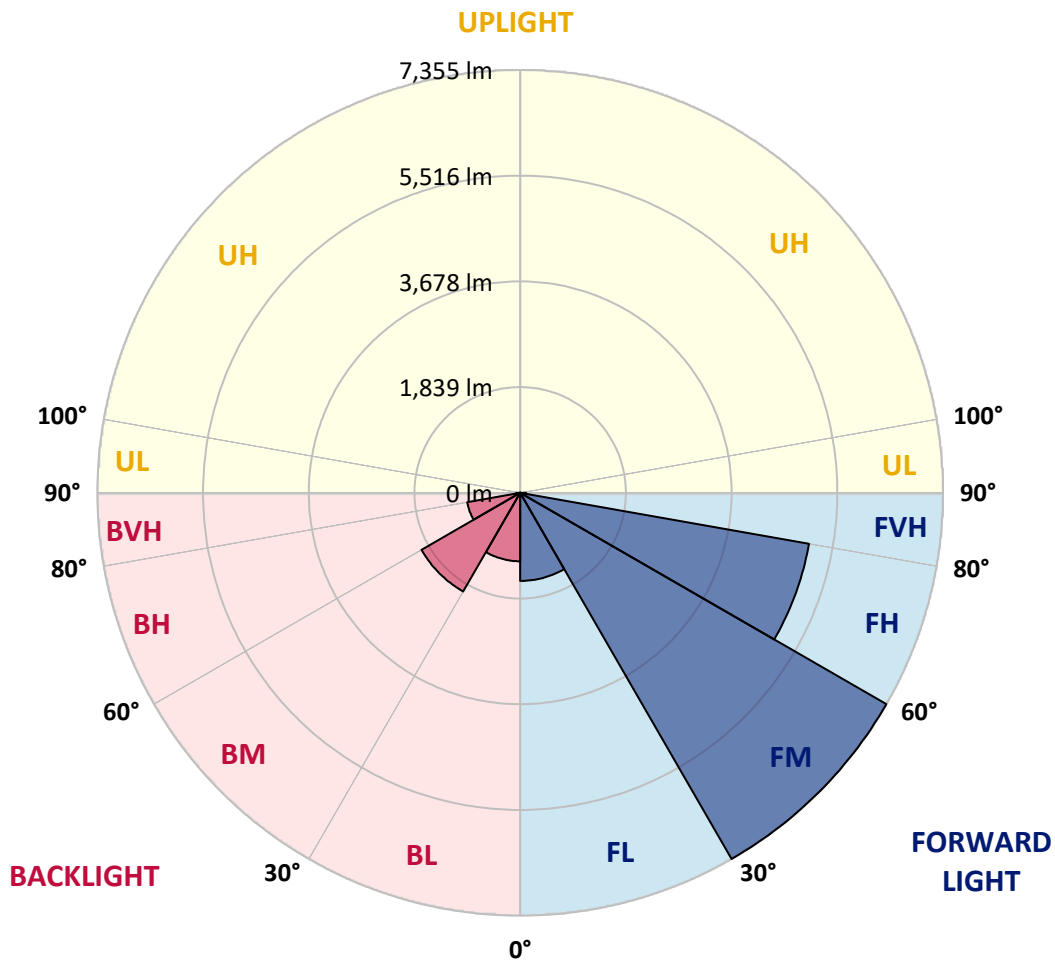
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.2	8.4			
FM (30°-60°)	7355.0	40.3			
FH (60°-80°)	5101.6	27.9			G3/7500
FVH (80°-90°)	101.3	0.6			G2/225
BL (0°-30°)	1191.0	6.5	B3/2500		
BM (30°-60°)	1982.7	10.9	B2/2500		
BH (60°-80°)	935.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	68.0	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°	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5
2.5°	2779.3	2767.5	2751.6	2757.6	2745.7	2765.5	2757.6	2753.6	2753.6	2755.6	2765.5
5°	2842.6	2830.8	2818.9	2816.9	2793.2	2801.1	2789.2	2777.3	2777.3	2775.4	2779.3
7.5°	2953.4	2937.6	2923.7	2921.8	2892.1	2888.1	2852.5	2828.8	2828.8	2826.8	2832.7
10°	3099.8	3093.9	3066.2	3048.4	3012.7	2989.0	2945.5	2907.9	2900.0	2888.1	2903.9
12.5°	3240.2	3238.3	3212.5	3192.8	3143.3	3101.8	3030.5	2979.1	2969.2	2955.4	2967.2
15°	3416.3	3398.5	3370.8	3358.9	3287.7	3224.4	3143.3	3066.2	3056.3	3040.4	3050.3
17.5°	3610.2	3600.3	3556.7	3542.9	3453.9	3380.7	3279.8	3180.9	3165.1	3143.3	3141.3
20°	3843.6	3825.8	3792.1	3752.6	3665.5	3560.7	3444.0	3331.2	3317.4	3299.6	3262.0
22.5°	4094.8	4075.0	4041.4	3999.9	3889.1	3778.3	3631.9	3489.5	3481.6	3469.7	3400.5
25°	4334.2	4300.5	4304.5	4264.9	4166.0	4025.6	3853.5	3683.3	3679.4	3677.4	3566.6
27.5°	4589.3	4553.7	4541.9	4528.0	4435.0	4302.5	4108.6	3946.4	3932.6	3934.6	3766.4
30°	4828.7	4812.9	4803.0	4793.1	4747.6	4628.9	4443.0	4298.6	4342.1	4338.1	4106.7
32.5°	5014.6	5002.8	5044.3	5091.8	5079.9	4981.0	4852.4	4787.2	4830.7	4971.1	4769.4
35°	5178.8	5172.9	5252.0	5352.9	5424.1	5352.9	5339.1	5440.0	5540.8	5774.3	5657.6
37.5°	5356.9	5349.0	5416.2	5588.3	5712.9	5734.7	5839.5	6098.7	6195.6	6429.0	6183.7
40°	5354.9	5364.8	5527.0	5746.6	5974.1	6158.0	6373.6	6624.9	6749.5	6860.3	6480.5
42.5°	5267.9	5273.8	5477.5	5894.9	6225.3	6587.3	6779.2	7101.6	7186.7	7208.4	6830.6
45°	5178.8	5182.8	5404.3	5873.2	6435.0	6988.9	7202.5	7497.2	7562.5	7487.4	7068.0
47.5°	5050.3	5076.0	5315.3	5851.4	6615.0	7358.8	7530.9	7823.6	7849.4	7754.4	7265.8
50°	4897.9	4911.8	5186.8	5780.2	6733.7	7588.2	7792.0	8057.1	8106.5	7999.7	7511.1
52.5°	4712.0	4723.9	5022.6	5685.2	6799.0	7764.3	7991.8	8308.3	8375.6	8328.1	7726.7
55°	4498.3	4504.3	4808.9	5531.0	6781.2	7841.4	8165.9	8664.4	8777.1	8660.4	7906.7
57.5°	4231.3	4253.1	4599.2	5299.5	6646.6	7938.4	8480.4	9103.5	9247.9	8998.7	8041.2
60°	3956.3	3978.1	4292.6	5030.5	6421.1	7981.9	8804.8	9576.3	9702.9	9319.1	8124.3
62.5°	3647.7	3677.4	3938.5	4625.0	6017.6	7924.5	9044.2	9989.7	10061.0	9511.0	8102.6
65°	3198.7	3214.5	3499.4	4136.3	5491.4	7625.8	9034.3	10211.3	10235.0	9722.7	8007.6
67.5°	2700.2	2702.2	2971.2	3546.9	4767.4	7068.0	8895.8	10355.7	10472.4	9879.0	7799.9
70°	2053.3	2081.0	2290.7	2718.0	3897.0	6114.5	8438.9	10213.3	10157.9	9451.7	7204.5
72.5°	1465.8	1450.0	1556.8	1845.6	2727.9	4717.9	7275.7	9228.1	9240.0	8609.0	6268.8
75°	779.4	783.4	874.3	1117.7	1392.6	3070.1	5819.8	7796.0	7867.2	7382.5	4905.9
77.5°	174.1	197.8	300.7	427.3	605.3	983.1	3157.2	5113.6	5248.1	4858.4	2688.3
80°	134.5	136.5	197.8	243.3	267.1	470.8	1002.9	1855.5	2059.3	1944.5	1010.8
82.5°	89.0	91.0	130.6	134.5	128.6	215.6	455.0	555.9	611.3	534.1	375.9
85°	47.5	49.5	59.3	65.3	51.4	63.3	59.3	47.5	49.5	43.5	43.5
87.5°	9.9	5.9	7.9	5.9	5.9	4.0	5.9	5.9	5.9	5.9	5.9
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°	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5
2.5°	2765.5	2769.4	2779.3	2795.1	2803.1	2820.9	2832.7	2862.4	2903.9	2890.1	2872.3
5°	2781.3	2793.2	2826.8	2868.3	2900.0	2947.5	2971.2	3028.6	3076.0	3072.1	3040.4
7.5°	2840.6	2866.4	2907.9	2969.2	3022.6	3070.1	3103.7	3165.1	3208.6	3190.8	3161.1
10°	2915.8	2941.5	2987.0	3042.4	3082.0	3133.4	3155.2	3204.6	3232.3	3210.6	3184.8
12.5°	2985.1	2998.9	3030.5	3072.1	3093.9	3127.5	3137.4	3173.0	3198.7	3188.8	3157.2
15°	3052.3	3050.3	3056.3	3068.1	3076.0	3084.0	3085.9	3111.7	3129.5	3109.7	3087.9
17.5°	3127.5	3107.7	3082.0	3062.2	3032.5	3018.7	2993.0	3004.8	3002.9	2987.0	2969.2
20°	3222.4	3186.8	3107.7	3046.4	2969.2	2907.9	2854.5	2844.6	2844.6	2801.1	2799.1
22.5°	3335.2	3275.8	3143.3	3008.8	2884.2	2787.2	2688.3	2631.0	2589.4	2557.8	2543.9
25°	3481.6	3372.8	3175.0	2957.4	2773.4	2597.3	2449.0	2369.8	2290.7	2239.3	2231.4
27.5°	3637.8	3519.2	3194.7	2911.9	2621.1	2379.7	2174.0	2011.8	1938.6	1905.0	1873.3
30°	3893.0	3683.3	3230.3	2814.9	2429.2	2112.7	1839.7	1649.8	1578.6	1554.8	1535.1
32.5°	4512.2	4108.6	3264.0	2716.0	2223.5	1817.9	1457.9	1297.7	1236.4	1260.1	1268.0
35°	5287.6	4741.7	3424.2	2601.3	2009.8	1483.6	1121.6	1014.8	1018.8	1054.4	1066.2
37.5°	5813.8	5299.5	3750.6	2456.9	1703.2	1099.9	868.4	834.8	864.5	896.1	902.0
40°	6122.4	5554.7	3980.1	2278.8	1341.2	822.9	652.8	629.1	692.4	763.6	807.1
42.5°	6450.8	5772.3	4098.8	2047.4	941.6	595.4	500.5	518.3	619.2	680.5	708.2
45°	6626.9	5942.4	4045.3	1717.0	640.9	462.9	449.0	498.5	599.4	654.8	662.7
47.5°	6816.8	6112.5	3916.8	1372.8	490.6	439.2	441.1	500.5	603.3	662.7	662.7
50°	6980.9	6253.0	3687.3	1076.1	466.8	423.3	443.1	510.4	609.3	660.7	658.7
52.5°	7170.9	6316.3	3360.9	870.4	443.1	409.5	445.1	518.3	599.4	629.1	625.1
55°	7230.2	6270.8	3204.6	728.0	425.3	401.6	453.0	530.1	595.4	601.4	591.5
57.5°	7230.2	6148.1	3026.6	621.1	409.5	401.6	457.0	528.2	617.2	654.8	650.8
60°	7198.5	6019.6	2753.6	555.9	387.7	397.6	458.9	557.8	733.9	775.4	773.5
62.5°	7097.7	5811.9	2417.3	490.6	366.0	399.6	453.0	599.4	838.7	820.9	777.4
65°	6858.3	5420.2	1960.4	431.2	342.2	399.6	445.1	658.7	745.8	712.1	696.3
67.5°	6407.3	4927.6	1457.9	369.9	314.5	373.9	433.2	617.2	633.0	595.4	571.7
70°	5811.9	4173.9	935.7	312.6	284.9	352.1	425.3	579.6	611.3	565.8	536.1
72.5°	4842.5	3315.4	542.0	255.2	241.3	324.4	409.5	561.8	601.4	540.0	498.5
75°	3416.3	2092.9	356.1	187.9	193.9	276.9	379.8	526.2	563.8	488.6	429.3
77.5°	1740.8	785.3	253.2	138.5	130.6	211.7	328.4	484.7	555.9	492.6	421.3
80°	615.2	395.6	166.2	91.0	85.1	130.6	251.2	411.5	522.2	480.7	466.8
82.5°	263.1	197.8	91.0	57.4	51.4	65.3	142.4	324.4	458.9	435.2	526.2
85°	37.6	33.6	25.7	21.8	21.8	29.7	45.5	160.2	310.6	354.1	429.3
87.5°	5.9	5.9	5.9	4.0	4.0	4.0	2.0	23.7	102.9	154.3	213.6
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)