

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: P509469

Luminaire Tested: **VERD-G-CA2-100-750-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-100-750-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 930mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15530 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

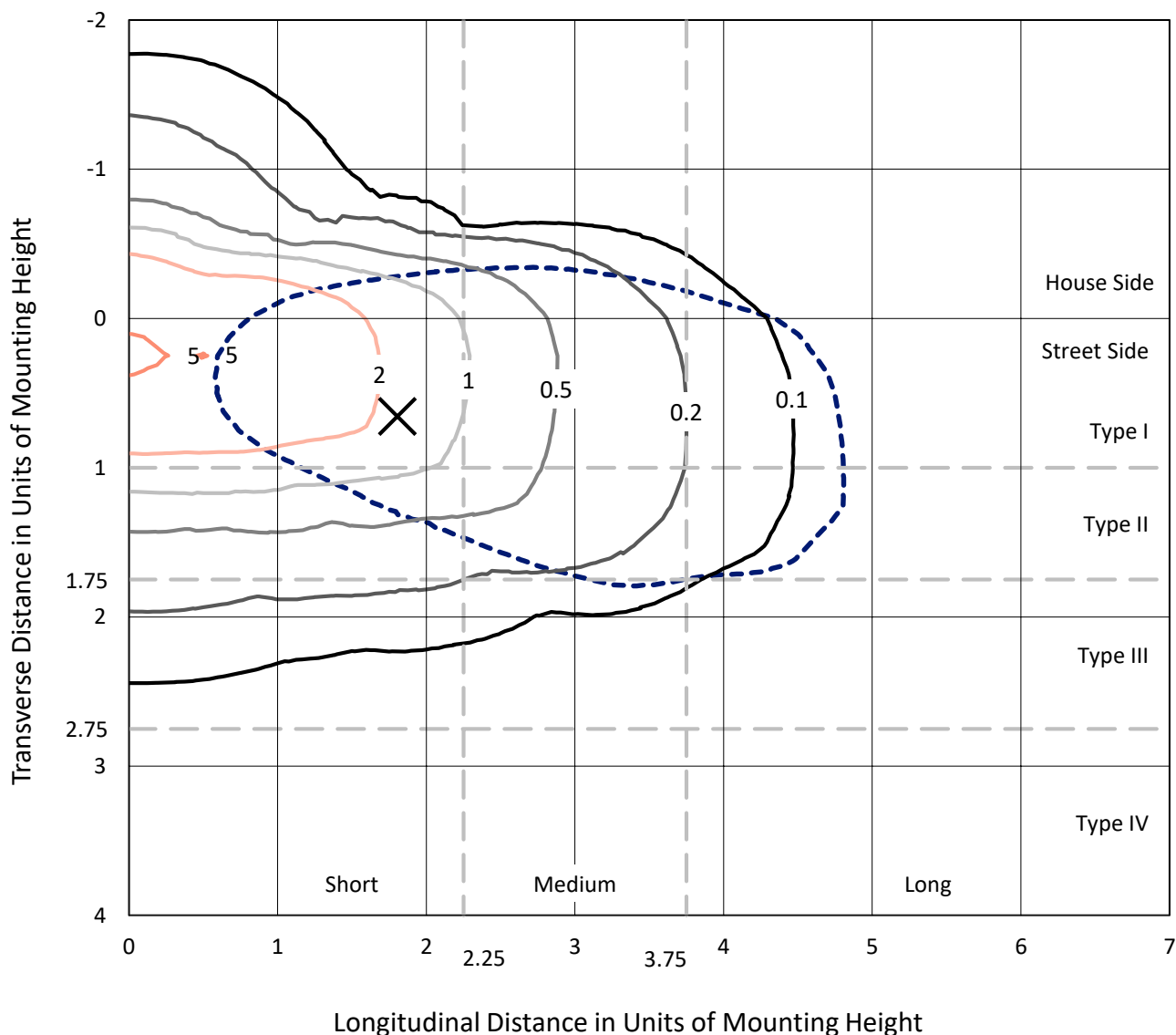
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

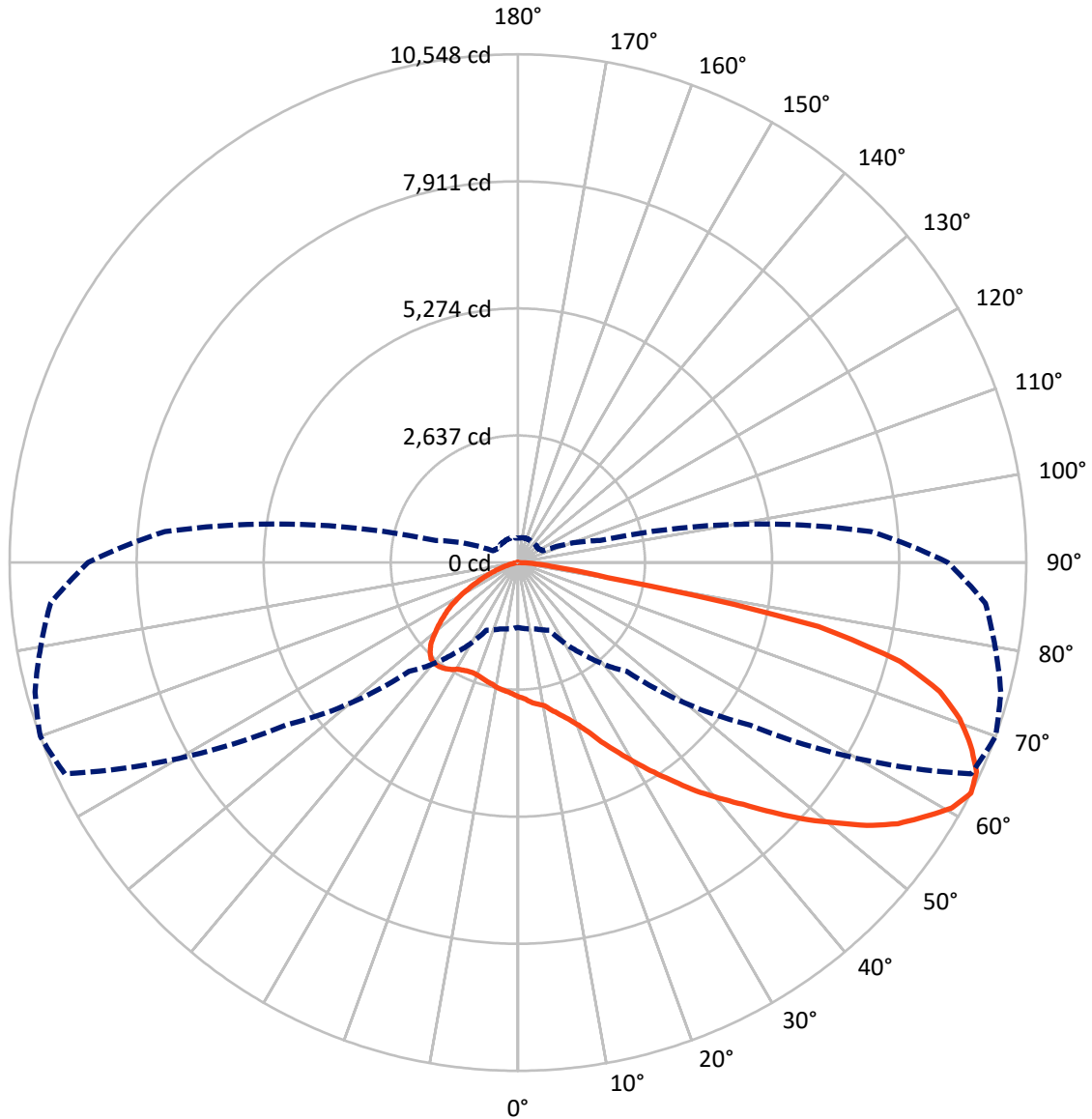
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3968.5	0.0	3968.5
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	11561.5	0.0	11561.5
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	15530.0	0.0	15530.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.1	1.7
10°-20°	818.7	5.3
20°-30°	1391.7	9.0
30°-40°	2002.6	12.9
40°-50°	2598.8	16.7
50°-60°	3046.5	19.6
60°-70°	3124.1	20.1
70°-80°	2050.0	13.2
80°-90°	228.4	1.5
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°	15530.0	100.0
0°-180°	15530.0	100.0

**Coefficient of Utilization**



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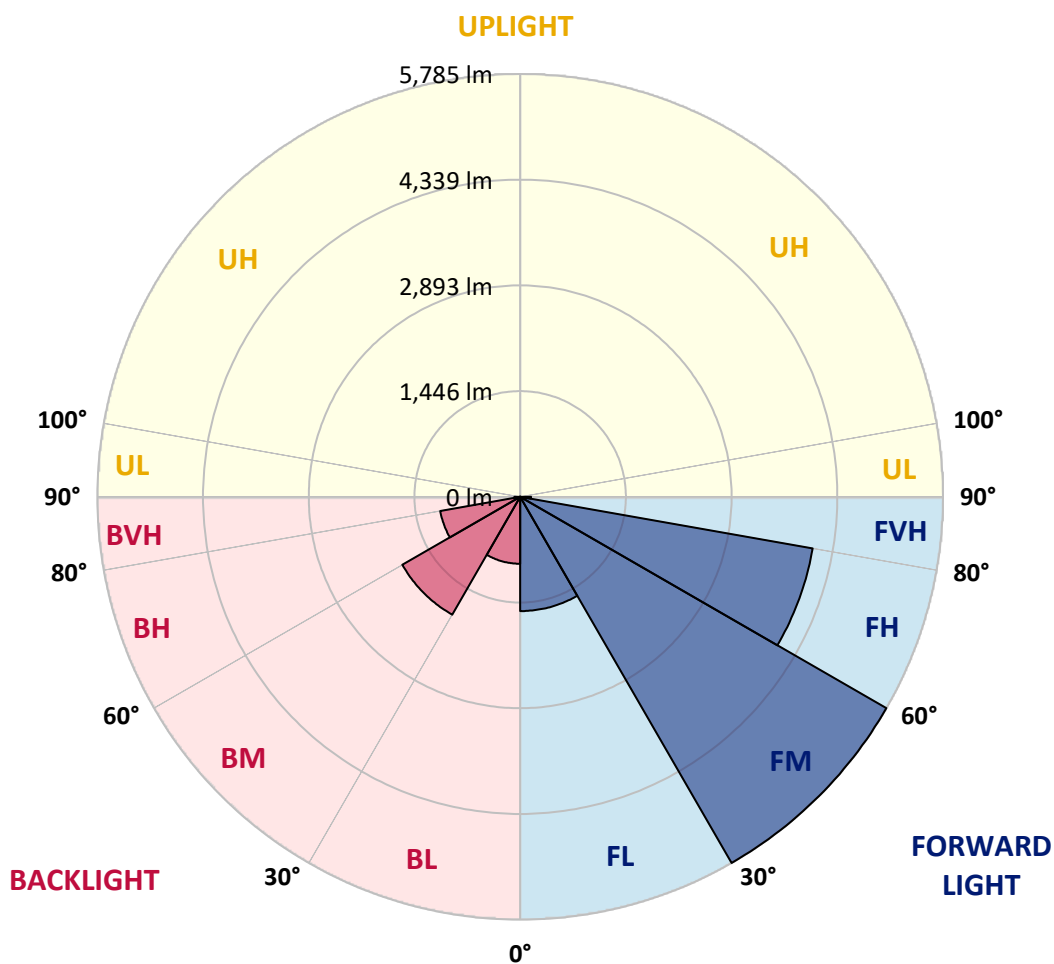
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1563.2	10.1			
FM (30°-60°)	5785.4	37.3			
FH (60°-80°)	4064.1	26.2			G2/5000
FVH (80°-90°)	148.9	1.0			G2/225
BL (0°-30°)	916.4	5.9	B2/1000		
BM (30°-60°)	1862.5	12.0	B2/2500		
BH (60°-80°)	1110.1	7.1	B3/2500		G3/2500
BVH (80°-90°)	79.5	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2
2.5°	2966.5	2977.7	2959.3	2942.0	2924.7	2914.5	2897.2	2848.3	2831.0	2815.8	2785.2
5°	3120.2	3135.5	3109.0	3054.0	3040.8	2998.0	2974.6	2932.9	2915.6	2889.1	2838.2
7.5°	3300.5	3302.5	3264.8	3247.5	3203.7	3145.7	3071.4	2995.0	2969.5	2942.0	2877.9
10°	3405.4	3426.8	3390.1	3336.1	3305.6	3253.6	3175.2	3074.4	3018.4	2969.5	2898.2
12.5°	3553.0	3558.1	3499.1	3468.5	3427.8	3362.6	3286.2	3198.7	3143.7	3053.0	2923.7
15°	3661.0	3664.0	3611.1	3578.5	3539.8	3501.1	3418.6	3327.0	3273.0	3182.4	2985.8
17.5°	3738.4	3751.6	3719.0	3695.6	3654.9	3627.4	3562.2	3489.9	3419.6	3338.2	3115.1
20°	3822.9	3830.0	3770.0	3780.1	3773.0	3760.8	3730.2	3662.0	3605.0	3497.0	3219.0
22.5°	3846.3	3834.1	3850.4	3890.1	3909.5	3923.7	3914.6	3899.3	3847.3	3712.9	3415.6
25°	3811.7	3827.0	3865.7	3952.2	4060.2	4124.3	4170.2	4181.4	4166.1	4037.8	3678.3
27.5°	3802.5	3795.4	3858.5	4006.2	4187.5	4337.2	4427.8	4513.4	4474.7	4394.2	3974.6
30°	3763.8	3760.8	3871.8	4023.5	4256.7	4534.7	4696.7	4841.3	4822.9	4741.5	4321.9
32.5°	3669.1	3689.5	3775.0	4037.8	4362.6	4726.2	4923.7	5161.0	5188.5	5128.4	4673.2
35°	3546.9	3554.1	3690.5	4000.1	4445.1	4894.2	5181.4	5511.3	5575.5	5573.5	5068.4
37.5°	3392.1	3432.9	3578.5	3906.4	4480.8	5048.0	5428.9	5884.1	6012.4	5993.0	5463.5
40°	3237.4	3262.8	3434.9	3787.3	4483.8	5150.8	5638.6	6282.2	6424.8	6427.9	5913.6
42.5°	3005.2	3047.9	3228.2	3630.4	4415.6	5238.4	5847.4	6699.8	6861.7	6885.1	6331.1
45°	2811.7	2825.9	2985.8	3387.0	4267.9	5285.3	6079.6	7127.5	7389.2	7369.8	6693.6
47.5°	2561.2	2617.2	2786.2	3156.9	4036.8	5293.4	6281.2	7624.4	7948.3	7903.5	7187.6
50°	1981.7	2043.8	2504.1	2949.2	3744.5	5200.7	6443.1	8215.1	8478.8	8431.0	7608.1
52.5°	1747.5	1778.0	1964.4	2706.8	3441.0	4979.8	6572.5	8775.2	9063.4	8915.7	8100.0
55°	1647.7	1662.0	1746.5	2213.9	3173.2	4617.2	6646.8	9403.5	9565.4	9346.5	8558.3
57.5°	1539.8	1573.4	1616.1	1865.6	2874.8	4115.2	6601.0	9924.9	9951.4	9733.4	8949.3
60°	1437.9	1452.2	1540.8	1672.1	2531.6	3596.8	6342.3	10249.7	10343.4	10075.6	9419.8
62.5°	1347.3	1372.7	1424.7	1547.9	2302.5	3193.6	5882.0	10375.0	10548.1	10374.0	9737.5
65°	1261.7	1269.9	1329.0	1441.0	2048.9	2995.0	5616.2	10177.4	10458.5	10431.0	9877.0
67.5°	1160.9	1170.1	1222.0	1299.4	1732.2	2774.0	4923.7	9898.4	10134.7	10228.4	9797.6
70°	1029.6	1036.7	1097.8	1143.6	1452.2	2448.1	4134.5	9470.7	9726.3	9639.8	9264.0
72.5°	878.8	890.0	938.9	996.0	1207.8	2064.2	3238.4	8575.6	9161.1	9104.1	8471.7
75°	709.8	727.1	766.8	835.1	981.7	1639.6	2292.3	6939.1	8189.6	8275.2	7310.8
77.5°	336.1	353.4	389.0	446.0	594.7	1143.6	1254.6	3911.5	6378.0	6907.5	5886.1
80°	110.0	112.0	263.8	301.4	377.8	704.7	512.2	1276.0	1889.0	3194.6	3166.1
82.5°	59.1	64.2	142.6	175.2	189.4	189.4	149.7	563.2	795.3	972.5	1126.3
85°	31.6	32.6	49.9	60.1	65.2	51.9	38.7	232.2	372.7	465.4	461.3
87.5°	13.2	14.3	15.3	13.2	11.2	7.1	5.1	4.1	4.1	4.1	4.1
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°	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2
2.5°	2769.9	2755.7	2748.5	2719.0	2686.4	2651.8	2624.3	2625.3	2646.7	2663.0	2662.0
5°	2801.5	2765.9	2722.1	2652.8	2624.3	2598.8	2568.3	2527.6	2540.8	2557.1	2569.3
7.5°	2818.8	2773.0	2713.9	2611.1	2564.2	2509.2	2480.7	2427.8	2405.4	2421.6	2421.6
10°	2812.7	2765.9	2664.0	2588.7	2497.0	2410.4	2353.4	2340.2	2320.8	2317.8	2316.8
12.5°	2853.4	2784.2	2633.5	2522.5	2439.0	2328.0	2266.9	2254.6	2258.7	2233.3	2237.3
15°	2893.1	2814.7	2607.0	2491.9	2362.6	2232.2	2183.4	2138.5	2158.9	2137.5	2142.6
17.5°	2964.4	2869.7	2592.7	2430.8	2264.8	2151.8	2064.2	2013.3	2011.3	2008.2	2000.0
20°	3045.9	2914.5	2590.7	2377.9	2185.4	2051.0	1925.7	1869.7	1829.0	1843.2	1844.2
22.5°	3193.6	2999.1	2612.1	2329.0	2074.4	1923.7	1795.4	1709.8	1660.9	1669.1	1670.1
25°	3403.3	3176.3	2668.1	2287.2	1981.7	1776.0	1649.7	1541.8	1482.7	1483.7	1500.0
27.5°	3707.8	3388.1	2757.7	2251.6	1882.9	1636.5	1465.4	1359.5	1295.3	1294.3	1305.5
30°	4009.3	3652.8	2886.0	2200.7	1757.7	1449.1	1255.6	1171.1	1131.4	1104.9	1111.0
32.5°	4307.6	3937.0	3053.0	2174.2	1611.0	1228.1	1066.2	1008.2	958.3	909.4	914.5
35°	4645.7	4203.8	3221.1	2121.2	1434.9	1044.8	931.8	852.4	788.2	762.7	757.7
37.5°	5042.9	4514.4	3337.2	2076.4	1226.1	921.6	784.1	725.1	683.3	655.8	651.7
40°	5393.2	4775.1	3465.5	1971.5	1025.5	810.6	654.8	623.2	618.1	596.8	593.7
42.5°	5747.6	5094.8	3553.0	1834.1	888.0	669.1	560.1	578.4	606.9	593.7	593.7
45°	6109.1	5428.9	3570.4	1628.4	756.6	566.2	536.7	571.3	611.0	614.1	613.0
47.5°	6505.3	5725.2	3604.0	1334.0	662.9	539.7	532.6	561.1	612.0	630.4	626.3
50°	6954.3	6046.0	3510.3	1017.3	606.9	542.8	536.7	549.9	604.9	625.3	618.1
52.5°	7391.2	6354.5	3355.5	776.0	571.3	545.8	558.1	547.9	587.6	608.0	616.1
55°	7796.5	6694.7	3027.6	690.4	546.9	541.8	575.4	557.0	571.3	577.4	588.6
57.5°	8206.9	6945.2	2679.3	647.7	533.6	536.7	565.2	557.0	566.2	559.1	549.9
60°	8591.9	7208.9	2230.2	608.0	519.4	533.6	544.8	542.8	548.9	535.7	529.5
62.5°	8918.8	7351.5	1760.7	573.3	507.1	519.4	517.3	527.5	528.5	513.3	509.2
65°	9068.5	7412.6	1344.2	541.8	488.8	501.0	490.8	492.9	493.9	473.5	472.5
67.5°	8916.7	7076.6	921.6	494.9	469.5	484.7	465.4	462.3	455.2	434.8	435.9
70°	8473.7	6515.4	615.1	427.7	427.7	454.2	443.0	435.9	418.5	399.2	405.3
72.5°	7483.9	5562.3	399.2	345.2	375.8	418.5	413.5	403.3	362.5	307.5	309.6
75°	6401.4	4414.6	265.8	251.5	287.2	362.5	344.2	319.8	303.5	320.8	342.2
77.5°	4984.8	2814.7	148.7	144.6	170.1	254.6	287.2	292.3	413.5	490.8	485.8
80°	2587.6	1429.8	86.6	71.3	100.8	171.1	226.1	307.5	513.3	387.0	374.8
82.5°	1017.3	535.7	53.0	37.7	44.8	70.3	149.7	442.0	389.0	195.5	187.4
85°	348.3	121.2	21.4	19.3	21.4	29.5	59.1	396.1	201.6	124.2	118.1
87.5°	4.1	4.1	5.1	6.1	7.1	7.1	16.3	188.4	93.7	58.0	56.0
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)