

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: P509127

Luminaire Tested: **VERD-CA2-110-740-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509127  
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-CA2-110-740-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16093 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

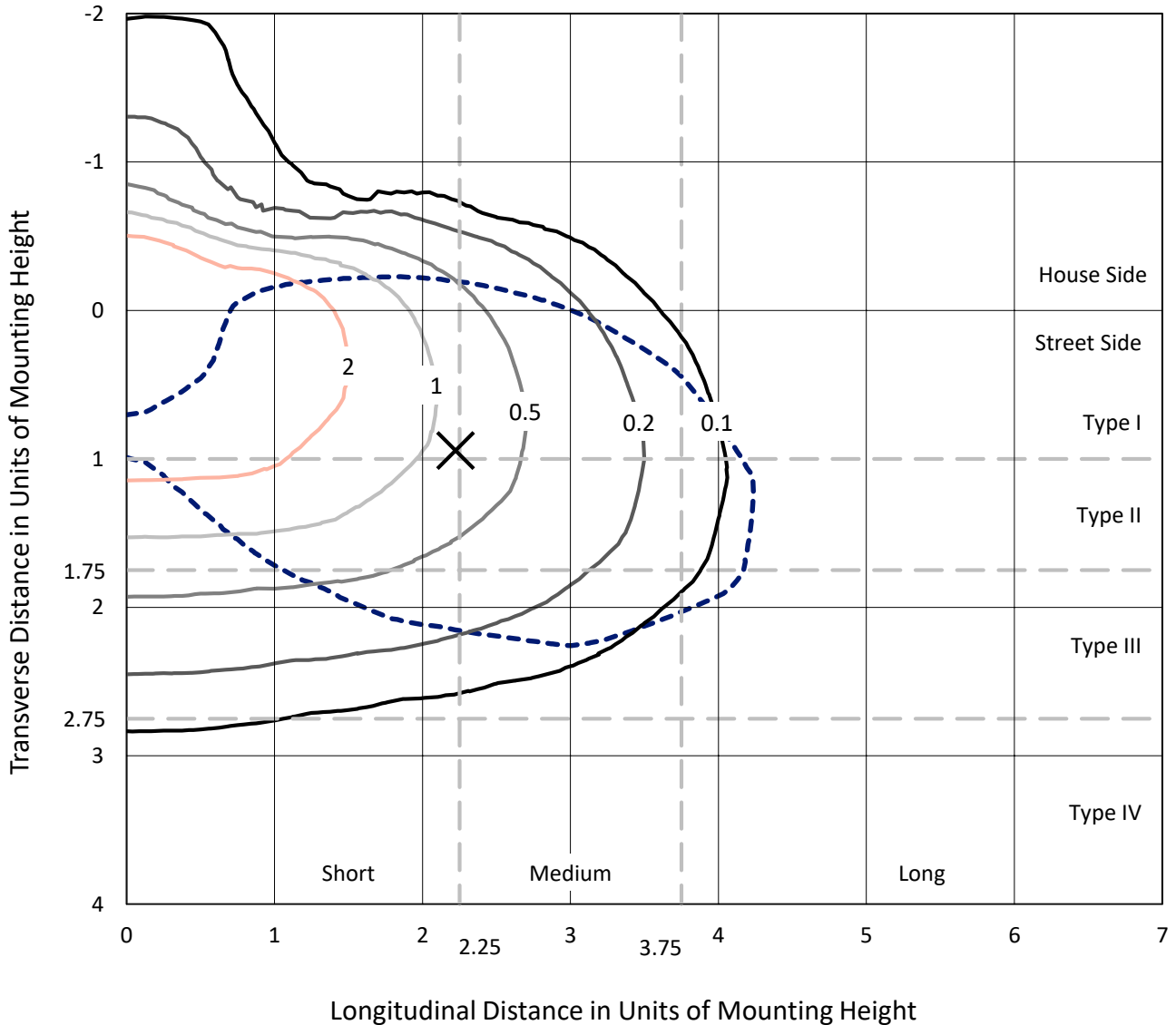
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

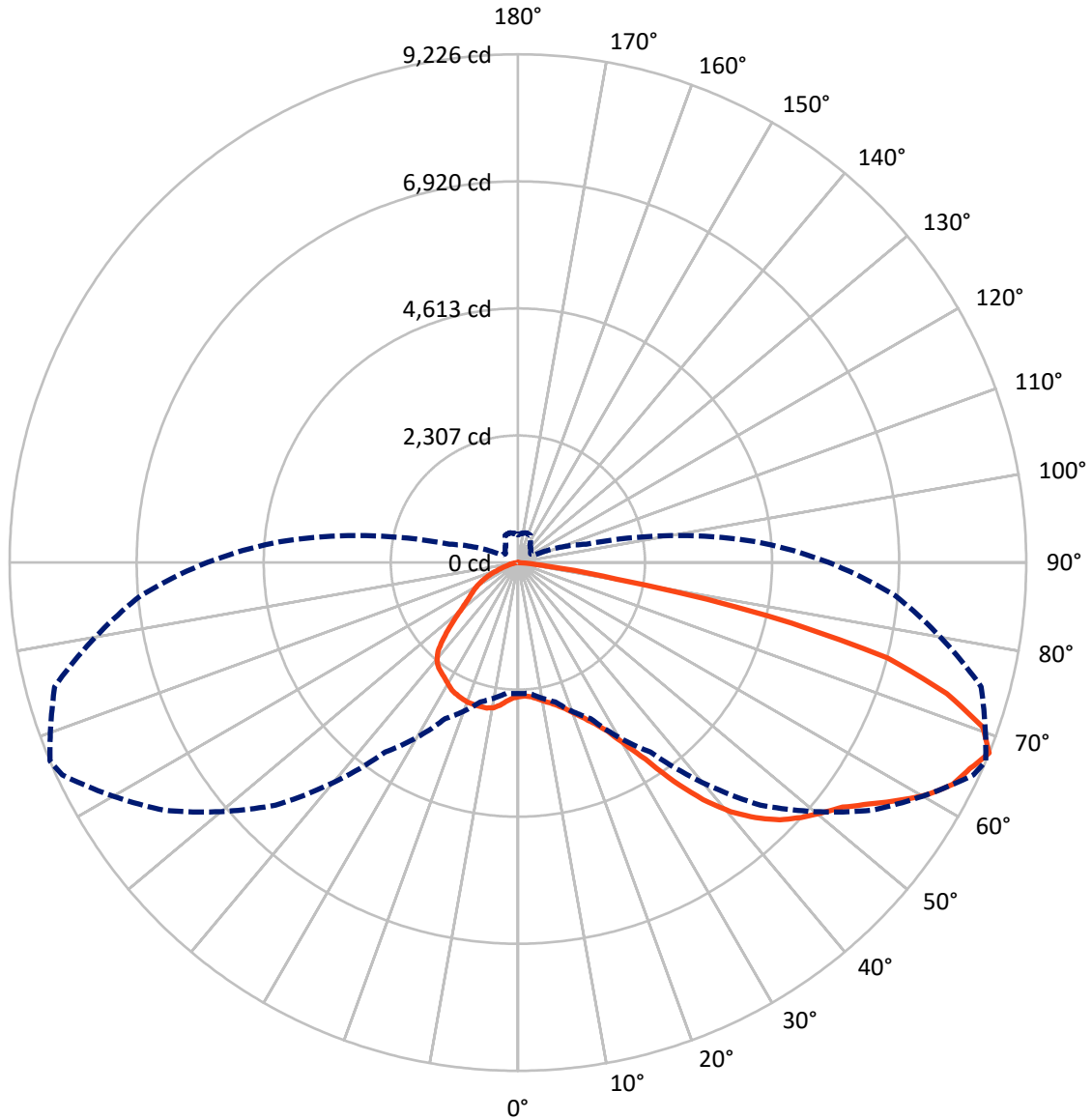
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	3679.8	0.0	3679.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	12413.2	0.0	12413.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	16093.0	0.0	16093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.5	1.5
10°-20°	789.1	4.9
20°-30°	1363.5	8.5
30°-40°	2069.6	12.9
40°-50°	2812.3	17.5
50°-60°	3344.6	20.8
60°-70°	3441.1	21.4
70°-80°	1877.1	11.7
80°-90°	149.2	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°	16093.0	100.0
0°-180°	16093.0	100.0

**Coefficient of Utilization**



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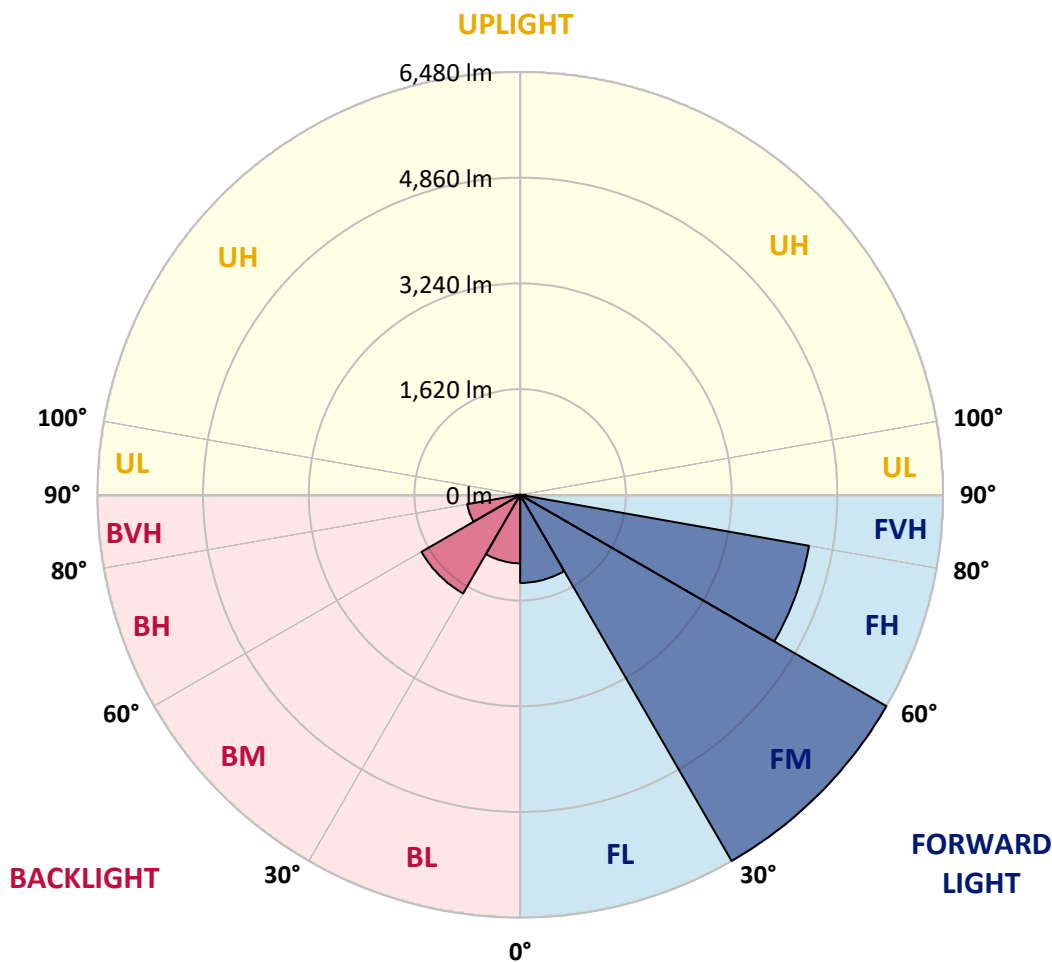
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.8	8.4			
FM (30°-60°)	6479.7	40.3			
FH (60°-80°)	4494.4	27.9			G2/5000
FVH (80°-90°)	89.3	0.6			G1/100
BL (0°-30°)	1049.3	6.5	B3/2500		
BM (30°-60°)	1746.7	10.9	B2/2500		
BH (60°-80°)	823.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	59.9	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6
2.5°	2448.5	2438.1	2424.2	2429.4	2418.9	2436.3	2429.4	2425.9	2425.9	2427.6	2436.3
5°	2504.3	2493.9	2483.4	2481.7	2460.7	2467.7	2457.3	2446.8	2446.8	2445.1	2448.5
7.5°	2601.9	2588.0	2575.8	2574.0	2547.9	2544.4	2513.0	2492.1	2492.1	2490.4	2495.6
10°	2730.9	2725.6	2701.2	2685.6	2654.2	2633.3	2594.9	2561.8	2554.9	2544.4	2558.3
12.5°	2854.6	2852.9	2830.2	2812.8	2769.2	2732.6	2669.9	2624.6	2615.9	2603.7	2614.1
15°	3009.7	2994.0	2969.6	2959.2	2896.4	2840.7	2769.2	2701.2	2692.5	2678.6	2687.3
17.5°	3180.5	3171.8	3133.4	3121.2	3042.8	2978.3	2889.5	2802.3	2788.4	2769.2	2767.5
20°	3386.1	3370.5	3340.8	3306.0	3229.3	3136.9	3034.1	2934.8	2922.6	2906.9	2873.8
22.5°	3607.5	3590.0	3560.4	3523.8	3426.2	3328.6	3199.7	3074.2	3067.2	3056.8	2995.8
25°	3818.3	3788.7	3792.2	3757.3	3670.2	3546.5	3394.9	3245.0	3241.5	3239.8	3142.2
27.5°	4043.2	4011.8	4001.3	3989.1	3907.2	3790.5	3619.7	3476.8	3464.6	3466.3	3318.2
30°	4254.0	4240.1	4231.4	4222.7	4182.6	4078.0	3914.2	3787.0	3825.3	3821.8	3617.9
32.5°	4417.8	4407.4	4444.0	4485.8	4475.4	4388.2	4274.9	4217.4	4255.8	4379.5	4201.7
35°	4562.5	4557.3	4627.0	4715.9	4778.6	4715.9	4703.7	4792.5	4881.4	5087.1	4984.2
37.5°	4719.3	4712.4	4771.6	4923.2	5033.0	5052.2	5144.6	5372.9	5458.3	5663.9	5447.8
40°	4717.6	4726.3	4869.2	5062.7	5263.1	5425.1	5615.1	5836.4	5946.2	6043.8	5709.2
42.5°	4640.9	4646.1	4825.6	5193.4	5484.4	5803.3	5972.4	6256.4	6331.4	6350.5	6017.7
45°	4562.5	4566.0	4761.2	5174.2	5669.1	6157.1	6345.3	6605.0	6662.5	6596.3	6226.8
47.5°	4449.2	4471.9	4682.7	5155.0	5827.7	6483.0	6634.6	6892.5	6915.2	6831.5	6401.1
50°	4315.0	4327.2	4569.5	5092.3	5932.3	6685.1	6864.7	7098.2	7141.7	7047.6	6617.2
52.5°	4151.2	4161.7	4424.8	5008.6	5989.8	6840.3	7040.7	7319.5	7378.8	7336.9	6807.1
55°	3963.0	3968.2	4236.6	4872.7	5974.1	6908.2	7194.0	7633.2	7732.5	7629.7	6965.7
57.5°	3727.7	3746.9	4051.9	4668.8	5855.6	6993.6	7471.1	8020.1	8147.3	7927.7	7084.2
60°	3485.5	3504.6	3781.7	4431.8	5656.9	7032.0	7756.9	8436.6	8548.1	8210.0	7157.4
62.5°	3213.6	3239.8	3469.8	4074.5	5301.4	6981.4	7967.8	8800.8	8863.6	8379.1	7138.3
65°	2818.0	2832.0	3082.9	3644.1	4837.8	6718.3	7959.1	8996.0	9016.9	8565.6	7054.6
67.5°	2378.8	2380.6	2617.6	3124.7	4200.0	6226.8	7837.1	9123.2	9226.1	8703.2	6871.6
70°	1809.0	1833.4	2018.1	2394.5	3433.2	5386.8	7434.5	8997.8	8949.0	8326.8	6347.1
72.5°	1291.4	1277.4	1371.5	1626.0	2403.2	4156.4	6409.8	8129.9	8140.3	7584.4	5522.7
75°	686.6	690.1	770.3	984.6	1226.9	2704.7	5127.1	6868.1	6930.9	6503.9	4322.0
77.5°	153.4	174.3	264.9	376.4	533.3	866.1	2781.4	4505.0	4623.5	4280.2	2368.4
80°	118.5	120.2	174.3	214.4	235.3	414.8	883.6	1634.7	1814.2	1713.1	890.5
82.5°	78.4	80.2	115.0	118.5	113.3	190.0	400.8	489.7	538.5	470.5	331.1
85°	41.8	43.6	52.3	57.5	45.3	55.8	52.3	41.8	43.6	38.3	38.3
87.5°	8.7	5.2	7.0	5.2	5.2	3.5	5.2	5.2	5.2	5.2	5.2
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°	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6	2434.6
2.5°	2436.3	2439.8	2448.5	2462.5	2469.5	2485.1	2495.6	2521.7	2558.3	2546.1	2530.5
5°	2450.3	2460.7	2490.4	2527.0	2554.9	2596.7	2617.6	2668.1	2710.0	2706.5	2678.6
7.5°	2502.6	2525.2	2561.8	2615.9	2662.9	2704.7	2734.4	2788.4	2826.7	2811.0	2784.9
10°	2568.8	2591.5	2631.5	2680.3	2715.2	2760.5	2779.7	2823.2	2847.6	2828.5	2805.8
12.5°	2629.8	2642.0	2669.9	2706.5	2725.6	2755.3	2764.0	2795.4	2818.0	2809.3	2781.4
15°	2689.0	2687.3	2692.5	2703.0	2710.0	2716.9	2718.7	2741.3	2757.0	2739.6	2720.4
17.5°	2755.3	2737.8	2715.2	2697.8	2671.6	2659.4	2636.8	2647.2	2645.5	2631.5	2615.9
20°	2838.9	2807.6	2737.8	2683.8	2615.9	2561.8	2514.8	2506.1	2506.1	2467.7	2466.0
22.5°	2938.3	2886.0	2769.2	2650.7	2540.9	2455.5	2368.4	2317.8	2281.2	2253.4	2241.2
25°	3067.2	2971.4	2797.1	2605.4	2443.3	2288.2	2157.5	2087.8	2018.1	1972.8	1965.8
27.5°	3204.9	3100.3	2814.5	2565.3	2309.1	2096.5	1915.3	1772.4	1707.9	1678.3	1650.4
30°	3429.7	3245.0	2845.9	2479.9	2140.1	1861.2	1620.7	1453.4	1390.7	1369.8	1352.4
32.5°	3975.2	3619.7	2875.5	2392.8	1958.8	1601.6	1284.4	1143.2	1089.2	1110.1	1117.1
35°	4658.3	4177.3	3016.7	2291.7	1770.6	1307.1	988.1	894.0	897.5	928.9	939.3
37.5°	5121.9	4668.8	3304.2	2164.5	1500.5	969.0	765.1	735.4	761.6	789.5	794.7
40°	5393.8	4893.6	3506.4	2007.6	1181.6	725.0	575.1	554.2	610.0	672.7	711.0
42.5°	5683.1	5085.3	3611.0	1803.7	829.5	524.6	440.9	456.6	545.5	599.5	623.9
45°	5838.2	5235.2	3563.9	1512.7	564.6	407.8	395.6	439.2	528.1	576.8	583.8
47.5°	6005.5	5385.1	3450.6	1209.5	432.2	386.9	388.6	440.9	531.5	583.8	583.8
50°	6150.1	5508.8	3248.5	948.1	411.3	372.9	390.4	449.6	536.8	582.1	580.3
52.5°	6317.4	5564.6	2960.9	766.8	390.4	360.7	392.1	456.6	528.1	554.2	550.7
55°	6369.7	5524.5	2823.2	641.3	374.7	353.8	399.1	467.1	524.6	529.8	521.1
57.5°	6369.7	5416.4	2666.4	547.2	360.7	353.8	402.6	465.3	543.7	576.8	573.4
60°	6341.8	5303.2	2425.9	489.7	341.6	350.3	404.3	491.5	646.6	683.2	681.4
62.5°	6252.9	5120.2	2129.6	432.2	322.4	352.0	399.1	528.1	738.9	723.2	684.9
65°	6042.1	4775.1	1727.1	379.9	301.5	352.0	392.1	580.3	657.0	627.4	613.4
67.5°	5644.7	4341.2	1284.4	325.9	277.1	329.4	381.7	543.7	557.7	524.6	503.7
70°	5120.2	3677.2	824.3	275.4	251.0	310.2	374.7	510.6	538.5	498.4	472.3
72.5°	4266.2	2920.8	477.5	224.8	212.6	285.8	360.7	494.9	529.8	475.8	439.2
75°	3009.7	1843.8	313.7	165.6	170.8	244.0	334.6	463.6	496.7	430.5	378.2
77.5°	1533.6	691.9	223.1	122.0	115.0	186.5	289.3	427.0	489.7	433.9	371.2
80°	542.0	348.5	146.4	80.2	74.9	115.0	221.3	362.5	460.1	423.5	411.3
82.5°	231.8	174.3	80.2	50.5	45.3	57.5	125.5	285.8	404.3	383.4	463.6
85°	33.1	29.6	22.7	19.2	19.2	26.1	40.1	141.2	273.6	312.0	378.2
87.5°	5.2	5.2	5.2	3.5	3.5	3.5	1.7	20.9	90.6	135.9	188.2
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)