

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: P509985

Luminaire Tested: **VERD-M-CA3-180-730-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-180-730-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1120mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25015 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

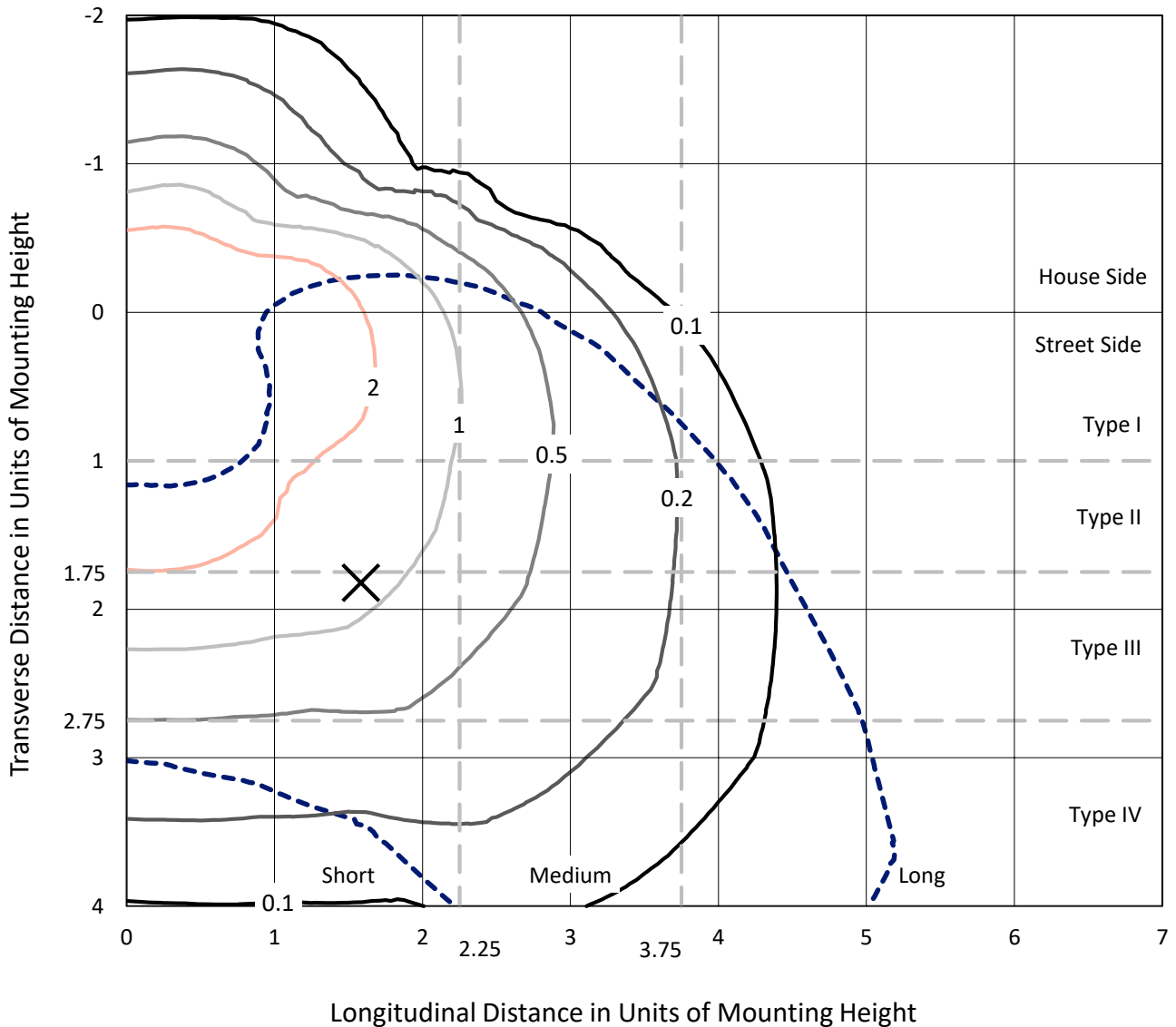
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509985  
 CATALOG NUMBER: VERD-M-CA3-180-730-U-T4

### Iso-Footcandle Lines of Horizontal Illumination

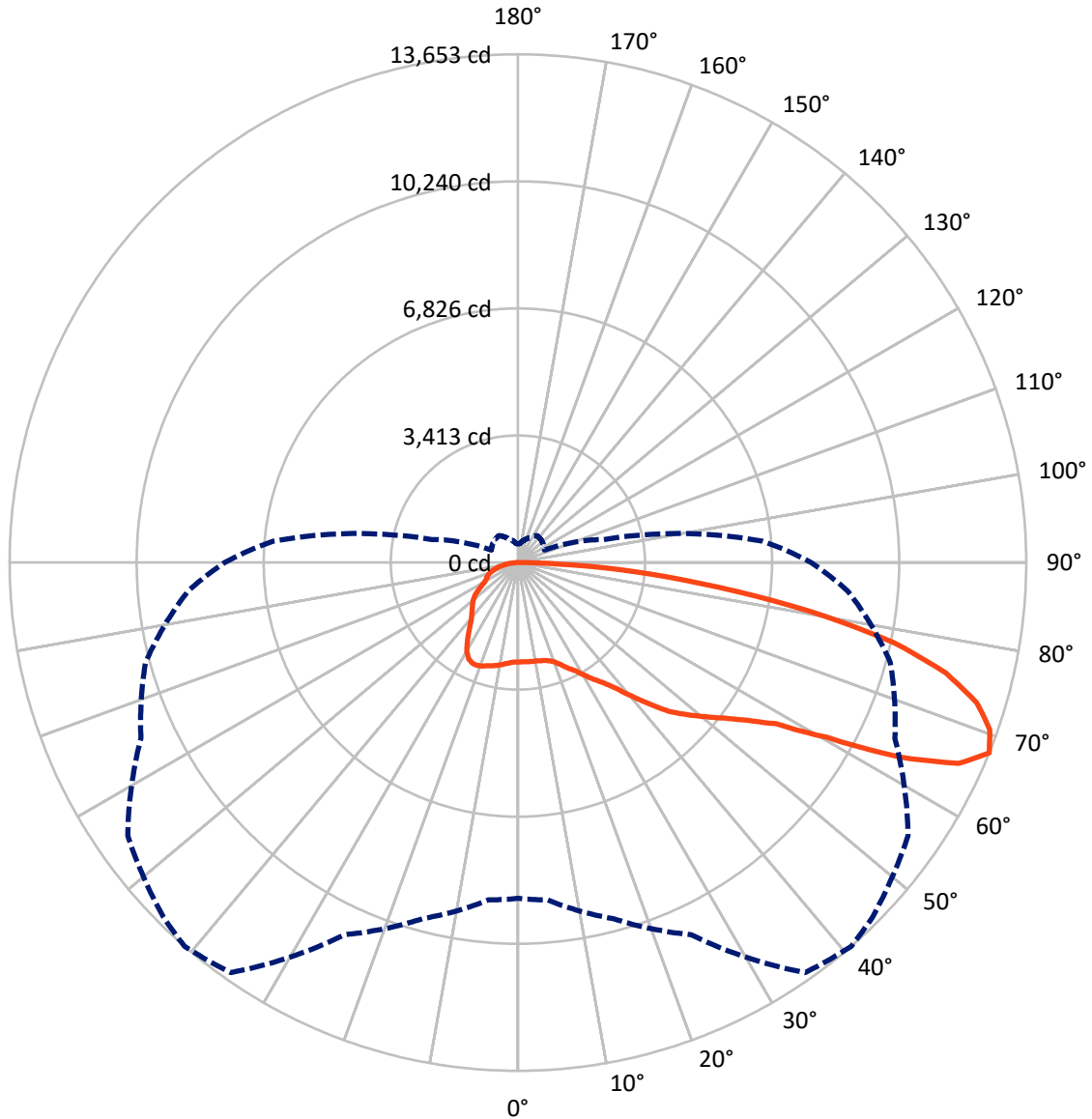
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P509985  
CATALOG NUMBER: VERD-M-CA3-180-730-U-T4

### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509985

CATALOG NUMBER: VERD-M-CA3-180-730-U-T4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5660.8	0.0	5660.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	19354.2	0.0	19354.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	25015.0	0.0	25015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.1	1.0
10°-20°	800.4	3.2
20°-30°	1431.4	5.7
30°-40°	2244.4	9.0
40°-50°	3480.4	13.9
50°-60°	4906.5	19.6
60°-70°	6254.6	25.0
70°-80°	4680.6	18.7
80°-90°	958.6	3.8
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°	25015.0	100.0
0°-180°	25015.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509985

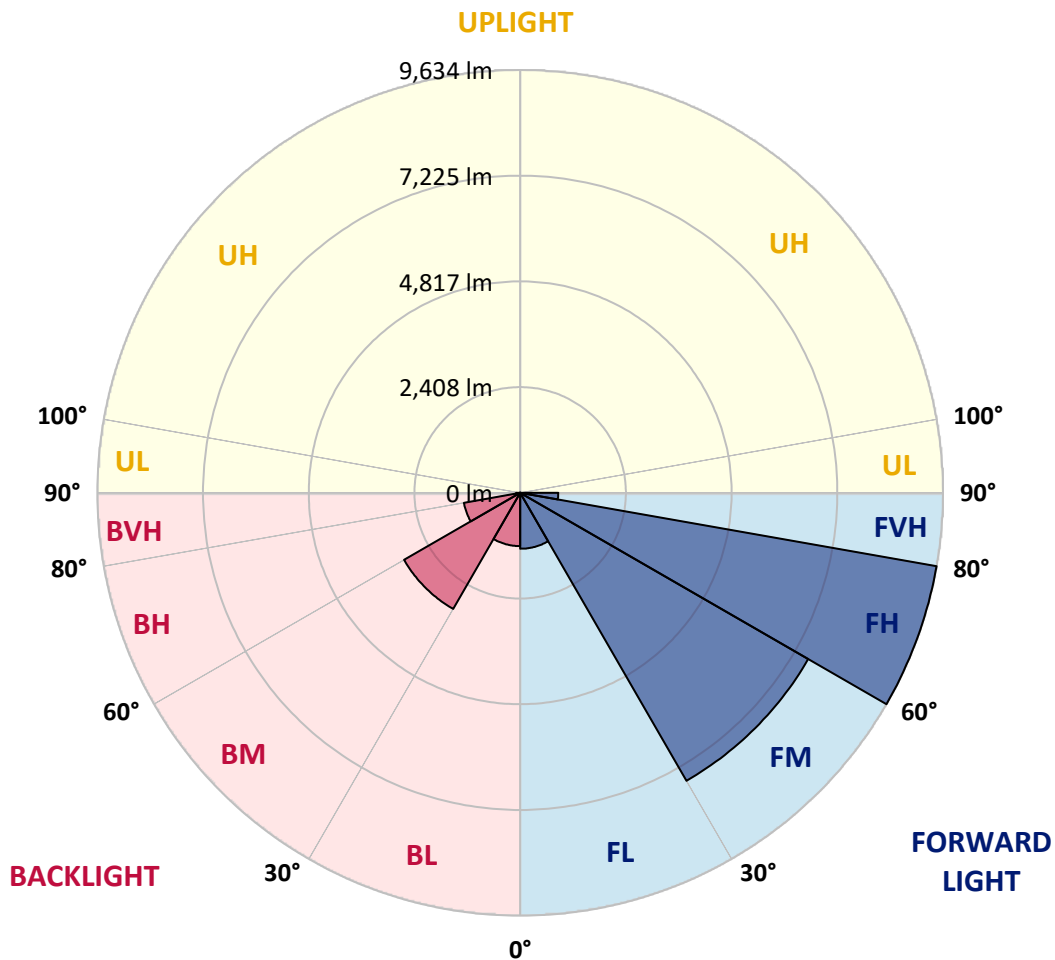
CATALOG NUMBER: VERD-M-CA3-180-730-U-T4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1274.5	5.1			
FM	(30°-60°)	7576.8	30.3			
FH	(60°-80°)	9633.8	38.5			G4/12000
FVH	(80°-90°)	869.1	3.5			G5
BL	(0°-30°)	1215.3	4.9	B3/2500		
BM	(30°-60°)	3054.5	12.2	B3/5000		
BH	(60°-80°)	1301.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	89.5	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-G5**

Type IV Short





REPORT NUMBER: P509985

CATALOG NUMBER: VERD-M-CA3-180-730-U-T4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	2637.9	2668.5	2664.0	2658.3	2667.4	2668.5	2642.5	2652.7	2658.3	2667.4	2682.1
5°	2644.7	2675.3	2673.0	2662.9	2669.7	2673.0	2649.3	2667.4	2667.4	2670.8	2687.8
7.5°	2630.0	2659.5	2659.5	2656.1	2670.8	2684.4	2662.9	2678.7	2687.8	2696.8	2708.1
10°	2616.4	2641.3	2650.4	2648.1	2682.1	2685.5	2670.8	2709.3	2724.0	2733.1	2746.6
12.5°	2601.7	2632.3	2644.7	2657.2	2693.4	2705.9	2698.0	2737.6	2768.1	2784.0	2798.7
15°	2594.9	2628.9	2649.3	2667.4	2707.0	2729.7	2729.7	2789.7	2825.9	2846.3	2872.3
17.5°	2642.5	2677.6	2693.4	2708.1	2744.4	2774.9	2772.7	2842.9	2896.1	2927.8	2975.3
20°	2760.2	2802.1	2811.2	2816.8	2839.5	2850.8	2847.4	2923.3	2996.8	3056.9	3110.1
22.5°	2965.1	2990.1	2994.6	2971.9	2977.6	2986.7	2981.0	3022.9	3106.7	3176.9	3272.0
25°	3132.7	3172.3	3161.0	3128.2	3132.7	3145.2	3128.2	3192.7	3252.7	3344.4	3440.7
27.5°	3309.3	3338.8	3326.3	3305.9	3301.4	3292.3	3288.9	3371.6	3459.9	3532.4	3675.0
30°	3524.4	3540.3	3504.1	3495.0	3502.9	3508.6	3487.1	3592.4	3672.8	3776.9	3969.4
32.5°	3886.7	3901.4	3849.4	3710.1	3713.5	3739.5	3721.4	3853.9	4005.6	4132.4	4328.3
35°	4348.7	4348.7	4307.9	4112.0	3963.7	3964.8	3969.4	4156.2	4438.1	4722.3	4923.8
37.5°	4816.2	4832.1	4755.1	4576.2	4388.3	4288.6	4204.9	4444.9	4814.0	5448.0	5748.0
40°	5303.1	5328.0	5212.5	5048.3	4832.1	4718.9	4621.5	4767.6	5265.7	6166.9	6404.7
42.5°	5728.8	5763.9	5645.0	5471.8	5321.2	5193.3	5046.1	5104.9	5762.7	6849.6	6984.3
45°	6125.0	6144.3	6043.5	5900.9	5776.3	5706.1	5603.1	5671.0	6331.1	7517.6	7492.7
47.5°	6417.1	6445.4	6353.7	6276.7	6148.8	6106.9	6105.8	6292.6	6970.8	8049.7	7934.2
50°	6891.5	6870.0	6663.9	6570.0	6491.8	6505.4	6538.3	6860.9	7722.5	8562.6	8305.6
52.5°	7687.4	7647.8	7190.4	6994.5	6898.3	6942.4	6959.4	7376.1	8481.1	9005.3	8612.4
55°	8716.6	8589.8	8256.9	7731.6	7429.3	7471.2	7451.9	7929.7	9087.9	9427.6	8840.0
57.5°	9397.0	9515.9	9356.2	9056.2	8305.6	8168.6	8123.3	8477.7	9649.5	9831.7	9075.5
60°	9988.0	10185.0	10438.6	10246.1	10043.5	9530.6	9108.3	9100.4	10144.2	10101.2	9170.6
62.5°	10611.8	10716.0	11106.6	11225.4	11601.3	11507.3	10941.3	9888.3	10639.0	10298.2	9226.0
65°	9981.2	10120.4	10831.4	11480.2	12871.6	13007.5	12822.9	11353.4	10982.0	10399.0	9146.8
67.5°	9021.1	9098.1	9903.1	11028.4	13446.8	13652.8	13467.1	12791.2	11172.2	10354.8	8902.2
70°	7790.4	7881.0	8649.8	10185.0	13417.3	13444.5	13372.0	12923.7	11096.4	10147.6	8286.3
72.5°	6316.4	6430.7	7106.6	8700.7	12774.2	12892.0	12777.6	12661.0	10883.5	9567.9	7225.5
75°	4778.9	4930.6	5534.0	6936.8	11288.8	11882.1	11896.8	12256.8	10057.0	8202.6	5244.2
77.5°	3259.5	3404.4	3976.2	5285.0	9370.9	10318.6	10565.4	10959.4	8402.9	6061.6	2861.0
80°	1835.2	1821.7	2547.4	3775.8	7147.4	7979.5	8289.7	8273.9	5900.9	3112.3	583.1
82.5°	848.0	850.3	1303.1	2410.4	4838.9	5388.0	5513.7	4799.3	2070.7	527.6	185.7
85°	422.3	426.8	627.2	1209.2	2731.9	3156.5	3000.2	1997.1	443.8	154.0	111.0
87.5°	167.6	160.8	247.9	497.0	986.1	1045.0	912.5	399.7	80.4	54.3	37.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509985

CATALOG NUMBER: VERD-M-CA3-180-730-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	2678.7	2681.0	2691.2	2670.8	2676.4	2671.9	2668.5	2686.6	2685.5	2688.9	2683.2
5°	2686.6	2692.3	2702.5	2693.4	2702.5	2698.0	2701.4	2726.3	2729.7	2728.5	2728.5
7.5°	2708.1	2713.8	2733.1	2721.7	2742.1	2736.4	2737.6	2761.4	2765.9	2759.1	2756.8
10°	2753.4	2758.0	2785.1	2782.9	2790.8	2786.3	2781.7	2791.9	2789.7	2779.5	2774.9
12.5°	2805.5	2818.0	2848.5	2849.7	2859.9	2837.2	2813.4	2810.0	2803.2	2787.4	2784.0
15°	2883.6	2898.3	2944.8	2933.4	2926.7	2878.0	2838.3	2806.6	2779.5	2765.9	2753.4
17.5°	2995.7	3020.6	3085.2	3050.1	3000.2	2928.9	2859.9	2790.8	2733.1	2684.4	2665.1
20°	3138.4	3166.7	3221.0	3174.6	3098.7	2992.3	2880.2	2755.7	2630.0	2522.5	2506.6
22.5°	3308.2	3353.5	3393.1	3286.7	3174.6	3039.9	2880.2	2701.4	2493.0	2332.3	2292.6
25°	3506.3	3541.4	3529.0	3379.5	3217.6	3047.8	2848.5	2605.1	2310.8	2123.9	2092.2
27.5°	3721.4	3737.3	3641.0	3423.7	3222.1	3001.4	2759.1	2434.2	2097.9	1950.7	1920.2
30°	3986.4	3938.8	3755.4	3450.8	3176.9	2898.3	2599.5	2184.0	1924.7	1795.6	1760.5
32.5°	4271.7	4184.5	3836.9	3431.6	3077.2	2726.3	2352.6	2007.3	1809.2	1651.8	1622.4
35°	4815.1	4567.2	3955.8	3373.9	2904.0	2496.4	2113.8	1871.5	1686.9	1518.2	1491.1
37.5°	5548.8	5117.4	4122.2	3293.5	2699.1	2273.4	1936.0	1726.6	1566.9	1392.6	1349.5
40°	6119.4	5673.3	4389.4	3207.4	2510.0	2061.7	1806.9	1650.7	1487.7	1302.0	1264.6
42.5°	6662.8	6181.6	4717.7	3111.2	2315.3	1914.5	1750.3	1633.7	1466.2	1277.1	1242.0
45°	7142.8	6592.6	5000.8	3015.0	2095.6	1778.6	1708.4	1600.9	1435.6	1245.4	1211.4
47.5°	7531.2	6945.8	5246.5	2910.8	1896.4	1675.6	1654.1	1540.9	1376.7	1180.9	1140.1
50°	7882.1	7244.7	5416.3	2799.8	1701.6	1591.8	1564.7	1431.1	1260.1	1086.9	1060.8
52.5°	8098.4	7447.4	5518.2	2818.0	1517.1	1497.9	1453.7	1316.7	1158.2	1009.9	975.9
55°	8324.8	7638.7	5517.1	2716.1	1363.1	1356.3	1314.4	1209.2	1084.6	960.1	939.7
57.5°	8417.7	7655.7	5414.0	2237.2	1227.3	1184.2	1175.2	1119.7	1011.0	893.3	870.6
60°	8479.9	7581.0	5219.3	1527.3	1056.3	1025.7	1069.9	1032.5	934.0	810.6	788.0
62.5°	8418.8	7499.5	4708.7	1102.7	926.1	943.1	985.0	944.2	841.2	729.1	709.9
65°	8272.7	7188.1	3718.0	859.3	868.4	905.7	938.6	870.6	681.6	570.6	559.3
67.5°	7874.2	6596.0	2392.3	788.0	835.5	874.0	885.4	737.0	617.0	510.6	498.2
70°	7035.3	5295.1	921.6	742.7	802.7	819.7	773.3	675.9	567.2	475.5	464.2
72.5°	5503.5	3476.9	532.1	679.3	732.5	716.7	717.8	606.8	511.7	424.6	415.5
75°	3420.3	1259.0	473.2	604.6	620.4	649.9	612.5	526.5	440.4	388.3	377.0
77.5°	1131.0	357.8	438.1	520.8	555.9	534.4	512.9	449.5	377.0	336.3	330.6
80°	274.0	268.3	392.9	407.6	435.9	399.7	397.4	373.6	318.1	294.4	288.7
82.5°	168.7	192.5	312.5	253.6	291.0	294.4	335.1	307.9	232.1	241.2	233.2
85°	104.2	148.3	164.2	122.3	123.4	165.3	200.4	185.7	139.3	131.3	130.2
87.5°	35.1	30.6	35.1	26.0	35.1	60.0	90.6	86.0	57.7	39.6	37.4
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)