

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: P510001

Luminaire Tested: **VERD-M-CA3-180-750-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510001  
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-CA3-180-750-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1120mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25943 lumens  
Efficiency: N/A  
Efficacy: 141.7 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

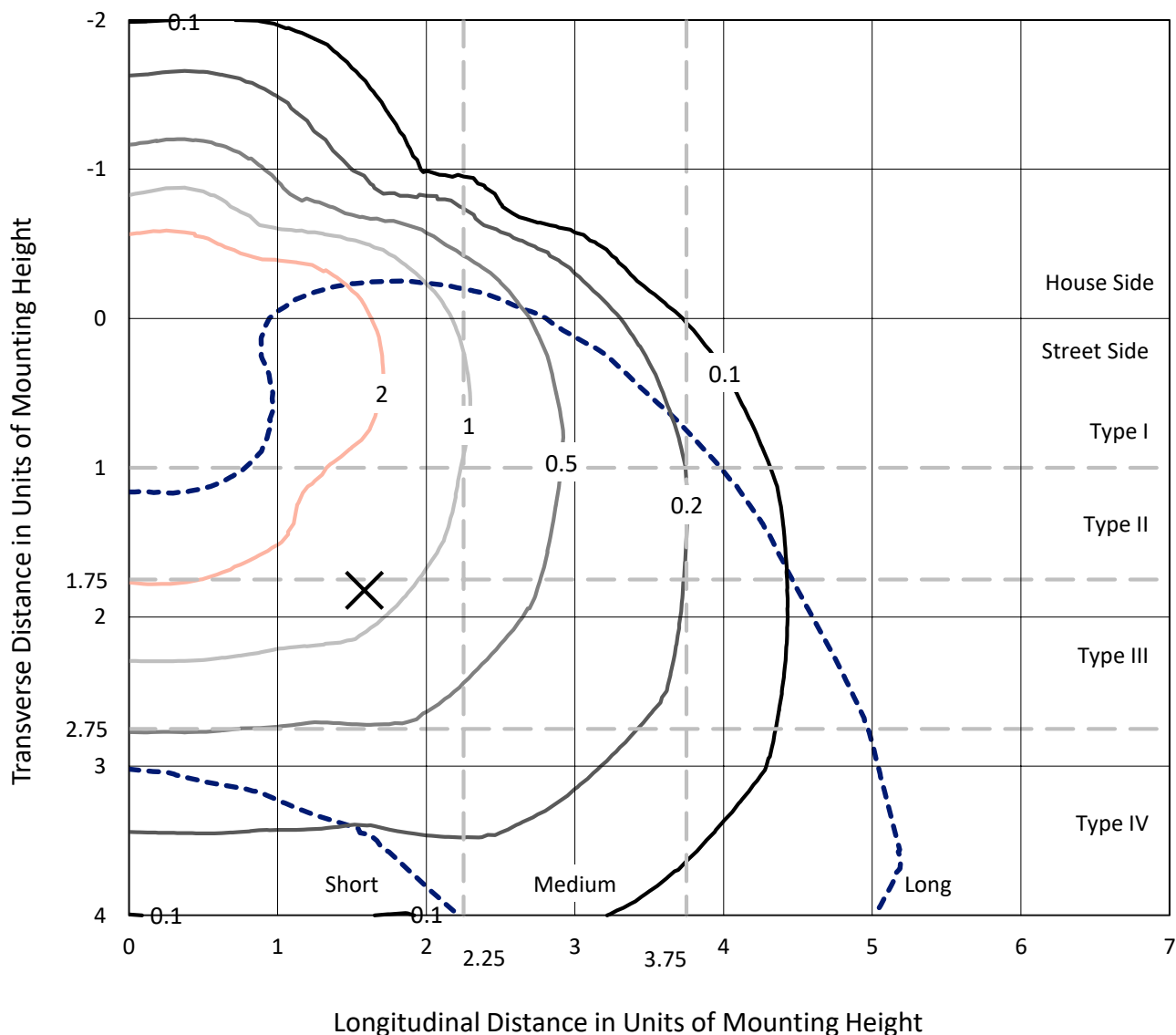
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

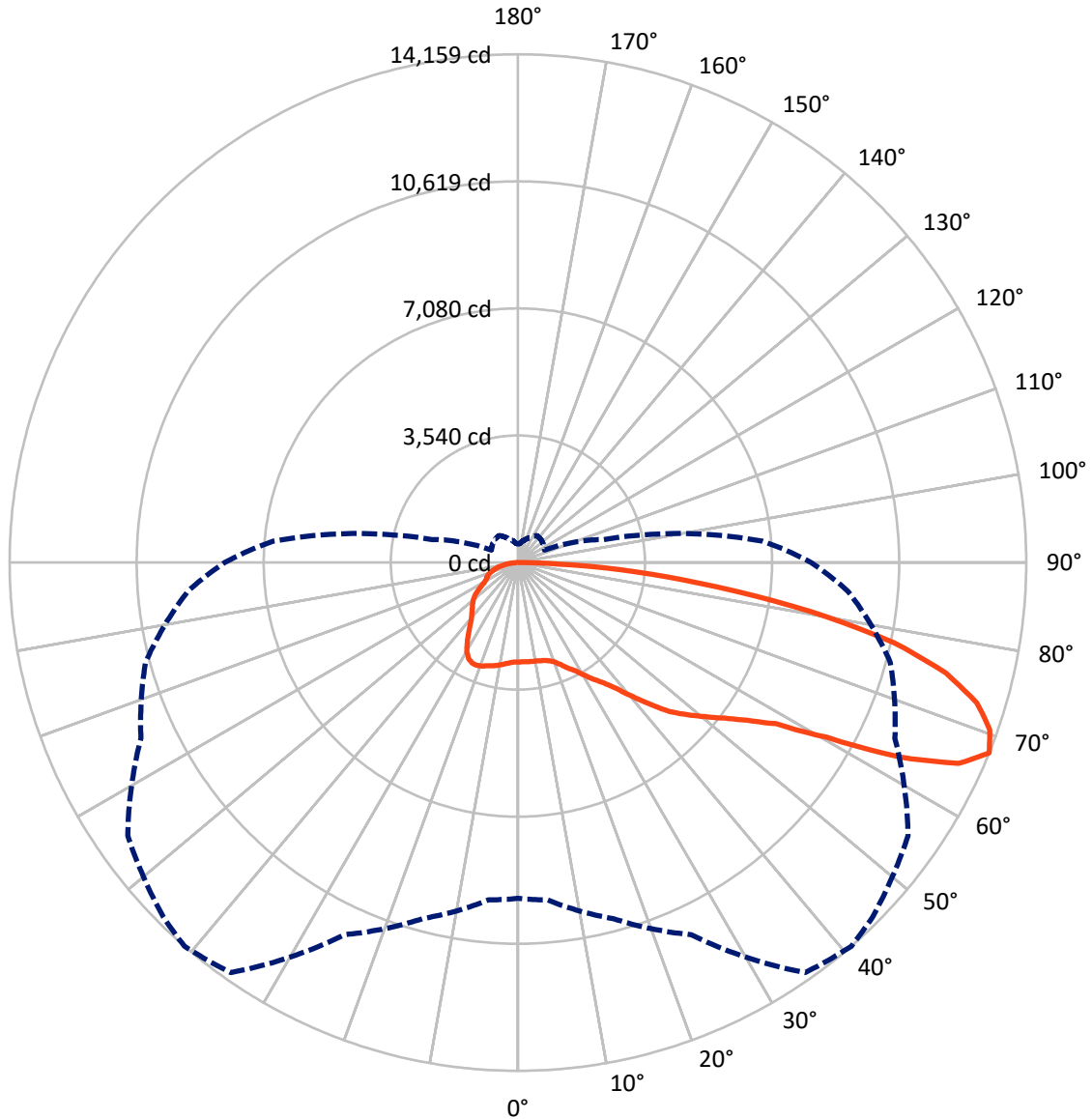
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5870.8	0.0	5870.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	20072.2	0.0	20072.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	25943.0	0.0	25943.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.7	1.0
10°-20°	830.1	3.2
20°-30°	1484.5	5.7
30°-40°	2327.7	9.0
40°-50°	3609.5	13.9
50°-60°	5088.5	19.6
60°-70°	6486.7	25.0
70°-80°	4854.2	18.7
80°-90°	994.2	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°	25943.0	100.0
0°-180°	25943.0	100.0

**Coefficient of Utilization**



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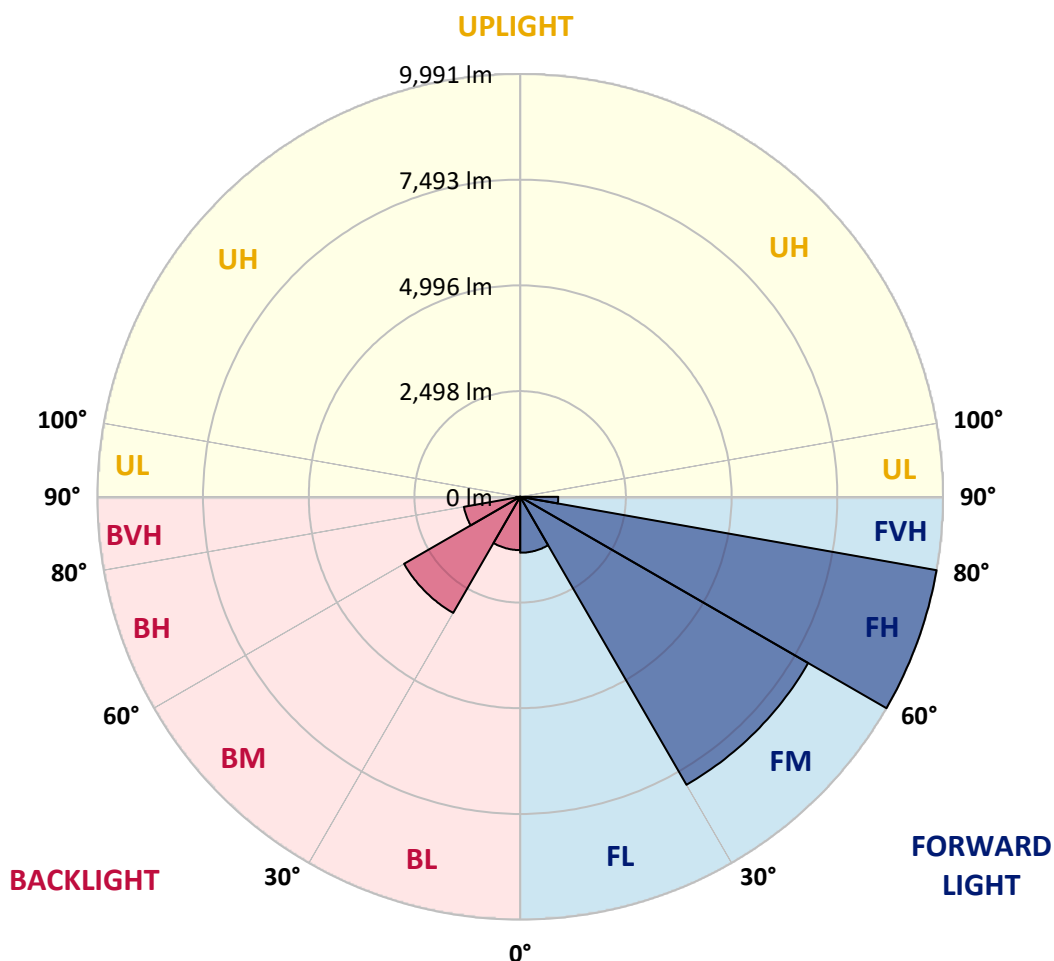
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1321.8	5.1			
FM	(30°-60°)	7857.9	30.3			
FH	(60°-80°)	9991.2	38.5			G4/12000
FVH	(80°-90°)	901.3	3.5			G5
BL	(0°-30°)	1260.4	4.9	B3/2500		
BM	(30°-60°)	3167.8	12.2	B3/5000		
BH	(60°-80°)	1349.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	92.9	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9
2.5°	2735.8	2767.5	2762.8	2756.9	2766.3	2767.5	2740.5	2751.1	2756.9	2766.3	2781.6
5°	2742.9	2774.6	2772.2	2761.6	2768.7	2772.2	2747.6	2766.3	2766.3	2769.9	2787.5
7.5°	2727.6	2758.1	2758.1	2754.6	2769.9	2784.0	2761.6	2778.1	2787.5	2796.9	2808.6
10°	2713.5	2739.3	2748.7	2746.4	2781.6	2785.1	2769.9	2809.8	2825.0	2834.4	2848.5
12.5°	2698.2	2729.9	2742.9	2755.8	2793.3	2806.3	2798.0	2839.1	2870.8	2887.3	2902.5
15°	2691.2	2726.4	2747.6	2766.3	2807.4	2830.9	2830.9	2893.2	2930.7	2951.9	2978.9
17.5°	2740.5	2776.9	2793.3	2808.6	2846.2	2877.9	2875.5	2948.3	3003.5	3036.4	3085.7
20°	2862.6	2906.1	2915.5	2921.3	2944.8	2956.6	2953.0	3031.7	3108.0	3170.3	3225.4
22.5°	3075.1	3101.0	3105.7	3082.2	3088.1	3097.5	3091.6	3135.0	3221.9	3294.7	3393.3
25°	3248.9	3290.0	3278.3	3244.2	3248.9	3261.8	3244.2	3311.2	3373.4	3468.5	3568.3
27.5°	3432.1	3462.6	3449.7	3428.6	3423.9	3414.5	3411.0	3496.7	3588.3	3663.4	3811.3
30°	3655.2	3671.6	3634.1	3624.7	3632.9	3638.7	3616.4	3725.6	3809.0	3917.0	4116.6
32.5°	4030.9	4046.2	3992.2	3847.7	3851.3	3878.3	3859.5	3996.9	4154.2	4285.7	4488.8
35°	4510.0	4510.0	4467.7	4264.6	4110.8	4111.9	4116.6	4310.4	4602.7	4897.5	5106.5
37.5°	4994.9	5011.3	4931.5	4746.0	4551.1	4447.7	4360.9	4609.8	4992.6	5650.1	5961.3
40°	5499.8	5525.6	5405.9	5235.6	5011.3	4893.9	4793.0	4944.4	5461.1	6395.7	6642.3
42.5°	5941.3	5977.7	5854.4	5674.8	5518.6	5385.9	5233.3	5294.3	5976.5	7103.7	7243.4
45°	6352.2	6372.2	6267.7	6119.8	5990.6	5917.8	5811.0	5881.4	6565.9	7796.5	7770.6
47.5°	6655.2	6684.5	6589.4	6509.6	6376.9	6333.5	6332.3	6526.0	7229.4	8348.3	8228.6
50°	7147.2	7124.9	6911.2	6813.7	6732.7	6746.8	6780.8	7115.5	8009.0	8880.2	8613.7
52.5°	7972.6	7931.5	7457.1	7254.0	7154.2	7200.0	7217.6	7649.7	8795.7	9339.3	8931.9
55°	9039.9	8908.4	8563.2	8018.4	7704.9	7748.3	7728.4	8223.9	9425.0	9777.3	9167.9
57.5°	9745.6	9868.9	9703.3	9392.2	8613.7	8471.6	8424.7	8792.2	10007.4	10196.5	9412.1
60°	10358.5	10562.8	10825.8	10626.2	10416.0	9884.1	9446.2	9438.0	10520.5	10475.9	9510.8
62.5°	11005.5	11113.5	11518.6	11641.9	12031.7	11934.2	11347.2	10255.2	11033.7	10680.2	9568.3
65°	10351.5	10495.9	11233.3	11906.1	13349.1	13490.0	13298.6	11774.6	11389.4	10784.7	9486.1
67.5°	9355.8	9435.6	10270.4	11437.6	13945.6	14159.3	13966.7	13265.8	11586.7	10738.9	9232.5
70°	8079.5	8173.4	8970.6	10562.8	13915.1	13943.2	13868.1	13403.1	11508.0	10524.1	8593.7
72.5°	6550.7	6669.3	7370.3	9023.5	13248.1	13370.3	13251.7	13130.7	11287.3	9922.9	7493.5
75°	4956.2	5113.5	5739.3	7194.1	11707.6	12322.9	12338.2	12711.5	10430.1	8506.8	5438.7
77.5°	3380.4	3530.7	4123.7	5481.0	9718.6	10701.4	10957.3	11365.9	8714.7	6286.5	2967.1
80°	1903.3	1889.2	2641.9	3915.9	7412.5	8275.5	8597.3	8580.8	6119.8	3227.8	604.7
82.5°	879.5	881.8	1351.5	2499.8	5018.4	5587.9	5718.2	4977.3	2147.6	547.2	192.6
85°	438.0	442.7	650.5	1254.0	2833.3	3273.6	3111.5	2071.2	460.3	159.7	115.1
87.5°	173.8	166.7	257.1	515.5	1022.7	1083.8	946.4	414.5	83.4	56.4	38.7
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°	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9	2769.9
2.5°	2778.1	2780.4	2791.0	2769.9	2775.7	2771.0	2767.5	2786.3	2785.1	2788.6	2782.8
5°	2786.3	2792.2	2802.7	2793.3	2802.7	2798.0	2801.6	2827.4	2830.9	2829.7	2829.7
7.5°	2808.6	2814.5	2834.4	2822.7	2843.8	2838.0	2839.1	2863.8	2868.5	2861.4	2859.1
10°	2855.6	2860.3	2888.5	2886.1	2894.3	2889.6	2884.9	2895.5	2893.2	2882.6	2877.9
12.5°	2909.6	2922.5	2954.2	2955.4	2965.9	2942.5	2917.8	2914.3	2907.2	2890.8	2887.3
15°	2990.6	3005.9	3054.0	3042.3	3035.2	2984.7	2943.6	2910.8	2882.6	2868.5	2855.6
17.5°	3106.8	3132.7	3199.6	3163.2	3111.5	3037.6	2965.9	2894.3	2834.4	2784.0	2764.0
20°	3254.8	3284.1	3340.5	3292.4	3213.7	3103.3	2987.1	2857.9	2727.6	2616.0	2599.6
22.5°	3430.9	3477.9	3519.0	3408.6	3292.4	3152.6	2987.1	2801.6	2585.5	2418.8	2377.7
25°	3636.4	3672.8	3659.9	3504.9	3337.0	3160.9	2954.2	2701.8	2396.5	2202.7	2169.9
27.5°	3859.5	3875.9	3776.1	3550.7	3341.7	3112.7	2861.4	2524.5	2175.7	2023.1	1991.4
30°	4134.2	4084.9	3894.7	3578.9	3294.7	3005.9	2695.9	2265.0	1996.1	1862.2	1825.8
32.5°	4430.1	4339.7	3979.3	3558.9	3191.4	2827.4	2439.9	2081.8	1876.3	1713.1	1682.6
35°	4993.7	4736.6	4102.5	3499.0	3011.7	2589.0	2192.2	1940.9	1749.5	1574.6	1546.4
37.5°	5754.6	5307.2	4275.1	3415.7	2799.2	2357.7	2007.8	1790.6	1625.0	1444.2	1399.6
40°	6346.4	5883.8	4552.2	3326.4	2603.1	2138.2	1874.0	1711.9	1542.9	1350.3	1311.5
42.5°	6910.0	6411.0	4892.8	3226.6	2401.2	1985.5	1815.3	1694.3	1520.5	1324.5	1288.1
45°	7407.8	6837.2	5186.3	3126.8	2173.4	1844.6	1771.8	1660.3	1488.8	1291.6	1256.4
47.5°	7810.6	7203.5	5441.1	3018.8	1966.7	1737.8	1715.5	1598.0	1427.8	1224.7	1182.4
50°	8174.6	7513.5	5617.2	2903.7	1764.8	1650.9	1622.7	1484.1	1306.8	1127.2	1100.2
52.5°	8398.8	7723.7	5722.9	2922.5	1573.4	1553.4	1507.6	1365.6	1201.2	1047.4	1012.1
55°	8633.7	7922.1	5721.7	2816.8	1413.7	1406.7	1363.2	1254.0	1124.9	995.7	974.6
57.5°	8729.9	7939.7	5614.9	2320.2	1272.8	1228.2	1218.8	1161.3	1048.5	926.4	902.9
60°	8794.5	7862.2	5412.9	1584.0	1095.5	1063.8	1109.6	1070.8	968.7	840.7	817.2
62.5°	8731.1	7777.7	4883.4	1143.6	960.5	978.1	1021.5	979.3	872.4	756.2	736.2
65°	8579.6	7454.8	3856.0	891.2	900.6	939.3	973.4	902.9	706.8	591.8	580.0
67.5°	8166.3	6840.7	2481.0	817.2	866.5	906.5	918.2	764.4	639.9	529.5	516.6
70°	7296.3	5491.6	955.8	770.3	832.5	850.1	802.0	701.0	588.3	493.2	481.4
72.5°	5707.6	3605.9	551.9	704.5	759.7	743.2	744.4	629.4	530.7	440.3	430.9
75°	3547.2	1305.7	490.8	627.0	643.4	674.0	635.2	546.0	456.8	402.7	391.0
77.5°	1173.0	371.0	454.4	540.1	576.5	554.2	531.9	466.1	391.0	348.7	342.9
80°	284.1	278.3	407.4	422.7	452.1	414.5	412.1	387.5	329.9	305.3	299.4
82.5°	175.0	199.6	324.1	263.0	301.8	305.3	347.6	319.4	240.7	250.1	241.9
85°	108.0	153.8	170.3	126.8	128.0	171.4	207.8	192.6	144.4	136.2	135.0
87.5°	36.4	31.7	36.4	27.0	36.4	62.2	93.9	89.2	59.9	41.1	38.7
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)