

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: P509973

Luminaire Tested: **VERD-M-CA3-180-727-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509973  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-180-727-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21606 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

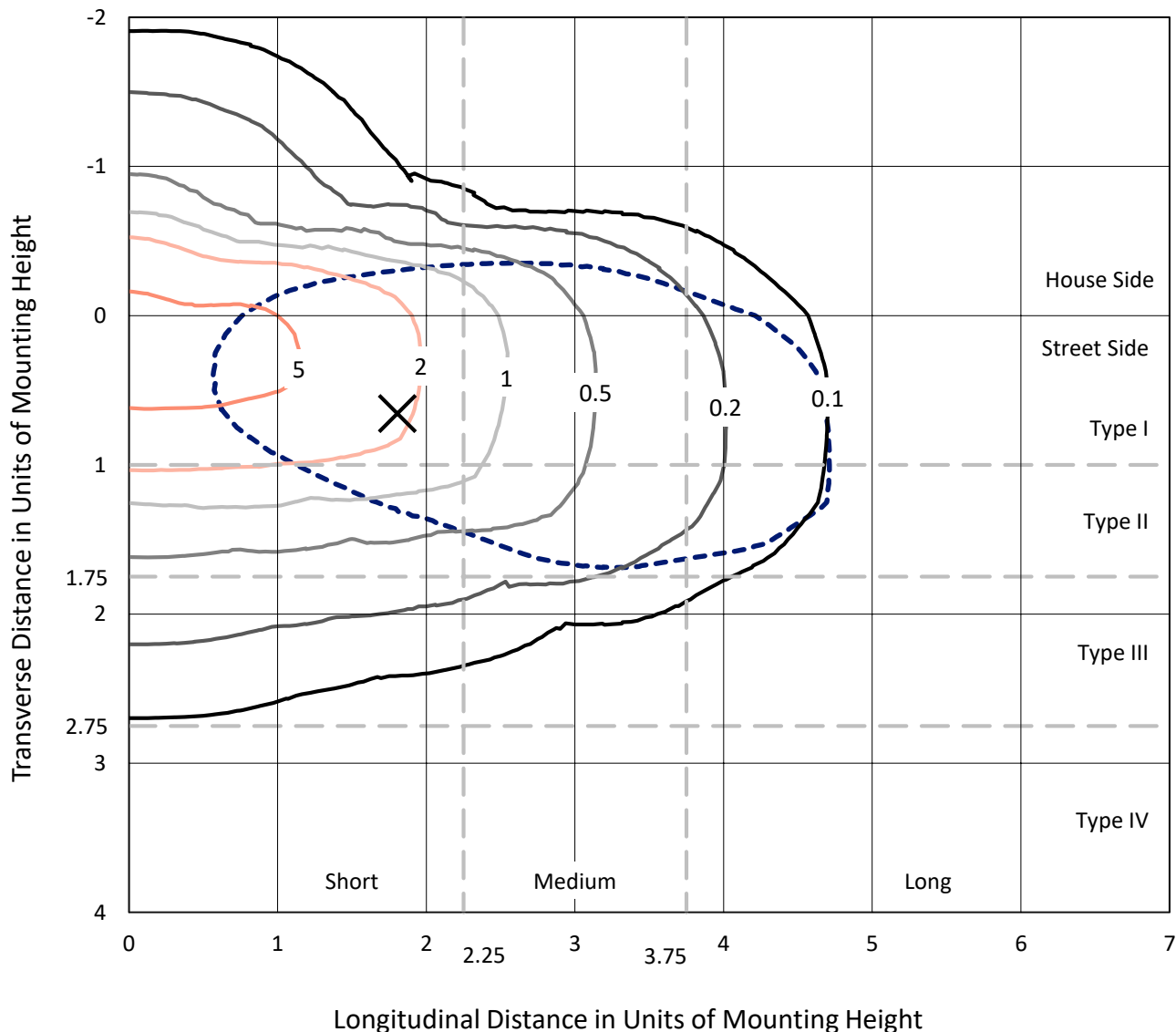
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

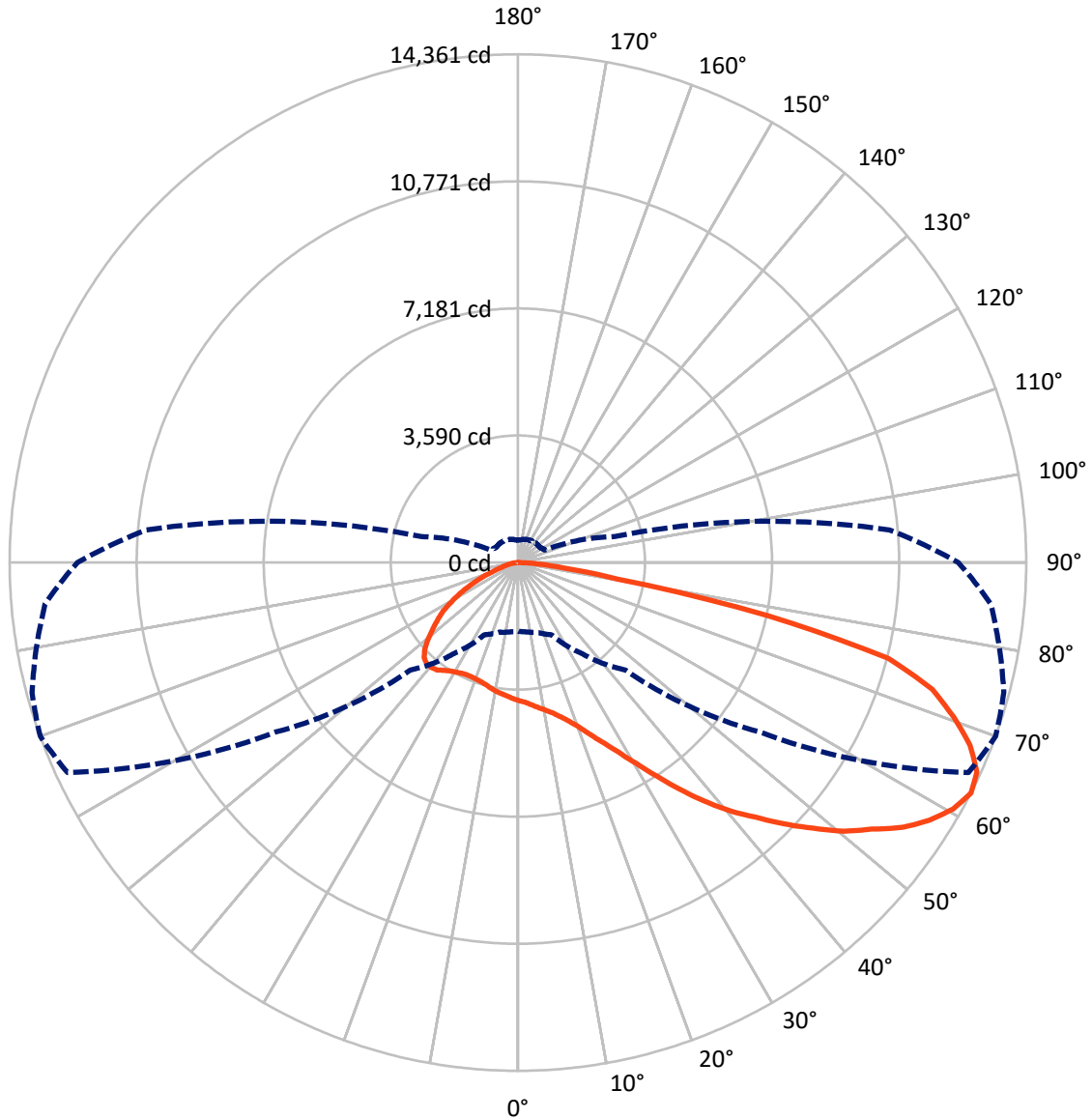
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	5593.9	0.0	5593.9
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	16012.1	0.0	16012.1
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	21606.0	0.0	21606.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.6	1.7
10°-20°	1137.5	5.3
20°-30°	1930.5	8.9
30°-40°	2793.3	12.9
40°-50°	3665.4	17.0
50°-60°	4283.0	19.8
60°-70°	4298.1	19.9
70°-80°	2738.8	12.7
80°-90°	384.9	1.8
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°	21606.0	100.0
0°-180°	21606.0	100.0

**Coefficient of Utilization**



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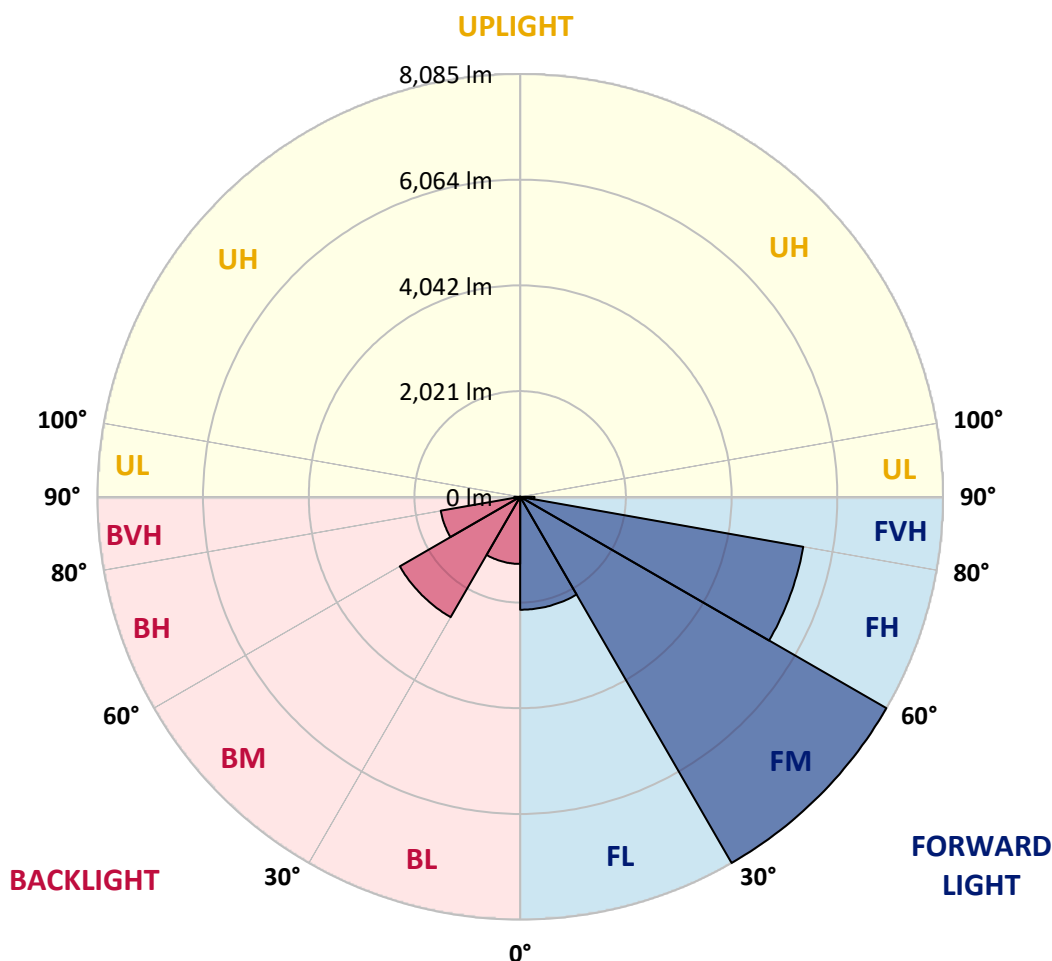
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.5	10.0			
FM (30°-60°)	8084.7	37.4			
FH (60°-80°)	5496.3	25.4			G3/7500
FVH (80°-90°)	271.5	1.3			G3/500
BL (0°-30°)	1282.9	5.9	B3/2500		
BM (30°-60°)	2657.0	12.3	B3/5000		
BH (60°-80°)	1540.6	7.1	B3/2500		G3/2500
BVH (80°-90°)	113.4	0.5			G2/225
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°	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6
2.5°	4049.0	4091.9	4086.1	4059.7	4078.3	4027.5	4008.9	3980.6	3951.3	3941.6	3925.0
5°	4240.3	4297.0	4286.2	4251.1	4250.1	4177.8	4136.8	4083.1	4038.2	4003.1	3951.3
7.5°	4419.0	4484.4	4474.7	4440.5	4438.5	4355.5	4270.6	4186.6	4134.9	4090.0	3995.3
10°	4608.4	4658.2	4649.4	4605.5	4596.7	4515.7	4416.1	4310.6	4234.5	4172.0	4037.3
12.5°	4783.2	4835.9	4839.8	4785.1	4771.5	4684.6	4597.7	4458.1	4359.5	4288.2	4090.0
15°	4946.2	5008.7	4997.0	4942.3	4927.7	4839.8	4754.9	4626.0	4523.5	4423.9	4175.9
17.5°	5077.1	5136.6	5122.0	5097.6	5089.8	5021.4	4951.1	4811.5	4720.7	4592.8	4308.7
20°	5166.9	5222.6	5228.4	5221.6	5266.5	5202.0	5163.0	5064.4	4964.8	4849.6	4490.3
22.5°	5202.0	5268.4	5325.1	5369.0	5461.8	5452.0	5445.2	5388.5	5290.9	5123.0	4730.5
25°	5212.8	5279.2	5367.1	5475.4	5641.4	5701.0	5743.9	5757.6	5651.2	5518.4	5029.2
27.5°	5214.7	5286.0	5375.8	5550.6	5803.5	5983.1	6085.7	6133.5	6073.9	5968.5	5435.4
30°	5173.7	5247.0	5362.2	5595.5	5930.4	6225.3	6395.2	6607.0	6581.6	6492.8	5944.1
32.5°	5055.6	5122.0	5281.1	5587.7	6056.4	6473.3	6737.9	7105.0	7190.9	7133.3	6530.9
35°	4843.7	4924.8	5130.8	5523.3	6124.7	6714.4	7141.1	7712.3	7867.5	7871.4	7250.5
37.5°	4629.9	4691.4	4933.6	5402.2	6162.8	6928.3	7523.8	8320.5	8546.1	8551.0	7849.0
40°	4402.4	4459.0	4725.6	5240.1	6123.7	7096.2	7880.2	8905.4	9228.6	9198.3	8436.7
42.5°	4107.5	4170.0	4434.6	5019.5	6026.1	7226.0	8242.4	9519.5	9830.0	9864.2	9049.9
45°	3855.6	3905.4	4136.8	4674.8	5847.4	7296.3	8582.2	10174.7	10530.1	10493.9	9704.0
47.5°	3545.2	3619.4	3866.4	4394.6	5526.2	7278.8	8907.3	10823.0	11218.4	11185.2	10271.3
50°	2734.8	2820.7	3394.8	4100.7	5116.1	7141.1	9202.2	11442.9	11934.1	11847.2	10871.8
52.5°	2483.9	2508.3	2736.7	3762.9	4711.9	6828.7	9419.0	12226.0	12516.9	12482.8	11480.0
55°	2330.6	2377.4	2481.9	3099.9	4348.7	6321.0	9569.3	12880.2	13208.2	13048.1	12030.7
57.5°	2195.8	2229.0	2353.0	2653.7	3930.8	5621.9	9525.4	13431.8	13724.7	13501.1	12568.7
60°	2052.3	2073.8	2197.8	2422.4	3479.7	4849.6	9079.2	14001.0	14130.9	13925.8	13023.7
62.5°	1941.0	1961.5	2035.7	2251.5	3128.3	4297.0	8348.9	14041.0	14361.3	14211.9	13410.3
65°	1798.5	1812.1	1904.9	2074.8	2802.2	3967.9	7705.4	13665.1	14250.0	14212.9	13558.7
67.5°	1641.3	1657.9	1745.7	1865.8	2385.2	3580.3	6629.5	13462.1	13779.4	13815.5	13280.5
70°	1456.7	1468.4	1559.2	1646.1	2040.6	3142.9	5270.4	12683.9	13053.9	13053.0	12421.3
72.5°	1257.6	1256.6	1346.4	1438.2	1709.6	2640.1	4126.1	11261.3	12240.6	12167.4	11198.9
75°	1036.9	1051.5	1138.4	1210.7	1422.6	2140.2	2873.4	8157.5	10806.4	10906.9	9665.0
77.5°	662.9	672.7	721.5	795.7	994.9	1635.4	1874.6	4533.2	7215.3	8703.3	7607.8
80°	484.3	489.2	532.1	575.1	662.0	995.9	952.9	1970.3	2859.8	4272.6	4667.0
82.5°	330.0	331.0	365.2	374.9	379.8	449.1	452.1	958.8	1362.0	1604.2	2061.1
85°	218.7	181.6	141.6	187.5	192.3	165.0	161.1	432.5	675.6	810.4	763.5
87.5°	48.8	47.8	55.7	56.6	54.7	46.9	39.1	66.4	101.5	100.6	128.9
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°	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6
2.5°	3909.3	3904.5	3877.1	3819.5	3780.5	3740.4	3718.0	3704.3	3709.2	3686.7	3677.0
5°	3919.1	3894.7	3817.6	3749.2	3687.7	3618.4	3560.8	3553.0	3564.7	3544.2	3532.5
7.5°	3944.5	3892.8	3794.1	3677.0	3574.5	3509.0	3426.0	3384.1	3381.1	3360.6	3364.5
10°	3959.1	3891.8	3760.0	3618.4	3498.3	3382.1	3293.3	3246.4	3243.5	3214.2	3207.3
12.5°	3999.2	3902.5	3719.9	3547.1	3413.4	3258.1	3164.4	3121.4	3116.5	3075.5	3059.9
15°	4060.7	3926.9	3678.0	3464.1	3291.3	3145.8	3033.6	2975.9	2967.2	2919.3	2902.7
17.5°	4158.3	3996.2	3665.3	3388.9	3184.9	3025.7	2893.9	2831.4	2780.7	2754.3	2731.9
20°	4290.1	4082.2	3679.9	3318.7	3051.1	2867.6	2703.5	2621.5	2586.4	2543.4	2546.3
22.5°	4477.6	4216.9	3705.3	3264.0	2930.1	2698.7	2514.1	2422.4	2358.9	2322.8	2324.7
25°	4741.2	4420.0	3755.1	3212.2	2798.2	2514.1	2296.4	2168.5	2104.1	2080.6	2056.2
27.5°	5074.1	4663.1	3873.2	3148.8	2642.0	2305.2	2064.0	1914.6	1849.2	1814.1	1809.2
30°	5501.8	4982.4	4011.9	3101.9	2478.0	2044.5	1776.0	1657.9	1600.3	1550.5	1527.0
32.5°	6023.2	5433.4	4166.1	3055.0	2274.9	1752.6	1509.5	1418.7	1326.9	1263.4	1266.3
35°	6628.5	5924.6	4395.6	2995.5	2036.7	1480.2	1312.2	1195.1	1109.1	1067.2	1047.6
37.5°	7199.7	6428.4	4665.1	2934.9	1770.1	1303.4	1117.9	1009.6	943.2	910.9	917.8
40°	7777.7	6947.8	4897.4	2786.5	1471.4	1143.3	925.6	864.1	837.7	812.3	815.3
42.5°	8295.2	7361.8	5067.3	2621.5	1262.4	959.8	788.9	802.6	818.2	803.5	799.6
45°	8834.1	7846.0	5216.7	2340.3	1087.7	815.3	754.7	792.8	827.0	825.0	820.1
47.5°	9375.0	8295.2	5231.3	1967.4	928.5	766.4	753.8	782.1	827.0	834.8	828.9
50°	9932.5	8765.8	5145.4	1528.0	861.2	772.3	754.7	759.6	809.4	818.2	815.3
52.5°	10550.6	9274.5	4933.6	1161.9	834.8	782.1	757.7	750.8	779.1	794.8	797.7
55°	11118.8	9678.7	4536.2	1026.2	815.3	783.0	779.1	756.7	757.7	749.8	769.4
57.5°	11596.2	10064.3	4085.1	952.0	797.7	774.3	788.9	746.9	735.2	703.0	695.2
60°	12090.3	10377.7	3450.5	901.2	777.2	763.5	764.5	730.3	701.0	654.2	640.5
62.5°	12440.8	10543.7	2834.4	841.6	748.9	746.9	732.3	706.9	680.5	639.5	633.7
65°	12542.3	10455.8	2177.3	779.1	711.8	719.6	693.2	658.1	548.7	497.9	497.9
67.5°	12206.5	9914.9	1612.0	706.9	666.9	682.5	630.7	518.4	461.8	431.6	436.4
70°	11285.8	9041.1	1049.6	601.4	602.4	615.1	520.4	466.7	413.0	394.4	404.2
72.5°	10055.5	7745.5	692.2	479.4	507.7	486.2	475.5	429.6	381.8	360.3	367.1
75°	8286.4	6115.9	480.4	376.9	329.0	415.0	422.8	361.3	324.2	393.5	409.1
77.5°	6546.5	4251.1	396.4	263.6	243.1	306.6	338.8	334.9	536.0	629.8	622.9
80°	3892.8	2447.7	323.2	182.6	171.8	197.2	266.5	384.7	600.5	451.1	429.6
82.5°	1765.3	1113.1	171.8	95.7	112.3	130.8	199.2	478.4	393.5	289.0	272.4
85°	689.3	363.2	68.3	42.0	39.1	48.8	90.8	230.4	158.2	127.9	127.9
87.5°	88.8	65.4	19.5	14.6	12.7	15.6	29.3	127.9	74.2	62.5	60.5
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)