

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: P509917

Luminaire Tested: **VERD-M-CA3-170-722-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509917  
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-CA3-170-722-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1060mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19912 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

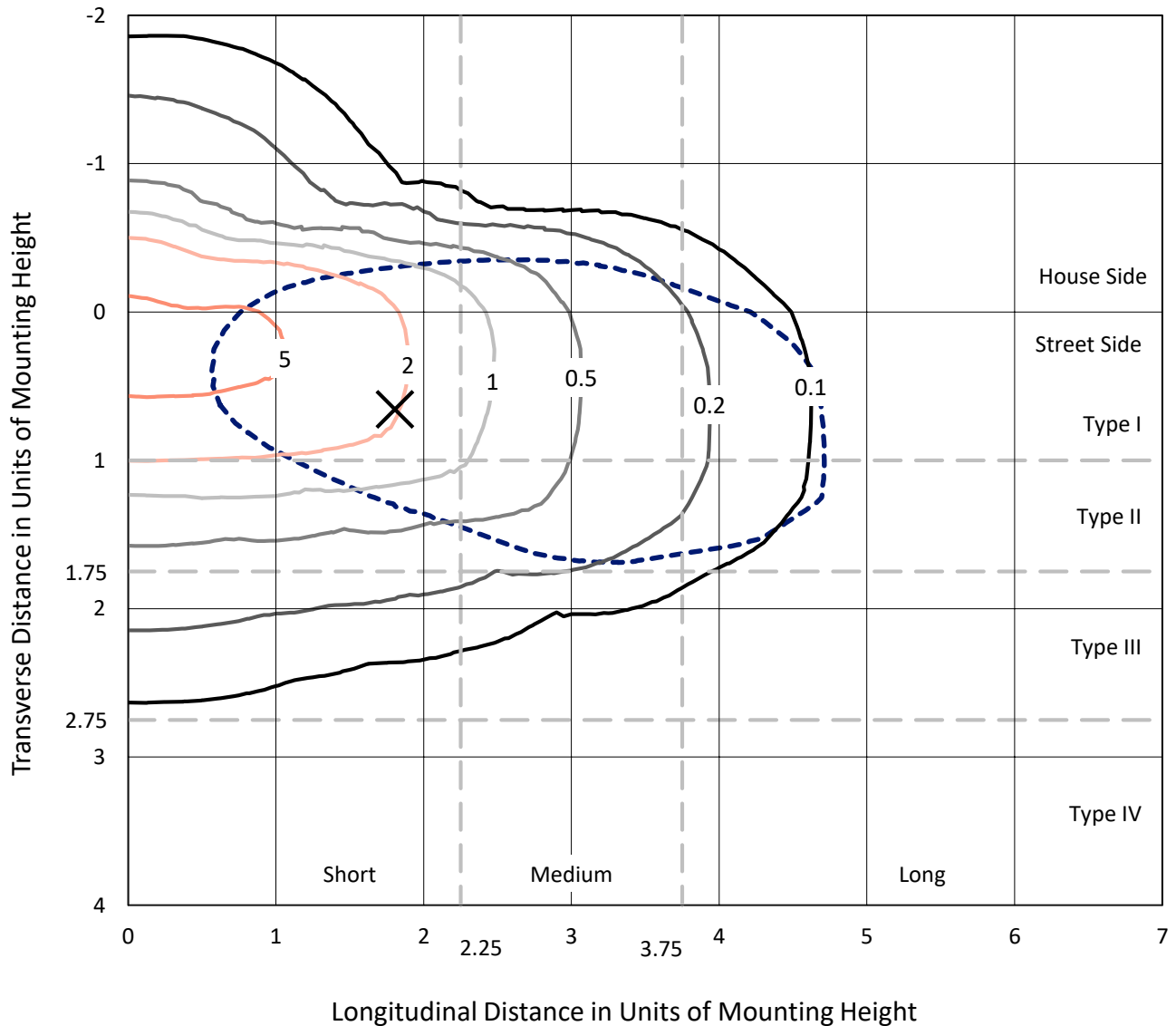
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

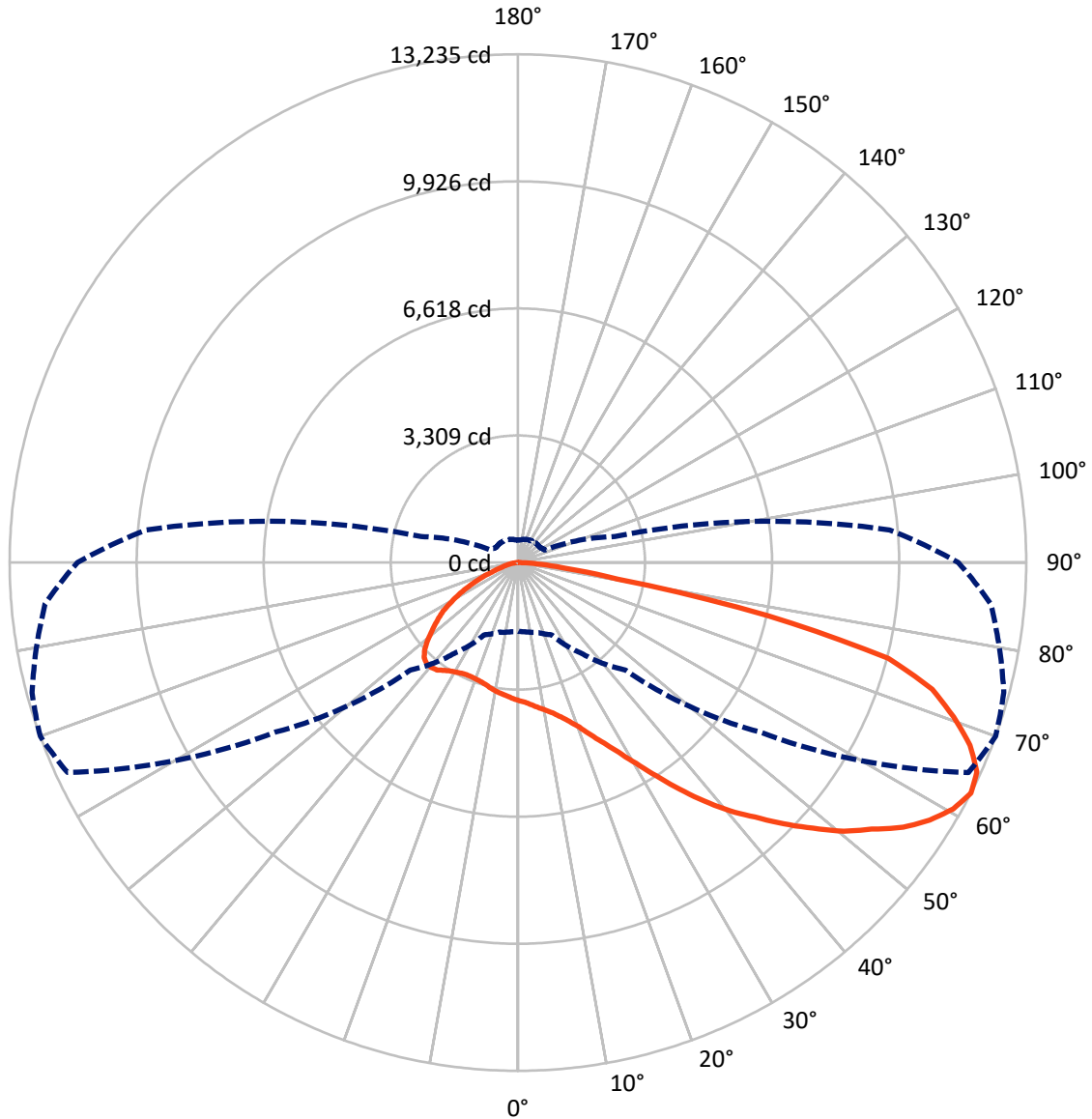
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	5155.3	0.0	5155.3
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	14756.7	0.0	14756.7
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	19912.0	0.0	19912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.2	1.7
10°-20°	1048.3	5.3
20°-30°	1779.1	8.9
30°-40°	2574.3	12.9
40°-50°	3378.0	17.0
50°-60°	3947.2	19.8
60°-70°	3961.2	19.9
70°-80°	2524.1	12.7
80°-90°	354.7	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°	19912.0	100.0
0°-180°	19912.0	100.0

**Coefficient of Utilization**



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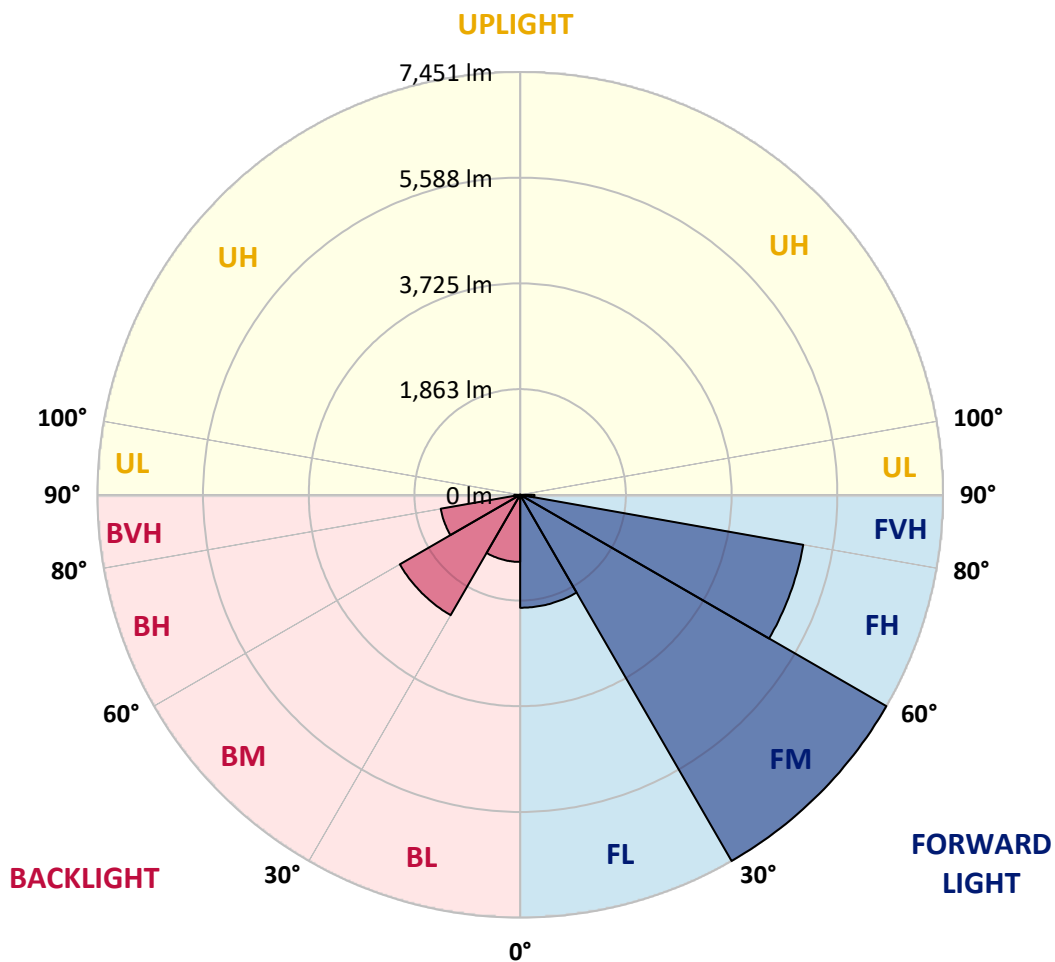
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.2	10.0			
FM (30°-60°)	7450.9	37.4			
FH (60°-80°)	5065.4	25.4			G3/7500
FVH (80°-90°)	250.2	1.3			G3/500
BL (0°-30°)	1182.4	5.9	B3/2500		
BM (30°-60°)	2448.6	12.3	B2/2500		
BH (60°-80°)	1419.8	7.1	B3/2500		G3/2500
BVH (80°-90°)	104.5	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°	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8
2.5°	3731.5	3771.1	3765.7	3741.4	3758.5	3711.7	3694.6	3668.5	3641.5	3632.5	3617.2
5°	3907.9	3960.1	3950.2	3917.8	3916.9	3850.3	3812.5	3763.0	3721.6	3689.2	3641.5
7.5°	4072.5	4132.8	4123.8	4092.3	4090.5	4014.1	3935.8	3858.4	3810.7	3769.3	3682.0
10°	4247.1	4293.0	4284.9	4244.4	4236.3	4161.6	4069.8	3972.7	3902.5	3844.9	3720.7
12.5°	4408.2	4456.8	4460.4	4410.0	4397.4	4317.3	4237.2	4108.5	4017.7	3952.0	3769.3
15°	4558.4	4616.0	4605.2	4554.8	4541.3	4460.4	4382.1	4263.3	4168.8	4077.0	3848.5
17.5°	4679.0	4733.9	4720.4	4697.9	4690.7	4627.7	4562.9	4434.3	4350.6	4232.7	3970.9
20°	4761.8	4813.1	4818.5	4812.2	4853.6	4794.2	4758.2	4667.3	4575.5	4469.4	4138.2
22.5°	4794.2	4855.4	4907.6	4948.1	5033.5	5024.5	5018.2	4966.1	4876.1	4721.3	4359.6
25°	4804.1	4865.3	4946.3	5046.1	5199.1	5254.0	5293.6	5306.2	5208.1	5085.7	4634.9
27.5°	4805.9	4871.6	4954.4	5115.4	5348.5	5514.0	5608.5	5652.6	5597.7	5500.5	5009.2
30°	4768.1	4835.6	4941.8	5156.8	5465.4	5737.2	5893.8	6089.0	6065.6	5983.7	5478.0
32.5°	4659.2	4720.4	4867.1	5149.6	5581.5	5965.7	6209.6	6547.9	6627.1	6574.0	6018.8
35°	4464.0	4538.6	4728.5	5090.2	5644.5	6188.0	6581.2	7107.6	7250.7	7254.3	6682.0
37.5°	4266.9	4323.6	4546.7	4978.6	5679.6	6385.1	6933.9	7668.2	7876.0	7880.5	7233.6
40°	4057.2	4109.4	4355.1	4829.3	5643.6	6539.8	7262.4	8207.2	8505.0	8477.1	7775.3
42.5°	3785.5	3843.1	4086.9	4625.9	5553.6	6659.5	7596.2	8773.1	9059.3	9090.8	8340.3
45°	3553.3	3599.2	3812.5	4308.3	5389.0	6724.3	7909.3	9376.9	9704.5	9671.2	8943.2
47.5°	3267.2	3335.6	3563.2	4050.0	5092.9	6708.1	8209.0	9974.4	10338.8	10308.2	9466.0
50°	2520.4	2599.6	3128.6	3779.2	4715.0	6581.2	8480.7	10545.8	10998.4	10918.3	10019.4
52.5°	2289.1	2311.6	2522.2	3467.9	4342.5	6293.3	8680.5	11267.4	11535.6	11504.1	10580.0
55°	2147.8	2191.0	2287.3	2856.9	4007.8	5825.4	8819.0	11870.3	12172.6	12025.1	11087.5
57.5°	2023.7	2054.3	2168.5	2445.7	3622.6	5181.1	8778.5	12378.7	12648.6	12442.6	11583.3
60°	1891.4	1911.2	2025.5	2232.4	3206.9	4469.4	8367.3	12903.3	13022.9	12834.0	12002.6
62.5°	1788.8	1807.7	1876.1	2075.0	2883.0	3960.1	7694.3	12940.2	13235.3	13097.6	12358.9
65°	1657.5	1670.0	1755.5	1912.1	2582.5	3656.8	7101.3	12593.7	13132.7	13098.5	12495.7
67.5°	1512.6	1527.9	1608.9	1719.5	2198.2	3299.6	6109.7	12406.6	12699.0	12732.3	12239.2
70°	1342.5	1353.3	1437.0	1517.1	1880.6	2896.5	4857.2	11689.4	12030.5	12029.6	11447.4
72.5°	1159.0	1158.1	1240.8	1325.4	1575.6	2433.1	3802.6	10378.4	11280.9	11213.4	10320.8
75°	955.6	969.1	1049.2	1115.8	1311.0	1972.4	2648.1	7517.9	9959.1	10051.8	8907.2
77.5°	611.0	620.0	665.0	733.3	916.9	1507.2	1727.6	4177.8	6649.6	8020.9	7011.3
80°	446.3	450.8	490.4	530.0	610.1	917.8	878.2	1815.8	2635.5	3937.6	4301.1
82.5°	304.1	305.0	336.5	345.5	350.0	413.9	416.6	883.6	1255.2	1478.4	1899.5
85°	201.6	167.4	130.5	172.8	177.3	152.1	148.5	398.6	622.7	746.8	703.7
87.5°	45.0	44.1	51.3	52.2	50.4	43.2	36.0	61.2	93.6	92.7	118.8
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°	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8	3593.8
2.5°	3602.8	3598.3	3573.1	3520.1	3484.1	3447.2	3426.5	3413.9	3418.4	3397.7	3388.7
5°	3611.8	3589.3	3518.3	3455.3	3398.6	3334.7	3281.6	3274.4	3285.2	3266.3	3255.5
7.5°	3635.2	3587.5	3496.7	3388.7	3294.2	3233.9	3157.4	3118.7	3116.0	3097.1	3100.7
10°	3648.7	3586.6	3465.2	3334.7	3224.0	3116.9	3035.1	2991.9	2989.2	2962.2	2955.9
12.5°	3685.6	3596.5	3428.3	3269.0	3145.7	3002.7	2916.3	2876.7	2872.2	2834.4	2820.0
15°	3742.3	3619.0	3389.6	3192.5	3033.3	2899.2	2795.7	2742.6	2734.5	2690.4	2675.1
17.5°	3832.3	3682.9	3377.9	3123.2	2935.2	2788.5	2667.0	2609.4	2562.7	2538.4	2517.7
20°	3953.8	3762.1	3391.4	3058.5	2811.9	2642.7	2491.6	2416.0	2383.6	2344.0	2346.7
22.5°	4126.5	3886.3	3414.8	3008.1	2700.3	2487.1	2317.0	2232.4	2173.9	2140.6	2142.4
25°	4369.5	4073.4	3460.7	2960.4	2578.9	2317.0	2116.4	1998.5	1939.1	1917.5	1895.0
27.5°	4676.3	4297.5	3569.5	2901.9	2434.9	2124.5	1902.2	1764.5	1704.2	1671.8	1667.3
30°	5070.4	4591.7	3697.3	2858.7	2283.7	1884.2	1636.8	1527.9	1474.8	1428.9	1407.3
32.5°	5550.9	5007.4	3839.5	2815.5	2096.6	1615.2	1391.1	1307.4	1222.8	1164.4	1167.1
35°	6108.8	5460.0	4050.9	2760.6	1877.0	1364.1	1209.3	1101.4	1022.2	983.5	965.5
37.5°	6635.2	5924.3	4299.3	2704.8	1631.4	1201.2	1030.3	930.4	869.2	839.5	845.8
40°	7167.9	6403.0	4513.4	2568.1	1356.0	1053.7	853.0	796.3	772.0	748.6	751.3
42.5°	7644.8	6784.6	4670.0	2416.0	1163.5	884.5	727.0	739.6	754.0	740.5	736.9
45°	8141.5	7230.9	4807.7	2156.8	1002.4	751.3	695.6	730.6	762.1	760.3	755.8
47.5°	8640.0	7644.8	4821.2	1813.1	855.7	706.4	694.7	720.7	762.1	769.3	763.9
50°	9153.8	8078.5	4742.0	1408.2	793.6	711.7	695.6	700.1	745.9	754.0	751.3
52.5°	9723.3	8547.3	4546.7	1070.8	769.3	720.7	698.3	692.0	718.0	732.4	735.1
55°	10247.0	8919.8	4180.5	945.7	751.3	721.6	718.0	697.4	698.3	691.1	709.1
57.5°	10687.0	9275.2	3764.8	877.3	735.1	713.5	727.0	688.4	677.6	647.9	640.7
60°	11142.3	9564.1	3179.9	830.5	716.2	703.7	704.6	673.1	646.1	602.9	590.3
62.5°	11465.4	9717.0	2612.1	775.6	690.2	688.4	674.9	651.5	627.2	589.4	584.0
65°	11559.0	9636.1	2006.6	718.0	656.0	663.2	638.9	606.5	505.7	458.9	458.9
67.5°	11249.4	9137.6	1485.6	651.5	614.6	629.0	581.3	477.8	425.6	397.7	402.2
70°	10400.9	8332.2	967.3	554.3	555.2	566.9	479.6	430.1	380.6	363.5	372.5
72.5°	9267.1	7138.2	638.0	441.8	467.9	448.1	438.2	395.9	351.8	332.0	338.3
75°	7636.7	5636.4	442.7	347.3	303.2	382.4	389.6	332.9	298.7	362.6	377.0
77.5°	6033.2	3917.8	365.3	242.9	224.1	282.5	312.2	308.6	494.0	580.4	574.1
80°	3587.5	2255.8	297.8	168.3	158.4	181.8	245.6	354.5	553.4	415.7	395.9
82.5°	1626.9	1025.8	158.4	88.2	103.5	120.6	183.6	440.9	362.6	266.3	251.0
85°	635.3	334.7	63.0	38.7	36.0	45.0	83.7	212.4	145.8	117.9	117.9
87.5°	81.9	60.3	18.0	13.5	11.7	14.4	27.0	117.9	68.4	57.6	55.8
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)