

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: P510060

Luminaire Tested: **VERD-M-CA4-200-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-722-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 910mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21451 lumens
Efficiency: N/A
Efficacy: 106.3 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

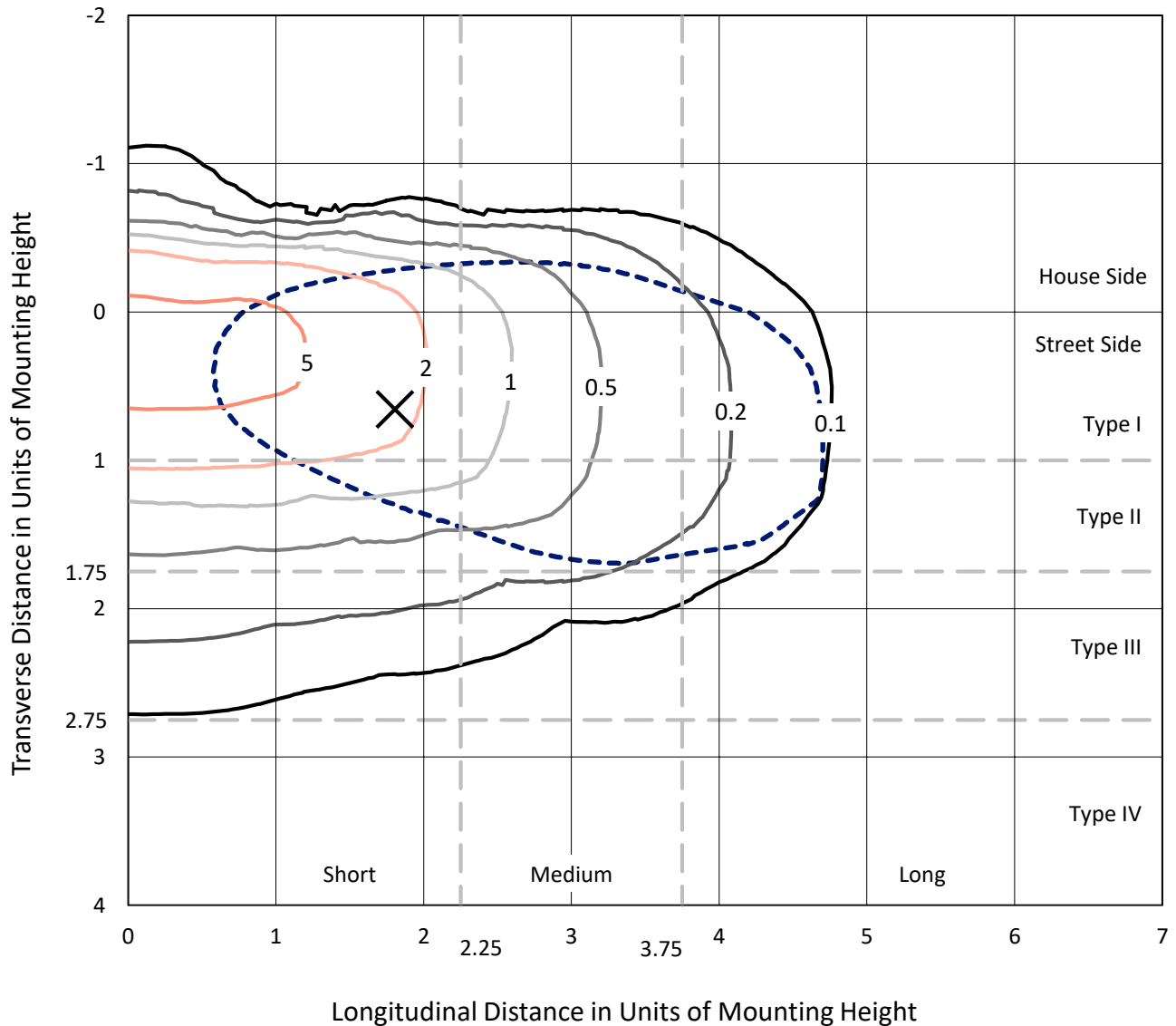
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

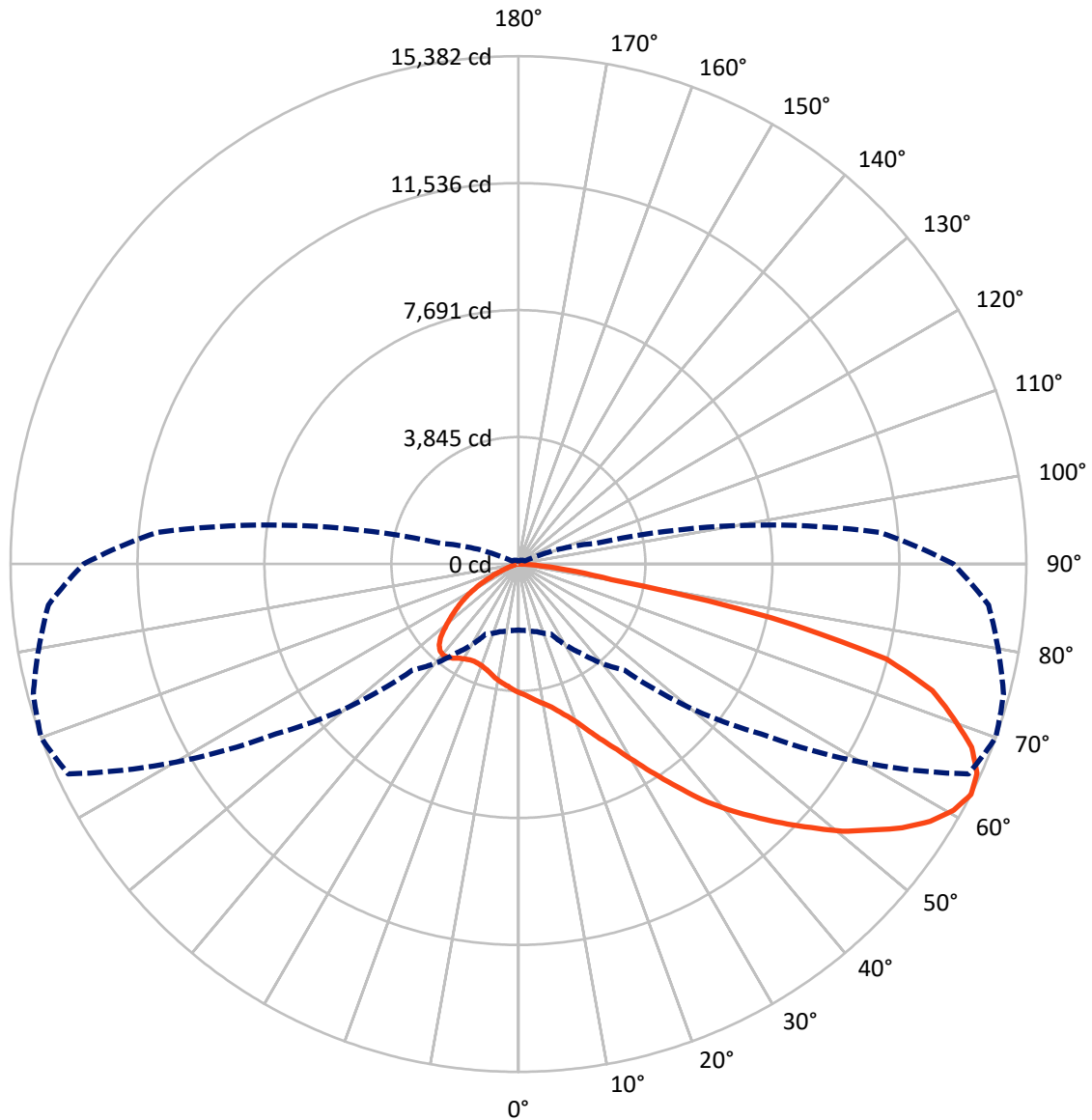
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	4510.9	0.0	4510.9
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	16940.1	0.0	16940.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	21451.0	0.0	21451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.3	1.7
10°-20°	1105.0	5.2
20°-30°	1873.2	8.7
30°-40°	2754.7	12.8
40°-50°	3668.3	17.1
50°-60°	4291.2	20.0
60°-70°	4315.9	20.1
70°-80°	2732.1	12.7
80°-90°	340.4	1.6
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°	21451.0	100.0
0°-180°	21451.0	100.0

Coefficient of Utilization



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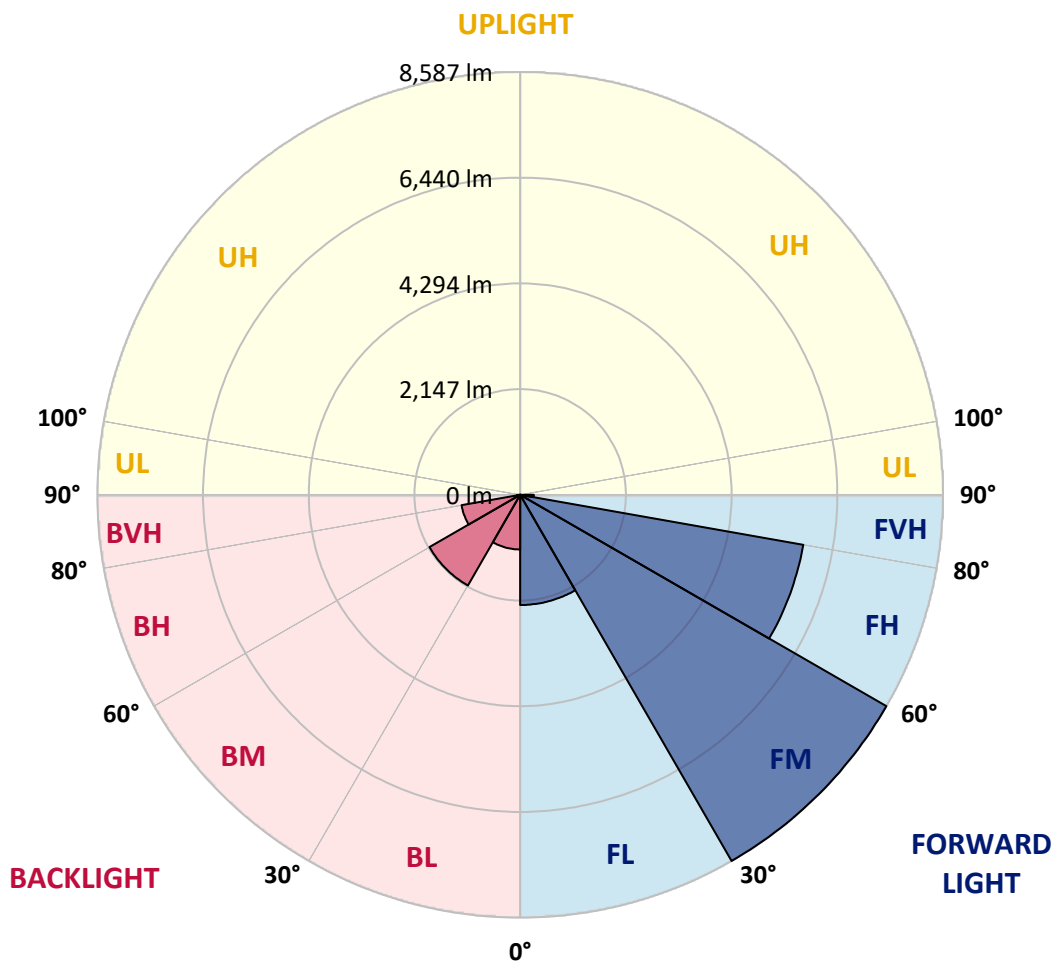
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2237.8	10.4			
FM	(30°-60°)	8587.2	40.0			
FH	(60°-80°)	5839.0	27.2			G3/7500
FVH	(80°-90°)	276.1	1.3			G3/500
BL	(0°-30°)	1110.6	5.2	B3/2500		
BM	(30°-60°)	2127.0	9.9	B2/2500		
BH	(60°-80°)	1209.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	64.4	0.3			G1/100
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°	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7
2.5°	4113.7	4149.8	4122.2	4111.6	4120.1	4077.7	4043.8	3995.1	3971.8	3954.8	3927.3
5°	4322.5	4381.8	4345.8	4323.5	4320.3	4243.0	4197.4	4130.7	4078.8	4033.2	3963.3
7.5°	4542.8	4577.8	4564.0	4538.6	4521.6	4427.3	4346.8	4252.5	4195.3	4134.9	4017.3
10°	4735.6	4778.0	4764.2	4718.7	4702.8	4606.4	4514.2	4386.0	4307.6	4232.4	4070.3
12.5°	4934.8	4982.5	4953.9	4908.3	4894.5	4797.1	4701.7	4546.0	4448.5	4363.8	4139.2
15°	5118.1	5161.5	5141.4	5089.5	5075.7	4993.1	4888.2	4743.0	4637.1	4524.8	4236.6
17.5°	5264.3	5307.7	5282.3	5257.9	5253.7	5172.1	5109.6	4961.3	4860.6	4708.1	4386.0
20°	5371.3	5415.8	5403.1	5414.7	5459.2	5398.8	5360.7	5235.7	5132.9	4967.6	4601.1
22.5°	5456.0	5513.2	5564.1	5587.4	5670.0	5665.8	5657.3	5583.2	5502.7	5331.0	4857.5
25°	5464.5	5530.2	5630.8	5740.0	5890.4	5962.4	6015.4	6003.8	5909.5	5740.0	5212.4
27.5°	5477.2	5545.0	5648.9	5836.4	6105.5	6273.9	6361.8	6415.9	6360.8	6247.4	5616.0
30°	5449.7	5519.6	5649.9	5889.3	6252.7	6565.3	6722.1	6922.3	6928.6	6833.3	6225.2
32.5°	5324.7	5416.8	5574.7	5895.7	6395.7	6869.3	7110.9	7495.4	7579.1	7508.1	6853.4
35°	5116.0	5199.7	5425.3	5839.5	6482.6	7122.5	7564.3	8163.9	8287.9	8283.6	7592.9
37.5°	4885.0	4969.8	5224.0	5707.1	6538.8	7348.2	7963.7	8827.1	9074.0	9022.1	8291.1
40°	4629.7	4718.7	5012.1	5540.8	6511.2	7549.5	8386.4	9470.2	9776.4	9782.7	8958.5
42.5°	4333.0	4406.1	4700.7	5310.9	6420.1	7697.8	8779.5	10147.2	10469.2	10451.2	9587.8
45°	4049.1	4125.4	4382.8	4954.9	6209.3	7780.4	9165.1	10832.6	11185.4	11128.2	10287.0
47.5°	3705.9	3815.0	4108.4	4656.2	5884.0	7774.1	9502.0	11534.0	11930.2	11883.6	10890.9
50°	2852.0	2916.6	3580.9	4347.9	5443.3	7625.7	9831.5	12222.6	12723.7	12632.6	11535.0
52.5°	2569.1	2627.4	2841.4	3978.1	5042.9	7304.7	10105.9	13010.8	13385.8	13314.9	12192.9
55°	2428.2	2460.0	2590.3	3281.0	4651.9	6783.5	10289.1	13711.1	14100.9	13944.1	12808.4
57.5°	2251.3	2290.5	2442.0	2802.2	4171.0	5983.6	10246.8	14342.5	14702.7	14462.2	13350.9
60°	2115.7	2145.3	2287.3	2522.5	3674.1	5155.2	9813.5	14962.3	15143.4	14906.1	13891.2
62.5°	2001.3	2018.2	2117.8	2341.3	3295.9	4550.2	8968.0	15044.9	15381.8	15210.2	14293.8
65°	1859.3	1863.5	1981.1	2155.9	2946.3	4186.8	8242.3	14621.1	15263.1	15205.9	14438.9
67.5°	1693.0	1701.4	1820.1	1953.6	2525.7	3800.2	7111.9	14393.3	14802.3	14766.3	14151.8
70°	1484.3	1501.2	1610.3	1712.0	2139.0	3336.1	5660.5	13492.8	13978.1	13925.1	13205.7
72.5°	1283.0	1273.4	1375.1	1475.8	1782.0	2785.2	4290.7	11942.9	13111.4	13060.6	11976.8
75°	1054.1	1047.8	1152.7	1248.0	1460.9	2250.2	3018.3	8832.4	11520.2	11677.0	10327.3
77.5°	649.4	654.7	715.1	778.7	989.5	1681.3	1926.0	4913.6	7826.0	9280.6	8104.6
80°	470.4	470.4	514.9	553.0	654.7	1024.5	958.8	2048.9	2860.4	4479.2	5054.5
82.5°	305.1	292.4	319.9	352.8	364.4	443.9	438.6	1027.6	1457.8	1754.4	2105.1
85°	158.9	175.9	105.9	149.4	157.9	147.3	151.5	482.0	647.3	829.5	913.2
87.5°	24.4	19.1	25.4	35.0	40.3	33.9	29.7	56.1	86.9	115.5	136.7
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°	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7	3899.7
2.5°	3909.3	3904.0	3855.2	3784.3	3726.0	3677.3	3645.5	3624.3	3647.6	3605.2	3599.9
5°	3919.9	3883.9	3777.9	3676.2	3597.8	3492.9	3421.9	3374.3	3393.3	3356.3	3341.4
7.5°	3948.5	3882.8	3736.6	3574.5	3426.2	3313.9	3204.8	3099.9	3084.0	3060.7	3061.7
10°	3973.9	3879.6	3688.9	3477.0	3304.3	3106.2	2974.9	2866.8	2842.4	2814.9	2801.1
12.5°	4014.2	3887.0	3629.6	3373.2	3142.3	2913.4	2771.5	2644.3	2620.0	2565.9	2554.3
15°	4094.7	3913.5	3571.3	3245.0	2960.0	2729.1	2545.8	2434.6	2390.1	2329.7	2328.6
17.5°	4199.6	3990.9	3541.7	3124.2	2805.4	2546.9	2353.0	2240.7	2165.5	2129.4	2119.9
20°	4348.9	4091.5	3540.6	3015.1	2644.3	2351.9	2129.4	2002.3	1938.7	1909.1	1891.1
22.5°	4578.8	4239.8	3559.7	2938.8	2482.2	2163.3	1941.9	1767.1	1662.2	1580.7	1592.3
25°	4864.9	4462.3	3603.1	2868.9	2341.3	1983.2	1705.7	1463.1	1275.5	1194.0	1200.3
27.5°	5228.3	4728.2	3715.4	2797.9	2181.4	1789.4	1397.4	1089.1	947.1	851.8	859.2
30°	5693.3	5058.8	3862.7	2742.9	2033.0	1518.2	1052.0	803.0	678.0	599.6	592.2
32.5°	6249.5	5537.6	4023.7	2705.8	1870.9	1179.1	758.5	589.0	467.2	422.7	429.1
35°	6938.2	6075.8	4269.5	2651.7	1593.4	839.1	541.4	398.3	335.8	327.4	328.4
37.5°	7566.4	6626.7	4513.1	2560.6	1257.5	596.5	367.6	303.0	289.2	286.0	290.3
40°	8181.9	7128.9	4733.5	2428.2	864.5	408.9	270.2	273.3	261.7	253.2	249.0
42.5°	8758.3	7613.0	4906.2	2184.5	591.2	270.2	239.4	249.0	246.8	229.9	222.5
45°	9380.1	8124.7	5001.5	1843.4	371.9	229.9	215.1	232.0	242.6	223.5	215.1
47.5°	9910.9	8623.7	4997.3	1412.2	252.1	217.2	202.4	217.2	229.9	216.1	208.7
50°	10523.3	9036.9	4861.7	896.3	223.5	201.3	193.9	199.2	216.1	206.6	199.2
52.5°	11203.4	9602.6	4656.2	500.0	211.9	190.7	180.1	186.5	201.3	189.6	193.9
55°	11767.0	10072.0	4173.1	341.1	206.6	178.0	171.6	175.9	182.2	170.6	176.9
57.5°	12270.3	10459.7	3684.7	279.7	199.2	169.5	168.4	160.0	158.9	151.5	145.1
60°	12779.8	10765.9	3025.7	253.2	191.8	170.6	152.6	140.9	131.4	124.0	120.8
62.5°	13170.8	10977.8	2393.2	228.8	181.2	160.0	139.8	120.8	104.9	95.3	95.3
65°	13285.2	10883.5	1684.5	207.6	169.5	150.4	125.0	98.5	79.5	73.1	69.9
67.5°	12918.6	10342.1	1172.8	191.8	157.9	139.8	110.2	80.5	63.6	55.1	53.0
70°	11985.3	9436.3	691.8	169.5	143.0	121.8	100.6	65.7	51.9	43.4	41.3
72.5°	10605.9	8078.1	431.2	144.1	122.9	99.6	75.2	54.0	41.3	33.9	32.8
75°	8760.4	6297.2	281.8	111.2	97.5	78.4	57.2	43.4	36.0	28.6	26.5
77.5°	7025.0	4454.9	252.1	84.8	72.0	56.1	43.4	36.0	29.7	25.4	25.4
80°	4042.8	2542.6	206.6	58.3	44.5	42.4	33.9	29.7	27.5	24.4	23.3
82.5°	1986.4	1221.5	133.5	36.0	25.4	27.5	28.6	26.5	23.3	21.2	21.2
85°	684.4	406.8	54.0	23.3	17.0	17.0	18.0	19.1	18.0	17.0	17.0
87.5°	105.9	77.3	14.8	13.8	10.6	9.5	10.6	11.7	11.7	10.6	10.6
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)