

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: P510288

Luminaire Tested: **VERD-M-CA4-240-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-750-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1090mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30627 lumens
Efficiency: N/A
Efficacy: 126.4 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

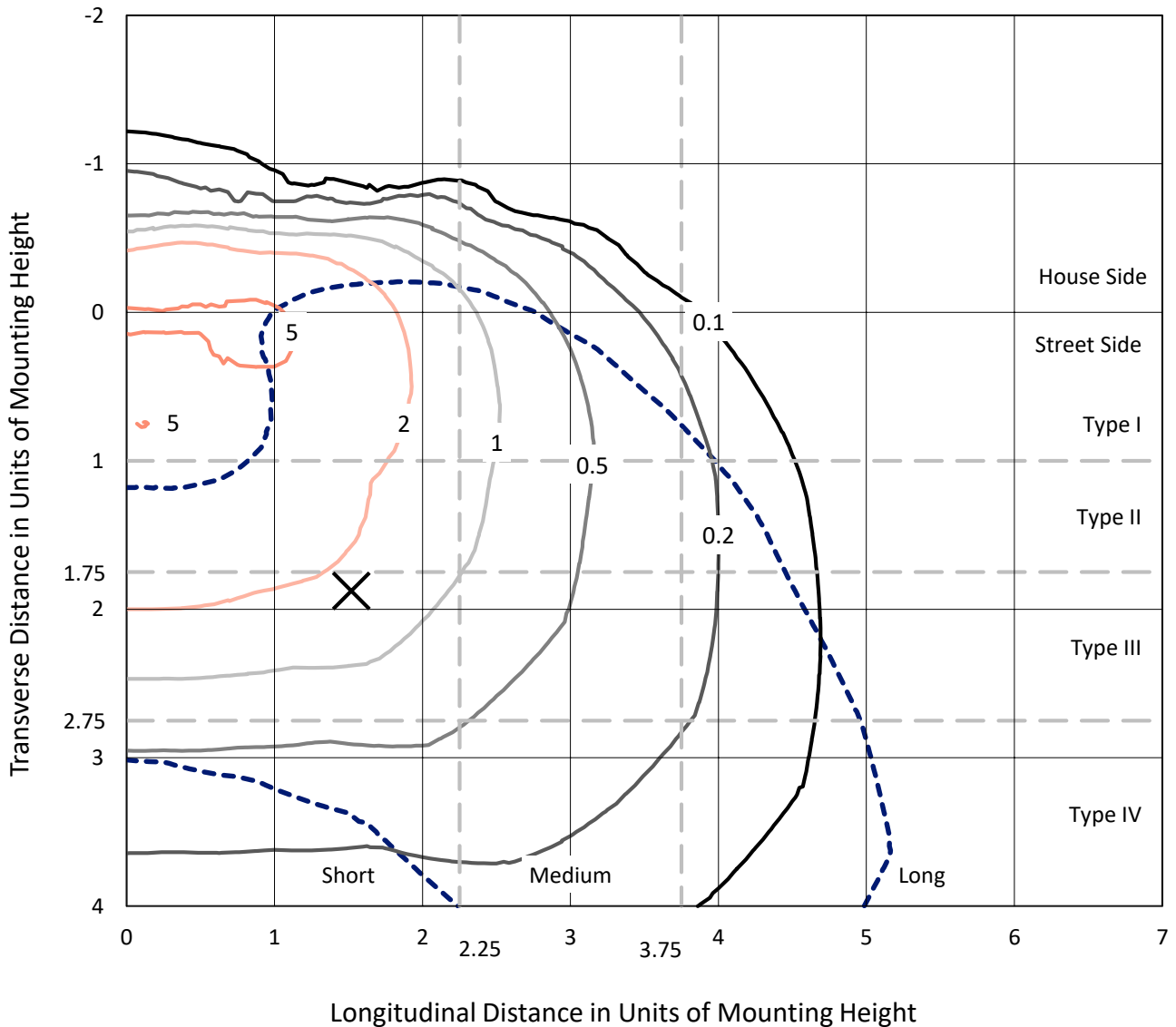
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

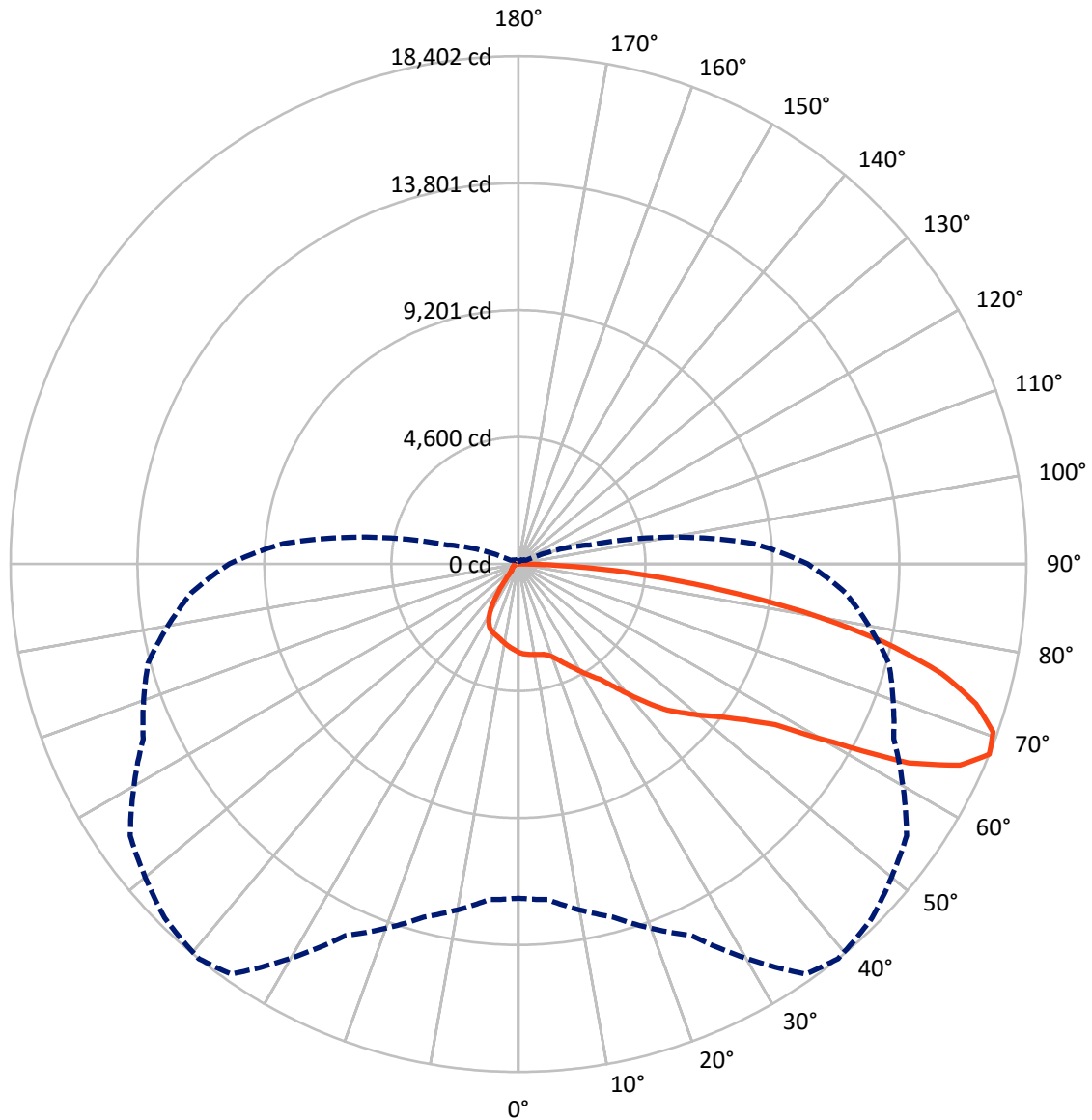
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4917.9	0.0	4917.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	25709.1	0.0	25709.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	30627.0	0.0	30627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	1.0
10°-20°	901.1	2.9
20°-30°	1596.5	5.2
30°-40°	2557.0	8.3
40°-50°	4102.0	13.4
50°-60°	5995.9	19.6
60°-70°	7989.8	26.1
70°-80°	5995.7	19.6
80°-90°	1186.3	3.9
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°	30627.0	100.0
0°-180°	30627.0	100.0

Coefficient of Utilization



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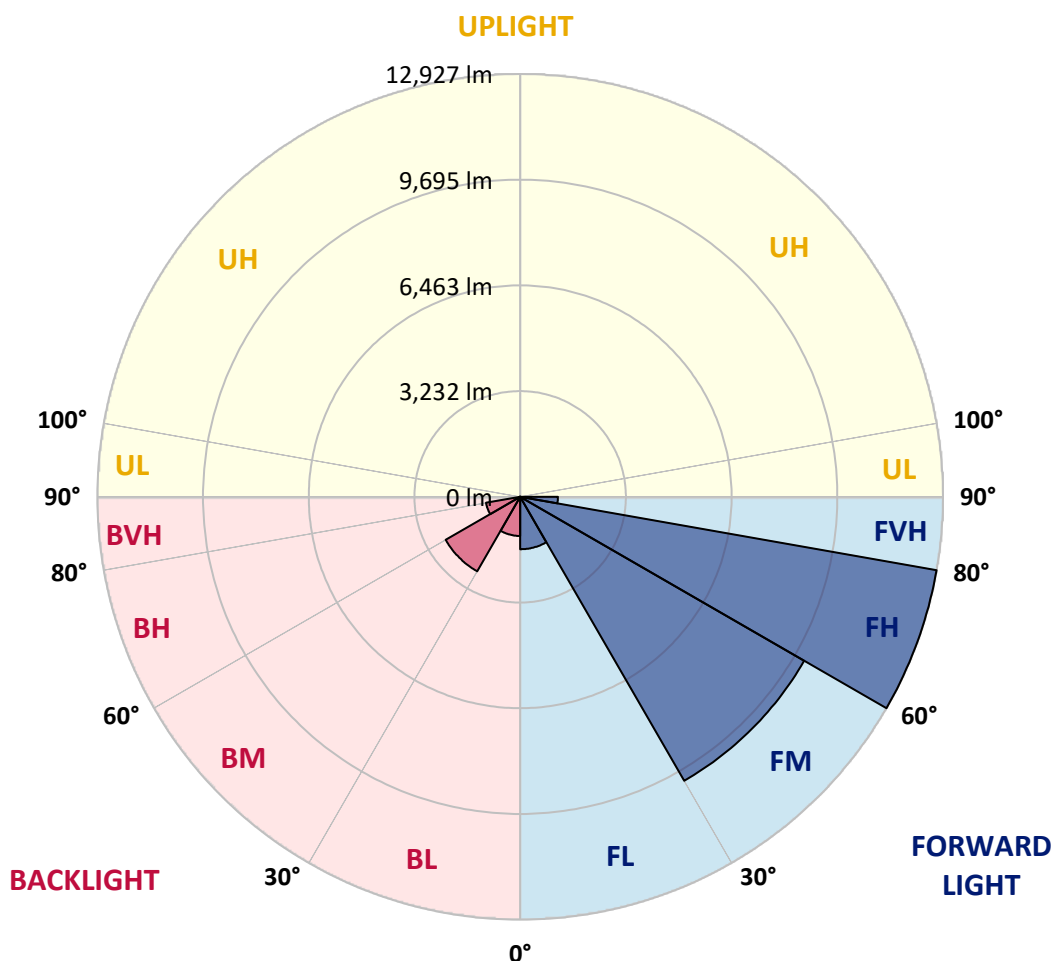
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1602.8	5.2			
FM	(30°-60°)	10024.5	32.7			
FH	(60°-80°)	12926.6	42.2			G5
FVH	(80°-90°)	1155.2	3.8			G5
BL	(0°-30°)	1197.6	3.9	B3/2500		
BM	(30°-60°)	2630.4	8.6	B3/5000		
BH	(60°-80°)	1058.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	31.1	0.1			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°	39°	45°	55°	65°	75°	85°
0°	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0
2.5°	3210.1	3253.1	3253.1	3240.8	3248.5	3254.7	3208.5	3220.8	3216.2	3214.7	3223.9
5°	3234.7	3282.4	3279.3	3263.9	3270.1	3282.4	3239.3	3257.8	3251.6	3236.2	3239.3
7.5°	3234.7	3274.7	3283.9	3267.0	3296.2	3311.6	3265.5	3282.4	3290.1	3279.3	3268.5
10°	3222.4	3257.8	3270.1	3267.0	3305.5	3330.1	3285.5	3333.2	3339.3	3339.3	3322.4
12.5°	3217.7	3257.8	3274.7	3288.5	3333.2	3359.3	3333.2	3379.3	3410.1	3408.6	3397.8
15°	3220.8	3265.5	3291.6	3314.7	3362.4	3394.7	3383.9	3454.7	3491.7	3502.4	3502.4
17.5°	3297.8	3351.6	3363.9	3388.6	3420.9	3470.1	3456.3	3547.1	3605.5	3624.0	3650.2
20°	3513.2	3554.8	3570.1	3557.8	3571.7	3602.5	3574.8	3662.5	3750.2	3799.4	3842.5
22.5°	3788.7	3819.4	3805.6	3793.3	3785.6	3793.3	3759.4	3817.9	3916.4	3987.2	4061.0
25°	3997.9	4065.7	4054.9	4021.0	4010.3	4019.5	3976.4	4048.7	4139.5	4213.4	4324.2
27.5°	4251.9	4293.4	4264.2	4251.9	4259.6	4258.0	4231.9	4301.1	4384.2	4476.5	4639.6
30°	4527.3	4562.7	4533.5	4521.2	4535.0	4544.2	4515.0	4636.6	4724.3	4824.3	5035.1
32.5°	4979.7	5064.4	4984.4	4824.3	4827.4	4841.2	4844.3	5007.4	5167.5	5246.0	5524.5
35°	5624.5	5692.2	5586.0	5392.1	5150.5	5141.3	5165.9	5409.1	5730.7	6087.7	6413.9
37.5°	6226.2	6324.7	6229.3	6003.1	5709.2	5638.4	5510.6	5799.9	6306.2	7074.1	7480.4
40°	6947.9	7021.8	6832.5	6635.5	6341.6	6241.6	6036.9	6221.6	6915.6	8103.6	8383.7
42.5°	7528.1	7572.7	7415.7	7209.5	6954.1	6878.7	6667.9	6684.8	7566.5	9005.4	9185.4
45°	8065.1	8112.8	7983.6	7808.2	7646.6	7555.8	7401.9	7485.0	8329.8	9956.4	9847.1
47.5°	8472.9	8520.6	8417.5	8292.9	8125.2	8063.6	8066.7	8365.2	9263.9	10716.6	10441.1
50°	9140.8	9122.3	8853.0	8717.6	8586.8	8619.1	8653.0	9077.7	10205.7	11369.1	10990.5
52.5°	10305.7	10214.9	9659.4	9305.5	9143.9	9199.3	9254.7	9819.4	11275.2	11964.6	11412.1
55°	11623.0	11530.6	11058.2	10301.1	9873.3	9962.5	9914.8	10553.5	12173.9	12537.1	11759.9
57.5°	12601.7	12754.0	12574.0	12161.6	11090.5	10973.6	10867.4	11295.2	12900.2	13109.5	12093.9
60°	13452.7	13665.0	13986.7	13874.3	13418.8	13114.1	12140.0	12161.6	13598.9	13506.5	12226.2
62.5°	14283.7	14408.3	14959.2	15080.8	15645.5	15864.1	14874.6	13281.9	14274.4	13782.0	12315.5
65°	13452.7	13612.7	14571.4	15456.3	17281.3	17573.7	17225.9	15310.1	14771.5	13945.1	12212.4
67.5°	12109.2	12206.2	13241.8	14851.5	18136.9	18401.6	18130.8	17172.1	15003.8	13895.9	11892.3
70°	10353.4	10505.8	11522.9	13680.4	18106.2	18247.7	18012.3	17396.8	14916.1	13612.7	11084.4
72.5°	8562.2	8648.4	9510.1	11663.0	17221.3	17339.8	17215.2	17052.1	14620.7	12823.3	9531.7
75°	6435.5	6454.0	7337.3	9210.0	15227.0	15845.6	15997.9	16458.1	13489.6	10992.0	7049.5
77.5°	4314.9	4498.1	5346.0	7038.7	12500.1	13489.6	14211.3	14546.8	11270.6	8203.6	3748.7
80°	2316.0	2362.1	3276.2	4995.1	9499.4	10445.7	11130.5	11136.7	7882.0	4064.1	837.1
82.5°	1072.6	1028.0	1649.7	3160.8	6580.1	7001.8	7460.4	6249.3	3156.2	694.0	213.9
85°	475.5	501.7	746.3	1540.4	3651.7	4074.9	4016.4	2766.9	554.0	187.7	130.8
87.5°	177.0	186.2	289.3	621.7	1303.4	1421.9	1278.8	532.4	72.3	66.2	40.0
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°	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0
2.5°	3213.1	3213.1	3210.1	3168.5	3159.3	3139.3	3122.3	3134.6	3120.8	3130.0	3120.8
5°	3227.0	3219.3	3200.8	3151.6	3128.5	3083.9	3050.0	3057.7	3039.2	3039.2	3037.7
7.5°	3259.3	3243.9	3211.6	3133.1	3090.0	3025.4	2973.1	2956.1	2937.7	2916.1	2913.1
10°	3311.6	3290.1	3247.0	3139.3	3056.2	2970.0	2879.2	2843.8	2797.6	2763.8	2757.6
12.5°	3383.9	3351.6	3293.1	3162.3	3053.1	2916.1	2794.6	2725.3	2669.9	2620.7	2609.9
15°	3488.6	3456.3	3387.0	3208.5	3054.6	2865.3	2705.3	2589.9	2494.5	2448.3	2449.9
17.5°	3640.9	3617.8	3511.7	3305.5	3083.9	2839.2	2631.4	2448.3	2300.6	2223.6	2212.9
20°	3836.4	3821.0	3691.7	3433.2	3151.6	2843.8	2551.4	2297.5	2080.5	1912.8	1875.9
22.5°	4064.1	4041.0	3882.5	3544.0	3203.9	2831.5	2463.7	2131.3	1805.1	1586.6	1543.5
25°	4318.0	4305.7	4058.0	3640.9	3210.1	2779.2	2337.5	1915.9	1506.5	1272.6	1235.7
27.5°	4642.7	4570.4	4216.5	3693.3	3196.2	2676.1	2157.5	1620.4	1197.2	1035.6	995.6
30°	4998.2	4852.0	4370.3	3733.3	3128.5	2511.4	1900.5	1278.8	891.0	747.9	727.9
32.5°	5392.1	5173.6	4515.0	3730.2	3008.5	2257.5	1566.6	887.9	601.7	543.2	523.2
35°	6104.6	5733.8	4688.9	3679.4	2806.9	1955.9	1106.4	578.6	446.3	410.9	406.3
37.5°	7094.1	6464.7	4922.8	3582.5	2546.8	1605.0	721.7	395.5	381.6	383.2	381.6
40°	7905.1	7280.3	5247.5	3436.3	2219.0	1146.4	432.4	352.4	360.1	364.7	366.2
42.5°	8699.1	7945.1	5649.1	3253.1	1875.9	744.8	350.9	337.0	330.9	338.5	341.6
45°	9337.8	8525.3	6027.7	3039.2	1474.2	440.1	340.1	312.4	301.6	304.7	309.3
47.5°	9848.7	8986.9	6255.4	2789.9	1077.2	332.4	330.9	290.8	275.5	272.4	270.8
50°	10330.3	9382.4	6401.6	2488.3	686.3	320.1	306.2	266.2	247.8	244.7	244.7
52.5°	10658.1	9640.9	6450.9	2131.3	409.3	312.4	289.3	246.2	221.6	226.2	229.3
55°	10978.2	9902.5	6349.3	1666.6	313.9	292.4	270.8	221.6	201.6	220.1	226.2
57.5°	11130.5	9941.0	6120.0	1158.8	304.7	264.7	244.7	198.5	183.1	193.9	193.9
60°	11253.6	9914.8	5799.9	734.0	297.0	246.2	223.1	180.0	161.6	155.4	150.8
62.5°	11172.1	9810.2	5156.7	478.6	275.5	224.7	203.1	166.2	140.0	123.1	121.6
65°	10998.2	9440.9	4116.4	377.0	255.4	213.9	184.7	149.3	123.1	103.1	101.6
67.5°	10485.8	8542.2	2663.8	312.4	244.7	206.2	170.8	138.5	109.3	89.3	87.7
70°	9257.8	6900.2	817.1	280.1	253.9	198.5	167.7	126.2	96.9	78.5	75.4
72.5°	7320.3	4610.4	303.2	232.4	218.5	190.8	163.1	113.9	83.1	66.2	63.1
75°	4715.1	1506.5	257.0	180.0	186.2	181.6	150.8	104.6	70.8	53.9	52.3
77.5°	1335.7	315.5	233.9	132.3	164.7	175.4	132.3	87.7	63.1	46.2	44.6
80°	280.1	224.7	213.9	93.9	123.1	113.9	89.3	67.7	60.0	40.0	40.0
82.5°	183.1	178.5	183.1	64.6	81.6	83.1	70.8	58.5	52.3	36.9	36.9
85°	129.3	163.1	87.7	46.2	38.5	35.4	41.5	50.8	46.2	30.8	30.8
87.5°	44.6	26.2	18.5	18.5	16.9	16.9	20.0	23.1	24.6	24.6	23.1
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)