

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: P510336

Luminaire Tested: **VERD-M-CA4-250-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510336
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-CA4-250-750-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1130mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31655 lumens
Efficiency: N/A
Efficacy: 125.8 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

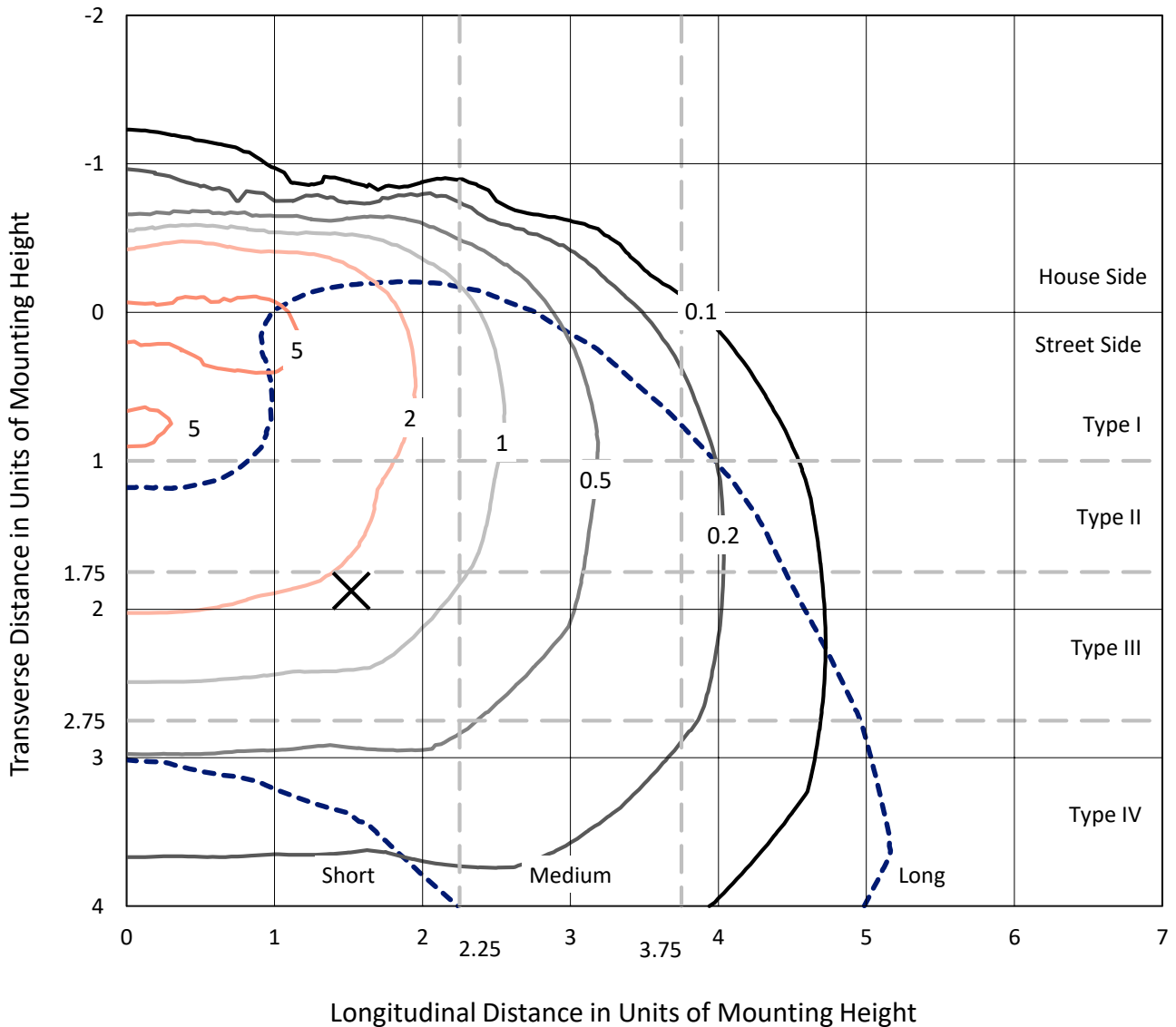
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

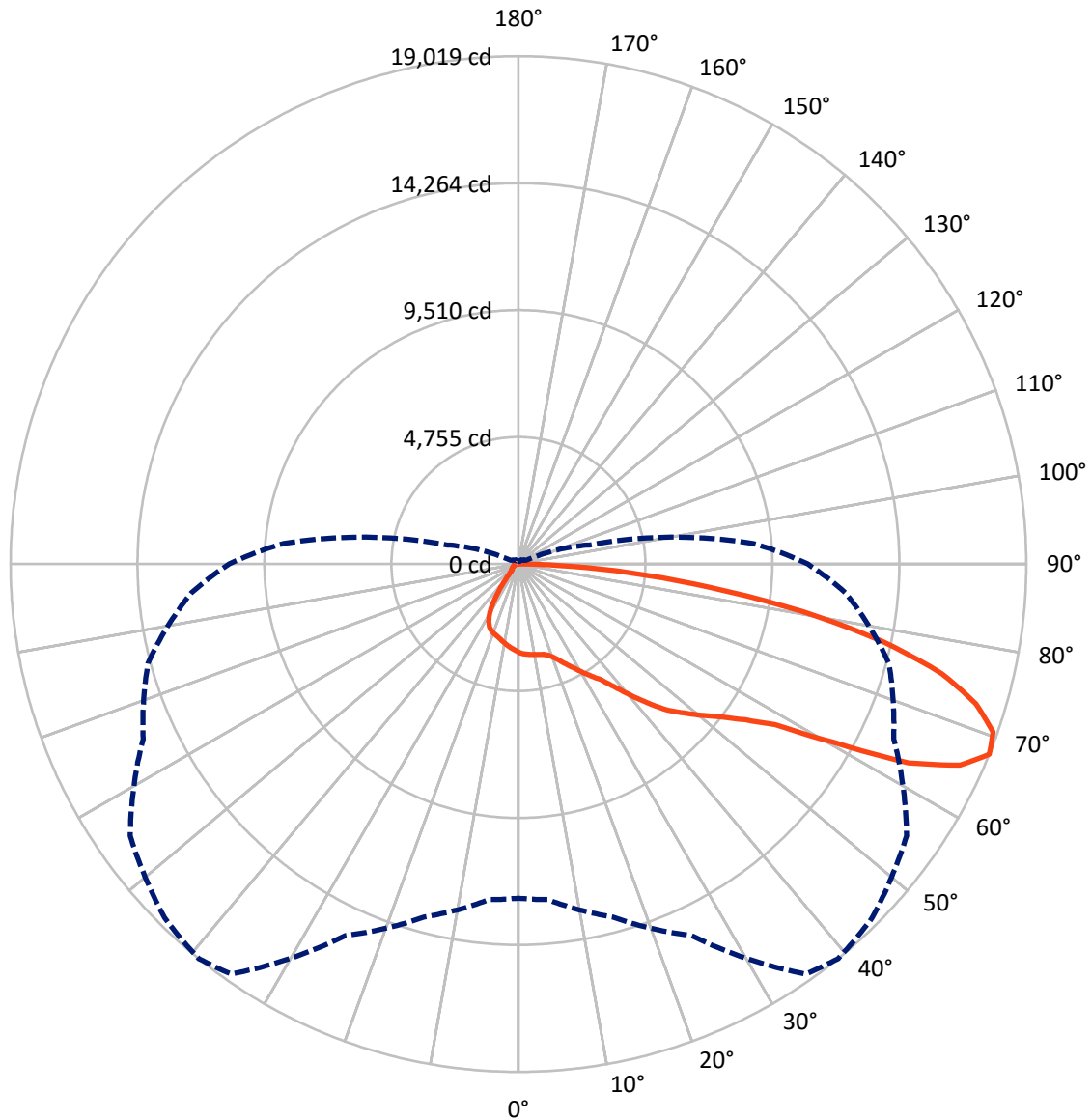
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5083.0	0.0	5083.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	26572.0	0.0	26572.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	31655.0	0.0	31655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	1.0
10°-20°	931.3	2.9
20°-30°	1650.0	5.2
30°-40°	2642.8	8.3
40°-50°	4239.6	13.4
50°-60°	6197.2	19.6
60°-70°	8258.0	26.1
70°-80°	6197.0	19.6
80°-90°	1226.1	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°	31655.0	100.0
0°-180°	31655.0	100.0

Coefficient of Utilization



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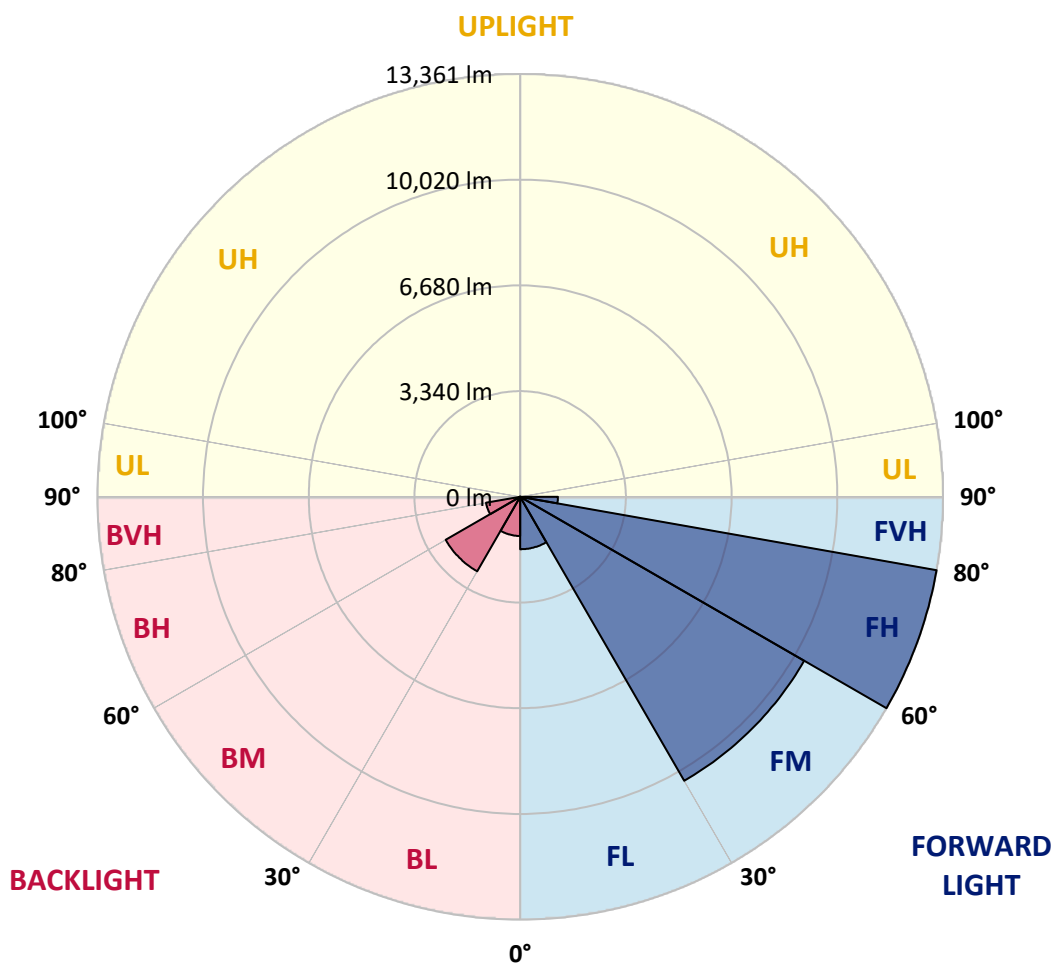
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.5	5.2			
FM	(30°-60°)	10361.0	32.7			
FH	(60°-80°)	13360.5	42.2			G5
FVH	(80°-90°)	1194.0	3.8			G5
BL	(0°-30°)	1237.8	3.9	B3/2500		
BM	(30°-60°)	2718.7	8.6	B3/5000		
BH	(60°-80°)	1094.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	32.1	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°	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6
2.5°	3317.8	3362.3	3362.3	3349.6	3357.6	3363.9	3316.2	3328.9	3324.2	3322.6	3332.1
5°	3343.2	3392.6	3389.4	3373.5	3379.8	3392.6	3348.0	3367.1	3360.7	3344.8	3348.0
7.5°	3343.2	3384.6	3394.1	3376.6	3406.9	3422.8	3375.1	3392.6	3400.5	3389.4	3378.2
10°	3330.5	3367.1	3379.8	3376.6	3416.4	3441.9	3395.7	3445.0	3451.4	3451.4	3433.9
12.5°	3325.7	3367.1	3384.6	3398.9	3445.0	3472.1	3445.0	3492.8	3524.6	3523.0	3511.8
15°	3328.9	3375.1	3402.1	3426.0	3475.3	3508.7	3497.5	3570.7	3608.9	3620.0	3620.0
17.5°	3408.5	3464.1	3476.8	3502.3	3535.7	3586.6	3572.3	3666.1	3726.6	3745.6	3772.7
20°	3631.1	3674.1	3690.0	3677.3	3691.6	3723.4	3694.7	3785.4	3876.1	3927.0	3971.5
22.5°	3915.8	3947.6	3933.3	3920.6	3912.6	3920.6	3885.6	3946.0	4047.8	4121.0	4197.3
25°	4132.1	4202.1	4191.0	4156.0	4144.9	4154.4	4109.9	4184.6	4278.5	4354.8	4469.3
27.5°	4394.6	4437.5	4407.3	4394.6	4402.5	4400.9	4373.9	4445.5	4531.4	4626.8	4795.4
30°	4679.3	4715.9	4685.6	4672.9	4687.2	4696.8	4666.5	4792.2	4882.9	4986.2	5204.1
32.5°	5146.9	5234.4	5151.7	4986.2	4989.4	5003.7	5006.9	5175.5	5340.9	5422.0	5709.9
35°	5813.3	5883.3	5773.5	5573.1	5323.4	5313.9	5339.3	5590.6	5923.0	6292.0	6629.2
37.5°	6435.2	6537.0	6438.4	6204.6	5900.8	5827.6	5695.6	5994.6	6517.9	7311.6	7731.5
40°	7181.1	7257.5	7061.9	6858.3	6554.5	6451.1	6239.6	6430.4	7147.7	8375.6	8665.1
42.5°	7780.8	7826.9	7664.7	7451.5	7187.5	7109.6	6891.7	6909.2	7820.5	9307.6	9493.7
45°	8335.8	8385.2	8251.5	8070.2	7903.2	7809.4	7650.3	7736.2	8609.4	10290.6	10177.7
47.5°	8757.3	8806.6	8700.1	8571.2	8397.9	8334.3	8337.4	8646.0	9574.9	11076.3	10791.6
50°	9447.6	9428.5	9150.2	9010.2	8875.0	8908.4	8943.4	9382.4	10548.2	11750.7	11359.4
52.5°	10651.6	10557.8	9983.6	9617.8	9450.8	9508.1	9565.3	10149.0	11653.6	12366.2	11795.2
55°	12013.1	11917.7	11429.4	10646.9	10204.7	10296.9	10247.6	10907.7	12582.5	12957.9	12154.7
57.5°	13024.7	13182.1	12996.0	12569.8	11462.8	11341.9	11232.2	11674.3	13333.2	13549.5	12499.8
60°	13904.2	14123.7	14456.1	14340.0	13869.2	13554.3	12547.5	12569.8	14055.3	13959.9	12636.6
62.5°	14763.1	14891.9	15461.3	15587.0	16170.7	16396.5	15373.8	13727.7	14753.5	14244.6	12728.8
65°	13904.2	14069.6	15060.5	15975.1	17861.4	18163.6	17804.1	15824.0	15267.3	14413.2	12622.3
67.5°	12515.7	12615.9	13686.3	15350.0	18745.7	19019.3	18739.4	17748.5	15507.4	14362.3	12291.4
70°	10700.9	10858.4	11909.7	14139.6	18713.9	18860.2	18616.9	17980.7	15416.8	14069.6	11456.4
72.5°	8849.6	8938.6	9829.3	12054.5	17799.4	17921.8	17793.0	17624.4	15111.4	13253.7	9851.6
75°	6651.5	6670.6	7583.5	9519.2	15738.1	16377.4	16534.9	17010.5	13942.4	11361.0	7286.1
77.5°	4459.8	4649.1	5525.4	7275.0	12919.7	13942.4	14688.3	15035.1	11648.9	8479.0	3874.5
80°	2393.7	2441.4	3386.2	5162.8	9818.2	10796.4	11504.1	11510.5	8146.6	4200.5	865.2
82.5°	1108.6	1062.5	1705.0	3266.9	6801.0	7236.8	7710.8	6459.0	3262.1	717.3	221.1
85°	491.5	518.5	771.4	1592.1	3774.3	4211.7	4151.2	2859.7	572.6	194.0	135.2
87.5°	182.9	192.5	299.0	642.6	1347.2	1469.6	1321.7	550.3	74.8	68.4	41.4
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°	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6	3314.6
2.5°	3321.0	3321.0	3317.8	3274.9	3265.3	3244.6	3227.1	3239.9	3225.5	3235.1	3225.5
5°	3335.3	3327.3	3308.3	3257.4	3233.5	3187.4	3152.4	3160.3	3141.3	3141.3	3139.7
7.5°	3368.7	3352.8	3319.4	3238.3	3193.7	3126.9	3072.9	3055.4	3036.3	3014.0	3010.8
10°	3422.8	3400.5	3356.0	3244.6	3158.7	3069.7	2975.8	2939.3	2891.5	2856.6	2850.2
12.5°	3497.5	3464.1	3403.7	3268.5	3155.6	3014.0	2888.4	2816.8	2759.5	2708.6	2697.5
15°	3605.7	3572.3	3500.7	3316.2	3157.2	2961.5	2796.1	2676.8	2578.2	2530.5	2532.1
17.5°	3763.1	3739.3	3629.5	3416.4	3187.4	2934.5	2719.8	2530.5	2377.8	2298.3	2287.1
20°	3965.1	3949.2	3815.6	3548.4	3257.4	2939.3	2637.1	2374.6	2150.4	1977.0	1938.8
22.5°	4200.5	4176.7	4012.8	3662.9	3311.4	2926.5	2546.4	2202.9	1865.7	1639.8	1595.3
25°	4463.0	4450.2	4194.2	3763.1	3317.8	2872.5	2416.0	1980.2	1557.1	1315.3	1277.2
27.5°	4798.6	4723.8	4358.0	3817.2	3303.5	2765.9	2229.9	1674.8	1237.4	1070.4	1029.1
30°	5166.0	5014.9	4517.0	3858.6	3233.5	2595.7	1964.3	1321.7	920.9	773.0	752.3
32.5°	5573.1	5347.3	4666.5	3855.4	3109.4	2333.3	1619.1	917.7	621.9	561.4	540.8
35°	6309.5	5926.2	4846.3	3802.9	2901.1	2021.5	1143.6	598.0	461.2	424.7	419.9
37.5°	7332.2	6681.7	5088.0	3702.7	2632.3	1658.9	745.9	408.8	394.4	396.0	394.4
40°	8170.4	7524.7	5423.6	3551.6	2293.5	1184.9	446.9	364.2	372.2	377.0	378.5
42.5°	8991.1	8211.8	5838.8	3362.3	1938.8	769.8	362.6	348.3	342.0	349.9	353.1
45°	9651.2	8811.4	6230.0	3141.3	1523.7	454.9	351.5	322.9	311.7	314.9	319.7
47.5°	10179.2	9288.6	6465.4	2883.6	1113.4	343.5	342.0	300.6	284.7	281.5	279.9
50°	10677.1	9697.3	6616.5	2571.8	709.4	330.8	316.5	275.2	256.1	252.9	252.9
52.5°	11015.9	9964.5	6667.4	2202.9	423.1	322.9	299.0	254.5	229.0	233.8	237.0
55°	11346.7	10234.9	6562.4	1722.5	324.5	302.2	279.9	229.0	208.4	227.4	233.8
57.5°	11504.1	10274.7	6325.4	1197.7	314.9	273.6	252.9	205.2	189.3	200.4	200.4
60°	11631.4	10247.6	5994.6	758.7	307.0	254.5	230.6	186.1	167.0	160.6	155.9
62.5°	11547.1	10139.5	5329.8	494.6	284.7	232.2	209.9	171.8	144.7	127.2	125.7
65°	11367.4	9757.8	4254.6	389.7	264.0	221.1	190.9	154.3	127.2	106.6	105.0
67.5°	10837.7	8828.9	2753.2	322.9	252.9	213.1	176.5	143.1	112.9	92.2	90.7
70°	9568.5	7131.8	844.6	289.5	262.4	205.2	173.4	130.4	100.2	81.1	77.9
72.5°	7566.0	4765.2	313.3	240.2	225.9	197.2	168.6	117.7	85.9	68.4	65.2
75°	4873.3	1557.1	265.6	186.1	192.5	187.7	155.9	108.2	73.2	55.7	54.1
77.5°	1380.6	326.1	241.8	136.8	170.2	181.3	136.8	90.7	65.2	47.7	46.1
80°	289.5	232.2	221.1	97.0	127.2	117.7	92.2	70.0	62.0	41.4	41.4
82.5°	189.3	184.5	189.3	66.8	84.3	85.9	73.2	60.4	54.1	38.2	38.2
85°	133.6	168.6	90.7	47.7	39.8	36.6	42.9	52.5	47.7	31.8	31.8
87.5°	46.1	27.0	19.1	19.1	17.5	17.5	20.7	23.9	25.4	25.4	23.9
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)