

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: P510329

Luminaire Tested: **VERD-M-CA4-250-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-250-740-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1130mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34510 lumens
Efficiency: N/A
Efficacy: 137.1 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

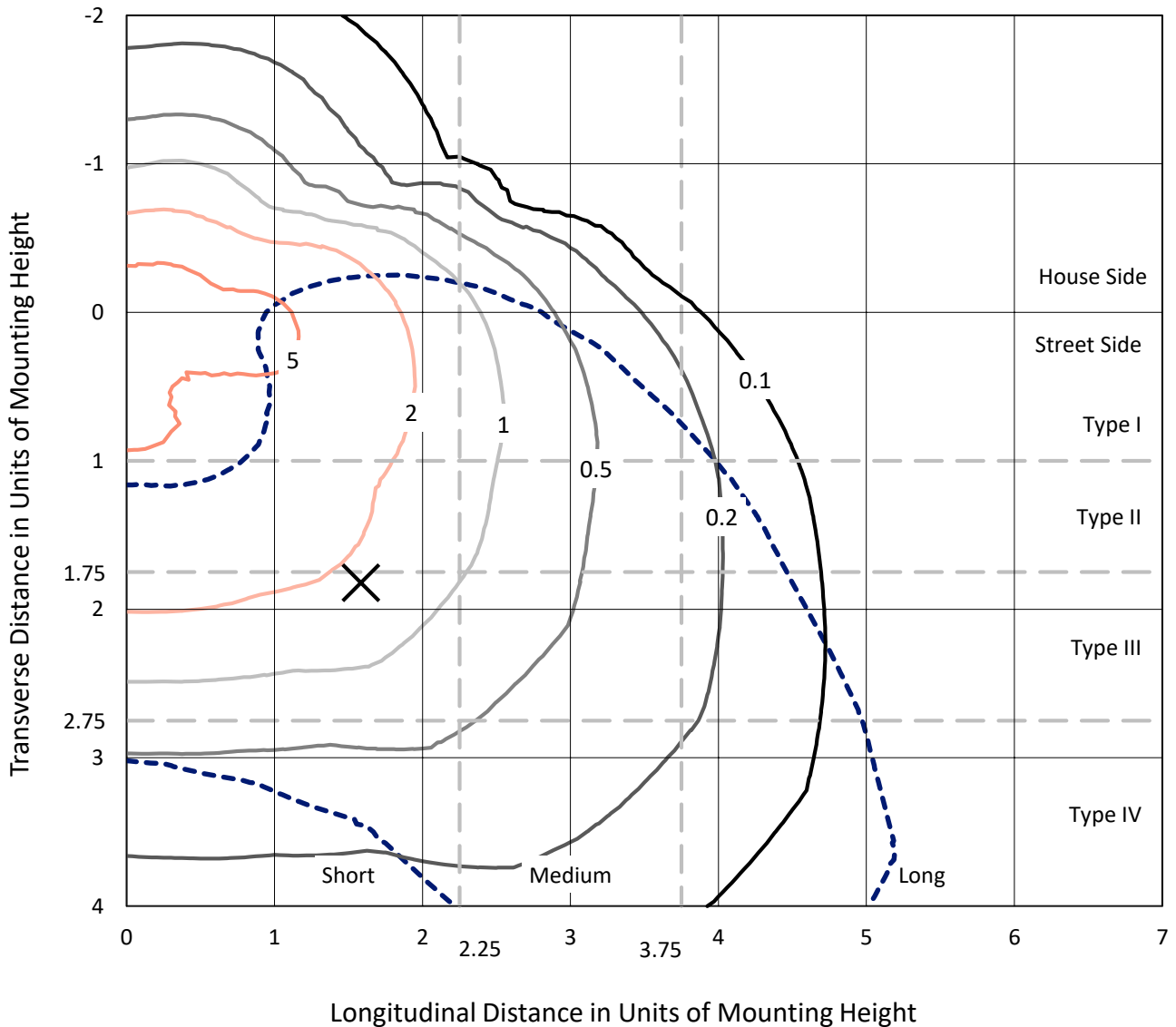
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

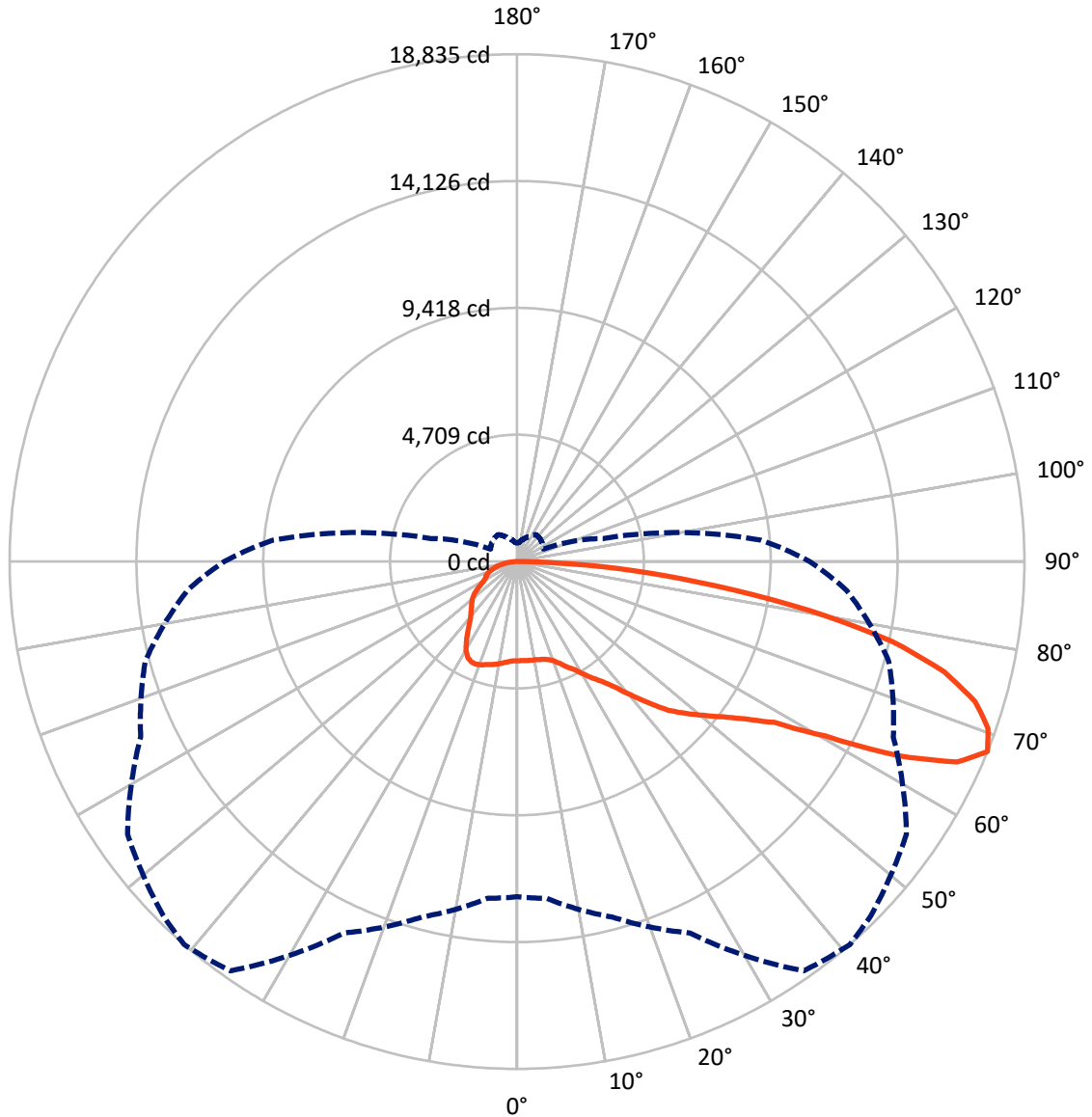
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7809.5	0.0	7809.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26700.6	0.0	26700.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	34510.0	0.0	34510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.0	1.0
10°-20°	1104.2	3.2
20°-30°	1974.7	5.7
30°-40°	3096.3	9.0
40°-50°	4801.5	13.9
50°-60°	6768.9	19.6
60°-70°	8628.7	25.0
70°-80°	6457.2	18.7
80°-90°	1322.5	3.8
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°	34510.0	100.0
0°-180°	34510.0	100.0

Coefficient of Utilization



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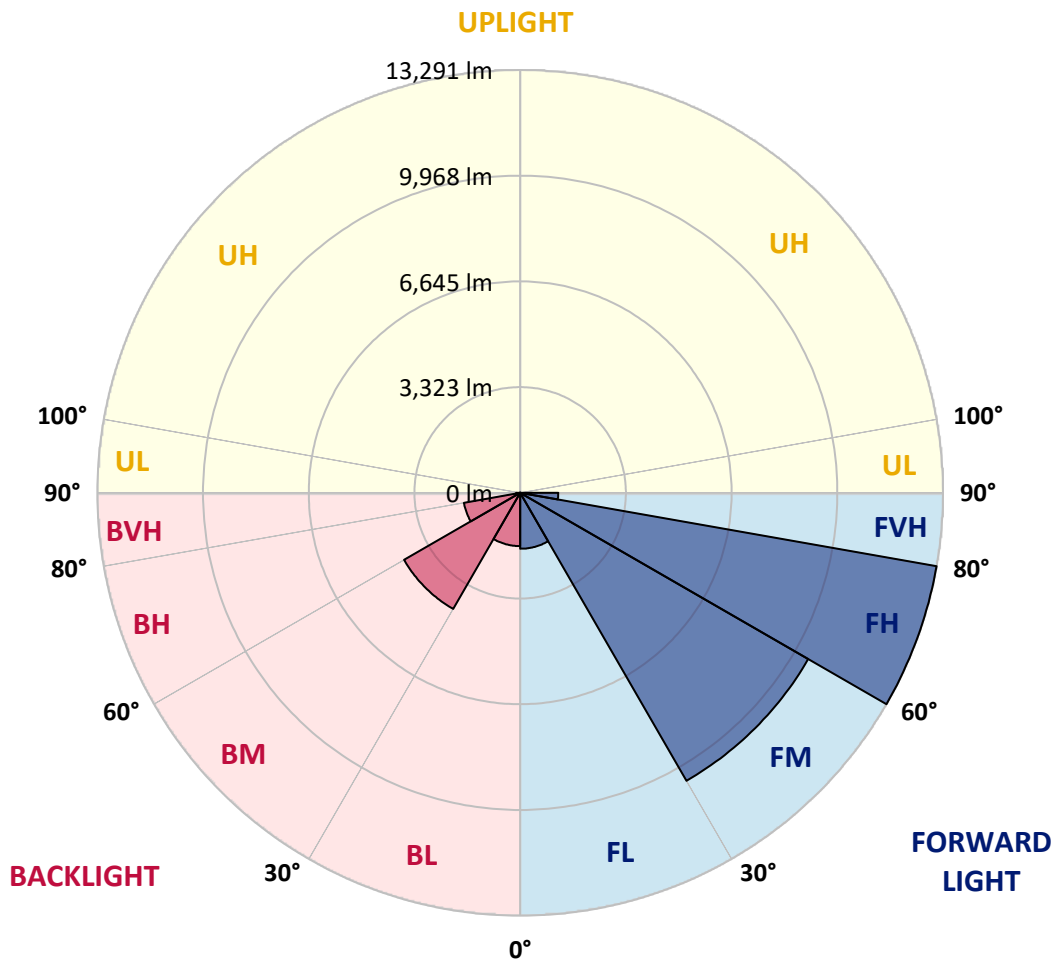
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.3	5.1			
FM	(30°-60°)	10452.8	30.3			
FH	(60°-80°)	13290.5	38.5			G5
FVH	(80°-90°)	1198.9	3.5			G5
BL	(0°-30°)	1676.6	4.9	B3/2500		
BM	(30°-60°)	4213.9	12.2	B3/5000		
BH	(60°-80°)	1795.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	123.5	0.4			G2/225
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°	41°	45°	55°	65°	75°	85°
0°	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5
2.5°	3639.2	3681.4	3675.2	3667.4	3679.9	3681.4	3645.5	3659.5	3667.4	3679.9	3700.2
5°	3648.6	3690.8	3687.7	3673.6	3683.0	3687.7	3654.9	3679.9	3679.9	3684.5	3708.0
7.5°	3628.3	3668.9	3668.9	3664.2	3684.5	3703.3	3673.6	3695.5	3708.0	3720.5	3736.1
10°	3609.6	3643.9	3656.4	3653.3	3700.2	3704.8	3684.5	3737.6	3757.9	3770.4	3789.2
12.5°	3589.3	3631.4	3648.6	3665.8	3715.8	3733.0	3722.0	3776.7	3818.9	3840.7	3861.0
15°	3579.9	3626.7	3654.9	3679.9	3734.5	3765.8	3765.8	3848.5	3898.5	3926.6	3962.6
17.5°	3645.5	3693.9	3715.8	3736.1	3786.1	3828.2	3825.1	3921.9	3995.4	4039.1	4104.7
20°	3807.9	3865.7	3878.2	3886.0	3917.3	3932.9	3928.2	4032.8	4134.4	4217.1	4290.6
22.5°	4090.6	4125.0	4131.2	4100.0	4107.8	4120.3	4112.5	4170.3	4285.9	4382.7	4513.9
25°	4321.8	4376.5	4360.8	4315.5	4321.8	4339.0	4315.5	4404.6	4487.4	4613.9	4746.6
27.5°	4565.5	4606.1	4588.9	4560.8	4554.5	4542.0	4537.3	4651.4	4773.2	4873.1	5069.9
30°	4862.2	4884.1	4834.1	4821.6	4832.5	4840.3	4810.7	4955.9	5066.8	5210.5	5476.0
32.5°	5362.0	5382.3	5310.5	5118.4	5123.1	5159.0	5134.0	5316.7	5526.0	5701.0	5971.2
35°	5999.3	5999.3	5943.1	5672.8	5468.2	5469.8	5476.0	5733.8	6122.7	6514.7	6792.7
37.5°	6644.4	6666.2	6560.0	6313.2	6053.9	5916.5	5800.9	6132.0	6641.2	7515.9	7929.8
40°	7316.0	7350.3	7191.0	6964.5	6666.2	6510.0	6375.7	6577.2	7264.4	8507.7	8835.7
42.5°	7903.2	7951.7	7787.7	7548.7	7341.0	7164.5	6961.4	7042.6	7950.1	9449.5	9635.4
45°	8449.9	8476.5	8337.5	8140.7	7968.8	7872.0	7729.9	7823.6	8734.2	10371.1	10336.7
47.5°	8852.9	8891.9	8765.4	8659.2	8482.7	8424.9	8423.4	8681.1	9616.7	11105.2	10945.8
50°	9507.3	9477.6	9193.4	9063.7	8956.0	8974.7	9020.0	9465.2	10653.8	11812.7	11458.1
52.5°	10605.3	10550.7	9919.7	9649.5	9516.7	9577.6	9601.0	10175.8	11700.2	12423.4	11881.4
55°	12025.1	11850.2	11391.0	10666.3	10249.2	10307.0	10280.5	10939.6	12537.4	13006.0	12195.4
57.5°	12963.8	13127.8	12907.6	12493.7	11458.1	11269.2	11206.7	11695.6	13312.1	13563.6	12520.2
60°	13779.1	14050.9	14400.8	14135.3	13855.7	13148.1	12565.5	12554.6	13994.7	13935.3	12651.4
62.5°	14639.7	14783.4	15322.3	15486.3	16004.9	15875.2	15094.3	13641.7	14677.2	14207.1	12728.0
65°	13769.8	13961.9	14942.8	15837.7	17757.3	17944.7	17690.2	15662.8	15150.5	14346.1	12618.6
67.5°	12445.3	12551.5	13662.0	15214.5	18550.8	18835.0	18578.9	17646.4	15412.9	14285.2	12281.3
70°	10747.5	10872.4	11933.0	14050.9	18510.2	18547.6	18447.7	17829.2	15308.2	13999.4	11431.6
72.5°	8713.9	8871.6	9804.1	12003.3	17623.0	17785.4	17627.7	17466.8	15014.6	13199.7	9968.1
75°	6592.8	6802.1	7634.6	9569.8	15573.8	16392.2	16412.5	16909.2	13874.4	11316.0	7234.8
77.5°	4496.7	4696.7	5485.4	7291.0	12927.9	14235.2	14575.7	15119.3	11592.5	8362.4	3946.9
80°	2531.9	2513.1	3514.3	5209.0	9860.3	11008.3	11436.3	11414.4	8140.7	4293.7	804.4
82.5°	1169.9	1173.0	1797.8	3325.3	6675.6	7433.1	7606.5	6620.9	2856.7	727.8	256.2
85°	582.6	588.8	865.3	1668.1	3768.9	4354.6	4139.1	2755.2	612.3	212.4	153.1
87.5°	231.2	221.8	342.1	685.7	1360.4	1441.6	1258.9	551.4	110.9	75.0	51.5
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°	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5	3684.5
2.5°	3695.5	3698.6	3712.7	3684.5	3692.3	3686.1	3681.4	3706.4	3704.8	3709.5	3701.7
5°	3706.4	3714.2	3728.3	3715.8	3728.3	3722.0	3726.7	3761.1	3765.8	3764.2	3764.2
7.5°	3736.1	3743.9	3770.4	3754.8	3782.9	3775.1	3776.7	3809.5	3815.7	3806.4	3803.2
10°	3798.6	3804.8	3842.3	3839.2	3850.1	3843.9	3837.6	3851.7	3848.5	3834.5	3828.2
12.5°	3870.4	3887.6	3929.8	3931.3	3945.4	3914.1	3881.3	3876.7	3867.3	3845.4	3840.7
15°	3978.2	3998.5	4062.5	4046.9	4037.5	3970.4	3915.7	3872.0	3834.5	3815.7	3798.6
17.5°	4132.8	4167.2	4256.2	4207.8	4139.1	4040.7	3945.4	3850.1	3770.4	3703.3	3676.7
20°	4329.6	4368.7	4443.6	4379.6	4274.9	4128.1	3973.5	3801.7	3628.3	3479.9	3458.1
22.5°	4563.9	4626.4	4681.0	4534.2	4379.6	4193.7	3973.5	3726.7	3439.3	3217.5	3162.9
25°	4837.2	4885.6	4868.5	4662.3	4438.9	4204.7	3929.8	3593.9	3187.9	2930.1	2886.4
27.5°	5134.0	5155.9	5023.1	4723.2	4445.2	4140.6	3806.4	3358.1	2894.2	2691.2	2649.0
30°	5499.5	5433.9	5180.8	4760.7	4382.7	3998.5	3586.1	3012.9	2655.2	2477.2	2428.8
32.5°	5893.1	5772.8	5293.3	4734.1	4245.3	3761.1	3245.6	2769.3	2495.9	2278.8	2238.2
35°	6642.8	6300.7	5457.3	4654.5	4006.3	3444.0	2916.1	2581.8	2327.2	2094.5	2057.0
37.5°	7654.9	7059.8	5686.9	4543.6	3723.6	3136.3	2670.9	2381.9	2161.7	1921.1	1861.8
40°	8442.1	7826.7	6055.5	4424.9	3462.7	2844.2	2492.8	2277.3	2052.3	1796.2	1744.6
42.5°	9191.8	8528.0	6508.5	4292.1	3194.1	2641.2	2414.7	2253.8	2022.7	1761.8	1713.4
45°	9854.1	9095.0	6898.9	4159.4	2891.1	2453.8	2356.9	2208.5	1980.5	1718.1	1671.2
47.5°	10389.8	9582.3	7237.9	4015.7	2616.2	2311.6	2281.9	2125.8	1899.3	1629.1	1572.8
50°	10874.0	9994.6	7472.2	3862.6	2347.5	2196.0	2158.6	1974.2	1738.4	1499.4	1463.5
52.5°	11172.3	10274.2	7612.7	3887.6	2093.0	2066.4	2005.5	1816.5	1597.8	1393.2	1346.4
55°	11484.7	10538.2	7611.2	3747.0	1880.5	1871.2	1813.4	1668.1	1496.3	1324.5	1296.4
57.5°	11612.8	10561.6	7469.0	3086.3	1693.1	1633.8	1621.3	1544.7	1394.8	1232.3	1201.1
60°	11698.7	10458.5	7200.4	2107.0	1457.3	1415.1	1476.0	1424.5	1288.6	1118.3	1087.1
62.5°	11614.3	10346.1	6496.0	1521.3	1277.6	1301.1	1358.9	1302.6	1160.5	1005.9	979.3
65°	11412.9	9916.5	5129.3	1185.5	1198.0	1249.5	1294.8	1201.1	940.3	787.2	771.6
67.5°	10863.1	9099.7	3300.3	1087.1	1152.7	1205.8	1221.4	1016.8	851.2	704.4	687.2
70°	9705.7	7305.0	1271.4	1024.6	1107.4	1130.8	1066.8	932.5	782.5	656.0	640.4
72.5°	7592.4	4796.6	734.1	937.1	1010.6	988.7	990.2	837.2	706.0	585.7	573.2
75°	4718.5	1736.8	652.9	834.1	855.9	896.5	845.0	726.3	607.6	535.7	520.1
77.5°	1560.3	493.6	604.5	718.5	766.9	737.2	707.5	620.1	520.1	463.9	456.1
80°	378.0	370.2	542.0	562.3	601.3	551.4	548.2	515.4	438.9	406.1	398.3
82.5°	232.7	265.5	431.1	349.9	401.4	406.1	462.3	424.8	320.2	332.7	321.8
85°	143.7	204.6	226.5	168.7	170.2	228.0	276.5	256.2	192.1	181.2	179.6
87.5°	48.4	42.2	48.4	35.9	48.4	82.8	125.0	118.7	79.7	54.7	51.5
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)