

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: P510265

Luminaire Tested: **VERD-M-CA4-240-727-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510265
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-CA4-240-727-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1090mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28274 lumens
Efficiency: N/A
Efficacy: 116.7 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

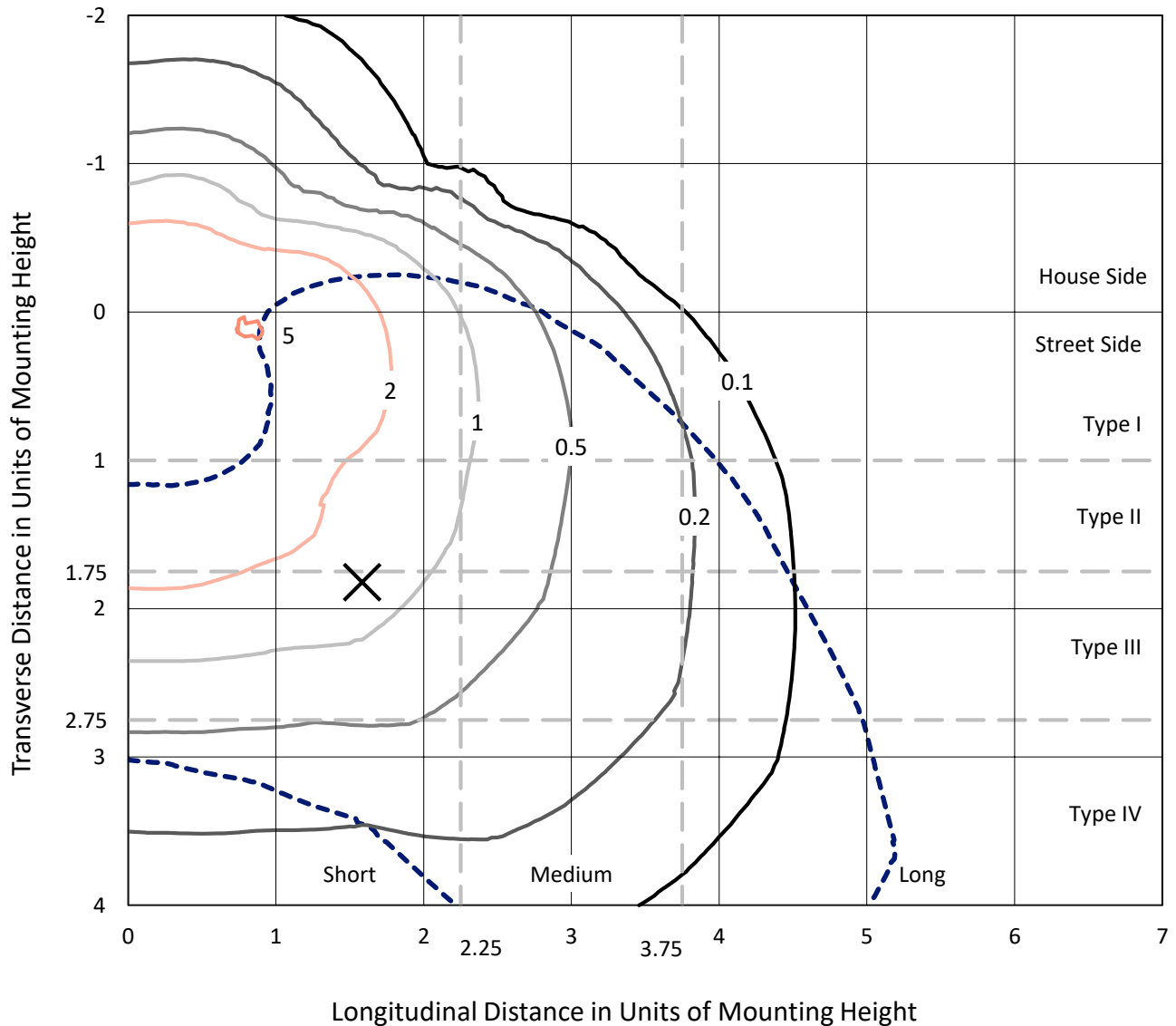
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

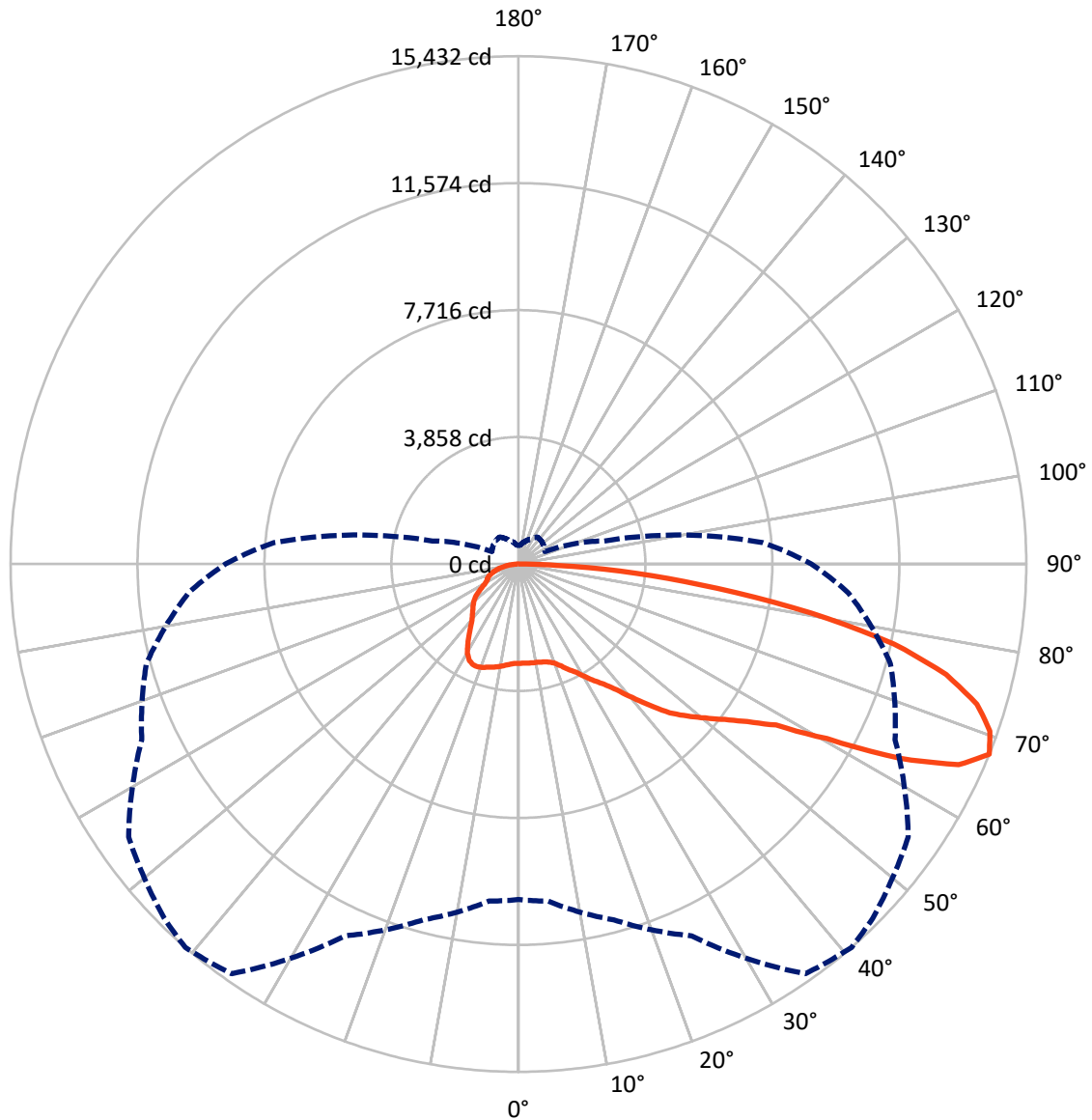
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	6398.3	0.0	6398.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21875.7	0.0	21875.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	28274.0	0.0	28274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	1.0
10°-20°	904.7	3.2
20°-30°	1617.8	5.7
30°-40°	2536.8	9.0
40°-50°	3933.8	13.9
50°-60°	5545.7	19.6
60°-70°	7069.5	25.0
70°-80°	5290.3	18.7
80°-90°	1083.5	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°	28274.0	100.0
0°-180°	28274.0	100.0

Coefficient of Utilization



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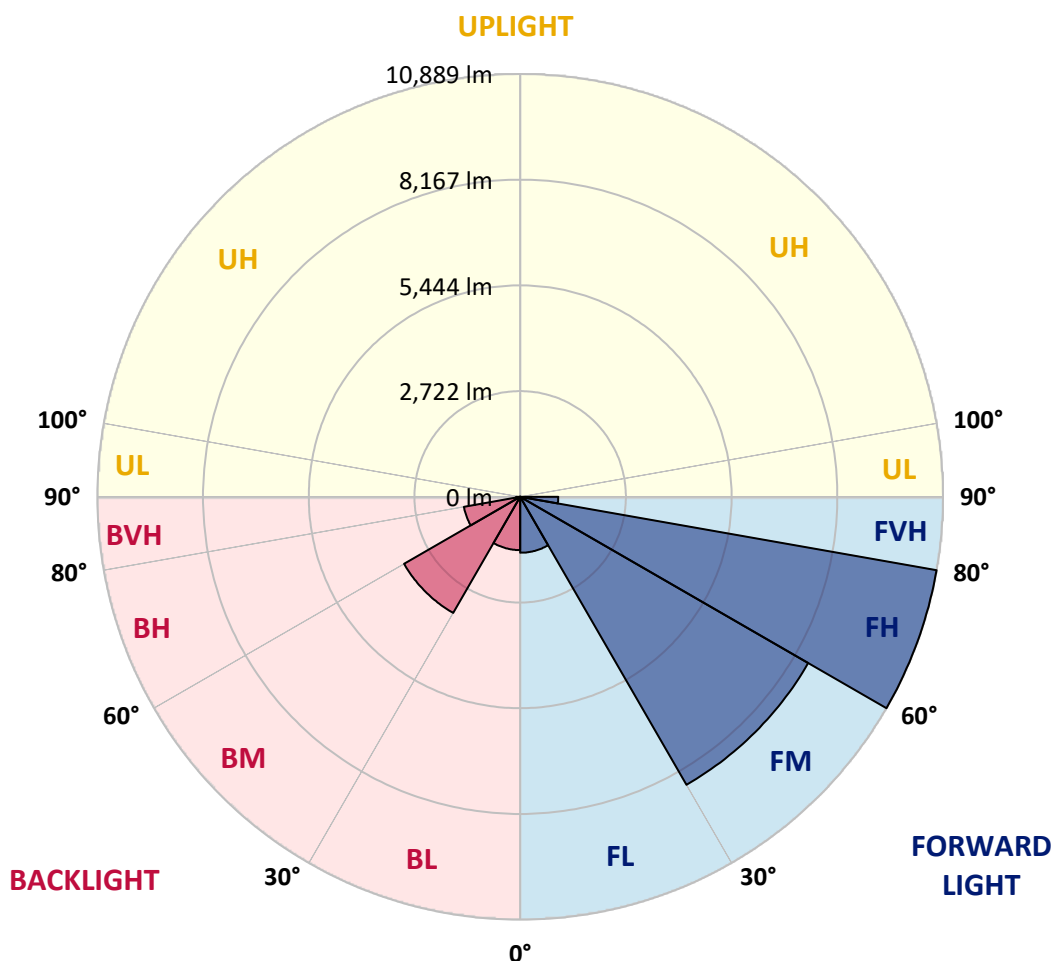
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1440.6	5.1			
FM	(30°-60°)	8564.0	30.3			
FH	(60°-80°)	10888.9	38.5			G4/12000
FVH	(80°-90°)	982.3	3.5			G5
BL	(0°-30°)	1373.7	4.9	B3/2500		
BM	(30°-60°)	3452.4	12.2	B3/5000		
BH	(60°-80°)	1471.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	101.2	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°	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7
2.5°	2981.6	3016.2	3011.1	3004.7	3014.9	3016.2	2986.7	2998.3	3004.7	3014.9	3031.5
5°	2989.3	3023.9	3021.3	3009.8	3017.5	3021.3	2994.4	3014.9	3014.9	3018.7	3037.9
7.5°	2972.7	3005.9	3005.9	3002.1	3018.7	3034.1	3009.8	3027.7	3037.9	3048.2	3061.0
10°	2957.3	2985.5	2995.7	2993.1	3031.5	3035.4	3018.7	3062.2	3078.9	3089.1	3104.5
12.5°	2940.7	2975.2	2989.3	3003.4	3044.3	3058.4	3049.4	3094.2	3128.8	3146.7	3163.3
15°	2933.0	2971.4	2994.4	3014.9	3059.7	3085.3	3085.3	3153.1	3194.1	3217.1	3246.5
17.5°	2986.7	3026.4	3044.3	3061.0	3101.9	3136.5	3133.9	3213.2	3273.4	3309.2	3363.0
20°	3119.8	3167.2	3177.4	3183.8	3209.4	3222.2	3218.4	3304.1	3387.3	3455.1	3515.2
22.5°	3351.5	3379.6	3384.7	3359.1	3365.5	3375.8	3369.4	3416.7	3511.4	3590.7	3698.2
25°	3540.8	3585.6	3572.8	3535.7	3540.8	3554.9	3535.7	3608.7	3676.5	3780.1	3888.9
27.5°	3740.5	3773.7	3759.7	3736.6	3731.5	3721.3	3717.4	3810.9	3910.7	3992.6	4153.8
30°	3983.6	4001.5	3960.6	3950.3	3959.3	3965.7	3941.4	4060.4	4151.2	4269.0	4486.5
32.5°	4393.1	4409.7	4350.9	4193.5	4197.3	4226.7	4206.3	4356.0	4527.5	4670.8	4892.2
35°	4915.2	4915.2	4869.1	4647.8	4480.1	4481.4	4486.5	4697.7	5016.3	5337.5	5565.3
37.5°	5443.7	5461.6	5374.6	5172.4	4960.0	4847.4	4752.7	5024.0	5441.1	6157.8	6496.9
40°	5994.0	6022.1	5891.6	5706.0	5461.6	5333.7	5223.6	5388.7	5951.7	6970.4	7239.1
42.5°	6475.1	6514.8	6380.4	6184.6	6014.4	5869.8	5703.5	5770.0	6513.5	7742.0	7894.3
45°	6923.0	6944.8	6830.9	6669.6	6528.9	6449.5	6333.1	6409.9	7155.9	8497.0	8468.8
47.5°	7253.2	7285.2	7181.5	7094.5	6949.9	6902.5	6901.2	7112.4	7878.9	9098.4	8967.9
50°	7789.3	7765.0	7532.1	7425.9	7337.6	7353.0	7390.1	7754.8	8728.6	9678.1	9387.6
52.5°	8688.9	8644.2	8127.2	7905.8	7797.0	7846.9	7866.1	8337.0	9586.0	10178.5	9734.4
55°	9852.2	9708.8	9332.6	8738.9	8397.2	8444.5	8422.8	8962.8	10271.9	10655.8	9991.6
57.5°	10621.2	10755.6	10575.2	10236.1	9387.6	9232.8	9181.6	9582.2	10906.6	11112.6	10257.8
60°	11289.2	11511.9	11798.5	11581.0	11351.9	10772.2	10294.9	10286.0	11465.8	11417.2	10365.3
62.5°	11994.3	12112.1	12553.5	12687.9	13112.8	13006.5	12366.7	11176.6	12025.0	11639.9	10428.0
65°	11281.6	11439.0	12242.6	12975.8	14548.5	14702.1	14493.5	12832.5	12412.8	11753.8	10338.4
67.5°	10196.4	10283.4	11193.3	12465.2	15198.6	15431.5	15221.7	14457.7	12627.8	11703.8	10062.0
70°	8805.4	8907.8	9776.7	11511.9	15165.3	15196.1	15114.2	14607.4	12542.0	11469.7	9365.9
72.5°	7139.3	7268.5	8032.5	9834.2	14438.5	14571.6	14442.3	14310.5	12301.4	10814.5	8166.8
75°	5401.5	5573.0	6255.0	7840.5	12759.6	13430.1	13446.8	13853.7	11367.3	9271.2	5927.4
77.5°	3684.2	3848.0	4494.2	5973.5	10591.8	11662.9	11941.9	12387.2	9497.7	6851.3	3233.7
80°	2074.3	2059.0	2879.3	4267.7	8078.5	9019.1	9369.7	9351.8	6669.6	3517.8	659.0
82.5°	958.5	961.0	1472.9	2724.4	5469.3	6089.9	6232.0	5424.5	2340.5	596.3	209.9
85°	477.3	482.4	708.9	1366.7	3087.8	3567.7	3391.1	2257.3	501.6	174.0	125.4
87.5°	189.4	181.7	280.2	561.8	1114.6	1181.1	1031.4	451.7	90.9	61.4	42.2
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°	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7	3018.7
2.5°	3027.7	3030.3	3041.8	3018.7	3025.1	3020.0	3016.2	3036.7	3035.4	3039.2	3032.8
5°	3036.7	3043.1	3054.6	3044.3	3054.6	3049.4	3053.3	3081.4	3085.3	3084.0	3084.0
7.5°	3061.0	3067.4	3089.1	3076.3	3099.4	3093.0	3094.2	3121.1	3126.2	3118.6	3116.0
10°	3112.2	3117.3	3148.0	3145.4	3154.4	3149.3	3144.1	3155.7	3153.1	3141.6	3136.5
12.5°	3171.0	3185.1	3219.6	3220.9	3232.4	3206.8	3180.0	3176.1	3168.5	3150.5	3146.7
15°	3259.3	3276.0	3328.4	3315.6	3307.9	3252.9	3208.1	3172.3	3141.6	3126.2	3112.2
17.5°	3386.0	3414.2	3487.1	3447.4	3391.1	3310.5	3232.4	3154.4	3089.1	3034.1	3012.3
20°	3547.2	3579.2	3640.7	3588.2	3502.5	3382.2	3255.5	3114.7	2972.7	2851.1	2833.2
22.5°	3739.2	3790.4	3835.2	3714.9	3588.2	3435.9	3255.5	3053.3	2817.8	2636.1	2591.3
25°	3963.1	4002.8	3988.7	3819.8	3636.8	3444.9	3219.6	2944.5	2611.8	2400.7	2364.8
27.5°	4206.3	4224.2	4115.4	3869.7	3641.9	3392.4	3118.6	2751.3	2371.2	2204.9	2170.3
30°	4505.7	4452.0	4244.7	3900.4	3590.7	3276.0	2938.1	2468.5	2175.4	2029.6	1989.9
32.5°	4828.2	4729.7	4336.8	3878.7	3478.1	3081.4	2659.2	2268.9	2044.9	1867.0	1833.8
35°	5442.4	5162.2	4471.2	3813.4	3282.3	2821.7	2389.1	2115.3	1906.7	1716.0	1685.3
37.5°	6271.7	5784.1	4659.3	3722.6	3050.7	2569.6	2188.2	1951.5	1771.1	1574.0	1525.4
40°	6916.6	6412.4	4961.3	3625.3	2837.0	2330.3	2042.4	1865.8	1681.5	1471.6	1429.4
42.5°	7530.8	6987.0	5332.4	3516.5	2616.9	2163.9	1978.4	1846.6	1657.2	1443.5	1403.8
45°	8073.4	7451.5	5652.3	3407.8	2368.7	2010.4	1931.0	1809.5	1622.6	1407.6	1369.2
47.5°	8512.4	7850.8	5930.0	3290.0	2143.4	1893.9	1869.6	1741.6	1556.1	1334.7	1288.6
50°	8909.0	8188.6	6121.9	3164.6	1923.3	1799.2	1768.5	1617.5	1424.3	1228.5	1199.0
52.5°	9153.5	8417.7	6237.1	3185.1	1714.8	1693.0	1643.1	1488.3	1309.1	1141.5	1103.1
55°	9409.4	8633.9	6235.8	3069.9	1540.7	1533.0	1485.7	1366.7	1225.9	1085.2	1062.1
57.5°	9514.3	8653.1	6119.4	2528.6	1387.2	1338.5	1328.3	1265.6	1142.7	1009.7	984.1
60°	9584.7	8568.7	5899.3	1726.3	1193.9	1159.4	1209.3	1167.1	1055.7	916.2	890.6
62.5°	9515.6	8476.5	5322.1	1246.4	1046.8	1066.0	1113.3	1067.2	950.8	824.1	802.4
65°	9350.5	8124.6	4202.4	971.3	981.5	1023.7	1060.8	984.1	770.4	645.0	632.2
67.5°	8900.1	7455.3	2703.9	890.6	944.4	987.9	1000.7	833.1	697.4	577.1	563.1
70°	7951.9	5985.0	1041.6	839.5	907.3	926.5	874.0	764.0	641.1	537.5	524.7
72.5°	6220.5	3929.9	601.4	767.8	827.9	810.0	811.3	685.9	578.4	479.9	469.6
75°	3865.9	1423.0	534.9	683.3	701.3	734.5	692.3	595.0	497.8	438.9	426.1
77.5°	1278.4	404.4	495.2	588.6	628.3	604.0	579.7	508.0	426.1	380.1	373.7
80°	309.7	303.3	444.0	460.7	492.7	451.7	449.2	422.3	359.6	332.7	326.3
82.5°	190.7	217.5	353.2	286.6	328.9	332.7	378.8	348.1	262.3	272.6	263.6
85°	117.7	167.6	185.6	138.2	139.5	186.8	226.5	209.9	157.4	148.4	147.2
87.5°	39.7	34.6	39.7	29.4	39.7	67.8	102.4	97.3	65.3	44.8	42.2
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)