

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: P510129

Luminaire Tested: **VERD-M-CA4-210-730-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510129
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-CA4-210-730-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 960mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29519 lumens
Efficiency: N/A
Efficacy: 138.2 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

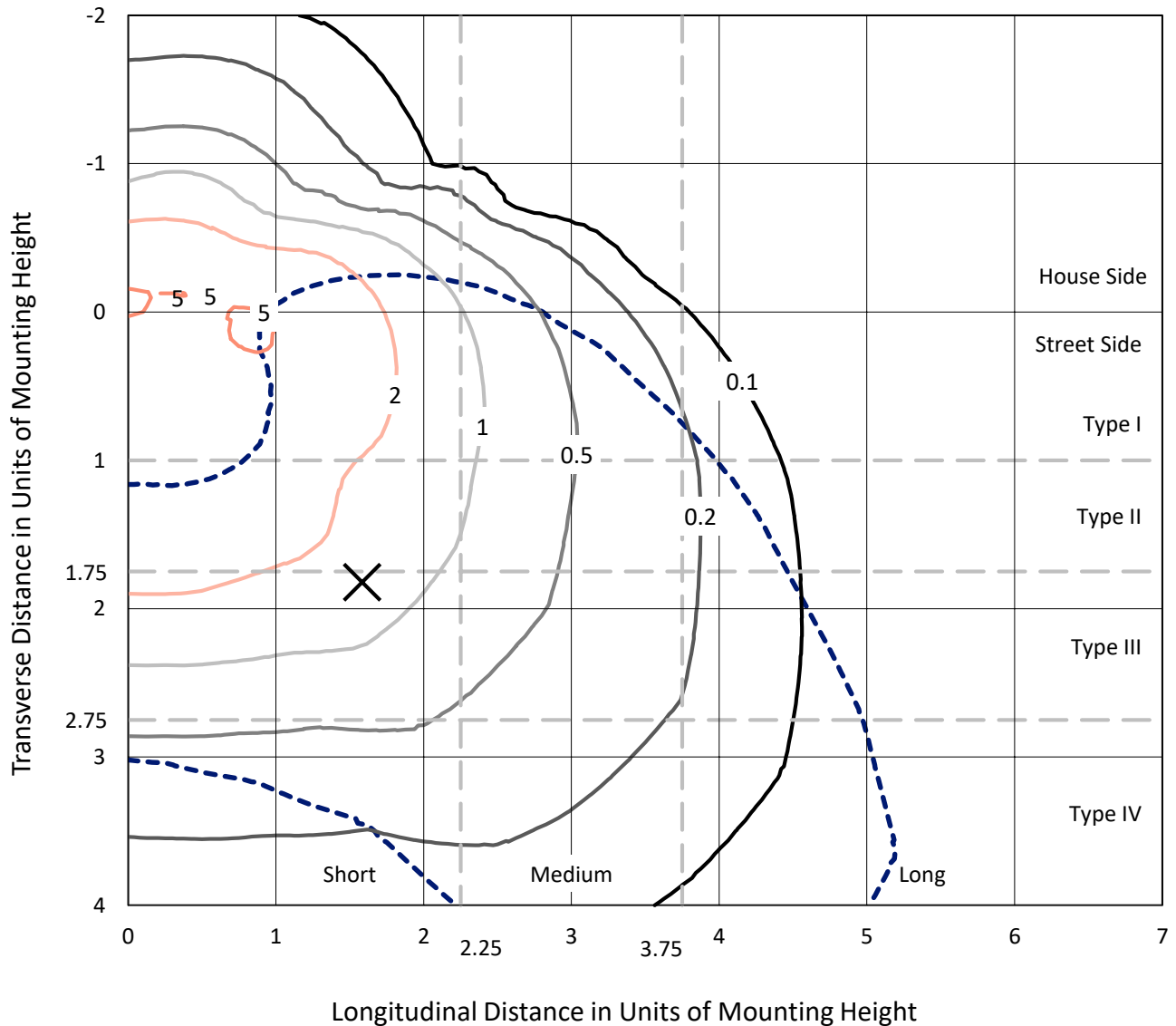
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510129
 CATALOG NUMBER: VERD-M-CA4-210-730-U-T4

Iso-Footcandle Lines of Horizontal Illumination

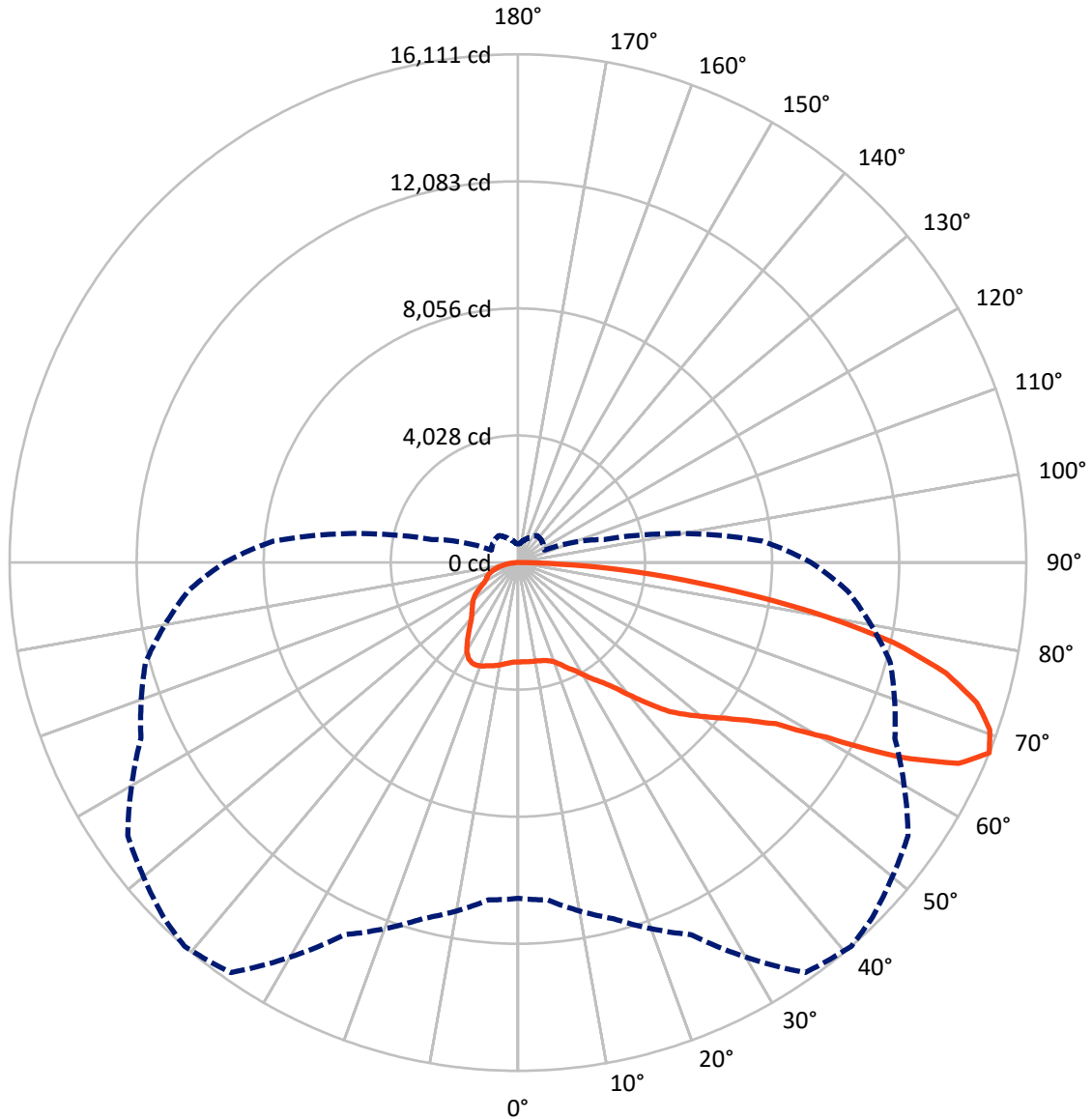
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P510129
CATALOG NUMBER: VERD-M-CA4-210-730-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510129

CATALOG NUMBER: VERD-M-CA4-210-730-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6680.0	0.0	6680.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22839.0	0.0	22839.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	29519.0	0.0	29519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.0
10°-20°	944.5	3.2
20°-30°	1689.1	5.7
30°-40°	2648.5	9.0
40°-50°	4107.1	13.9
50°-60°	5789.9	19.6
60°-70°	7380.8	25.0
70°-80°	5523.3	18.7
80°-90°	1131.2	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°	29519.0	100.0
0°-180°	29519.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510129

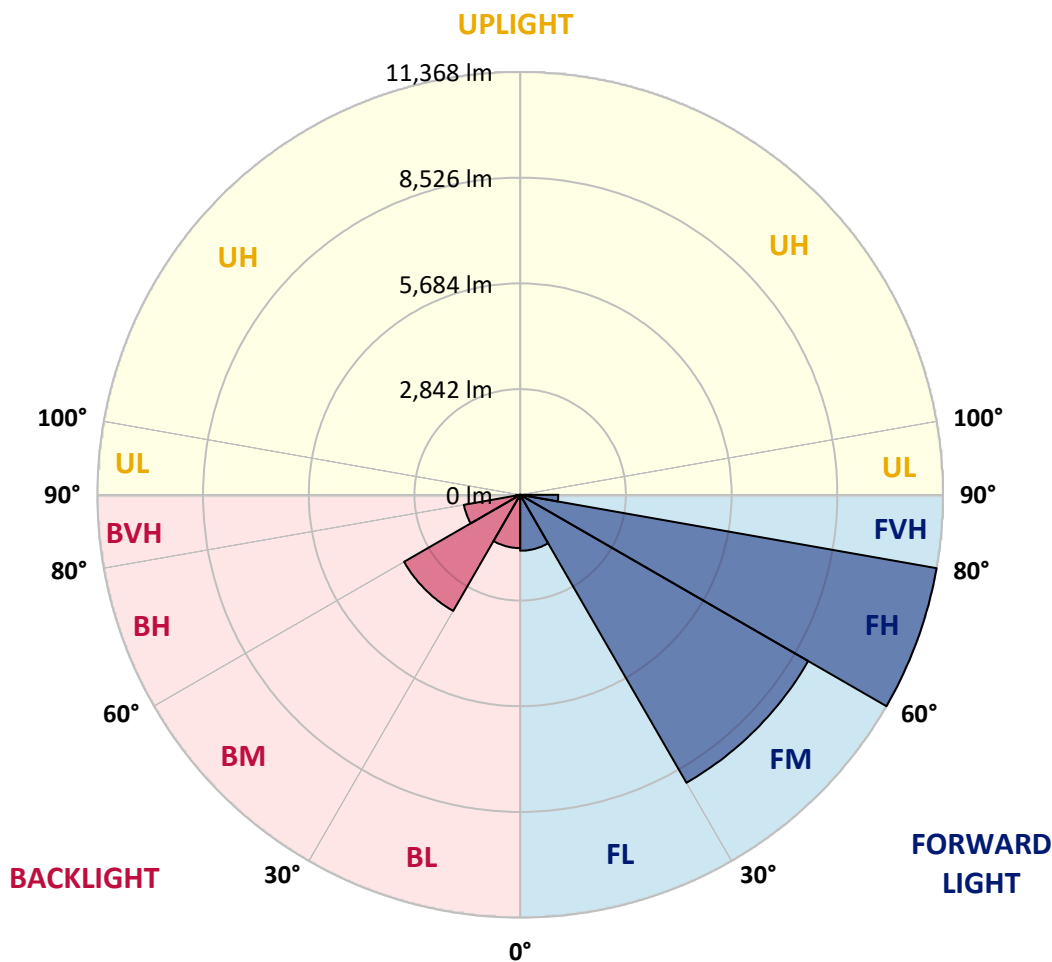
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1504.0	5.1			
FM	(30°-60°)	8941.1	30.3			
FH	(60°-80°)	11368.4	38.5			G4/12000
FVH	(80°-90°)	1025.5	3.5			G5
BL	(0°-30°)	1434.2	4.9	B3/2500		
BM	(30°-60°)	3604.4	12.2	B3/5000		
BH	(60°-80°)	1535.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	105.7	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





REPORT NUMBER: P510129

CATALOG NUMBER: VERD-M-CA4-210-730-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7
2.5°	3112.9	3149.0	3143.6	3137.0	3147.7	3149.0	3118.3	3130.3	3137.0	3147.7	3165.0
5°	3120.9	3157.0	3154.3	3142.3	3150.3	3154.3	3126.3	3147.7	3147.7	3151.7	3171.7
7.5°	3103.6	3138.3	3138.3	3134.3	3151.7	3167.7	3142.3	3161.0	3171.7	3182.4	3195.8
10°	3087.5	3116.9	3127.6	3124.9	3165.0	3169.0	3151.7	3197.1	3214.5	3225.1	3241.2
12.5°	3070.2	3106.2	3120.9	3135.6	3178.4	3193.1	3183.7	3230.5	3266.6	3285.3	3302.6
15°	3062.1	3102.2	3126.3	3147.7	3194.4	3221.1	3221.1	3291.9	3334.7	3358.7	3389.5
17.5°	3118.3	3159.7	3178.4	3195.8	3238.5	3274.6	3271.9	3354.7	3417.5	3454.9	3511.1
20°	3257.2	3306.6	3317.3	3324.0	3350.7	3364.1	3360.1	3449.6	3536.4	3607.2	3670.0
22.5°	3499.0	3528.4	3533.8	3507.0	3513.7	3524.4	3517.7	3567.2	3666.0	3748.9	3861.1
25°	3696.8	3743.5	3730.2	3691.4	3696.8	3711.5	3691.4	3767.6	3838.4	3946.6	4060.2
27.5°	3905.2	3939.9	3925.2	3901.2	3895.8	3885.1	3881.1	3978.7	4082.9	4168.4	4336.7
30°	4159.0	4177.7	4135.0	4124.3	4133.6	4140.3	4114.9	4239.2	4334.0	4456.9	4684.1
32.5°	4586.5	4603.9	4542.5	4378.1	4382.1	4412.9	4391.5	4547.8	4726.8	4876.5	5107.6
35°	5131.6	5131.6	5083.5	4852.4	4677.4	4678.7	4684.1	4904.5	5237.2	5572.5	5810.3
37.5°	5683.4	5702.1	5611.3	5400.2	5178.4	5060.8	4962.0	5245.2	5680.7	6428.9	6783.0
40°	6257.9	6287.3	6151.0	5957.3	5702.1	5568.5	5453.6	5626.0	6213.8	7277.3	7557.8
42.5°	6760.2	6801.7	6661.4	6457.0	6279.3	6128.3	5954.6	6024.1	6800.3	8082.9	8241.9
45°	7227.8	7250.6	7131.7	6963.3	6816.4	6733.5	6611.9	6692.1	7471.0	8871.1	8841.8
47.5°	7572.5	7605.9	7497.7	7406.9	7255.9	7206.5	7205.1	7425.6	8225.9	9499.1	9362.8
50°	8132.3	8106.9	7863.8	7752.9	7660.7	7676.7	7715.5	8096.3	9113.0	10104.3	9801.0
52.5°	9071.5	9024.8	8485.0	8253.9	8140.3	8192.5	8212.5	8704.1	10008.1	10626.7	10163.1
55°	10286.0	10136.4	9743.6	9123.7	8766.9	8816.4	8793.7	9357.5	10724.2	11125.0	10431.6
57.5°	11088.9	11229.2	11040.8	10686.8	9801.0	9639.4	9585.9	10004.1	11386.9	11602.0	10709.5
60°	11786.3	12018.8	12318.1	12090.9	11851.8	11246.6	10748.3	10738.9	11970.7	11919.9	10821.7
62.5°	12522.5	12645.4	13106.3	13246.6	13690.2	13579.3	12911.3	11668.8	12554.5	12152.4	10887.2
65°	11778.3	11942.6	12781.7	13547.2	15189.2	15349.5	15131.7	13397.6	12959.4	12271.3	10793.7
67.5°	10645.4	10736.2	11686.1	13014.1	15867.9	16111.0	15891.9	15094.3	13183.8	12219.2	10505.1
70°	9193.1	9300.0	10207.2	12018.8	15833.1	15865.2	15779.7	15250.6	13094.3	11974.7	9778.3
72.5°	7453.6	7588.6	8386.2	10267.3	15074.3	15213.2	15078.3	14940.7	12843.1	11290.7	8526.5
75°	5639.3	5818.4	6530.4	8185.8	13321.4	14021.5	14038.9	14463.7	11867.8	9679.4	6188.4
77.5°	3846.4	4017.4	4692.1	6236.5	11058.2	12176.5	12467.7	12932.6	9915.9	7153.0	3376.1
80°	2165.7	2149.7	3006.0	4455.6	8434.3	9416.2	9782.3	9763.6	6963.3	3672.7	688.0
82.5°	1000.7	1003.3	1537.8	2844.4	5710.1	6358.1	6506.4	5663.4	2443.6	622.6	219.1
85°	498.3	503.7	740.2	1426.9	3223.8	3724.8	3540.4	2356.7	523.7	181.7	130.9
87.5°	197.7	189.7	292.6	586.5	1163.7	1233.1	1076.8	471.6	94.9	64.1	44.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510129

CATALOG NUMBER: VERD-M-CA4-210-730-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7
2.5°	3161.0	3163.7	3175.7	3151.7	3158.3	3153.0	3149.0	3170.4	3169.0	3173.0	3166.4
5°	3170.4	3177.0	3189.1	3178.4	3189.1	3183.7	3187.7	3217.1	3221.1	3219.8	3219.8
7.5°	3195.8	3202.4	3225.1	3211.8	3235.8	3229.2	3230.5	3258.5	3263.9	3255.9	3253.2
10°	3249.2	3254.5	3286.6	3283.9	3293.3	3287.9	3282.6	3294.6	3291.9	3279.9	3274.6
12.5°	3310.6	3325.3	3361.4	3362.8	3374.8	3348.1	3320.0	3316.0	3308.0	3289.3	3285.3
15°	3402.8	3420.2	3475.0	3461.6	3453.6	3396.2	3349.4	3312.0	3279.9	3263.9	3249.2
17.5°	3535.1	3564.5	3640.6	3599.2	3540.4	3456.3	3374.8	3293.3	3225.1	3167.7	3145.0
20°	3703.4	3736.8	3801.0	3746.2	3656.7	3531.1	3398.8	3251.9	3103.6	2976.6	2957.9
22.5°	3903.8	3957.3	4004.0	3878.5	3746.2	3587.2	3398.8	3187.7	2941.9	2752.2	2705.4
25°	4137.6	4179.1	4164.4	3988.0	3797.0	3596.6	3361.4	3074.2	2726.8	2506.4	2469.0
27.5°	4391.5	4410.2	4296.6	4040.1	3802.3	3541.8	3255.9	2872.4	2475.6	2302.0	2265.9
30°	4704.1	4648.0	4431.6	4072.2	3748.9	3420.2	3067.5	2577.2	2271.2	2118.9	2077.5
32.5°	5040.8	4937.9	4527.8	4049.5	3631.3	3217.1	2776.2	2368.8	2135.0	1949.2	1914.5
35°	5682.1	5389.5	4668.0	3981.3	3426.9	2945.9	2494.3	2208.4	1990.7	1791.6	1759.5
37.5°	6547.8	6038.8	4864.4	3886.5	3185.1	2682.7	2284.6	2037.4	1849.0	1643.3	1592.5
40°	7221.2	6694.8	5179.7	3784.9	2961.9	2432.9	2132.3	1947.9	1755.5	1536.4	1492.3
42.5°	7862.5	7294.6	5567.2	3671.4	2732.2	2259.2	2065.5	1927.9	1730.1	1507.0	1465.6
45°	8428.9	7779.6	5901.2	3557.8	2473.0	2098.9	2016.0	1889.1	1694.1	1469.6	1429.5
47.5°	8887.2	8196.5	6191.1	3434.9	2237.8	1977.3	1951.9	1818.3	1624.6	1393.5	1345.4
50°	9301.3	8549.2	6391.5	3304.0	2008.0	1878.4	1846.4	1688.7	1487.0	1282.6	1251.8
52.5°	9556.5	8788.3	6511.7	3325.3	1790.3	1767.5	1715.4	1553.8	1366.7	1191.7	1151.6
55°	9823.7	9014.1	6510.4	3205.1	1608.6	1600.5	1551.1	1426.9	1279.9	1132.9	1108.9
57.5°	9933.3	9034.1	6388.8	2640.0	1448.2	1397.5	1386.8	1321.3	1193.1	1054.1	1027.4
60°	10006.8	8946.0	6159.0	1802.3	1246.5	1210.4	1262.5	1218.4	1102.2	956.6	929.9
62.5°	9934.6	8849.8	5556.5	1301.3	1092.9	1112.9	1162.3	1114.2	992.7	860.4	837.7
65°	9762.3	8482.4	4387.5	1014.0	1024.7	1068.8	1107.6	1027.4	804.3	673.4	660.0
67.5°	9292.0	7783.6	2823.0	929.9	986.0	1031.4	1044.8	869.7	728.1	602.5	587.8
70°	8302.0	6248.5	1087.5	876.4	947.2	967.3	912.5	797.6	669.3	561.1	547.8
72.5°	6494.4	4102.9	627.9	801.6	864.4	845.7	847.0	716.1	603.9	501.0	490.3
75°	4036.1	1485.6	558.5	713.4	732.1	766.9	722.8	621.2	519.7	458.3	444.9
77.5°	1334.7	422.2	517.0	614.6	656.0	630.6	605.2	530.4	444.9	396.8	390.1
80°	323.3	316.6	463.6	481.0	514.4	471.6	468.9	440.9	375.4	347.4	340.7
82.5°	199.1	227.1	368.7	299.3	343.4	347.4	395.5	363.4	273.9	284.6	275.2
85°	122.9	175.0	193.7	144.3	145.6	195.1	236.5	219.1	164.3	155.0	153.6
87.5°	41.4	36.1	41.4	30.7	41.4	70.8	106.9	101.5	68.1	46.8	44.1
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)