

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: P636945

Luminaire Tested: **IFLD-S-SA3A-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7327.6 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

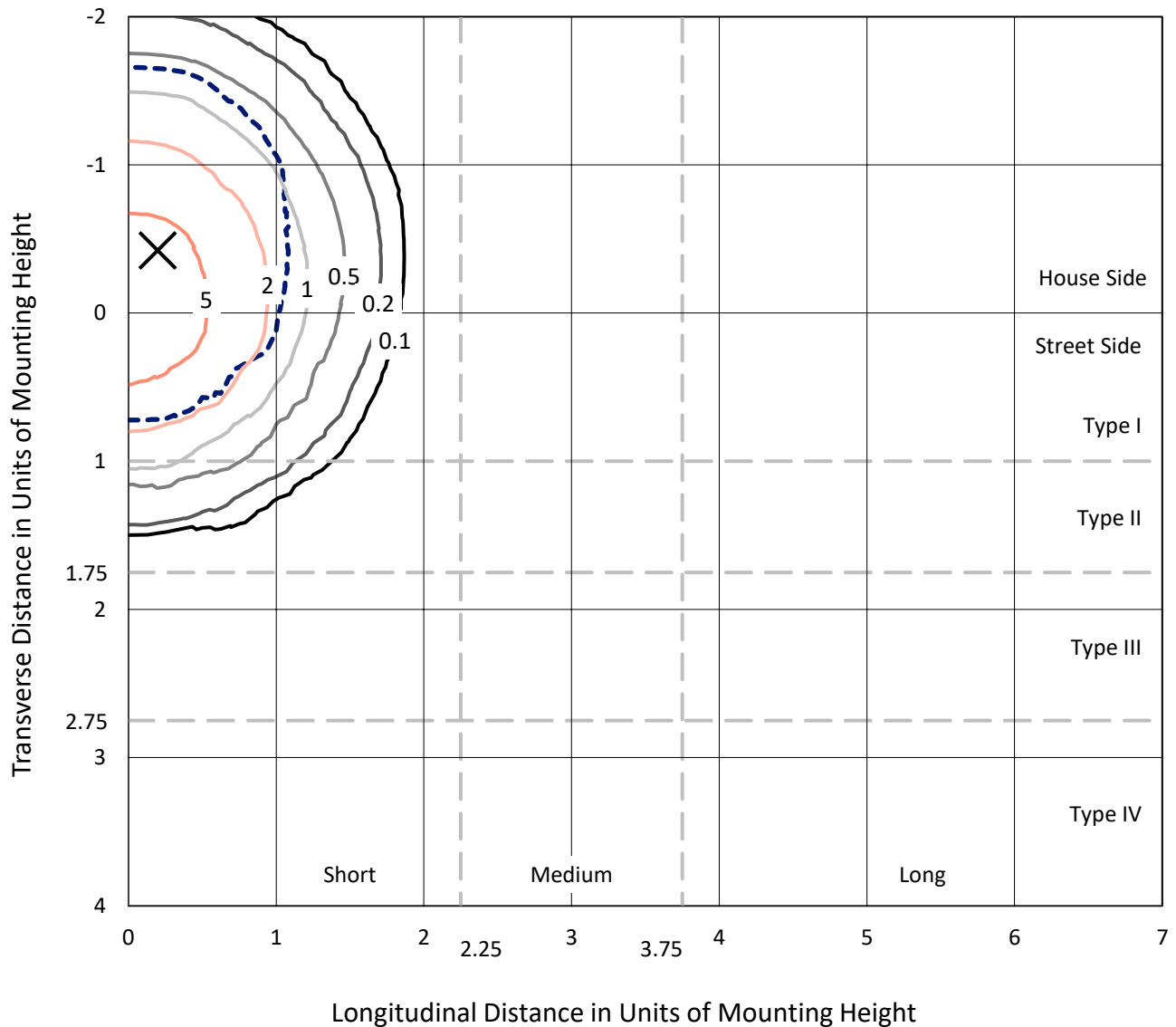
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

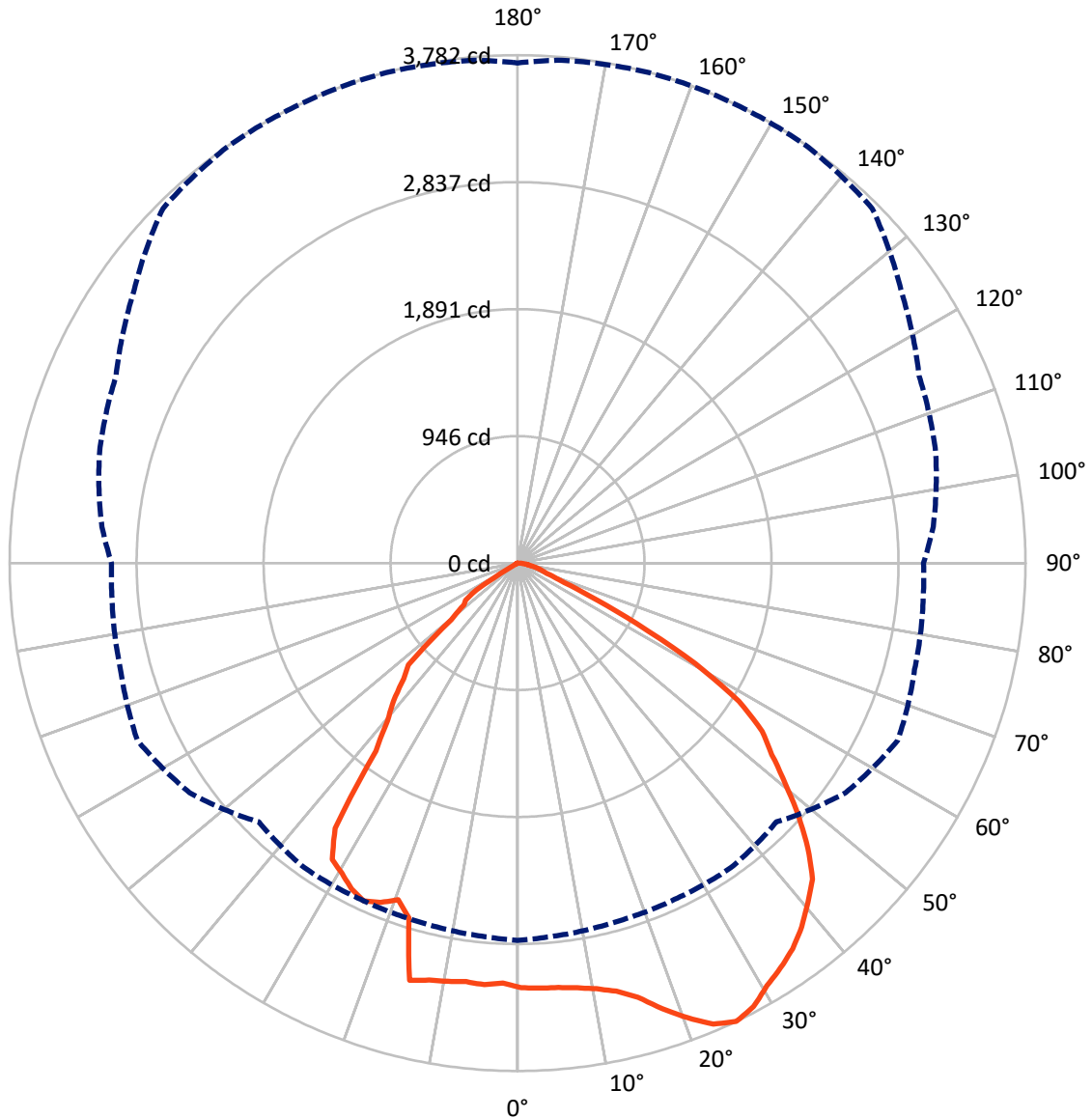
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4536.5	0.0	4536.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2791.0	0.0	2791.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	7327.6	0.0	7327.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	4.1
10°-20°	926.2	12.6
20°-30°	1464.2	20.0
30°-40°	1654.0	22.6
40°-50°	1549.0	21.1
50°-60°	1067.9	14.6
60°-70°	286.9	3.9
70°-80°	59.8	0.8
80°-90°	16.2	0.2
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°	7327.6	100.0
0°-180°	7327.6	100.0



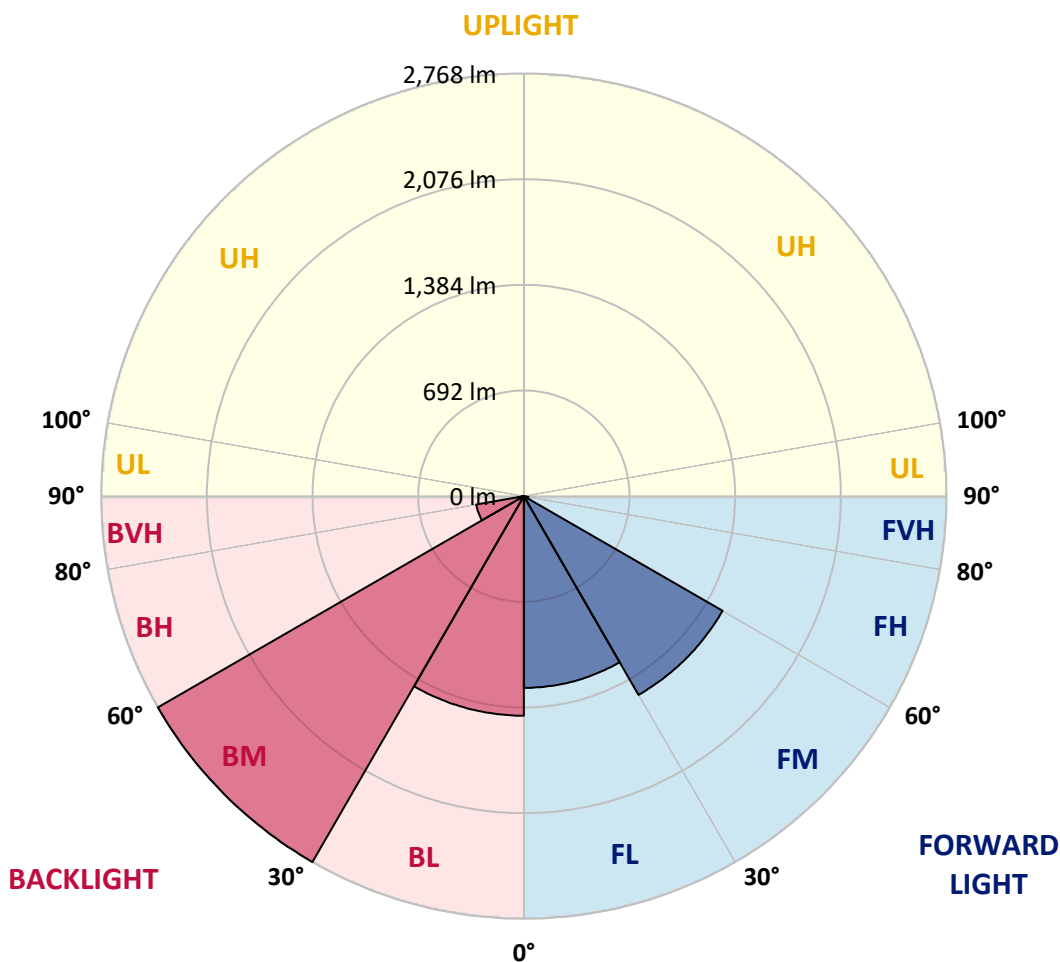
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.7	17.1			
FM (30°-60°)	1503.0	20.5			
FH (60°-80°)	30.1	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1438.0	19.6	B3/2500		
BM (30°-60°)	2767.9	37.8	B3/5000		
BH (60°-80°)	316.6	4.3	B1/500		G1/500
BVH (80°-90°)	14.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7
2.5°	3175.7	3155.2	3135.9	3129.4	3156.3	3185.4	3167.1	3168.2	3161.7	3173.6
5°	3199.4	3171.4	3158.5	3148.8	3153.1	3183.2	3157.4	3167.1	3156.3	3170.3
7.5°	3190.8	3171.4	3158.5	3140.2	3154.2	3189.7	3164.9	3166.0	3160.6	3173.6
10°	3185.4	3171.4	3155.2	3157.4	3173.6	3203.7	3184.3	3195.1	3187.6	3195.1
12.5°	3198.3	3183.2	3174.6	3174.6	3188.6	3223.1	3213.4	3223.1	3219.9	3226.3
15°	3076.6	3090.6	3172.5	3209.1	3237.1	3271.5	3267.2	3276.9	3279.1	3288.8
17.5°	2595.3	2581.3	2574.8	2763.3	3264.0	3370.6	3367.4	3366.3	3355.5	3348.0
20°	2658.8	2653.4	2645.9	2659.9	2715.9	3422.3	3443.8	3311.4	3272.6	3269.4
22.5°	2760.0	2751.4	2723.4	2724.5	2741.7	2975.4	3337.2	3216.6	3203.7	3196.2
25°	2809.6	2792.3	2769.7	2763.3	2768.6	2725.6	2980.8	3124.0	3060.5	3031.4
27.5°	2722.3	2723.4	2705.1	2722.3	2701.9	2508.0	2399.3	2943.1	2940.9	2928.0
30°	2656.7	2653.4	2631.9	2653.4	2512.4	2295.9	2249.6	2745.0	2722.3	2705.1
32.5°	2455.3	2457.4	2519.9	2603.9	2372.4	2201.1	2061.1	2452.0	2666.3	2656.7
35°	1756.4	1760.7	1982.5	2397.1	2160.2	2012.7	2001.9	2119.3	2578.0	2582.3
37.5°	1690.7	1690.7	1685.3	1753.2	1993.3	1936.2	1957.8	1945.9	2361.6	2372.4
40°	1643.3	1633.6	1626.1	1519.5	1385.9	1882.4	1897.5	1843.6	2232.4	2234.5
42.5°	1586.2	1575.5	1577.6	1380.6	1240.6	1748.8	1706.8	1634.7	2017.0	2019.1
45°	1481.8	1500.1	1513.0	1208.3	1197.5	1249.2	1574.4	1529.2	1871.6	1911.5
47.5°	753.8	770.0	1181.3	1111.3	1136.1	1110.3	1329.9	1331.0	1557.2	1689.6
50°	683.8	679.5	680.6	648.3	1048.9	898.1	961.7	1220.1	1247.0	1436.6
52.5°	637.5	636.4	570.7	507.2	659.0	790.4	697.8	883.0	927.2	1216.9
55°	471.7	506.1	450.1	477.1	412.4	633.2	630.0	796.9	812.0	975.6
57.5°	4.3	5.4	12.9	362.9	285.4	316.6	435.1	543.8	570.7	760.3
60°	1.1	2.2	5.4	10.8	185.2	194.9	290.8	314.4	354.3	453.4
62.5°	0.0	0.0	2.2	5.4	9.7	79.7	92.6	101.2	156.1	231.5
65°	0.0	0.0	1.1	3.2	5.4	12.9	22.6	47.4	67.8	84.0
67.5°	0.0	0.0	1.1	2.2	4.3	6.5	12.9	18.3	29.1	49.5
70°	0.0	0.0	1.1	2.2	3.2	5.4	8.6	12.9	17.2	24.8
72.5°	0.0	0.0	1.1	2.2	2.2	6.5	6.5	9.7	12.9	16.2
75°	0.0	0.0	1.1	1.1	2.2	4.3	6.5	7.5	8.6	12.9
77.5°	0.0	0.0	1.1	2.2	3.2	4.3	5.4	8.6	7.5	7.5
80°	0.0	0.0	1.1	3.2	3.2	5.4	6.5	8.6	5.4	5.4
82.5°	0.0	0.0	1.1	4.3	3.2	10.8	10.8	11.8	4.3	4.3
85°	0.0	0.0	3.2	2.2	6.5	10.8	9.7	6.5	5.4	3.2
87.5°	0.0	0.0	1.1	1.1	2.2	3.2	7.5	6.5	2.2	2.2
90°	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°
3161.7	0°	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7
3142.3	2.5°	3185.4	3171.4	3200.5	3197.2	3183.2	3176.8	3169.2	3162.8	3115.4
3144.5	5°	3186.5	3164.9	3200.5	3194.0	3191.9	3181.1	3174.6	3184.3	3141.2
3153.1	7.5°	3186.5	3164.9	3203.7	3205.9	3202.6	3194.0	3192.9	3199.4	3163.9
3168.2	10°	3208.0	3199.4	3231.7	3234.9	3230.6	3228.5	3223.1	3218.8	3181.1
3219.9	12.5°	3253.2	3236.0	3272.6	3282.3	3279.1	3284.5	3271.5	3278.0	3239.2
3272.6	15°	3308.2	3309.2	3337.2	3358.8	3356.6	3373.9	3354.5	3371.7	3343.7
3332.9	17.5°	3392.2	3404.0	3443.8	3476.2	3488.0	3500.9	3488.0	3493.4	3453.5
3266.2	20°	3303.9	3348.0	3539.7	3598.9	3623.7	3635.5	3614.0	3620.5	3580.6
3184.3	22.5°	3224.2	3281.2	3451.4	3636.6	3713.1	3736.8	3729.2	3728.1	3713.1
3022.8	25°	3106.8	3222.0	3298.5	3494.5	3734.6	3777.7	3782.0	3780.9	3758.3
2923.7	27.5°	2962.5	2988.3	3186.5	3306.0	3583.8	3747.5	3741.1	3709.8	3679.7
2718.0	30°	2778.3	2895.7	2985.1	3175.7	3388.9	3654.9	3654.9	3631.2	3600.0
2644.8	32.5°	2684.7	2836.5	2919.4	2988.3	3170.3	3551.5	3594.6	3569.8	3545.1
2587.7	35°	2635.1	2657.7	2851.6	2914.0	3068.0	3352.3	3526.8	3502.0	3483.7
2435.9	37.5°	2526.4	2579.1	2669.6	2836.5	2883.9	3189.7	3436.3	3423.4	3401.9
2238.8	40°	2284.1	2425.1	2564.0	2722.3	2771.9	2980.8	3326.5	3331.9	3302.8
2028.8	42.5°	2140.8	2236.7	2454.2	2560.8	2694.3	2846.2	3219.9	3228.5	3208.0
1922.2	45°	1972.8	2079.4	2232.4	2426.2	2608.2	2661.0	3031.4	3121.9	3104.6
1710.1	47.5°	1818.8	1905.0	2092.4	2288.4	2489.7	2482.2	2815.0	2985.1	2961.4
1547.5	50°	1600.2	1751.0	1839.3	2019.1	2319.6	2340.1	2584.5	2824.6	2805.3
1314.9	52.5°	1349.3	1538.9	1707.9	1872.7	2147.3	2195.8	2370.2	2661.0	2648.0
1004.7	55°	1179.2	1317.0	1507.6	1640.1	1938.4	2067.6	2209.7	2504.8	2498.4
826.0	57.5°	838.9	1104.9	1262.1	1447.3	1604.5	1838.2	1943.8	2187.1	2126.8
457.7	60°	568.6	693.5	885.2	1084.4	1189.9	1423.6	1521.6	1716.5	1700.4
273.5	62.5°	300.4	415.7	552.4	652.6	729.0	956.3	997.2	1207.2	1201.8
109.8	65°	132.5	175.5	299.4	351.1	429.7	535.2	570.7	646.1	627.8
53.8	67.5°	68.9	104.5	169.1	207.8	261.7	301.5	330.6	354.3	369.4
35.5	70°	42.0	76.5	104.5	144.3	179.8	212.1	234.8	267.1	286.4
18.3	72.5°	31.2	48.5	72.2	110.9	130.3	168.0	190.6	214.3	231.5
15.1	75°	17.2	32.3	58.2	87.2	104.5	136.8	157.2	173.4	178.8
8.6	77.5°	10.8	24.8	48.5	67.8	81.8	110.9	105.5	120.6	133.5
6.5	80°	7.5	18.3	37.7	56.0	57.1	71.1	84.0	96.9	105.5
4.3	82.5°	5.4	15.1	28.0	43.1	37.7	54.9	65.7	75.4	54.9
3.2	85°	4.3	10.8	14.0	25.8	21.5	38.8	33.4	32.3	21.5
2.2	87.5°	3.2	5.4	9.7	11.8	8.6	8.6	10.8	12.9	10.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3161.7
3083.1
3104.6
3122.9
3149.9
3204.8
3297.4
3419.1
3552.6
3664.6
3723.8
3656.0
3588.2
3524.6
3457.8
3380.3
3296.3
3205.9
3106.8
2978.6
2808.5
2656.7
2505.9
2120.4
1701.5
1202.9
620.3
369.4
287.5
234.8
175.5
135.7
106.6
39.8
21.5
10.8
0.0

(END OF REPORT)