

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: P638448

Luminaire Tested: **IFLD-S-SA2A-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638448
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6960.3 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

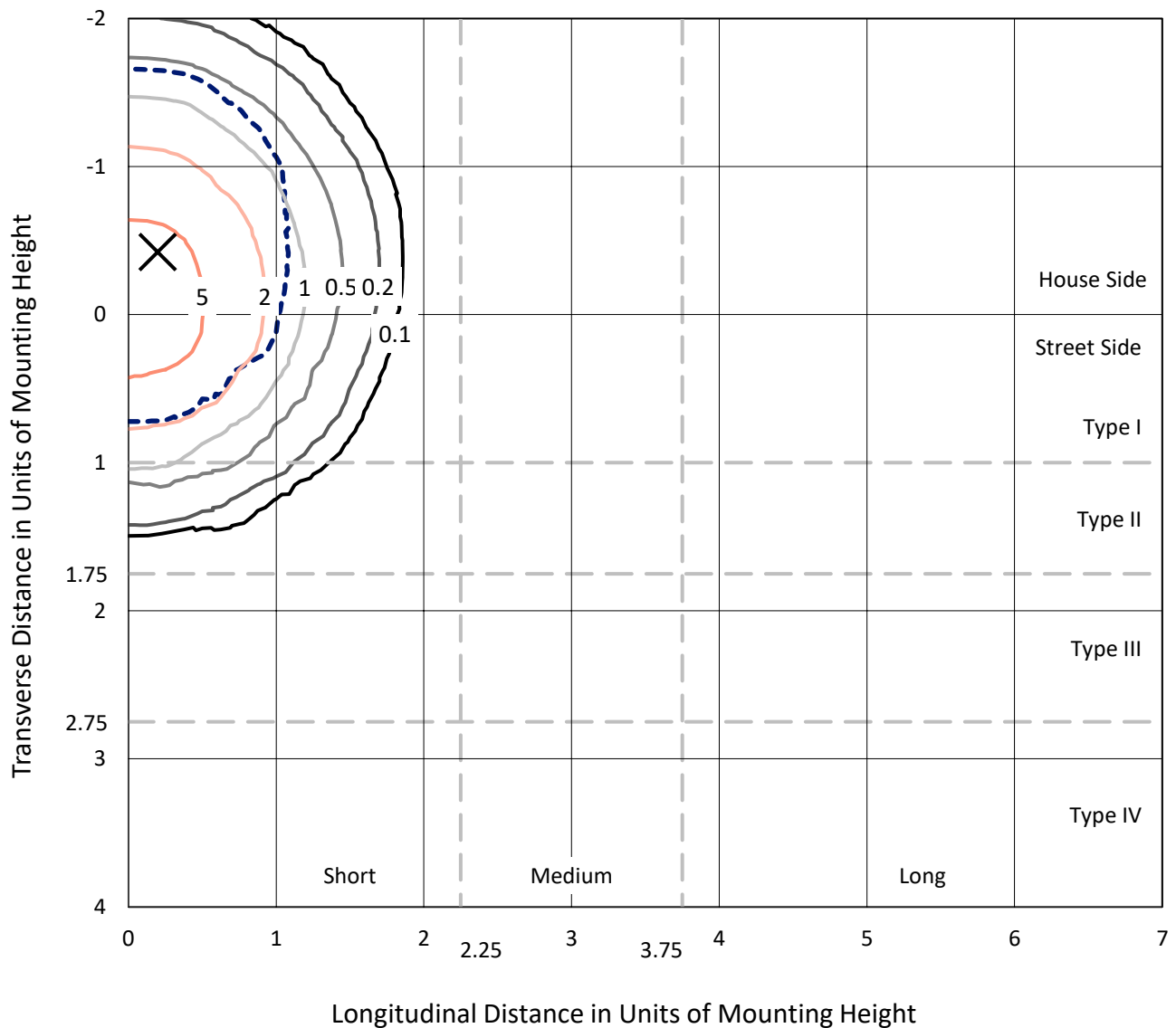
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

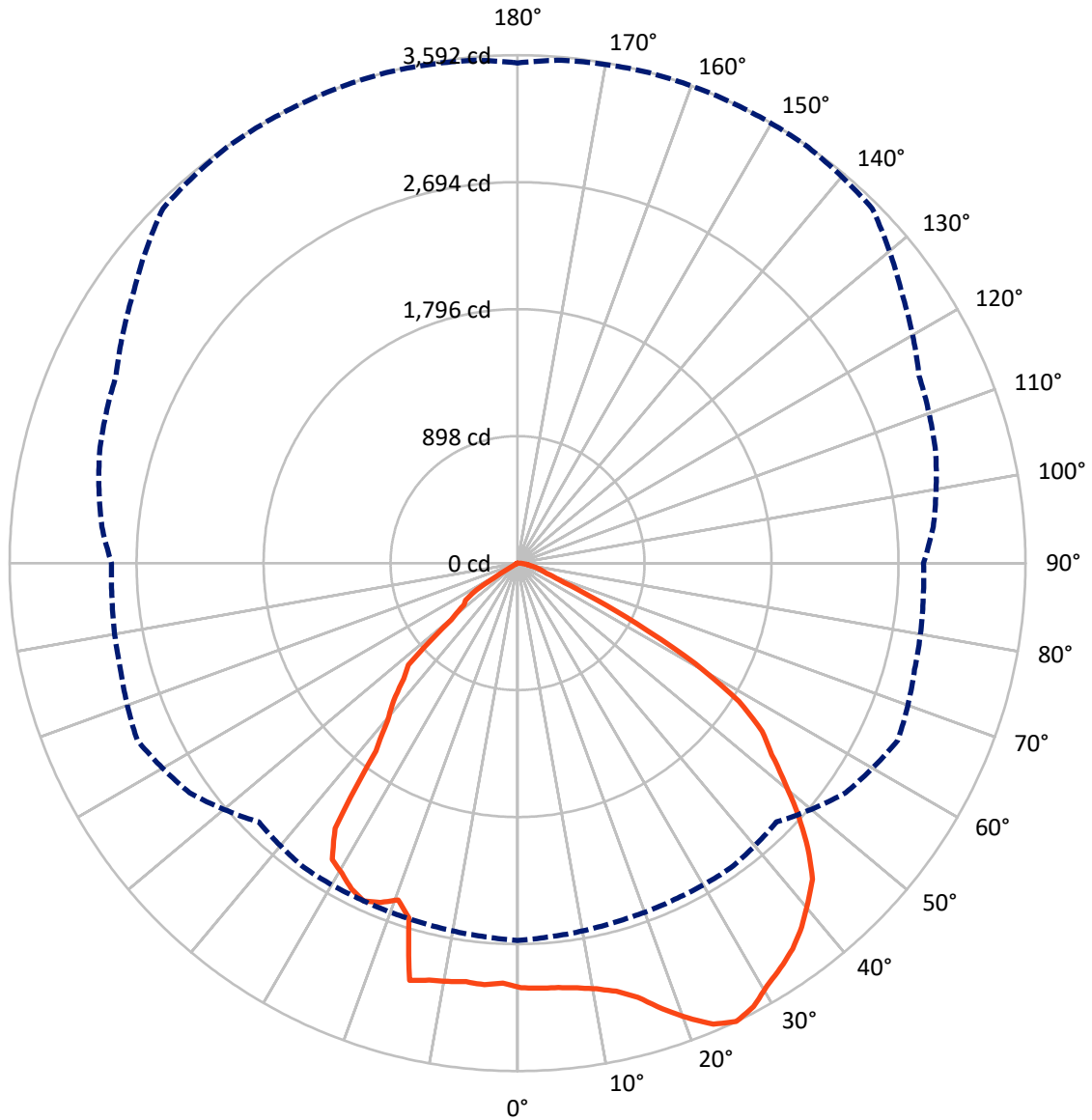
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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	4309.1	0.0	4309.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2651.2	0.0	2651.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	6960.3	0.0	6960.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	4.1
10°-20°	879.8	12.6
20°-30°	1390.9	20.0
30°-40°	1571.1	22.6
40°-50°	1471.4	21.1
50°-60°	1014.4	14.6
60°-70°	272.5	3.9
70°-80°	56.8	0.8
80°-90°	15.4	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°	6960.3	100.0
0°-180°	6960.3	100.0



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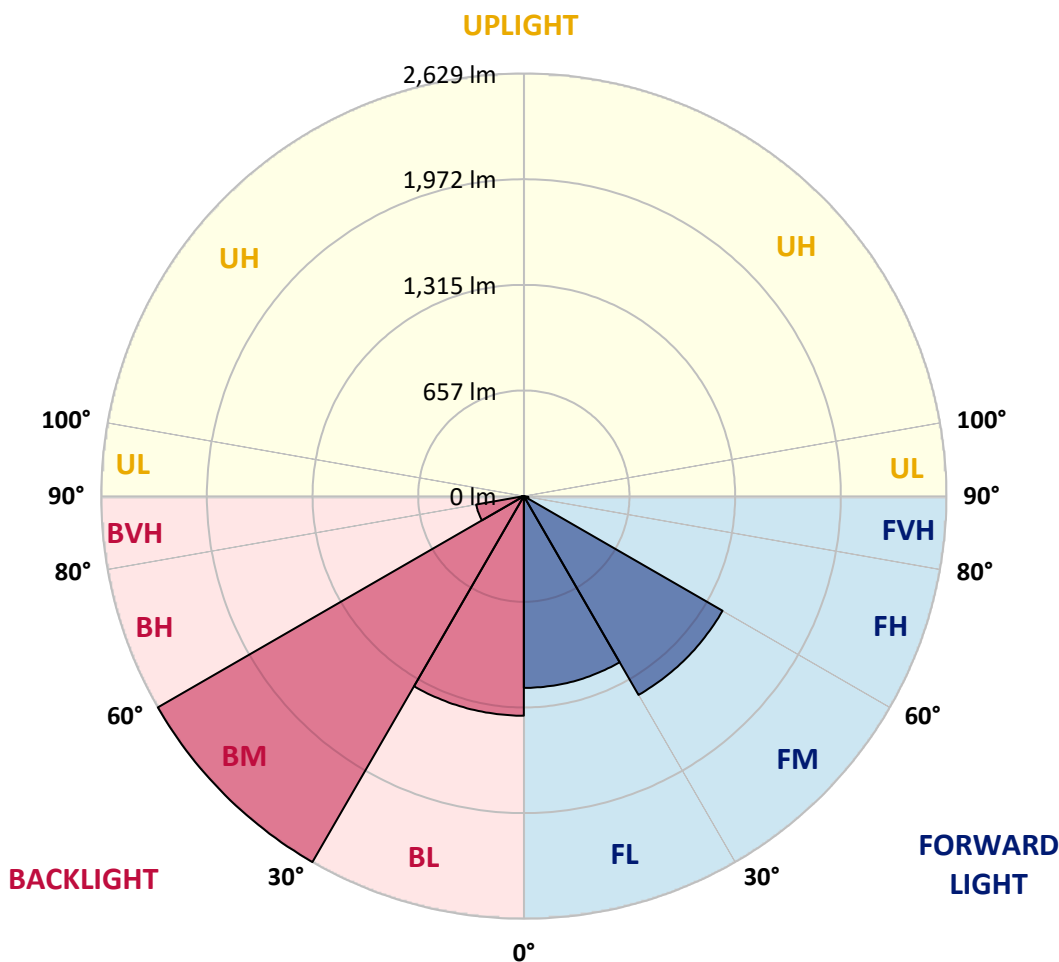
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.8	17.1			
FM (30°-60°)	1427.7	20.5			
FH (60°-80°)	28.6	0.4			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1366.0	19.6	B3/2500		
BM (30°-60°)	2629.1	37.8	B3/5000		
BH (60°-80°)	300.7	4.3	B1/500		G1/500
BVH (80°-90°)	13.3	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°	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2
2.5°	3016.5	2997.1	2978.7	2972.6	2998.1	3025.8	3008.4	3009.4	3003.2	3014.5
5°	3039.0	3012.5	3000.2	2991.0	2995.1	3023.7	2999.2	3008.4	2998.1	3011.4
7.5°	3030.9	3012.5	3000.2	2982.8	2996.1	3029.8	3006.3	3007.3	3002.2	3014.5
10°	3025.8	3012.5	2997.1	2999.2	3014.5	3043.1	3024.7	3035.0	3027.8	3035.0
12.5°	3038.0	3023.7	3015.5	3015.5	3028.8	3061.6	3052.3	3061.6	3058.5	3064.6
15°	2922.4	2935.7	3013.5	3048.3	3074.9	3107.6	3103.5	3112.7	3114.7	3124.0
17.5°	2465.2	2451.9	2445.8	2624.8	3100.4	3201.7	3198.6	3197.6	3187.4	3180.2
20°	2525.6	2520.4	2513.3	2526.6	2579.8	3250.8	3271.2	3145.4	3108.6	3105.5
22.5°	2621.7	2613.5	2586.9	2587.9	2604.3	2826.3	3170.0	3055.4	3043.1	3036.0
25°	2668.8	2652.4	2630.9	2624.8	2629.9	2589.0	2831.4	2967.4	2907.1	2879.5
27.5°	2585.9	2586.9	2569.5	2585.9	2566.5	2382.3	2279.0	2795.6	2793.6	2781.3
30°	2523.5	2520.4	2500.0	2520.4	2386.4	2180.8	2136.8	2607.4	2585.9	2569.5
32.5°	2332.2	2334.3	2393.6	2473.4	2253.5	2090.8	1957.8	2329.2	2532.7	2523.5
35°	1668.4	1672.4	1883.2	2277.0	2051.9	1911.8	1901.6	2013.1	2448.8	2452.9
37.5°	1606.0	1606.0	1600.8	1665.3	1893.4	1839.2	1859.6	1848.4	2243.2	2253.5
40°	1561.0	1551.7	1544.6	1443.3	1316.5	1788.0	1802.4	1751.2	2120.5	2122.5
42.5°	1506.7	1496.5	1498.6	1311.4	1178.4	1661.2	1621.3	1552.8	1915.9	1917.9
45°	1407.5	1424.9	1437.2	1147.7	1137.5	1186.6	1495.5	1452.5	1777.8	1815.7
47.5°	716.0	731.4	1122.1	1055.6	1079.2	1054.6	1263.3	1264.3	1479.1	1604.9
50°	649.5	645.5	646.5	615.8	996.3	853.1	913.5	1159.0	1184.5	1364.6
52.5°	605.6	604.5	542.1	481.8	626.0	750.8	662.8	838.8	880.7	1155.9
55°	448.0	480.8	427.6	453.1	391.8	601.5	598.4	756.9	771.3	926.8
57.5°	4.1	5.1	12.3	344.7	271.1	300.7	413.3	516.6	542.1	722.2
60°	1.0	2.0	5.1	10.2	175.9	185.1	276.2	298.7	336.5	430.6
62.5°	0.0	0.0	2.0	5.1	9.2	75.7	88.0	96.2	148.3	219.9
65°	0.0	0.0	1.0	3.1	5.1	12.3	21.5	45.0	64.4	79.8
67.5°	0.0	0.0	1.0	2.0	4.1	6.1	12.3	17.4	27.6	47.1
70°	0.0	0.0	1.0	2.0	3.1	5.1	8.2	12.3	16.4	23.5
72.5°	0.0	0.0	1.0	2.0	2.0	6.1	6.1	9.2	12.3	15.3
75°	0.0	0.0	1.0	1.0	2.0	4.1	6.1	7.2	8.2	12.3
77.5°	0.0	0.0	1.0	2.0	3.1	4.1	5.1	8.2	7.2	7.2
80°	0.0	0.0	1.0	3.1	3.1	5.1	6.1	8.2	5.1	5.1
82.5°	0.0	0.0	1.0	4.1	3.1	10.2	10.2	11.3	4.1	4.1
85°	0.0	0.0	3.1	2.0	6.1	10.2	9.2	6.1	5.1	3.1
87.5°	0.0	0.0	1.0	1.0	2.0	3.1	7.2	6.1	2.0	2.0
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°
3003.2	0°	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2
2984.8	2.5°	3025.8	3012.5	3040.1	3037.0	3023.7	3017.6	3010.4	3004.3	2959.3
2986.9	5°	3026.8	3006.3	3040.1	3033.9	3031.9	3021.7	3015.5	3024.7	2983.8
2995.1	7.5°	3026.8	3006.3	3043.1	3045.2	3042.1	3033.9	3032.9	3039.0	3005.3
3009.4	10°	3047.2	3039.0	3069.7	3072.8	3068.7	3066.7	3061.6	3057.5	3021.7
3058.5	12.5°	3090.2	3073.8	3108.6	3117.8	3114.7	3119.9	3107.6	3113.7	3076.9
3108.6	15°	3142.4	3143.4	3170.0	3190.4	3188.4	3204.8	3186.3	3202.7	3176.1
3165.9	17.5°	3222.1	3233.4	3271.2	3301.9	3313.2	3325.5	3313.2	3318.3	3280.5
3102.5	20°	3138.3	3180.2	3362.3	3418.5	3442.1	3453.3	3432.9	3439.0	3401.2
3024.7	22.5°	3062.6	3116.8	3278.4	3454.3	3527.0	3549.5	3542.3	3541.3	3527.0
2871.3	25°	2951.1	3060.5	3133.2	3319.3	3547.4	3588.3	3592.4	3591.4	3569.9
2777.2	27.5°	2814.0	2838.6	3026.8	3140.3	3404.2	3559.7	3553.6	3523.9	3495.3
2581.8	30°	2639.1	2750.6	2835.5	3016.5	3219.1	3471.7	3471.7	3449.2	3419.6
2512.3	32.5°	2550.1	2694.3	2773.1	2838.6	3011.4	3373.5	3414.5	3390.9	3367.4
2458.0	35°	2503.0	2524.5	2708.7	2768.0	2914.3	3184.3	3350.0	3326.5	3309.1
2313.8	37.5°	2399.7	2449.9	2535.8	2694.3	2739.3	3029.8	3264.1	3251.8	3231.4
2126.6	40°	2169.6	2303.6	2435.5	2585.9	2633.0	2831.4	3159.8	3164.9	3137.2
1927.2	42.5°	2033.5	2124.6	2331.2	2432.5	2559.3	2703.5	3058.5	3066.7	3047.2
1825.9	45°	1874.0	1975.2	2120.5	2304.6	2477.5	2527.6	2879.5	2965.4	2949.0
1624.4	47.5°	1727.7	1809.5	1987.5	2173.7	2365.0	2357.8	2673.9	2835.5	2813.0
1469.9	50°	1520.0	1663.2	1747.1	1917.9	2203.3	2222.8	2455.0	2683.1	2664.7
1249.0	52.5°	1281.7	1461.7	1622.3	1778.8	2039.7	2085.7	2251.4	2527.6	2515.3
954.4	55°	1120.1	1251.0	1432.1	1557.9	1841.2	1964.0	2099.0	2379.3	2373.1
784.6	57.5°	796.8	1049.5	1198.8	1374.8	1524.1	1746.1	1846.3	2077.5	2020.2
434.7	60°	540.1	658.8	840.8	1030.1	1130.3	1352.3	1445.4	1630.5	1615.2
259.8	62.5°	285.4	394.8	524.8	619.9	692.5	908.3	947.2	1146.7	1141.6
104.3	65°	125.8	166.7	284.4	333.5	408.1	508.4	542.1	613.7	596.4
51.1	67.5°	65.5	99.2	160.6	197.4	248.6	286.4	314.0	336.5	350.9
33.8	70°	39.9	72.6	99.2	137.1	170.8	201.5	223.0	253.7	272.1
17.4	72.5°	29.7	46.0	68.5	105.4	123.8	159.6	181.1	203.6	219.9
14.3	75°	16.4	30.7	55.2	82.9	99.2	129.9	149.3	164.7	169.8
8.2	77.5°	10.2	23.5	46.0	64.4	77.7	105.4	100.2	114.6	126.8
6.1	80°	7.2	17.4	35.8	53.2	54.2	67.5	79.8	92.1	100.2
4.1	82.5°	5.1	14.3	26.6	40.9	35.8	52.2	62.4	71.6	52.2
3.1	85°	4.1	10.2	13.3	24.5	20.5	36.8	31.7	30.7	20.5
2.0	87.5°	3.1	5.1	9.2	11.3	8.2	8.2	10.2	12.3	10.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3003.2
2928.6
2949.0
2966.4
2992.0
3044.2
3132.1
3247.7
3374.6
3480.9
3537.2
3472.8
3408.3
3348.0
3284.5
3210.9
3131.1
3045.2
2951.1
2829.4
2667.7
2523.5
2380.3
2014.1
1616.2
1142.6
589.2
350.9
273.1
223.0
166.7
128.9
101.3
37.8
20.5
10.2
0.0

(END OF REPORT)