

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: P638333

Luminaire Tested: **IFLD-S-SA2B-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638333
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7037.7 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

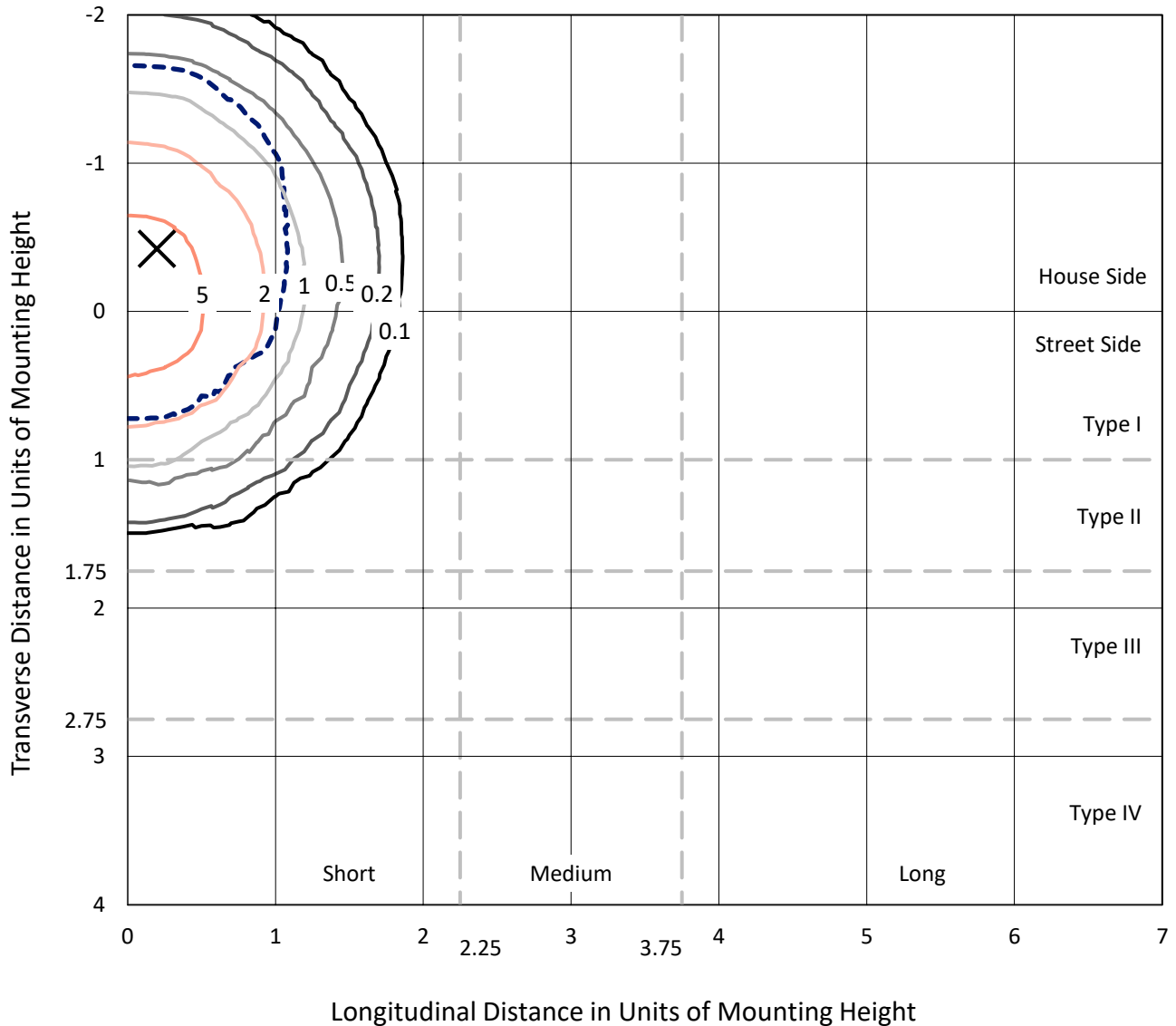
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

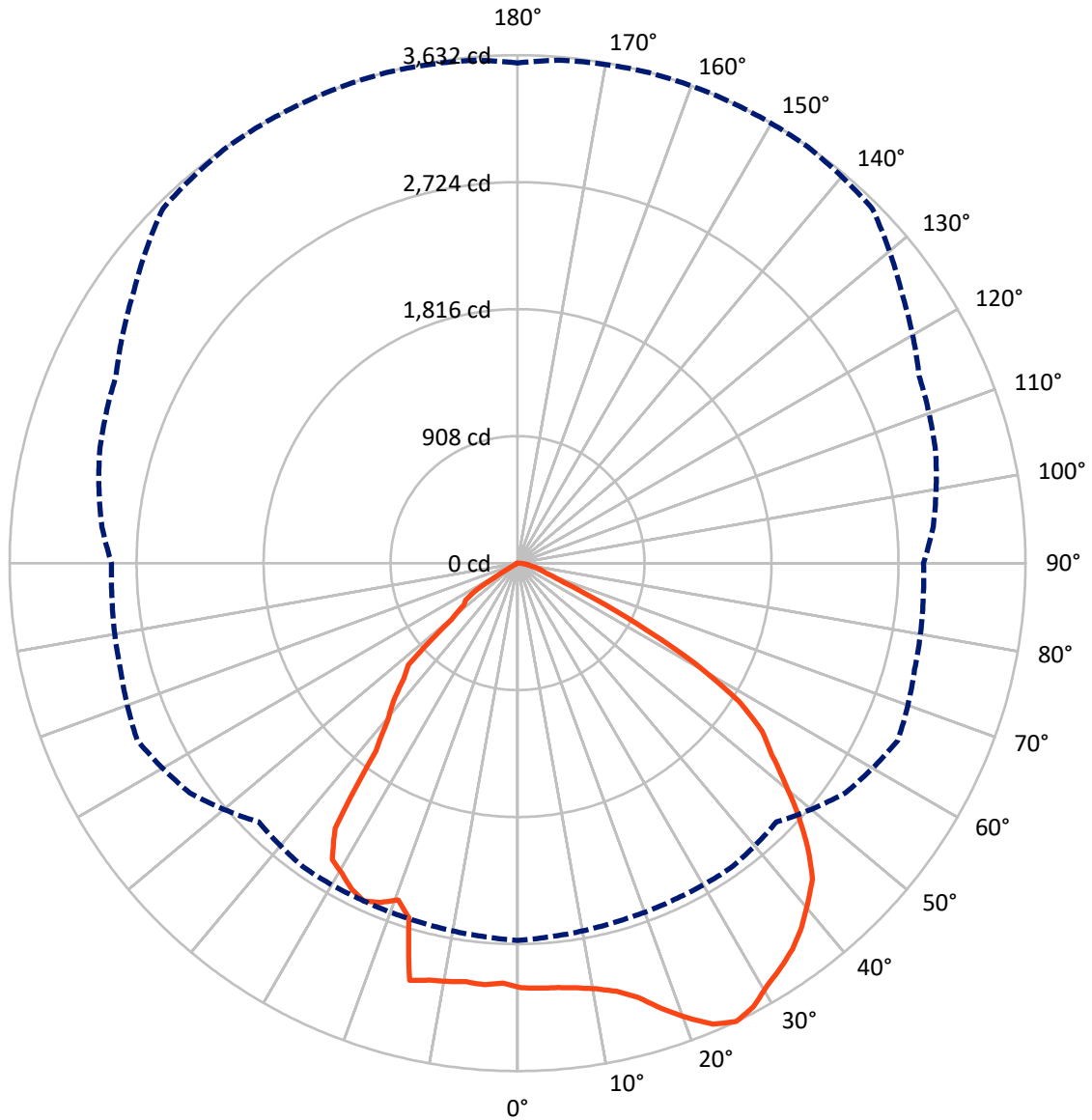
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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	4357.1	0.0	4357.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2680.7	0.0	2680.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	7037.7	0.0	7037.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	4.1
10°-20°	889.6	12.6
20°-30°	1406.3	20.0
30°-40°	1588.6	22.6
40°-50°	1487.7	21.1
50°-60°	1025.7	14.6
60°-70°	275.6	3.9
70°-80°	57.4	0.8
80°-90°	15.5	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°	7037.7	100.0
0°-180°	7037.7	100.0



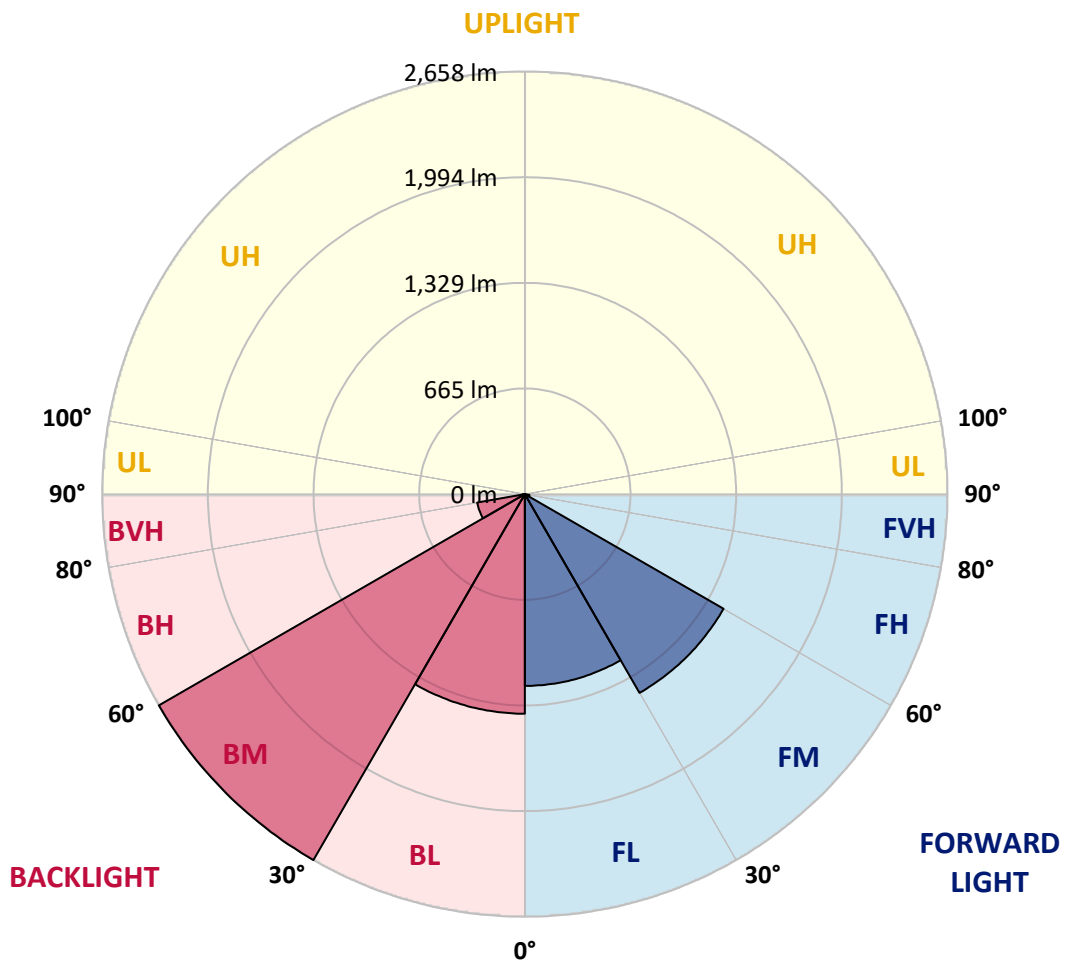
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.0	17.1			
FM (30°-60°)	1443.6	20.5			
FH (60°-80°)	28.9	0.4			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1381.2	19.6	B3/2500		
BM (30°-60°)	2658.4	37.8	B3/5000		
BH (60°-80°)	304.1	4.3	B1/500		G1/500
BVH (80°-90°)	13.4	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°	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7
2.5°	3050.1	3030.4	3011.8	3005.6	3031.5	3059.4	3041.8	3042.9	3036.7	3048.0
5°	3072.9	3046.0	3033.6	3024.2	3028.4	3057.3	3032.5	3041.8	3031.5	3044.9
7.5°	3064.6	3046.0	3033.6	3016.0	3029.4	3063.5	3039.8	3040.8	3035.6	3048.0
10°	3059.4	3046.0	3030.4	3032.5	3048.0	3077.0	3058.4	3068.7	3061.5	3068.7
12.5°	3071.8	3057.3	3049.1	3049.1	3062.5	3095.6	3086.3	3095.6	3092.5	3098.7
15°	2954.9	2968.4	3047.0	3082.2	3109.1	3142.2	3138.0	3147.3	3149.4	3158.7
17.5°	2492.6	2479.2	2473.0	2654.0	3134.9	3237.3	3234.2	3233.2	3222.8	3215.6
20°	2553.6	2548.5	2541.2	2554.7	2608.5	3287.0	3307.6	3180.4	3143.2	3140.1
22.5°	2650.9	2642.6	2615.7	2616.7	2633.3	2857.7	3205.2	3089.4	3077.0	3069.8
25°	2698.4	2681.9	2660.2	2654.0	2659.1	2617.8	2862.9	3000.5	2939.4	2911.5
27.5°	2614.7	2615.7	2598.1	2614.7	2595.0	2408.8	2304.4	2826.7	2824.6	2812.2
30°	2551.6	2548.5	2527.8	2548.5	2413.0	2205.1	2160.6	2636.4	2614.7	2598.1
32.5°	2358.2	2360.2	2420.2	2500.9	2278.5	2114.1	1979.6	2355.1	2560.9	2551.6
35°	1686.9	1691.1	1904.1	2302.3	2074.8	1933.1	1922.7	2035.5	2476.1	2480.2
37.5°	1623.8	1623.8	1618.7	1683.8	1914.5	1859.6	1880.3	1868.9	2268.2	2278.5
40°	1578.3	1569.0	1561.8	1459.4	1331.1	1807.9	1822.4	1770.7	2144.1	2146.1
42.5°	1523.5	1513.2	1515.2	1326.0	1191.5	1679.7	1639.3	1570.0	1937.2	1939.3
45°	1423.2	1440.8	1453.2	1160.5	1150.1	1199.8	1512.1	1468.7	1797.6	1835.9
47.5°	724.0	739.5	1134.6	1067.4	1091.2	1066.3	1277.3	1278.4	1495.6	1622.8
50°	656.8	652.6	653.7	622.6	1007.4	862.6	923.6	1171.8	1197.7	1379.7
52.5°	612.3	611.3	548.2	487.1	633.0	759.2	670.2	848.1	890.5	1168.7
55°	453.0	486.1	432.3	458.2	396.1	608.2	605.1	765.4	779.8	937.1
57.5°	4.1	5.2	12.4	348.6	274.1	304.1	417.9	522.3	548.2	730.2
60°	1.0	2.1	5.2	10.3	177.9	187.2	279.3	302.0	340.3	435.4
62.5°	0.0	0.0	2.1	5.2	9.3	76.5	88.9	97.2	150.0	222.4
65°	0.0	0.0	1.0	3.1	5.2	12.4	21.7	45.5	65.2	80.7
67.5°	0.0	0.0	1.0	2.1	4.1	6.2	12.4	17.6	27.9	47.6
70°	0.0	0.0	1.0	2.1	3.1	5.2	8.3	12.4	16.5	23.8
72.5°	0.0	0.0	1.0	2.1	2.1	6.2	6.2	9.3	12.4	15.5
75°	0.0	0.0	1.0	1.0	2.1	4.1	6.2	7.2	8.3	12.4
77.5°	0.0	0.0	1.0	2.1	3.1	4.1	5.2	8.3	7.2	7.2
80°	0.0	0.0	1.0	3.1	3.1	5.2	6.2	8.3	5.2	5.2
82.5°	0.0	0.0	1.0	4.1	3.1	10.3	10.3	11.4	4.1	4.1
85°	0.0	0.0	3.1	2.1	6.2	10.3	9.3	6.2	5.2	3.1
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	7.2	6.2	2.1	2.1
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°
3036.7	0°	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7
3018.0	2.5°	3059.4	3046.0	3073.9	3070.8	3057.3	3051.1	3043.9	3037.7	2992.2
3020.1	5°	3060.4	3039.8	3073.9	3067.7	3065.6	3055.3	3049.1	3058.4	3017.0
3028.4	7.5°	3060.4	3039.8	3077.0	3079.1	3076.0	3067.7	3066.6	3072.9	3038.7
3042.9	10°	3081.1	3072.9	3103.9	3107.0	3102.8	3100.8	3095.6	3091.5	3055.3
3092.5	12.5°	3124.6	3108.0	3143.2	3152.5	3149.4	3154.6	3142.2	3148.4	3111.1
3143.2	15°	3177.3	3178.4	3205.2	3225.9	3223.9	3240.4	3221.8	3238.3	3211.4
3201.1	17.5°	3258.0	3269.4	3307.6	3338.7	3350.0	3362.5	3350.0	3355.2	3316.9
3137.0	20°	3173.2	3215.6	3399.7	3456.6	3480.4	3491.7	3471.1	3477.3	3439.0
3058.4	22.5°	3096.6	3151.5	3314.9	3492.8	3566.2	3589.0	3581.7	3580.7	3566.2
2903.2	25°	2983.9	3094.6	3168.0	3356.2	3586.9	3628.3	3632.4	3631.4	3609.6
2808.1	27.5°	2845.3	2870.1	3060.4	3175.2	3442.1	3599.3	3593.1	3563.1	3534.1
2610.5	30°	2668.4	2781.2	2867.0	3050.1	3254.9	3510.4	3510.4	3487.6	3457.6
2540.2	32.5°	2578.5	2724.3	2803.9	2870.1	3044.9	3411.1	3452.4	3428.6	3404.9
2485.4	35°	2530.9	2552.6	2738.8	2798.8	2946.7	3219.7	3387.3	3363.5	3345.9
2339.5	37.5°	2426.4	2477.1	2564.0	2724.3	2769.8	3063.5	3300.4	3288.0	3267.3
2150.3	40°	2193.7	2329.2	2462.6	2614.7	2662.2	2862.9	3194.9	3200.1	3172.1
1948.6	42.5°	2056.2	2148.2	2357.1	2459.5	2587.8	2733.6	3092.5	3100.8	3081.1
1846.2	45°	1894.8	1997.2	2144.1	2330.2	2505.0	2555.7	2911.5	2998.4	2981.8
1642.4	47.5°	1746.9	1829.6	2009.6	2197.9	2391.3	2384.0	2703.6	2867.0	2844.3
1486.3	50°	1536.9	1681.7	1766.6	1939.3	2227.8	2247.5	2482.3	2712.9	2694.3
1262.9	52.5°	1296.0	1478.0	1640.4	1798.6	2062.4	2108.9	2276.5	2555.7	2543.3
965.0	55°	1132.5	1264.9	1448.0	1575.2	1861.7	1985.8	2122.3	2405.7	2399.5
793.3	57.5°	805.7	1061.2	1212.2	1390.1	1541.1	1765.5	1866.9	2100.6	2042.7
439.6	60°	546.1	666.1	850.2	1041.5	1142.9	1367.3	1461.4	1648.6	1633.1
262.7	62.5°	288.6	399.2	530.6	626.8	700.2	918.4	957.7	1159.4	1154.3
105.5	65°	127.2	168.6	287.5	337.2	412.7	514.0	548.2	620.6	603.0
51.7	67.5°	66.2	100.3	162.4	199.6	251.3	289.6	317.5	340.3	354.8
34.1	70°	40.3	73.4	100.3	138.6	172.7	203.8	225.5	256.5	275.1
17.6	72.5°	30.0	46.5	69.3	106.5	125.1	161.3	183.1	205.8	222.4
14.5	75°	16.5	31.0	55.9	83.8	100.3	131.4	151.0	166.5	171.7
8.3	77.5°	10.3	23.8	46.5	65.2	78.6	106.5	101.4	115.8	128.3
6.2	80°	7.2	17.6	36.2	53.8	54.8	68.3	80.7	93.1	101.4
4.1	82.5°	5.2	14.5	26.9	41.4	36.2	52.7	63.1	72.4	52.7
3.1	85°	4.1	10.3	13.4	24.8	20.7	37.2	32.1	31.0	20.7
2.1	87.5°	3.1	5.2	9.3	11.4	8.3	8.3	10.3	12.4	10.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3036.7
2961.2
2981.8
2999.4
3025.3
3078.0
3167.0
3283.8
3412.1
3519.7
3576.5
3511.4
3446.2
3385.2
3321.1
3246.6
3165.9
3079.1
2983.9
2860.8
2697.4
2551.6
2406.8
2036.5
1634.2
1155.3
595.7
354.8
276.2
225.5
168.6
130.3
102.4
38.3
20.7
10.3
0.0

(END OF REPORT)