

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: P636855

Luminaire Tested: **IFLD-S-SA2C-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636855
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6632.2 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

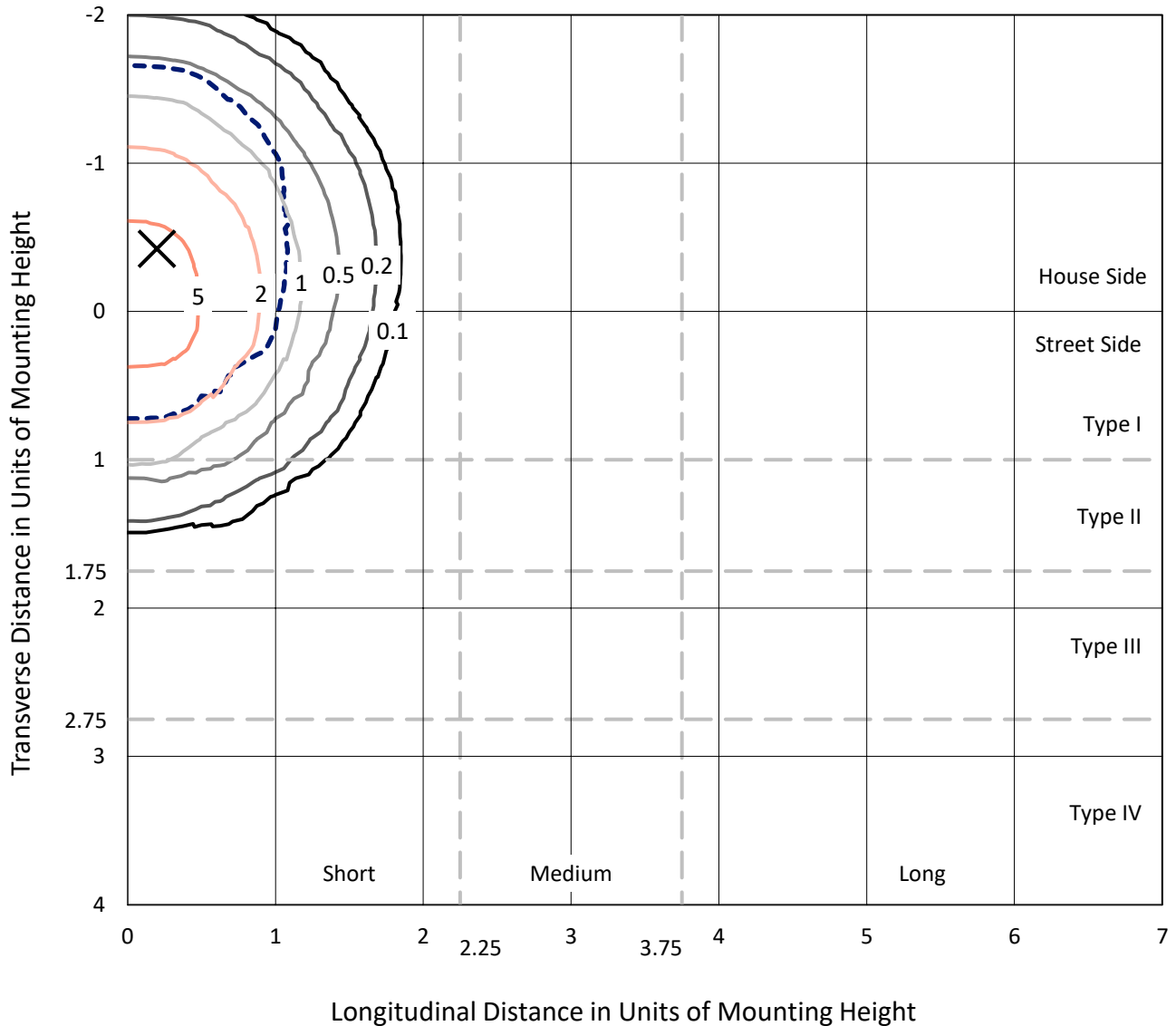
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

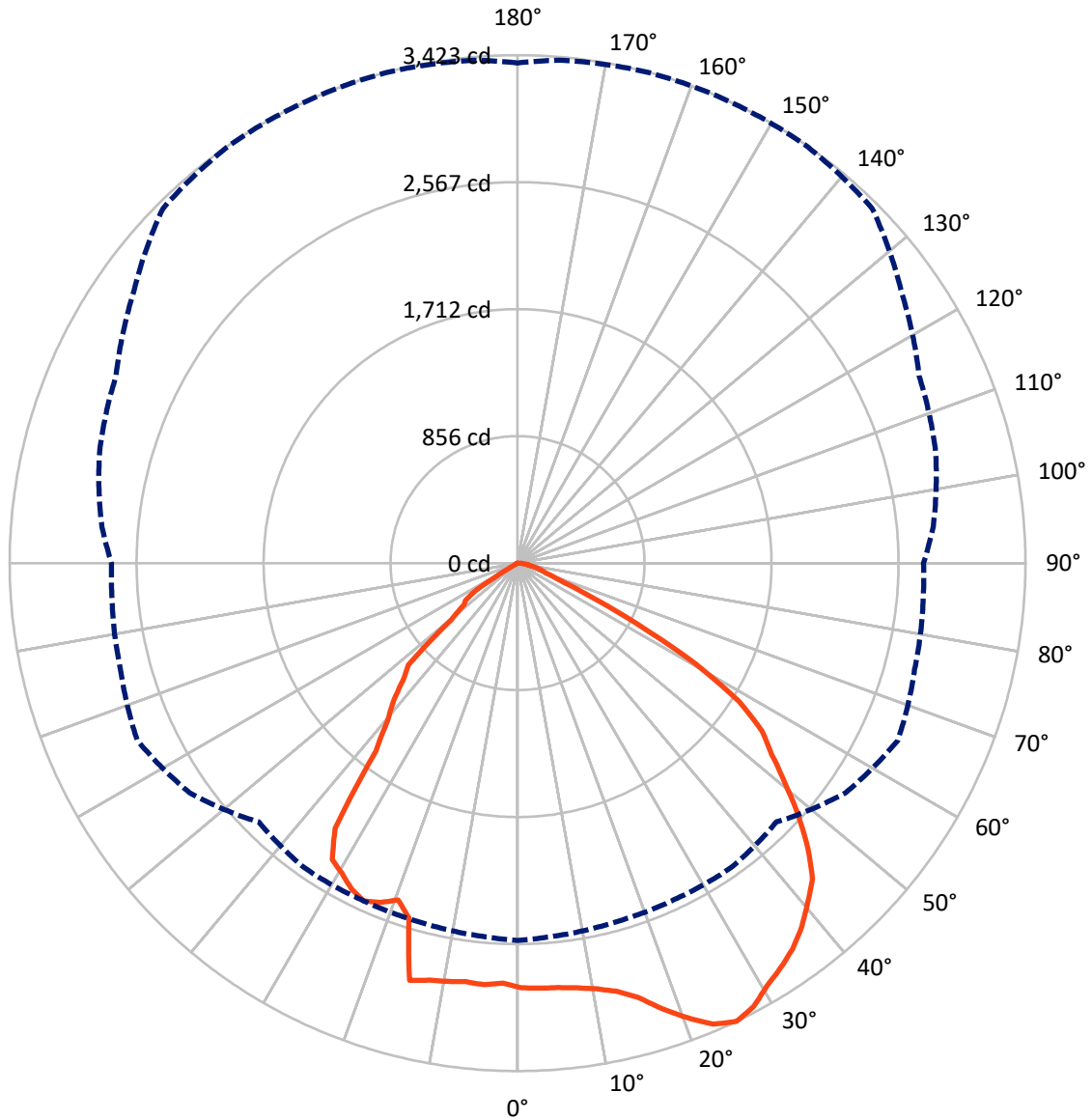
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 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	4106.0	0.0	4106.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2526.2	0.0	2526.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	6632.2	0.0	6632.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	4.1
10°-20°	838.3	12.6
20°-30°	1325.3	20.0
30°-40°	1497.0	22.6
40°-50°	1402.0	21.1
50°-60°	966.6	14.6
60°-70°	259.7	3.9
70°-80°	54.1	0.8
80°-90°	14.6	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°	6632.2	100.0
0°-180°	6632.2	100.0



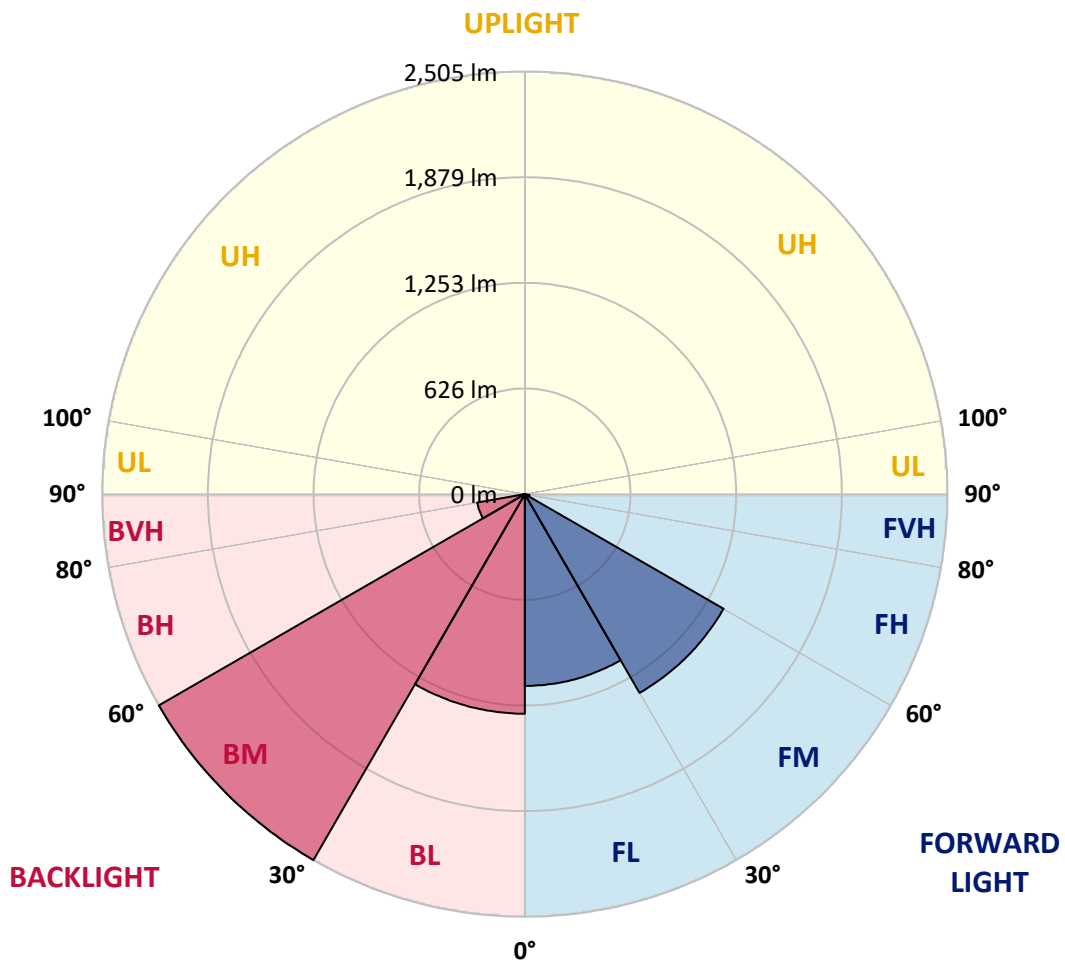
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.6	17.1			
FM (30°-60°)	1360.4	20.5			
FH (60°-80°)	27.3	0.4			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1301.6	19.6	B3/2500		
BM (30°-60°)	2505.2	37.8	B3/5000		
BH (60°-80°)	286.5	4.3	B1/500		G1/500
BVH (80°-90°)	12.7	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°	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7
2.5°	2874.4	2855.8	2838.3	2832.4	2856.8	2883.1	2866.6	2867.5	2861.7	2872.4
5°	2895.8	2870.5	2858.8	2850.0	2853.9	2881.2	2857.8	2866.6	2856.8	2869.5
7.5°	2888.0	2870.5	2858.8	2842.2	2854.9	2887.0	2864.6	2865.6	2860.7	2872.4
10°	2883.1	2870.5	2855.8	2857.8	2872.4	2899.7	2882.2	2891.9	2885.1	2891.9
12.5°	2894.8	2881.2	2873.4	2873.4	2886.1	2917.2	2908.5	2917.2	2914.3	2920.2
15°	2784.7	2797.4	2871.4	2904.6	2929.9	2961.1	2957.2	2966.0	2967.9	2976.7
17.5°	2349.0	2336.3	2330.5	2501.1	2954.3	3050.8	3047.9	3046.9	3037.1	3030.3
20°	2406.5	2401.6	2394.8	2407.5	2458.2	3097.6	3117.1	2997.2	2962.1	2959.2
22.5°	2498.1	2490.3	2465.0	2466.0	2481.6	2693.1	3020.6	2911.4	2899.7	2892.9
25°	2543.0	2527.4	2506.9	2501.1	2505.9	2466.9	2697.9	2827.6	2770.1	2743.8
27.5°	2464.0	2465.0	2448.4	2464.0	2445.5	2270.1	2171.6	2663.8	2661.9	2650.2
30°	2404.6	2401.6	2382.1	2401.6	2274.0	2078.0	2036.1	2484.5	2464.0	2448.4
32.5°	2222.3	2224.2	2280.8	2356.8	2147.2	1992.3	1865.6	2219.4	2413.3	2404.6
35°	1589.7	1593.6	1794.4	2169.7	1955.2	1821.7	1811.9	1918.2	2333.4	2337.3
37.5°	1530.3	1530.3	1525.4	1586.8	1804.1	1752.5	1772.0	1761.3	2137.5	2147.2
40°	1487.4	1478.6	1471.8	1375.3	1254.4	1703.8	1717.4	1668.7	2020.5	2022.5
42.5°	1435.7	1426.0	1427.9	1249.6	1122.8	1582.9	1544.9	1479.6	1825.6	1827.5
45°	1341.2	1357.7	1369.4	1093.6	1083.9	1130.6	1425.0	1384.1	1694.0	1730.1
47.5°	682.3	696.9	1069.2	1005.9	1028.3	1004.9	1203.7	1204.7	1409.4	1529.3
50°	618.9	615.0	616.0	586.8	949.3	812.9	870.4	1104.3	1128.7	1300.2
52.5°	577.0	576.0	516.6	459.1	596.5	715.4	631.6	799.2	839.2	1101.4
55°	426.9	458.1	407.4	431.8	373.3	573.1	570.2	721.3	734.9	883.1
57.5°	3.9	4.9	11.7	328.5	258.3	286.6	393.8	492.2	516.6	688.1
60°	1.0	1.9	4.9	9.7	167.6	176.4	263.2	284.6	320.7	410.3
62.5°	0.0	0.0	1.9	4.9	8.8	72.1	83.8	91.6	141.3	209.6
65°	0.0	0.0	1.0	2.9	4.9	11.7	20.5	42.9	61.4	76.0
67.5°	0.0	0.0	1.0	1.9	3.9	5.8	11.7	16.6	26.3	44.8
70°	0.0	0.0	1.0	1.9	2.9	4.9	7.8	11.7	15.6	22.4
72.5°	0.0	0.0	1.0	1.9	1.9	5.8	5.8	8.8	11.7	14.6
75°	0.0	0.0	1.0	1.0	1.9	3.9	5.8	6.8	7.8	11.7
77.5°	0.0	0.0	1.0	1.9	2.9	3.9	4.9	7.8	6.8	6.8
80°	0.0	0.0	1.0	2.9	2.9	4.9	5.8	7.8	4.9	4.9
82.5°	0.0	0.0	1.0	3.9	2.9	9.7	9.7	10.7	3.9	3.9
85°	0.0	0.0	2.9	1.9	5.8	9.7	8.8	5.8	4.9	2.9
87.5°	0.0	0.0	1.0	1.0	1.9	2.9	6.8	5.8	1.9	1.9
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°
2861.7	0°	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7
2844.1	2.5°	2883.1	2870.5	2896.8	2893.9	2881.2	2875.3	2868.5	2862.7	2819.8
2846.1	5°	2884.1	2864.6	2896.8	2890.9	2889.0	2879.2	2873.4	2882.2	2843.2
2853.9	7.5°	2884.1	2864.6	2899.7	2901.6	2898.7	2890.9	2890.0	2895.8	2863.6
2867.5	10°	2903.6	2895.8	2925.0	2928.0	2924.1	2922.1	2917.2	2913.3	2879.2
2914.3	12.5°	2944.5	2928.9	2962.1	2970.9	2967.9	2972.8	2961.1	2967.0	2931.9
2962.1	15°	2994.2	2995.2	3020.6	3040.1	3038.1	3053.7	3036.2	3051.8	3026.4
3016.7	17.5°	3070.3	3081.0	3117.1	3146.3	3157.0	3168.7	3157.0	3161.9	3125.8
2956.2	20°	2990.3	3030.3	3203.8	3257.4	3279.8	3290.6	3271.1	3276.9	3240.8
2882.2	22.5°	2918.2	2969.9	3123.9	3291.5	3360.7	3382.2	3375.3	3374.4	3360.7
2736.0	25°	2812.0	2916.3	2985.5	3162.9	3380.2	3419.2	3423.1	3422.1	3401.7
2646.3	27.5°	2681.4	2704.8	2884.1	2992.3	3243.8	3391.9	3386.1	3357.8	3330.5
2460.1	30°	2514.7	2620.9	2701.8	2874.4	3067.3	3308.1	3308.1	3286.7	3258.4
2393.8	32.5°	2429.9	2567.3	2642.4	2704.8	2869.5	3214.5	3253.5	3231.1	3208.7
2342.2	35°	2385.1	2405.5	2581.0	2637.5	2776.9	3034.2	3192.1	3169.7	3153.1
2204.7	37.5°	2286.6	2334.4	2416.3	2567.3	2610.2	2887.0	3110.2	3098.5	3079.0
2026.4	40°	2067.3	2195.0	2320.7	2464.0	2508.9	2697.9	3010.8	3015.7	2989.4
1836.3	42.5°	1937.7	2024.4	2221.3	2317.8	2438.7	2576.1	2914.3	2922.1	2903.6
1739.8	45°	1785.6	1882.1	2020.5	2196.0	2360.7	2408.5	2743.8	2825.6	2810.0
1547.8	47.5°	1646.3	1724.2	1893.8	2071.2	2253.5	2246.7	2547.8	2701.8	2680.4
1400.6	50°	1448.4	1584.8	1664.8	1827.5	2099.5	2118.0	2339.3	2556.6	2539.1
1190.1	52.5°	1221.3	1392.8	1545.9	1695.0	1943.5	1987.4	2145.3	2408.5	2396.8
909.4	55°	1067.3	1192.0	1364.6	1484.5	1754.4	1871.4	2000.1	2267.1	2261.3
747.6	57.5°	759.3	1000.0	1142.3	1310.0	1452.3	1663.8	1759.3	1979.6	1925.0
414.2	60°	514.6	627.7	801.2	981.5	1077.0	1288.5	1377.2	1553.7	1539.0
247.6	62.5°	271.9	376.2	500.0	590.7	659.9	865.5	902.6	1092.6	1087.8
99.4	65°	119.9	158.9	271.0	317.7	388.9	484.4	516.6	584.8	568.2
48.7	67.5°	62.4	94.5	153.0	188.1	236.8	272.9	299.2	320.7	334.3
32.2	70°	38.0	69.2	94.5	130.6	162.8	192.0	212.5	241.7	259.3
16.6	72.5°	28.3	43.9	65.3	100.4	117.9	152.1	172.5	194.0	209.6
13.6	75°	15.6	29.2	52.6	78.9	94.5	123.8	142.3	156.9	161.8
7.8	77.5°	9.7	22.4	43.9	61.4	74.1	100.4	95.5	109.2	120.9
5.8	80°	6.8	16.6	34.1	50.7	51.7	64.3	76.0	87.7	95.5
3.9	82.5°	4.9	13.6	25.3	39.0	34.1	49.7	59.5	68.2	49.7
2.9	85°	3.9	9.7	12.7	23.4	19.5	35.1	30.2	29.2	19.5
1.9	87.5°	2.9	4.9	8.8	10.7	7.8	7.8	9.7	11.7	9.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2861.7
2790.5
2810.0
2826.6
2851.0
2900.7
2984.5
3094.6
3215.5
3316.9
3370.5
3309.1
3247.7
3190.2
3129.7
3059.5
2983.5
2901.6
2812.0
2696.0
2542.0
2404.6
2268.1
1919.2
1540.0
1088.7
561.4
334.3
260.2
212.5
158.9
122.8
96.5
36.1
19.5
9.7
0.0

(END OF REPORT)