

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: P636856

Luminaire Tested: **IFLD-S-SA2D-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636856
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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: 7297.7 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

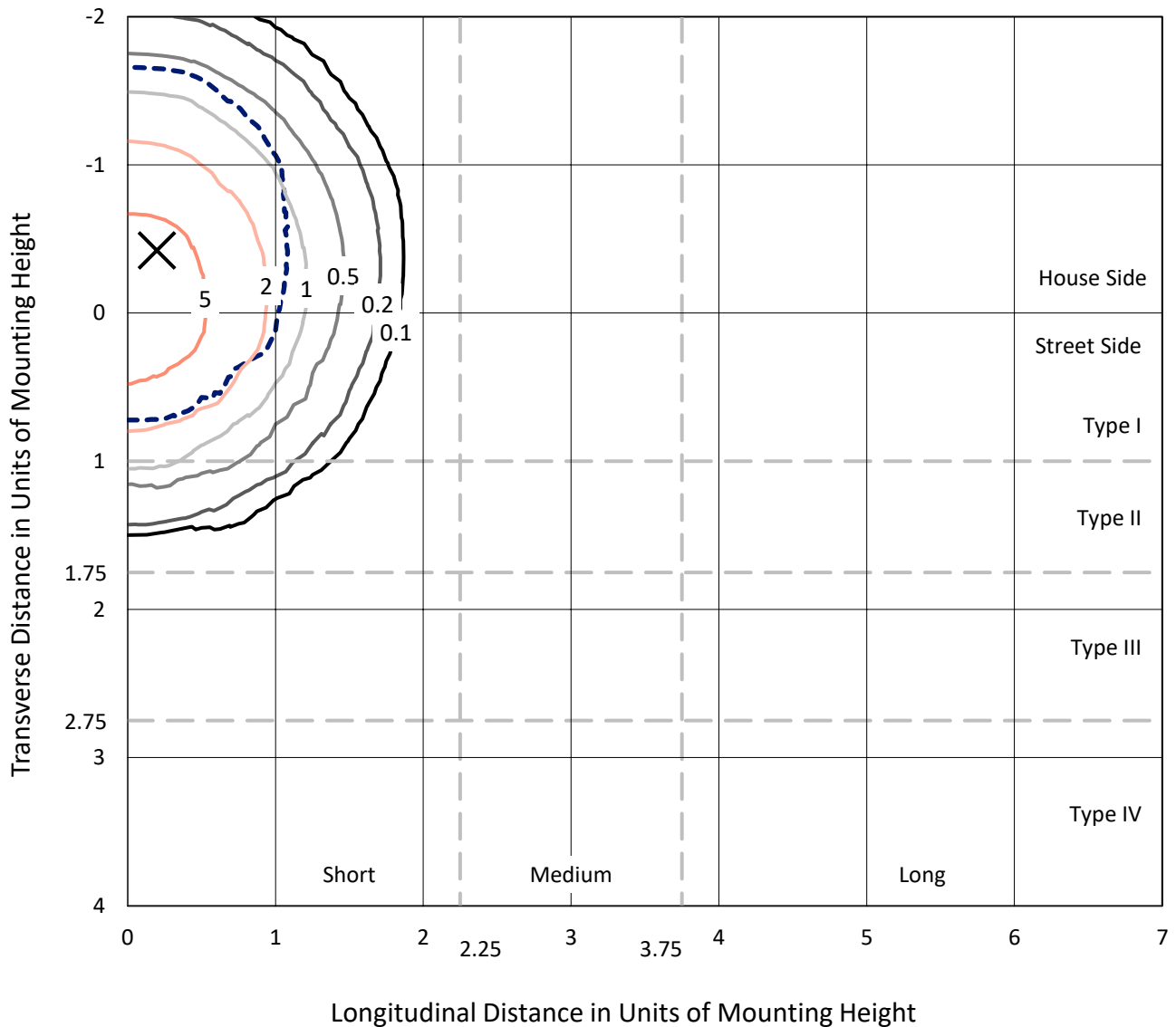
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

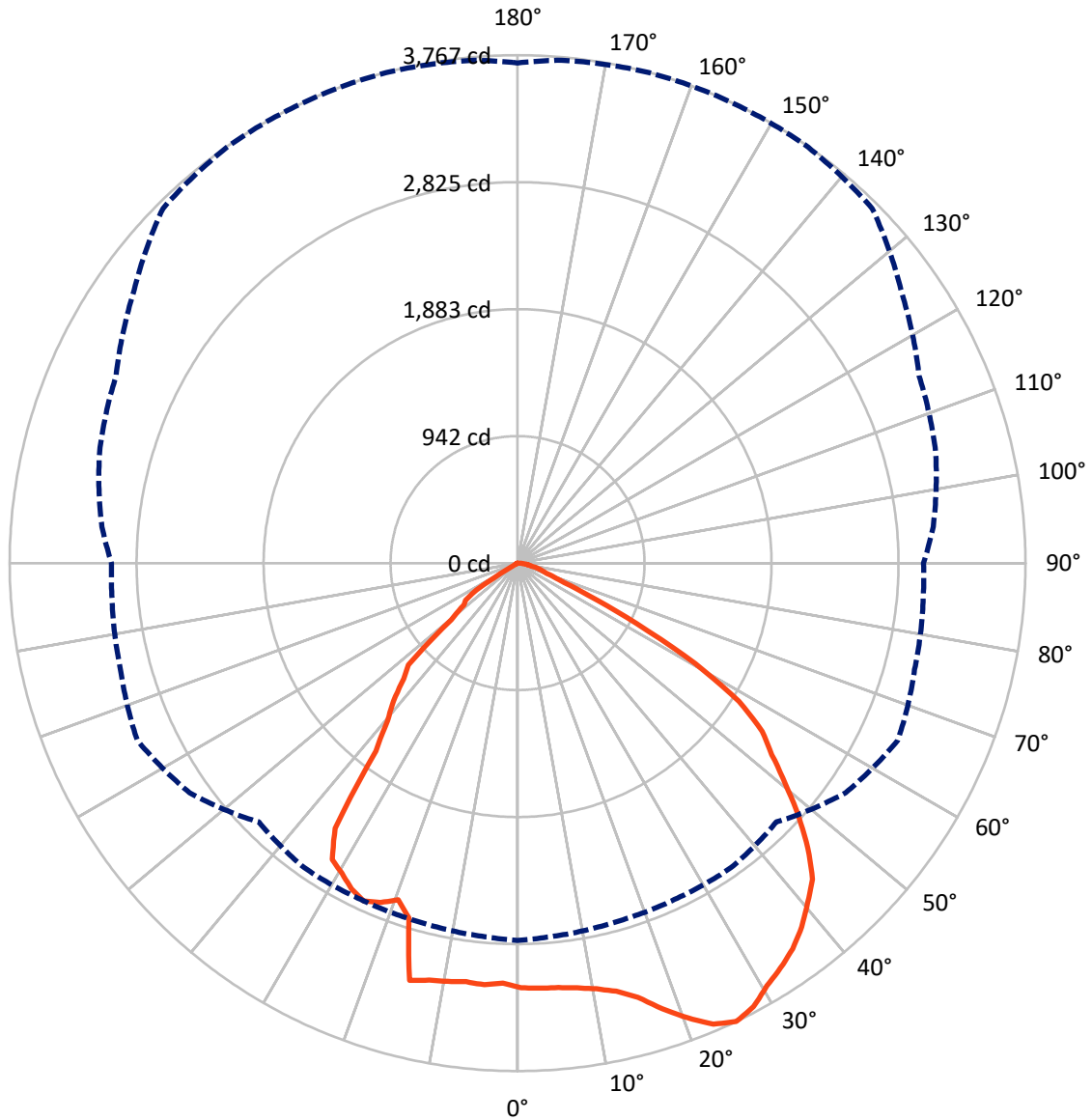
× Max cd
 - - - 1/2 Max cd



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	4518.0	0.0	4518.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2779.7	0.0	2779.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	7297.7	0.0	7297.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	4.1
10°-20°	922.4	12.6
20°-30°	1458.3	20.0
30°-40°	1647.3	22.6
40°-50°	1542.7	21.1
50°-60°	1063.6	14.6
60°-70°	285.7	3.9
70°-80°	59.6	0.8
80°-90°	16.1	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°	7297.7	100.0
0°-180°	7297.7	100.0



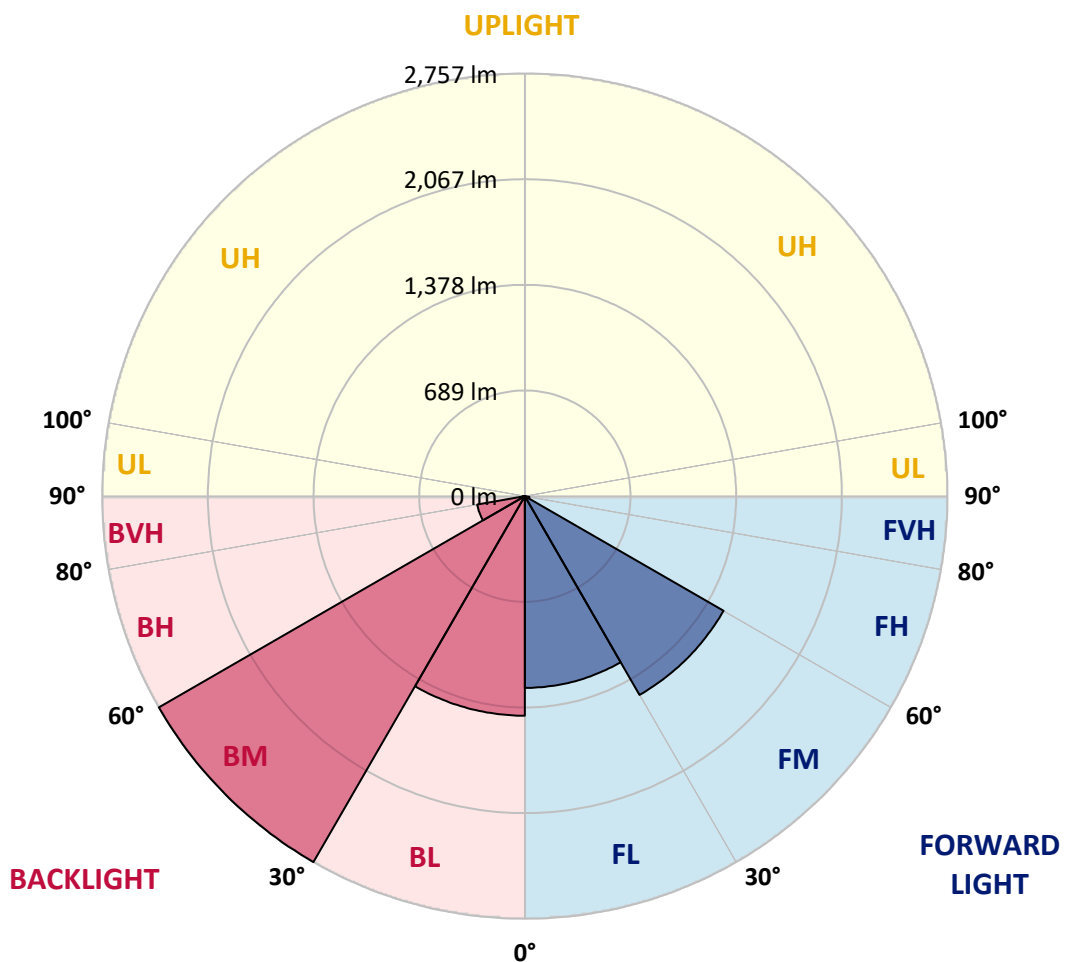
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.6	17.1			
FM (30°-60°)	1496.9	20.5			
FH (60°-80°)	30.0	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1432.2	19.6	B3/2500		
BM (30°-60°)	2756.6	37.8	B3/5000		
BH (60°-80°)	315.3	4.3	B1/500		G1/500
BVH (80°-90°)	13.9	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°	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8
2.5°	3162.8	3142.4	3123.1	3116.6	3143.5	3172.4	3154.2	3155.3	3148.8	3160.6
5°	3186.4	3158.5	3145.6	3135.9	3140.2	3170.3	3144.5	3154.2	3143.5	3157.4
7.5°	3177.8	3158.5	3145.6	3127.4	3141.3	3176.7	3152.0	3153.1	3147.7	3160.6
10°	3172.4	3158.5	3142.4	3144.5	3160.6	3190.6	3171.3	3182.1	3174.6	3182.1
12.5°	3185.3	3170.3	3161.7	3161.7	3175.6	3210.0	3200.3	3210.0	3206.7	3213.2
15°	3064.1	3078.0	3159.5	3196.0	3223.9	3258.2	3253.9	3263.6	3265.7	3275.4
17.5°	2584.7	2570.7	2564.3	2752.0	3250.7	3356.9	3353.7	3352.6	3341.9	3334.4
20°	2648.0	2642.6	2635.1	2649.0	2704.8	3408.4	3429.8	3297.9	3259.3	3256.1
22.5°	2748.8	2740.2	2712.3	2713.4	2730.5	2963.3	3323.6	3203.5	3190.6	3183.1
25°	2798.1	2781.0	2758.4	2752.0	2757.4	2714.5	2968.6	3111.3	3048.0	3019.0
27.5°	2711.2	2712.3	2694.1	2711.2	2690.9	2497.8	2389.5	2931.1	2929.0	2916.1
30°	2645.8	2642.6	2621.2	2642.6	2502.1	2286.5	2240.4	2733.8	2711.2	2694.1
32.5°	2445.3	2447.4	2509.6	2593.3	2362.7	2192.2	2052.7	2442.1	2655.5	2645.8
35°	1749.2	1753.5	1974.4	2387.4	2151.4	2004.5	1993.8	2110.7	2567.5	2571.8
37.5°	1683.8	1683.8	1678.4	1746.0	1985.2	1928.3	1949.8	1938.0	2352.0	2362.7
40°	1636.6	1627.0	1619.5	1513.3	1380.3	1874.7	1889.7	1836.1	2223.3	2225.4
42.5°	1579.8	1569.0	1571.2	1374.9	1235.5	1741.7	1699.9	1628.0	2008.8	2010.9
45°	1475.7	1494.0	1506.8	1203.3	1192.6	1244.1	1568.0	1522.9	1864.0	1903.7
47.5°	750.7	766.8	1176.5	1106.8	1131.5	1105.7	1324.5	1325.6	1550.8	1682.7
50°	681.0	676.7	677.8	645.6	1044.6	894.5	957.7	1215.1	1241.9	1430.7
52.5°	634.9	633.8	568.4	505.1	656.4	787.2	695.0	879.4	923.4	1211.9
55°	469.7	504.1	448.3	475.1	410.8	630.6	627.4	793.6	808.7	971.7
57.5°	4.3	5.4	12.9	361.4	284.2	315.3	433.3	541.6	568.4	757.2
60°	1.1	2.1	5.4	10.7	184.5	194.1	289.6	313.2	352.8	451.5
62.5°	0.0	0.0	2.1	5.4	9.7	79.4	92.2	100.8	155.5	230.6
65°	0.0	0.0	1.1	3.2	5.4	12.9	22.5	47.2	67.6	83.7
67.5°	0.0	0.0	1.1	2.1	4.3	6.4	12.9	18.2	29.0	49.3
70°	0.0	0.0	1.1	2.1	3.2	5.4	8.6	12.9	17.2	24.7
72.5°	0.0	0.0	1.1	2.1	2.1	6.4	6.4	9.7	12.9	16.1
75°	0.0	0.0	1.1	1.1	2.1	4.3	6.4	7.5	8.6	12.9
77.5°	0.0	0.0	1.1	2.1	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	6.4	8.6	5.4	5.4
82.5°	0.0	0.0	1.1	4.3	3.2	10.7	10.7	11.8	4.3	4.3
85°	0.0	0.0	3.2	2.1	6.4	10.7	9.7	6.4	5.4	3.2
87.5°	0.0	0.0	1.1	1.1	2.1	3.2	7.5	6.4	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°
3148.8	0°	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8
3129.5	2.5°	3172.4	3158.5	3187.4	3184.2	3170.3	3163.8	3156.3	3149.9	3102.7
3131.7	5°	3173.5	3152.0	3187.4	3181.0	3178.8	3168.1	3161.7	3171.3	3128.4
3140.2	7.5°	3173.5	3152.0	3190.6	3192.8	3189.6	3181.0	3179.9	3186.4	3151.0
3155.3	10°	3194.9	3186.4	3218.5	3221.7	3217.5	3215.3	3210.0	3205.7	3168.1
3206.7	12.5°	3240.0	3222.8	3259.3	3268.9	3265.7	3271.1	3258.2	3264.6	3226.0
3259.3	15°	3294.7	3295.8	3323.6	3345.1	3342.9	3360.1	3340.8	3358.0	3330.1
3319.3	17.5°	3378.3	3390.1	3429.8	3462.0	3473.8	3486.7	3473.8	3479.1	3439.5
3252.9	20°	3290.4	3334.4	3525.3	3584.2	3608.9	3620.7	3599.3	3605.7	3566.0
3171.3	22.5°	3211.0	3267.9	3437.3	3621.8	3697.9	3721.5	3714.0	3712.9	3697.9
3010.5	25°	3094.1	3208.9	3285.0	3480.2	3719.4	3762.3	3766.6	3765.5	3743.0
2911.8	27.5°	2950.4	2976.1	3173.5	3292.5	3569.2	3732.3	3725.8	3694.7	3664.7
2707.0	30°	2767.0	2883.9	2972.9	3162.8	3375.1	3640.0	3640.0	3616.4	3585.3
2634.0	32.5°	2673.7	2824.9	2907.5	2976.1	3157.4	3537.1	3580.0	3555.3	3530.6
2577.2	35°	2624.4	2646.9	2839.9	2902.1	3055.5	3338.6	3512.4	3487.7	3469.5
2426.0	37.5°	2516.1	2568.6	2658.7	2824.9	2872.1	3176.7	3422.3	3409.4	3388.0
2229.7	40°	2274.7	2415.2	2553.6	2711.2	2760.6	2968.6	3312.9	3318.3	3289.3
2020.6	42.5°	2132.1	2227.6	2444.2	2550.4	2683.4	2834.6	3206.7	3215.3	3194.9
1914.4	45°	1964.8	2071.0	2223.3	2416.3	2597.6	2650.1	3019.0	3109.1	3092.0
1703.1	47.5°	1811.4	1897.2	2083.8	2279.0	2479.6	2472.1	2803.5	2972.9	2949.3
1541.2	50°	1593.7	1743.9	1831.8	2010.9	2310.1	2330.5	2574.0	2813.1	2793.8
1309.5	52.5°	1343.8	1532.6	1701.0	1865.1	2138.5	2186.8	2360.5	2650.1	2637.2
1000.6	55°	1174.4	1311.7	1501.5	1633.4	1930.5	2059.2	2200.7	2494.6	2488.2
822.6	57.5°	835.5	1100.4	1257.0	1441.4	1598.0	1830.7	1935.8	2178.2	2118.2
455.8	60°	566.3	690.7	881.6	1080.0	1185.1	1417.8	1515.4	1709.5	1693.5
272.4	62.5°	299.2	414.0	550.2	649.9	726.1	952.4	993.1	1202.3	1196.9
109.4	65°	131.9	174.8	298.2	349.6	427.9	533.0	568.4	643.5	625.3
53.6	67.5°	68.6	104.0	168.4	207.0	260.6	300.3	329.3	352.8	367.9
35.4	70°	41.8	76.1	104.0	143.7	179.1	211.3	233.8	266.0	285.3
18.2	72.5°	31.1	48.3	71.9	110.5	129.8	167.3	189.8	213.4	230.6
15.0	75°	17.2	32.2	57.9	86.9	104.0	136.2	156.6	172.7	178.0
8.6	77.5°	10.7	24.7	48.3	67.6	81.5	110.5	105.1	120.1	133.0
6.4	80°	7.5	18.2	37.5	55.8	56.8	70.8	83.7	96.5	105.1
4.3	82.5°	5.4	15.0	27.9	42.9	37.5	54.7	65.4	75.1	54.7
3.2	85°	4.3	10.7	13.9	25.7	21.4	38.6	33.2	32.2	21.4
2.1	87.5°	3.2	5.4	9.7	11.8	8.6	8.6	10.7	12.9	10.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3148.8
3070.5
3092.0
3110.2
3137.0
3191.7
3284.0
3405.1
3538.1
3649.7
3708.7
3641.1
3573.5
3510.2
3443.8
3366.5
3282.9
3192.8
3094.1
2966.5
2797.0
2645.8
2495.7
2111.7
1694.5
1198.0
617.8
367.9
286.4
233.8
174.8
135.1
106.2
39.7
21.4
10.7
0.0

(END OF REPORT)