

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: P636942

Luminaire Tested: **IFLD-S-SA2C-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7569.8 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

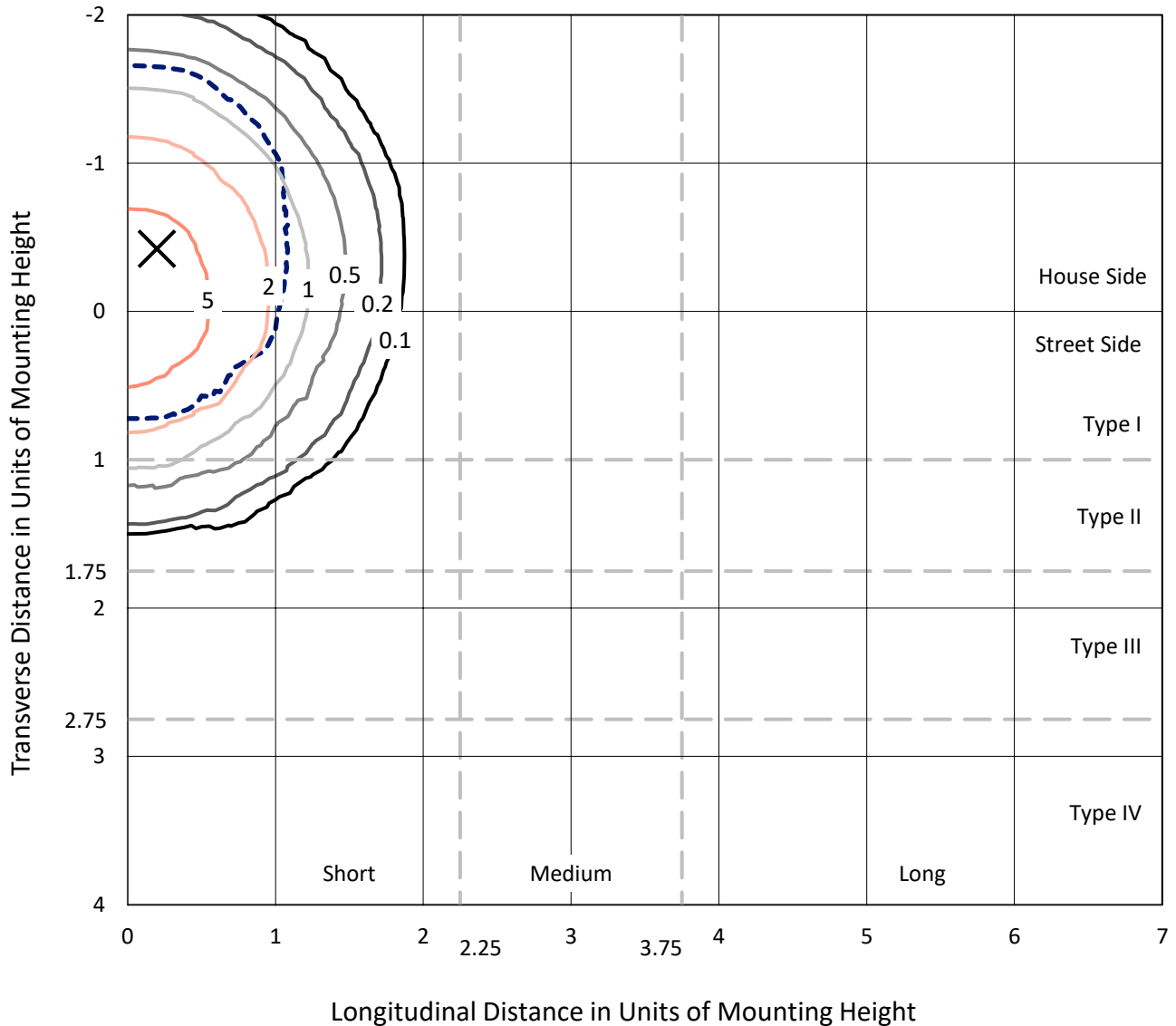
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

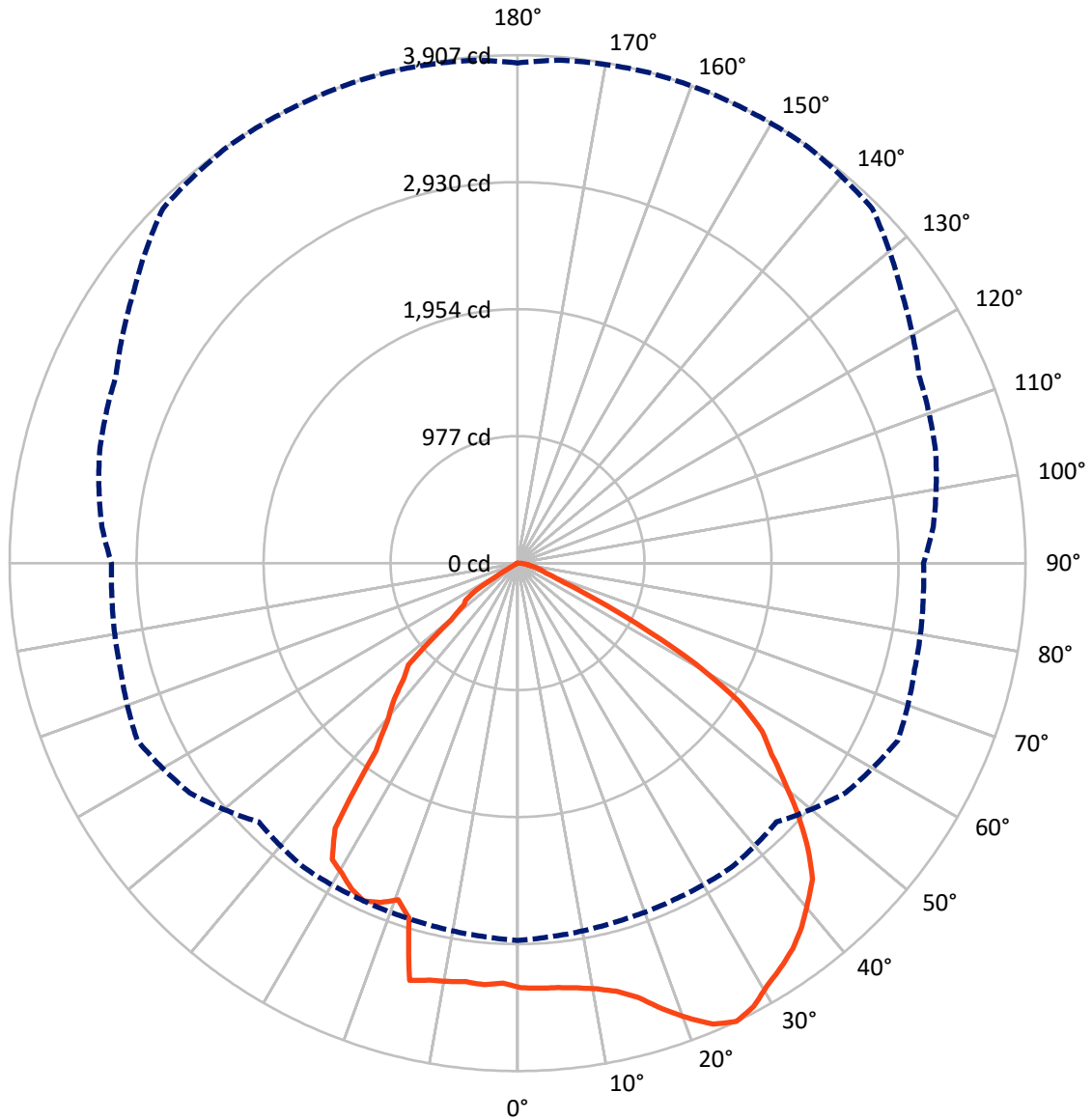
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 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	4686.5	0.0	4686.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2883.3	0.0	2883.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	7569.8	0.0	7569.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	4.1
10°-20°	956.8	12.6
20°-30°	1512.7	20.0
30°-40°	1708.7	22.6
40°-50°	1600.2	21.1
50°-60°	1103.2	14.6
60°-70°	296.4	3.9
70°-80°	61.8	0.8
80°-90°	16.7	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°	7569.8	100.0
0°-180°	7569.8	100.0



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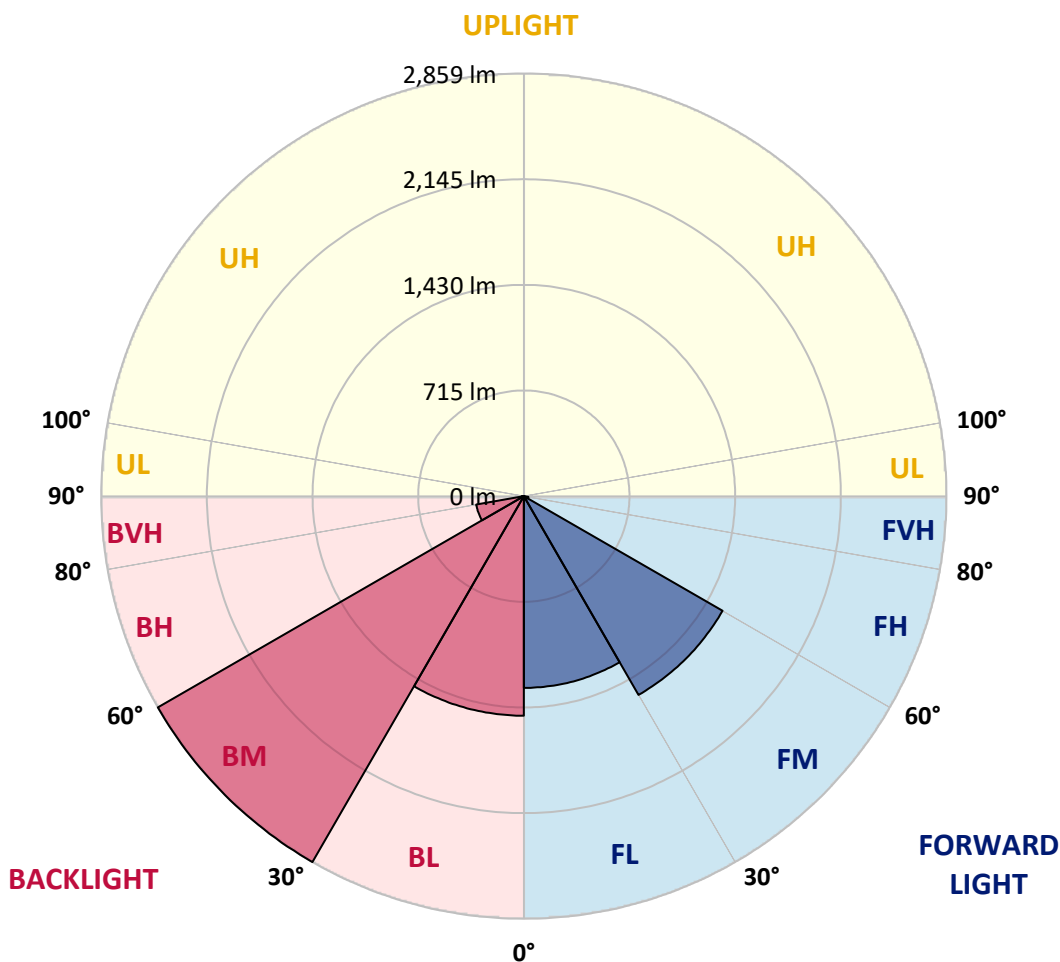
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1297.2	17.1			
FM	(30°-60°)	1552.7	20.5			
FH	(60°-80°)	31.1	0.4			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	1485.6	19.6	B3/2500		
BM	(30°-60°)	2859.4	37.8	B3/5000		
BH	(60°-80°)	327.1	4.3	B1/500		G1/500
BVH	(80°-90°)	14.5	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°	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2
2.5°	3280.7	3259.6	3239.5	3232.9	3260.7	3290.7	3271.8	3272.9	3266.2	3278.5
5°	3305.2	3276.3	3262.9	3252.9	3257.3	3288.5	3261.8	3271.8	3260.7	3275.1
7.5°	3296.3	3276.3	3262.9	3244.0	3258.5	3295.2	3269.6	3270.7	3265.1	3278.5
10°	3290.7	3276.3	3259.6	3261.8	3278.5	3309.6	3289.6	3300.7	3292.9	3300.7
12.5°	3304.1	3288.5	3279.6	3279.6	3294.1	3329.6	3319.6	3329.6	3326.3	3333.0
15°	3178.4	3192.8	3277.4	3315.2	3344.1	3379.7	3375.3	3385.3	3387.5	3397.5
17.5°	2681.1	2666.6	2659.9	2854.6	3371.9	3482.1	3478.7	3477.6	3466.5	3458.7
20°	2746.7	2741.1	2733.4	2747.8	2805.7	3535.5	3557.7	3420.9	3380.8	3377.5
22.5°	2851.3	2842.4	2813.5	2814.6	2832.4	3073.8	3447.6	3323.0	3309.6	3301.8
25°	2902.5	2884.7	2861.3	2854.6	2860.2	2815.7	3079.3	3227.3	3161.7	3131.6
27.5°	2812.3	2813.5	2794.5	2812.3	2791.2	2591.0	2478.6	3040.4	3038.2	3024.8
30°	2744.5	2741.1	2718.9	2741.1	2595.4	2371.8	2324.0	2835.7	2812.3	2794.5
32.5°	2536.5	2538.7	2603.2	2690.0	2450.8	2273.9	2129.3	2533.1	2754.5	2744.5
35°	1814.5	1818.9	2048.1	2476.4	2231.6	2079.2	2068.1	2189.4	2663.3	2667.7
37.5°	1746.6	1746.6	1741.0	1811.1	2059.2	2000.2	2022.5	2010.2	2439.7	2450.8
40°	1697.6	1687.6	1679.8	1569.7	1431.8	1944.6	1960.2	1904.6	2306.2	2308.4
42.5°	1638.7	1627.6	1629.8	1426.2	1281.6	1806.7	1763.3	1688.7	2083.7	2085.9
45°	1530.8	1549.7	1563.0	1248.2	1237.1	1290.5	1626.4	1579.7	1933.5	1974.7
47.5°	778.7	795.4	1220.4	1148.1	1173.7	1147.0	1373.9	1375.0	1608.6	1745.5
50°	706.4	702.0	703.1	669.7	1083.6	927.8	993.4	1260.4	1288.3	1484.0
52.5°	658.6	657.5	589.6	524.0	680.8	816.6	720.9	912.2	957.8	1257.1
55°	487.3	522.9	465.0	492.8	426.1	654.1	650.8	823.2	838.8	1007.9
57.5°	4.4	5.6	13.3	374.9	294.8	327.1	449.4	561.8	589.6	785.4
60°	1.1	2.2	5.6	11.1	191.3	201.4	300.4	324.8	366.0	468.4
62.5°	0.0	0.0	2.2	5.6	10.0	82.3	95.7	104.6	161.3	239.2
65°	0.0	0.0	1.1	3.3	5.6	13.3	23.4	48.9	70.1	86.8
67.5°	0.0	0.0	1.1	2.2	4.4	6.7	13.3	18.9	30.0	51.2
70°	0.0	0.0	1.1	2.2	3.3	5.6	8.9	13.3	17.8	25.6
72.5°	0.0	0.0	1.1	2.2	2.2	6.7	6.7	10.0	13.3	16.7
75°	0.0	0.0	1.1	1.1	2.2	4.4	6.7	7.8	8.9	13.3
77.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.6	8.9	7.8	7.8
80°	0.0	0.0	1.1	3.3	3.3	5.6	6.7	8.9	5.6	5.6
82.5°	0.0	0.0	1.1	4.4	3.3	11.1	11.1	12.2	4.4	4.4
85°	0.0	0.0	3.3	2.2	6.7	11.1	10.0	6.7	5.6	3.3
87.5°	0.0	0.0	1.1	1.1	2.2	3.3	7.8	6.7	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°
3266.2	0°	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2	3266.2
3246.2	2.5°	3290.7	3276.3	3306.3	3303.0	3288.5	3281.8	3274.0	3267.4	3218.4
3248.4	5°	3291.8	3269.6	3306.3	3299.6	3297.4	3286.3	3279.6	3289.6	3245.1
3257.3	7.5°	3291.8	3269.6	3309.6	3311.9	3308.5	3299.6	3298.5	3305.2	3268.5
3272.9	10°	3314.1	3305.2	3338.5	3341.9	3337.4	3335.2	3329.6	3325.2	3286.3
3326.3	12.5°	3360.8	3343.0	3380.8	3390.8	3387.5	3393.1	3379.7	3386.4	3346.3
3380.8	15°	3417.5	3418.6	3447.6	3469.8	3467.6	3485.4	3465.4	3483.2	3454.2
3443.1	17.5°	3504.3	3516.5	3557.7	3591.1	3603.3	3616.7	3603.3	3608.9	3567.7
3374.1	20°	3413.1	3458.7	3656.7	3717.9	3743.5	3755.7	3733.5	3740.2	3699.0
3289.6	22.5°	3330.8	3389.7	3565.5	3756.8	3835.8	3860.3	3852.5	3851.4	3835.8
3122.7	25°	3209.5	3328.5	3407.5	3610.0	3858.1	3902.6	3907.0	3905.9	3882.6
3020.4	27.5°	3060.4	3087.1	3291.8	3415.3	3702.3	3871.4	3864.8	3832.5	3801.3
2807.9	30°	2870.2	2991.5	3083.8	3280.7	3501.0	3775.8	3775.8	3751.3	3719.0
2732.2	32.5°	2773.4	2930.3	3015.9	3087.1	3275.1	3669.0	3713.5	3687.9	3662.3
2673.3	35°	2722.2	2745.6	2945.8	3010.4	3169.5	3463.1	3643.4	3617.8	3598.9
2516.4	37.5°	2609.9	2664.4	2757.8	2930.3	2979.2	3295.2	3549.9	3536.6	3514.3
2312.8	40°	2359.6	2505.3	2648.8	2812.3	2863.5	3079.3	3436.4	3442.0	3412.0
2095.9	42.5°	2211.6	2310.6	2535.3	2645.5	2783.4	2940.3	3326.3	3335.2	3314.1
1985.8	45°	2038.1	2148.2	2306.2	2506.4	2694.4	2748.9	3131.6	3225.1	3207.3
1766.6	47.5°	1879.0	1968.0	2161.5	2364.0	2572.1	2564.3	2908.0	3083.8	3059.3
1598.6	50°	1653.1	1808.9	1900.1	2085.9	2396.3	2417.4	2669.9	2918.0	2898.0
1358.3	52.5°	1393.9	1589.7	1764.4	1934.6	2218.3	2268.3	2448.6	2748.9	2735.6
1037.9	55°	1218.2	1360.6	1557.5	1694.3	2002.5	2136.0	2282.8	2587.6	2581.0
853.3	57.5°	866.6	1141.4	1303.8	1495.2	1657.6	1899.0	2008.0	2259.4	2197.1
472.8	60°	587.4	716.4	914.5	1120.3	1229.3	1470.7	1571.9	1773.3	1756.6
282.6	62.5°	310.4	429.4	570.7	674.2	753.1	987.9	1030.2	1247.1	1241.5
113.5	65°	136.8	181.3	309.3	362.7	443.9	552.9	589.6	667.5	648.6
55.6	67.5°	71.2	107.9	174.7	214.7	270.3	311.5	341.5	366.0	381.6
36.7	70°	43.4	79.0	107.9	149.1	185.8	219.2	242.5	275.9	295.9
18.9	72.5°	32.3	50.1	74.5	114.6	134.6	173.5	196.9	221.4	239.2
15.6	75°	17.8	33.4	60.1	90.1	107.9	141.3	162.4	179.1	184.7
8.9	77.5°	11.1	25.6	50.1	70.1	84.5	114.6	109.0	124.6	137.9
6.7	80°	7.8	18.9	38.9	57.8	59.0	73.4	86.8	100.1	109.0
4.4	82.5°	5.6	15.6	28.9	44.5	38.9	56.7	67.9	77.9	56.7
3.3	85°	4.4	11.1	14.5	26.7	22.2	40.0	34.5	33.4	22.2
2.2	87.5°	3.3	5.6	10.0	12.2	8.9	8.9	11.1	13.3	11.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3266.2
3185.0
3207.3
3226.2
3254.0
3310.7
3406.4
3532.1
3670.1
3785.8
3847.0
3776.9
3706.8
3641.1
3572.2
3492.1
3405.3
3311.9
3209.5
3077.1
2901.3
2744.5
2588.7
2190.5
1757.7
1242.6
640.8
381.6
297.0
242.5
181.3
140.2
110.1
41.2
22.2
11.1
0.0

(END OF REPORT)