

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: P638511

Luminaire Tested: **IFLD-S-SA3A-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638511  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7454.3 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

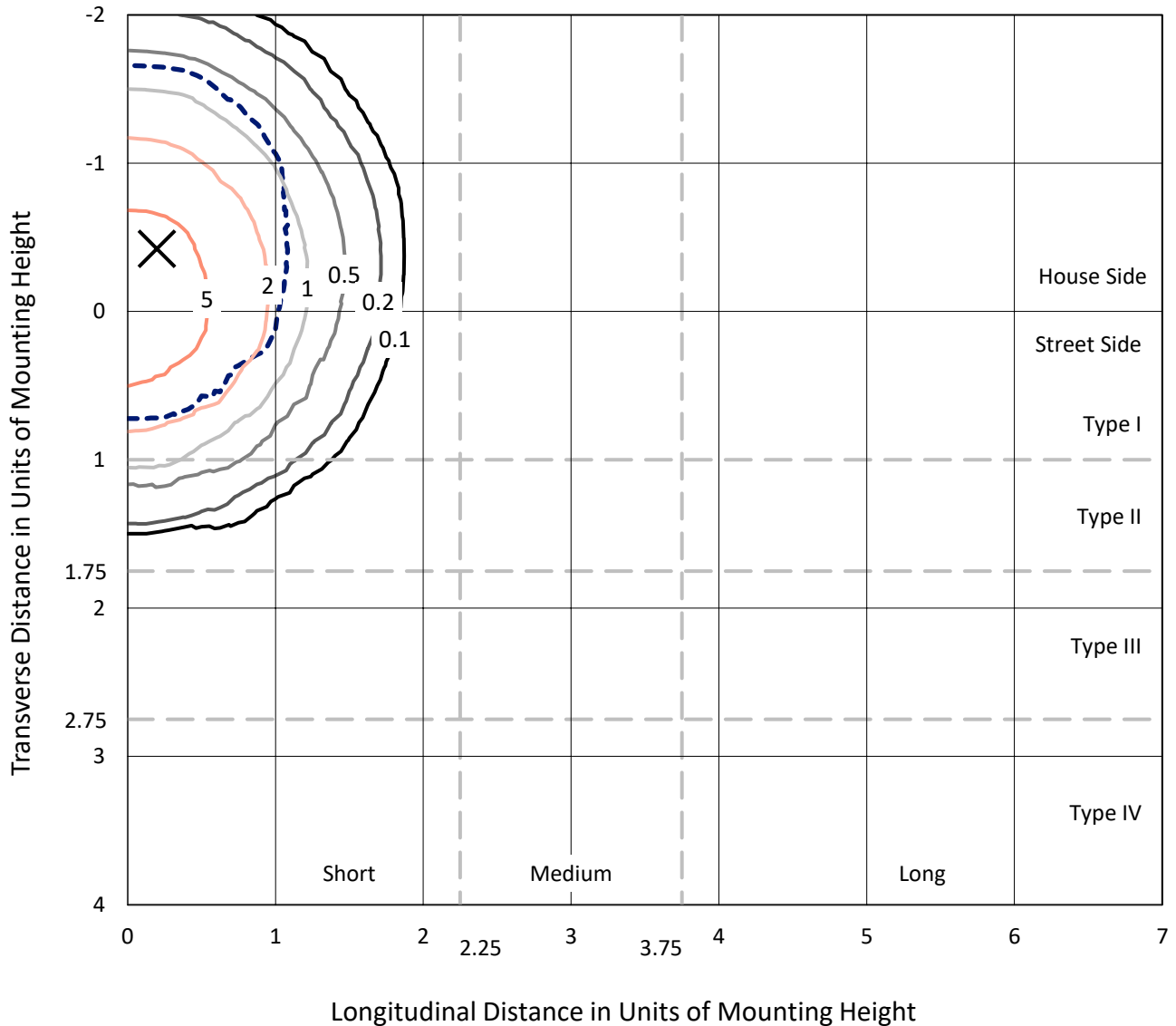
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638511  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

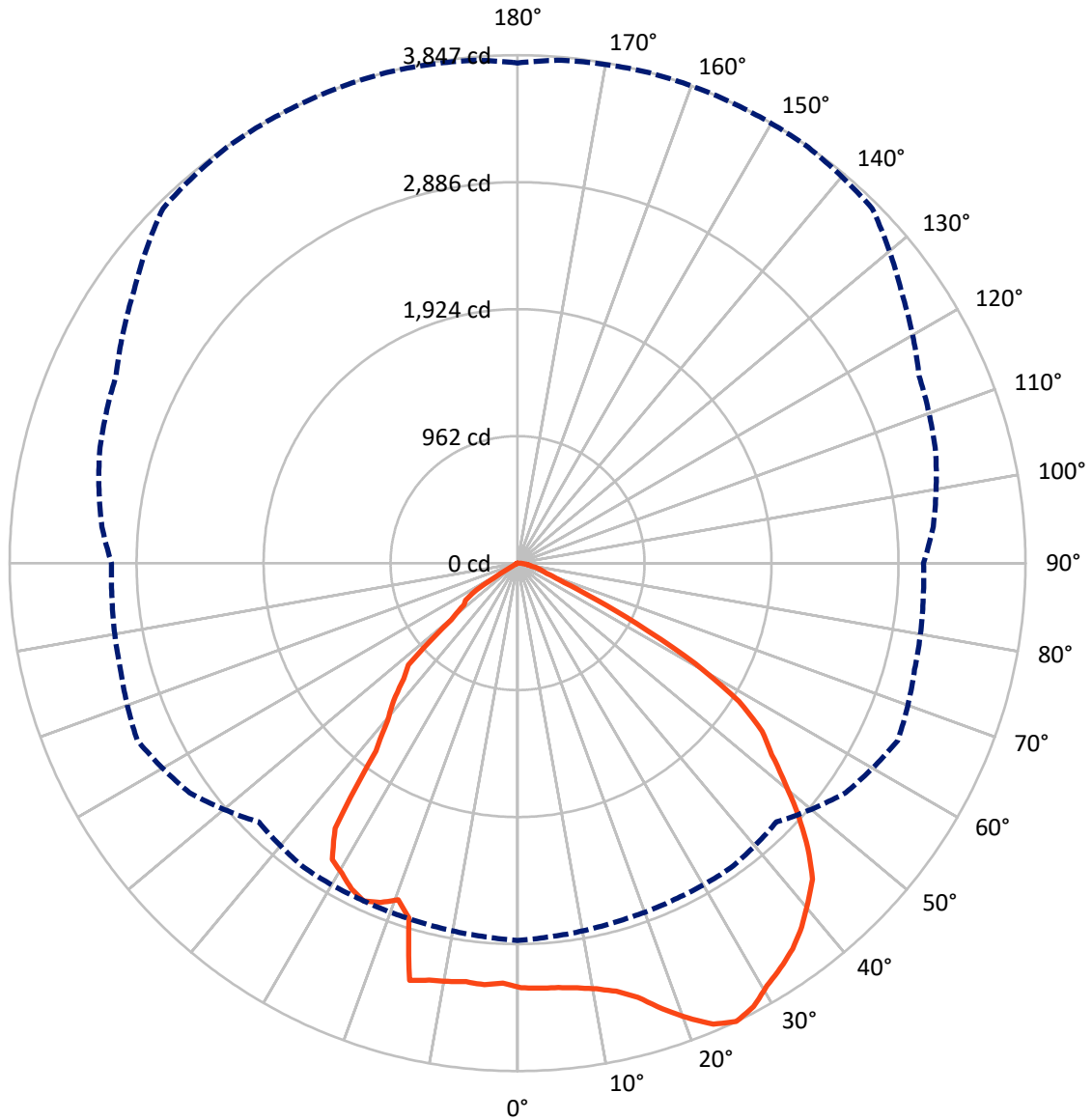
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type I - Short - N/A

REPORT NUMBER: P638511  
CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638511  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4615.0	0.0	4615.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2839.3	0.0	2839.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	7454.3	0.0	7454.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.6	4.1
10°-20°	942.2	12.6
20°-30°	1489.6	20.0
30°-40°	1682.6	22.6
40°-50°	1575.8	21.1
50°-60°	1086.4	14.6
60°-70°	291.9	3.9
70°-80°	60.8	0.8
80°-90°	16.5	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°	7454.3	100.0
0°-180°	7454.3	100.0



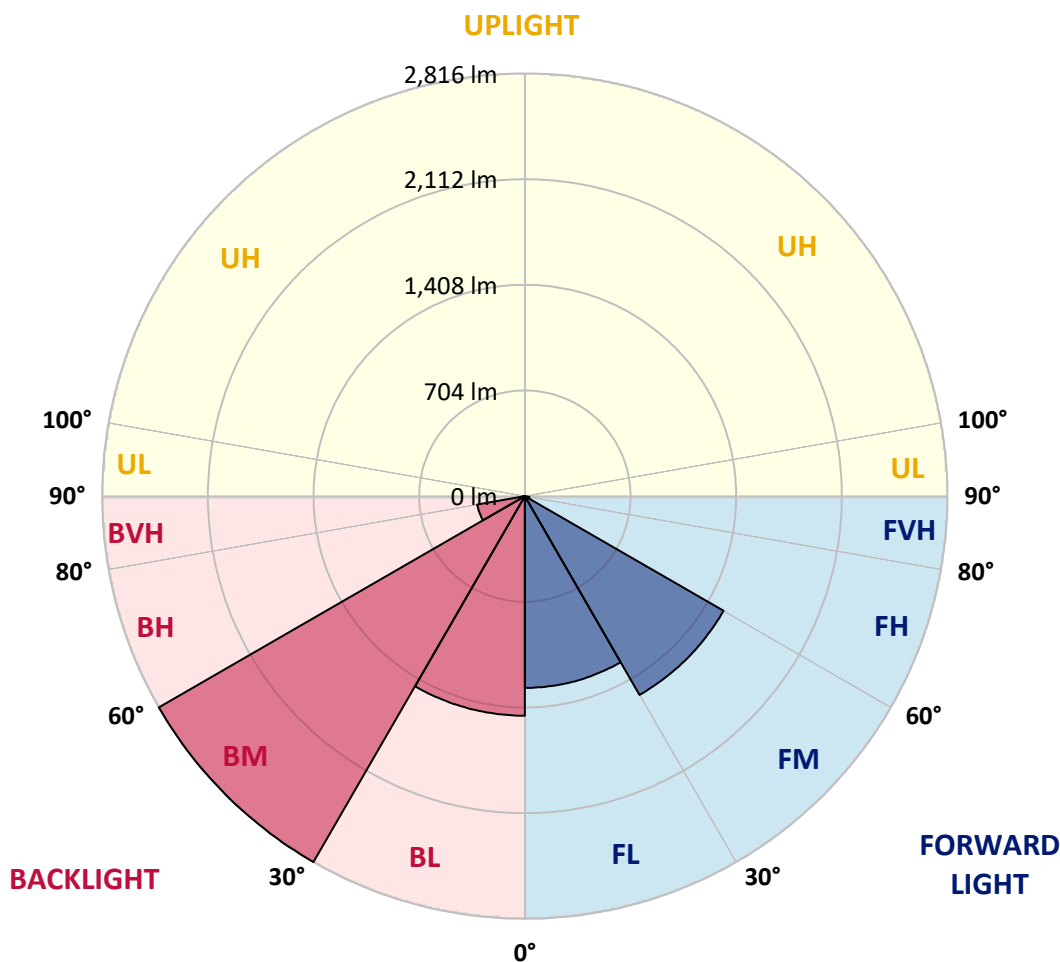
REPORT NUMBER: P638511  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1277.4	17.1			
FM (30°-60°)	1529.0	20.5			
FH (60°-80°)	30.6	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1462.9	19.6	B3/2500		
BM (30°-60°)	2815.8	37.8	B3/5000		
BH (60°-80°)	322.1	4.3	B1/500		G1/500
BVH (80°-90°)	14.3	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





REPORT NUMBER: P638511  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4
2.5°	3230.6	3209.8	3190.1	3183.5	3210.9	3240.5	3221.9	3223.0	3216.4	3228.5
5°	3254.7	3226.3	3213.1	3203.3	3207.6	3238.3	3212.0	3221.9	3210.9	3225.2
7.5°	3246.0	3226.3	3213.1	3194.5	3208.7	3244.9	3219.7	3220.8	3215.3	3228.5
10°	3240.5	3226.3	3209.8	3212.0	3228.5	3259.1	3239.4	3250.4	3242.7	3250.4
12.5°	3253.6	3238.3	3229.5	3229.5	3243.8	3278.8	3269.0	3278.8	3275.6	3282.1
15°	3129.9	3144.1	3227.4	3264.6	3293.1	3328.1	3323.8	3333.6	3335.8	3345.7
17.5°	2640.2	2625.9	2619.4	2811.1	3320.5	3428.9	3425.6	3424.5	3413.6	3405.9
20°	2704.8	2699.3	2691.7	2705.9	2762.9	3481.5	3503.4	3368.7	3329.2	3326.0
22.5°	2807.8	2799.0	2770.5	2771.6	2789.2	3026.9	3395.0	3272.3	3259.1	3251.5
25°	2858.2	2840.6	2817.6	2811.1	2816.5	2772.7	3032.4	3178.1	3113.4	3083.8
27.5°	2769.4	2770.5	2751.9	2769.4	2748.6	2551.4	2440.8	2994.0	2991.8	2978.7
30°	2702.6	2699.3	2677.4	2699.3	2555.8	2335.6	2288.5	2792.4	2769.4	2751.9
32.5°	2497.8	2499.9	2563.5	2648.9	2413.4	2239.2	2096.8	2494.5	2712.5	2702.6
35°	1786.8	1791.1	2016.8	2438.6	2197.6	2047.5	2036.5	2156.0	2622.6	2627.0
37.5°	1719.9	1719.9	1714.5	1783.5	2027.8	1969.7	1991.6	1979.6	2402.4	2413.4
40°	1671.7	1661.9	1654.2	1545.8	1409.9	1914.9	1930.3	1875.5	2271.0	2273.2
42.5°	1613.7	1602.7	1604.9	1404.4	1262.0	1779.1	1736.4	1663.0	2051.9	2054.1
45°	1507.4	1526.0	1539.2	1229.2	1218.2	1270.8	1601.6	1555.6	1904.0	1944.5
47.5°	766.9	783.3	1201.8	1130.6	1155.8	1129.5	1352.9	1354.0	1584.1	1718.8
50°	695.6	691.3	692.4	659.5	1067.0	913.7	978.3	1241.2	1268.6	1461.4
52.5°	648.5	647.4	580.6	516.0	670.4	804.1	709.9	898.3	943.2	1237.9
55°	479.8	514.9	457.9	485.3	419.6	644.2	640.9	810.7	826.0	992.5
57.5°	4.4	5.5	13.1	369.2	290.3	322.1	442.6	553.2	580.6	773.4
60°	1.1	2.2	5.5	11.0	188.4	198.3	295.8	319.9	360.4	461.2
62.5°	0.0	0.0	2.2	5.5	9.9	81.1	94.2	103.0	158.8	235.5
65°	0.0	0.0	1.1	3.3	5.5	13.1	23.0	48.2	69.0	85.4
67.5°	0.0	0.0	1.1	2.2	4.4	6.6	13.1	18.6	29.6	50.4
70°	0.0	0.0	1.1	2.2	3.3	5.5	8.8	13.1	17.5	25.2
72.5°	0.0	0.0	1.1	2.2	2.2	6.6	6.6	9.9	13.1	16.4
75°	0.0	0.0	1.1	1.1	2.2	4.4	6.6	7.7	8.8	13.1
77.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	8.8	7.7	7.7
80°	0.0	0.0	1.1	3.3	3.3	5.5	6.6	8.8	5.5	5.5
82.5°	0.0	0.0	1.1	4.4	3.3	11.0	11.0	12.1	4.4	4.4
85°	0.0	0.0	3.3	2.2	6.6	11.0	9.9	6.6	5.5	3.3
87.5°	0.0	0.0	1.1	1.1	2.2	3.3	7.7	6.6	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



REPORT NUMBER: P638511  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
3216.4	0°	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4	3216.4
3196.7	2.5°	3240.5	3226.3	3255.8	3252.6	3238.3	3231.7	3224.1	3217.5	3169.3
3198.9	5°	3241.6	3219.7	3255.8	3249.3	3247.1	3236.1	3229.5	3239.4	3195.6
3207.6	7.5°	3241.6	3219.7	3259.1	3261.3	3258.0	3249.3	3248.2	3254.7	3218.6
3223.0	10°	3263.5	3254.7	3287.6	3290.9	3286.5	3284.3	3278.8	3274.5	3236.1
3275.6	12.5°	3309.5	3292.0	3329.2	3339.1	3335.8	3341.3	3328.1	3334.7	3295.3
3329.2	15°	3365.4	3366.5	3395.0	3416.9	3414.7	3432.2	3412.5	3430.0	3401.5
3390.6	17.5°	3450.8	3462.9	3503.4	3536.3	3548.3	3561.5	3548.3	3553.8	3513.3
3322.7	20°	3361.0	3405.9	3600.9	3661.2	3686.4	3698.4	3676.5	3683.1	3642.6
3239.4	22.5°	3279.9	3338.0	3511.1	3699.5	3777.3	3801.4	3793.7	3792.6	3777.3
3075.1	25°	3160.5	3277.7	3355.5	3554.9	3799.2	3843.0	3847.4	3846.3	3823.3
2974.3	27.5°	3013.7	3040.0	3241.6	3363.2	3645.8	3812.4	3805.8	3774.0	3743.3
2765.1	30°	2826.4	2945.8	3036.7	3230.6	3447.6	3718.1	3718.1	3694.0	3662.3
2690.6	32.5°	2731.1	2885.6	2969.9	3040.0	3225.2	3613.0	3656.8	3631.6	3606.4
2632.5	35°	2680.7	2703.7	2900.9	2964.4	3121.1	3410.3	3587.8	3562.6	3544.0
2478.0	37.5°	2570.1	2623.7	2715.8	2885.6	2933.8	3244.9	3495.8	3482.6	3460.7
2277.6	40°	2323.6	2467.1	2608.4	2769.4	2819.8	3032.4	3384.0	3389.5	3359.9
2063.9	42.5°	2177.9	2275.4	2496.7	2605.1	2741.0	2895.4	3275.6	3284.3	3263.5
1955.5	45°	2007.0	2115.4	2271.0	2468.2	2653.3	2707.0	3083.8	3175.9	3158.3
1739.7	47.5°	1850.3	1937.9	2128.6	2327.9	2532.8	2525.1	2863.6	3036.7	3012.6
1574.2	50°	1627.9	1781.3	1871.1	2054.1	2359.7	2380.5	2629.2	2873.5	2853.8
1337.6	52.5°	1372.7	1565.5	1737.5	1905.1	2184.4	2233.7	2411.2	2707.0	2693.8
1022.1	55°	1199.6	1339.8	1533.7	1668.5	1971.9	2103.4	2248.0	2548.1	2541.6
840.3	57.5°	853.4	1124.0	1283.9	1472.4	1632.3	1870.0	1977.4	2225.0	2163.6
465.6	60°	578.4	705.5	900.5	1103.2	1210.5	1448.3	1547.9	1746.2	1729.8
278.3	62.5°	305.6	422.9	562.0	663.9	741.7	972.8	1014.4	1228.1	1222.6
111.7	65°	134.7	178.6	304.6	357.1	437.1	544.5	580.6	657.3	638.7
54.8	67.5°	70.1	106.3	172.0	211.4	266.2	306.7	336.3	360.4	375.8
36.2	70°	42.7	77.8	106.3	146.8	182.9	215.8	238.8	271.7	291.4
18.6	72.5°	31.8	49.3	73.4	112.8	132.6	170.9	193.9	218.0	235.5
15.3	75°	17.5	32.9	59.2	88.7	106.3	139.1	159.9	176.4	181.9
8.8	77.5°	11.0	25.2	49.3	69.0	83.3	112.8	107.4	122.7	135.8
6.6	80°	7.7	18.6	38.3	57.0	58.1	72.3	85.4	98.6	107.4
4.4	82.5°	5.5	15.3	28.5	43.8	38.3	55.9	66.8	76.7	55.9
3.3	85°	4.4	11.0	14.2	26.3	21.9	39.4	34.0	32.9	21.9
2.2	87.5°	3.3	5.5	9.9	12.1	8.8	8.8	11.0	13.1	11.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
3216.4  
3136.4  
3158.3  
3177.0  
3204.4  
3260.2  
3354.4  
3478.2  
3614.1  
3728.0  
3788.3  
3719.2  
3650.2  
3585.6  
3517.7  
3438.8  
3353.3  
3261.3  
3160.5  
3030.2  
2857.1  
2702.6  
2549.2  
2157.0  
1730.9  
1223.7  
631.0  
375.8  
292.5  
238.8  
178.6  
138.0  
108.5  
40.5  
21.9  
11.0  
0.0

(END OF REPORT)