

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: P638540

Luminaire Tested: **IFLD-S-SA3A-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638540  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8057.7 lumens  
Efficiency: N/A  
Efficacy: 85.0 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

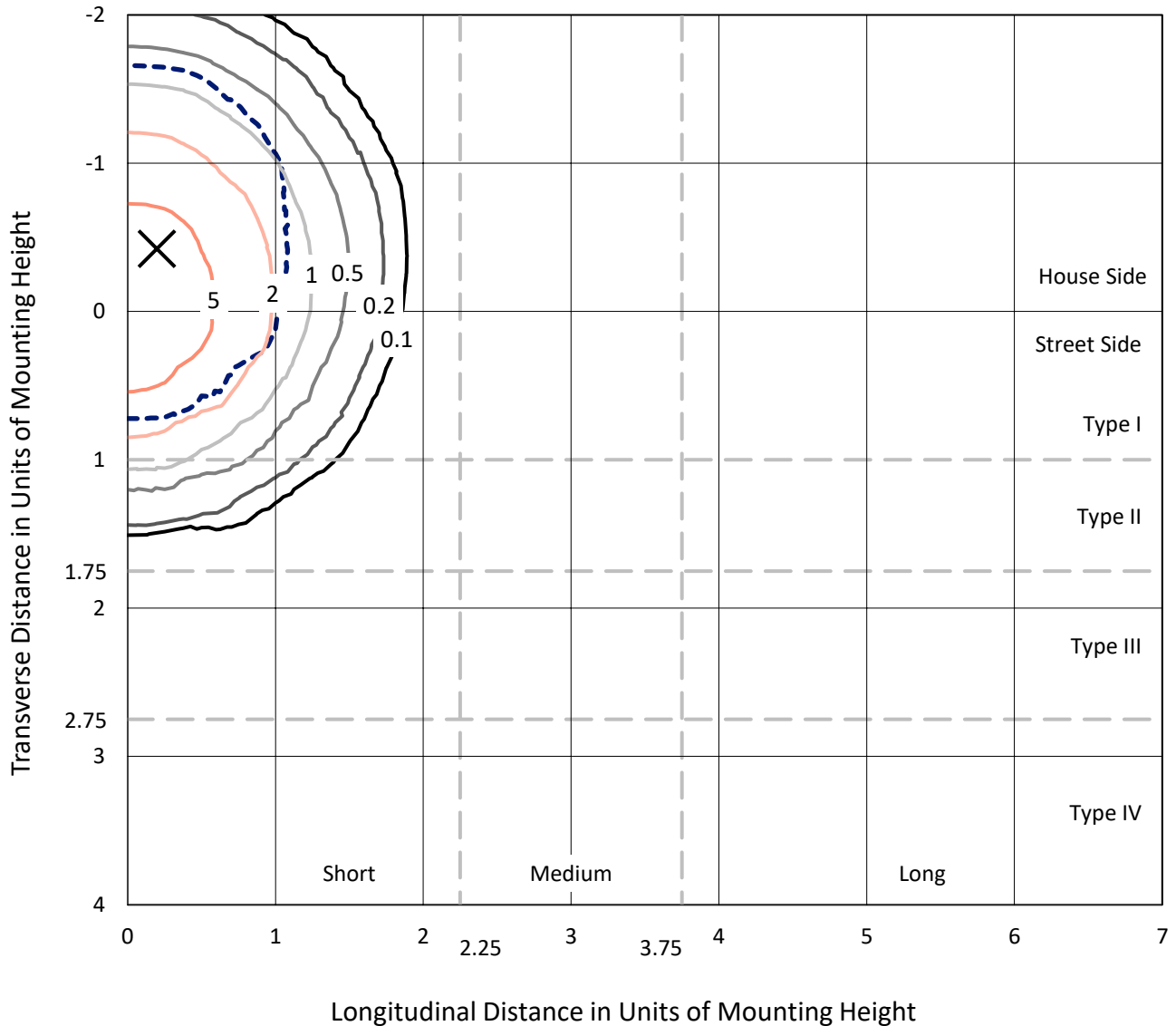
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

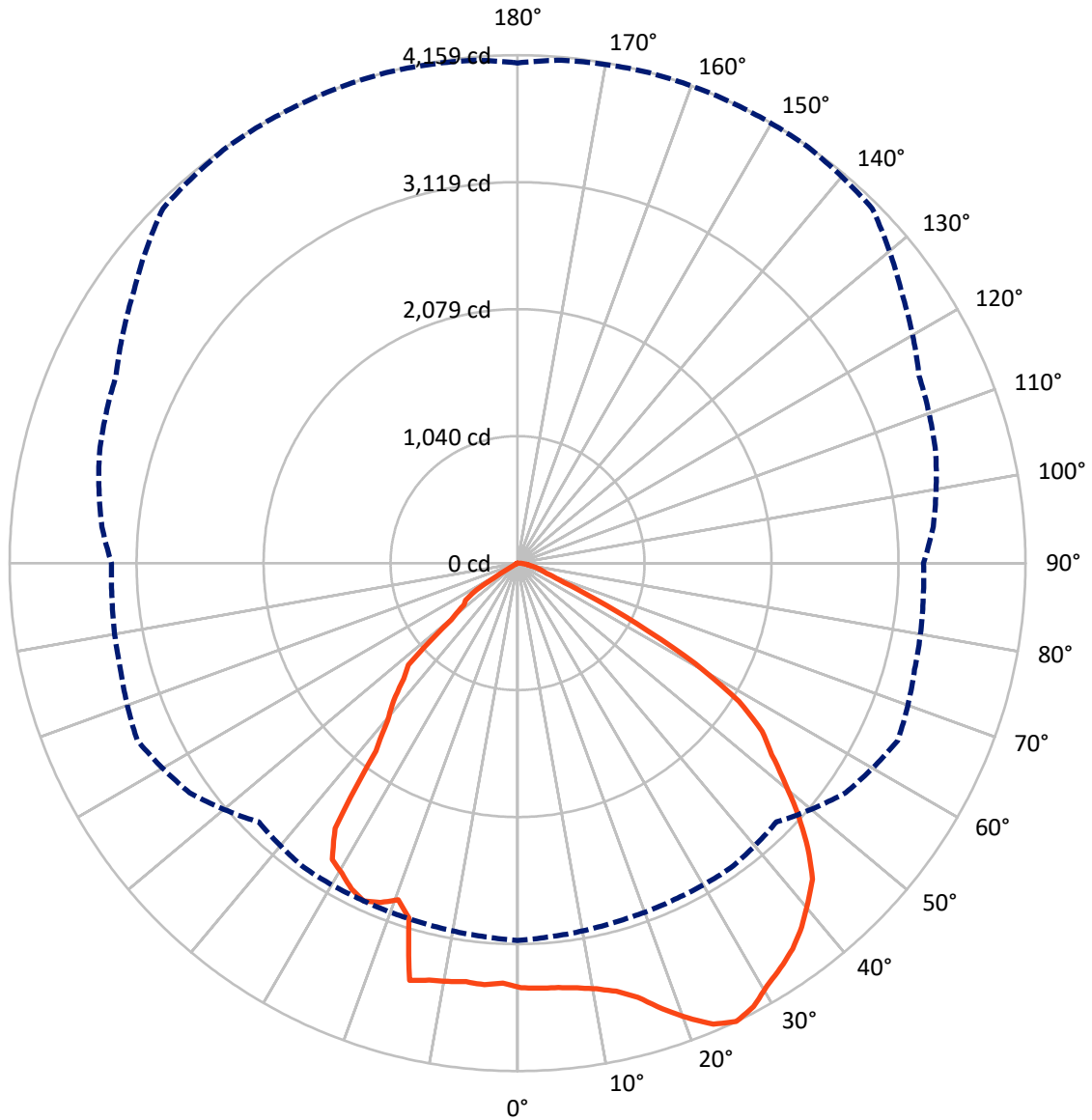
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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
<b>House Side</b>	Lumens	4988.5	0.0	4988.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3069.2	0.0	3069.2
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	8057.7	0.0	8057.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.5	4.1
10°-20°	1018.5	12.6
20°-30°	1610.1	20.0
30°-40°	1818.8	22.6
40°-50°	1703.3	21.1
50°-60°	1174.3	14.6
60°-70°	315.5	3.9
70°-80°	65.8	0.8
80°-90°	17.8	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°	8057.7	100.0
0°-180°	8057.7	100.0



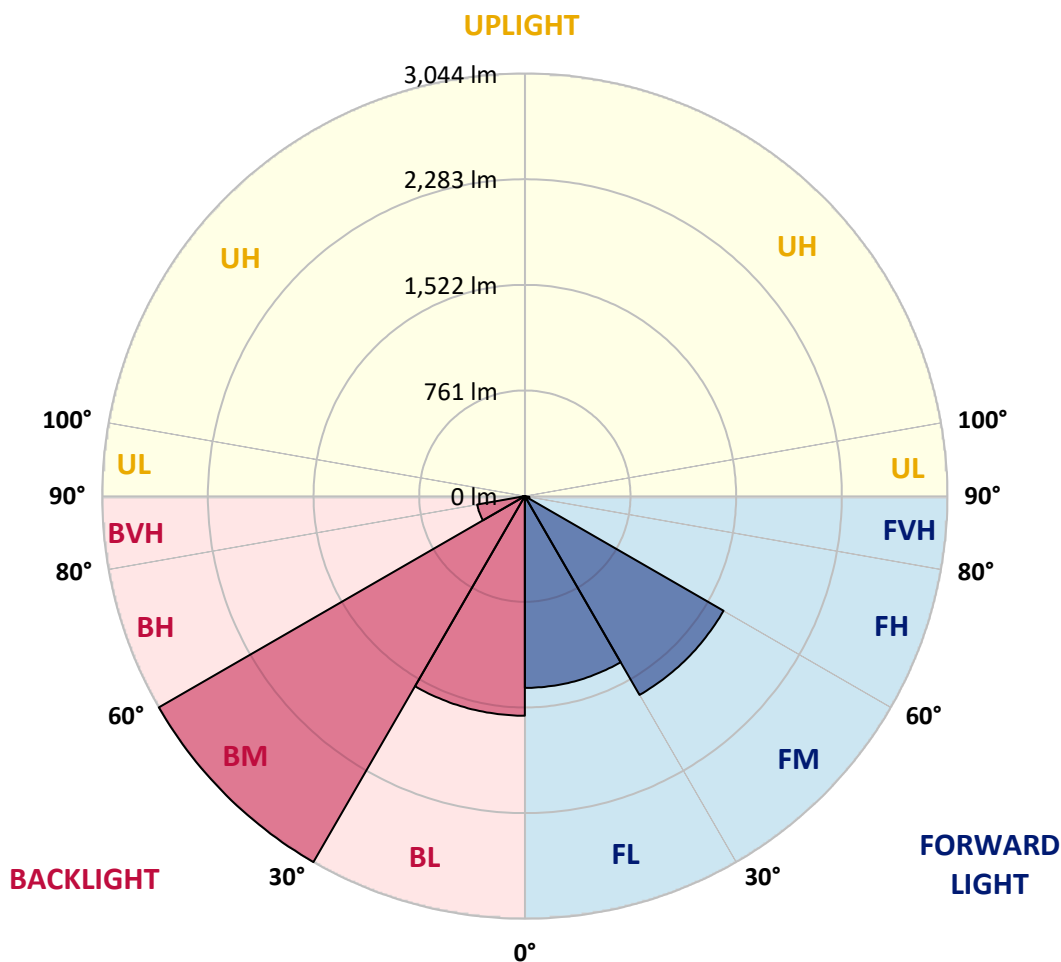
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1380.8	17.1			
FM (30°-60°)	1652.8	20.5			
FH (60°-80°)	33.1	0.4			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	1581.3	19.6	B3/2500		
BM (30°-60°)	3043.7	37.8	B3/5000		
BH (60°-80°)	348.1	4.3	B1/500		G1/500
BVH (80°-90°)	15.4	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°	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7
2.5°	3492.1	3469.6	3448.3	3441.2	3470.8	3502.8	3482.7	3483.8	3476.7	3489.8
5°	3518.2	3487.4	3473.2	3462.5	3467.3	3500.4	3472.0	3482.7	3470.8	3486.2
7.5°	3508.7	3487.4	3473.2	3453.1	3468.5	3507.5	3480.3	3481.5	3475.6	3489.8
10°	3502.8	3487.4	3469.6	3472.0	3489.8	3522.9	3501.6	3513.5	3505.2	3513.5
12.5°	3517.0	3500.4	3491.0	3491.0	3506.3	3544.2	3533.6	3544.2	3540.7	3547.8
15°	3383.2	3398.6	3488.6	3528.8	3559.6	3597.5	3592.8	3603.4	3605.8	3616.5
17.5°	2853.9	2838.5	2831.4	3038.6	3589.2	3706.5	3702.9	3701.7	3689.9	3681.6
20°	2923.7	2917.8	2909.5	2924.9	2986.5	3763.3	3787.0	3641.3	3598.7	3595.2
22.5°	3035.0	3025.6	2994.8	2996.0	3014.9	3271.9	3669.8	3537.1	3522.9	3514.6
25°	3089.5	3070.6	3045.7	3038.6	3044.5	2997.1	3277.8	3435.3	3365.4	3333.5
27.5°	2993.6	2994.8	2974.7	2993.6	2971.1	2757.9	2638.3	3236.4	3234.0	3219.8
30°	2921.4	2917.8	2894.1	2917.8	2762.7	2524.7	2473.7	3018.5	2993.6	2974.7
32.5°	2699.9	2702.3	2771.0	2863.3	2608.7	2420.5	2266.5	2696.4	2932.0	2921.4
35°	1931.4	1936.1	2180.1	2636.0	2375.5	2213.2	2201.4	2330.5	2834.9	2839.7
37.5°	1859.2	1859.2	1853.2	1927.8	2191.9	2129.1	2152.8	2139.8	2596.9	2608.7
40°	1807.1	1796.4	1788.1	1670.9	1524.0	2069.9	2086.5	2027.3	2454.8	2457.2
42.5°	1744.3	1732.4	1734.8	1518.1	1364.2	1923.1	1876.9	1797.6	2218.0	2220.3
45°	1629.4	1649.6	1663.8	1328.6	1316.8	1373.6	1731.3	1681.5	2058.1	2101.9
47.5°	828.9	846.7	1299.0	1222.1	1249.3	1220.9	1462.5	1463.6	1712.3	1858.0
50°	752.0	747.2	748.4	712.9	1153.4	987.6	1057.5	1341.7	1371.3	1579.7
52.5°	701.0	699.8	627.6	557.7	724.7	869.2	767.3	971.0	1019.6	1338.1
55°	518.7	556.6	495.0	524.6	453.5	696.3	692.7	876.3	892.9	1072.9
57.5°	4.7	5.9	14.2	399.1	313.8	348.1	478.4	598.0	627.6	836.0
60°	1.2	2.4	5.9	11.8	203.7	214.3	319.7	345.8	389.6	498.5
62.5°	0.0	0.0	2.4	5.9	10.7	87.6	101.8	111.3	171.7	254.6
65°	0.0	0.0	1.2	3.6	5.9	14.2	24.9	52.1	74.6	92.4
67.5°	0.0	0.0	1.2	2.4	4.7	7.1	14.2	20.1	32.0	54.5
70°	0.0	0.0	1.2	2.4	3.6	5.9	9.5	14.2	18.9	27.2
72.5°	0.0	0.0	1.2	2.4	2.4	7.1	7.1	10.7	14.2	17.8
75°	0.0	0.0	1.2	1.2	2.4	4.7	7.1	8.3	9.5	14.2
77.5°	0.0	0.0	1.2	2.4	3.6	4.7	5.9	9.5	8.3	8.3
80°	0.0	0.0	1.2	3.6	3.6	5.9	7.1	9.5	5.9	5.9
82.5°	0.0	0.0	1.2	4.7	3.6	11.8	11.8	13.0	4.7	4.7
85°	0.0	0.0	3.6	2.4	7.1	11.8	10.7	7.1	5.9	3.6
87.5°	0.0	0.0	1.2	1.2	2.4	3.6	8.3	7.1	2.4	2.4
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°
3476.7	0°	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7
3455.4	2.5°	3502.8	3487.4	3519.4	3515.8	3500.4	3493.3	3485.0	3477.9	3425.8
3457.8	5°	3504.0	3480.3	3519.4	3512.3	3509.9	3498.1	3491.0	3501.6	3454.2
3467.3	7.5°	3504.0	3480.3	3522.9	3525.3	3521.7	3512.3	3511.1	3518.2	3479.1
3483.8	10°	3527.7	3518.2	3553.7	3557.3	3552.5	3550.2	3544.2	3539.5	3498.1
3540.7	12.5°	3577.4	3558.4	3598.7	3609.4	3605.8	3611.7	3597.5	3604.6	3562.0
3598.7	15°	3637.8	3639.0	3669.8	3693.4	3691.1	3710.0	3688.7	3707.7	3676.9
3665.0	17.5°	3730.2	3743.2	3787.0	3822.5	3835.5	3849.8	3835.5	3841.5	3797.7
3591.6	20°	3633.1	3681.6	3892.4	3957.5	3984.8	3997.8	3974.1	3981.2	3937.4
3501.6	22.5°	3545.4	3608.2	3795.3	3999.0	4083.0	4109.1	4100.8	4099.6	4083.0
3324.0	25°	3416.3	3543.1	3627.1	3842.7	4106.7	4154.1	4158.8	4157.6	4132.8
3215.0	27.5°	3257.7	3286.1	3504.0	3635.4	3940.9	4120.9	4113.8	4079.5	4046.3
2988.9	30°	3055.2	3184.2	3282.5	3492.1	3726.6	4019.1	4019.1	3993.0	3958.7
2908.3	32.5°	2952.2	3119.1	3210.3	3286.1	3486.2	3905.4	3952.8	3925.5	3898.3
2845.6	35°	2897.7	2922.5	3135.7	3204.4	3373.7	3686.3	3878.2	3850.9	3830.8
2678.6	37.5°	2778.1	2836.1	2935.6	3119.1	3171.2	3507.5	3778.7	3764.5	3740.8
2461.9	40°	2511.6	2666.8	2819.5	2993.6	3048.1	3277.8	3657.9	3663.8	3631.9
2231.0	42.5°	2354.1	2459.5	2698.7	2816.0	2962.8	3129.8	3540.7	3550.2	3527.7
2113.8	45°	2169.4	2286.6	2454.8	2667.9	2868.1	2926.1	3333.5	3432.9	3414.0
1880.5	47.5°	2000.1	2094.8	2300.9	2516.4	2737.8	2729.5	3095.4	3282.5	3256.5
1701.7	50°	1759.7	1925.5	2022.6	2220.3	2550.7	2573.2	2842.0	3106.1	3084.8
1445.9	52.5°	1483.8	1692.2	1878.1	2059.3	2361.2	2414.5	2606.4	2926.1	2911.9
1104.8	55°	1296.7	1448.2	1657.8	1803.5	2131.5	2273.6	2429.9	2754.4	2747.3
908.3	57.5°	922.5	1215.0	1387.9	1591.5	1764.4	2021.4	2137.4	2405.1	2338.7
503.3	60°	625.2	762.6	973.4	1192.5	1308.5	1565.5	1673.2	1887.6	1869.8
300.8	62.5°	330.4	457.1	607.5	717.6	801.7	1051.5	1096.5	1327.5	1321.5
120.8	65°	145.7	193.0	329.2	386.0	472.5	588.5	627.6	710.5	690.4
59.2	67.5°	75.8	114.9	185.9	228.5	287.8	331.6	363.5	389.6	406.2
39.1	70°	46.2	84.1	114.9	158.7	197.8	233.3	258.2	293.7	315.0
20.1	72.5°	34.3	53.3	79.3	122.0	143.3	184.7	209.6	235.7	254.6
16.6	75°	18.9	35.5	63.9	95.9	114.9	150.4	172.9	190.7	196.6
9.5	77.5°	11.8	27.2	53.3	74.6	90.0	122.0	116.0	132.6	146.8
7.1	80°	8.3	20.1	41.4	61.6	62.8	78.2	92.4	106.6	116.0
4.7	82.5°	5.9	16.6	30.8	47.4	41.4	60.4	72.2	82.9	60.4
3.6	85°	4.7	11.8	15.4	28.4	23.7	42.6	36.7	35.5	23.7
2.4	87.5°	3.6	5.9	10.7	13.0	9.5	9.5	11.8	14.2	11.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
3476.7  
3390.3  
3414.0  
3434.1  
3463.7  
3524.1  
3625.9  
3759.8  
3906.6  
4029.8  
4094.9  
4020.3  
3945.7  
3875.8  
3802.4  
3717.1  
3624.8  
3525.3  
3416.3  
3275.4  
3088.3  
2921.4  
2755.6  
2331.6  
1871.0  
1322.7  
682.1  
406.2  
316.2  
258.2  
193.0  
149.2  
117.2  
43.8  
23.7  
11.8  
0.0

(END OF REPORT)