

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: P636859

Luminaire Tested: **IFLD-S-SA3B-927-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636859  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-927-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7939.9 lumens  
Efficiency: N/A  
Efficacy: 64.9 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

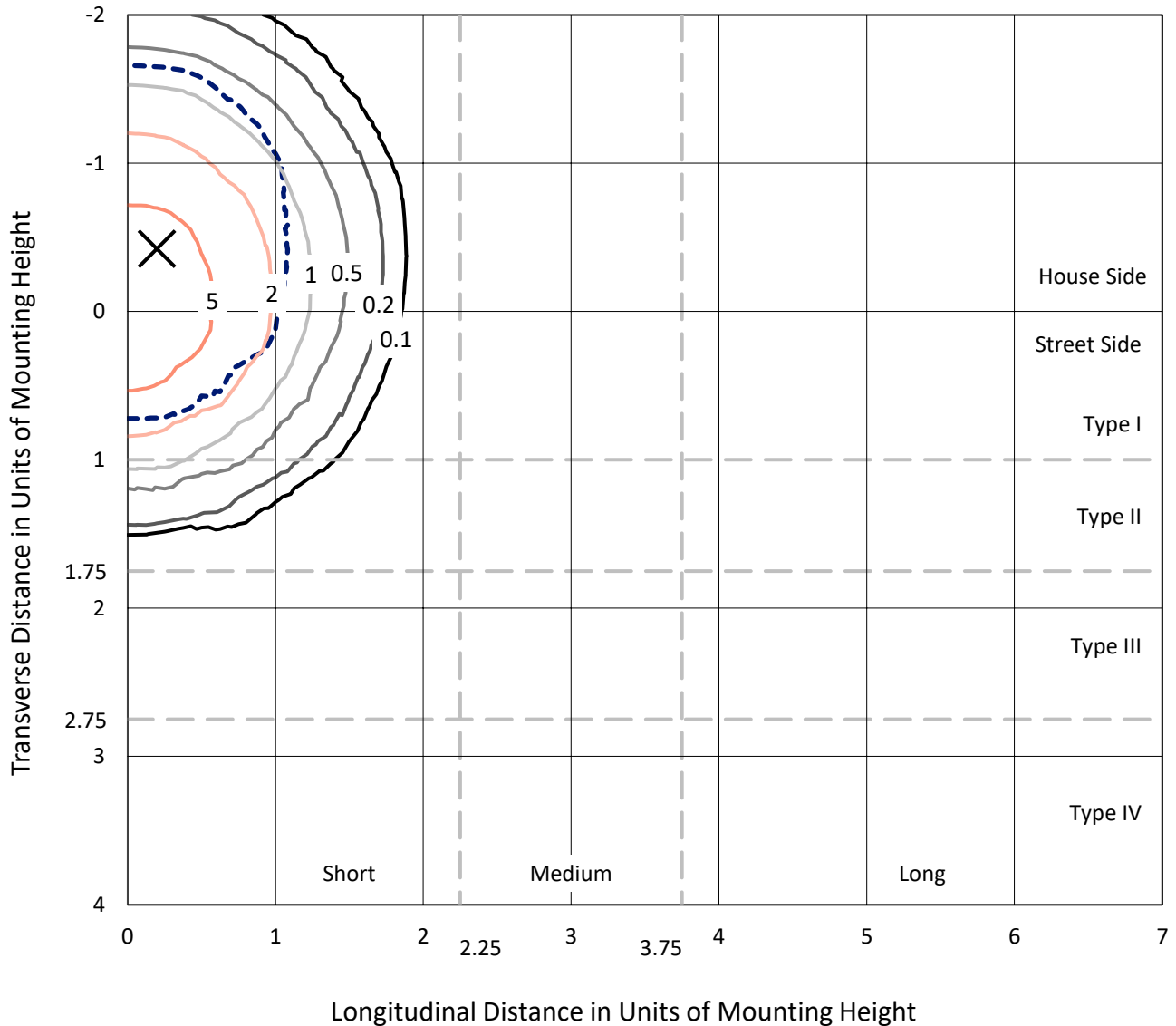
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

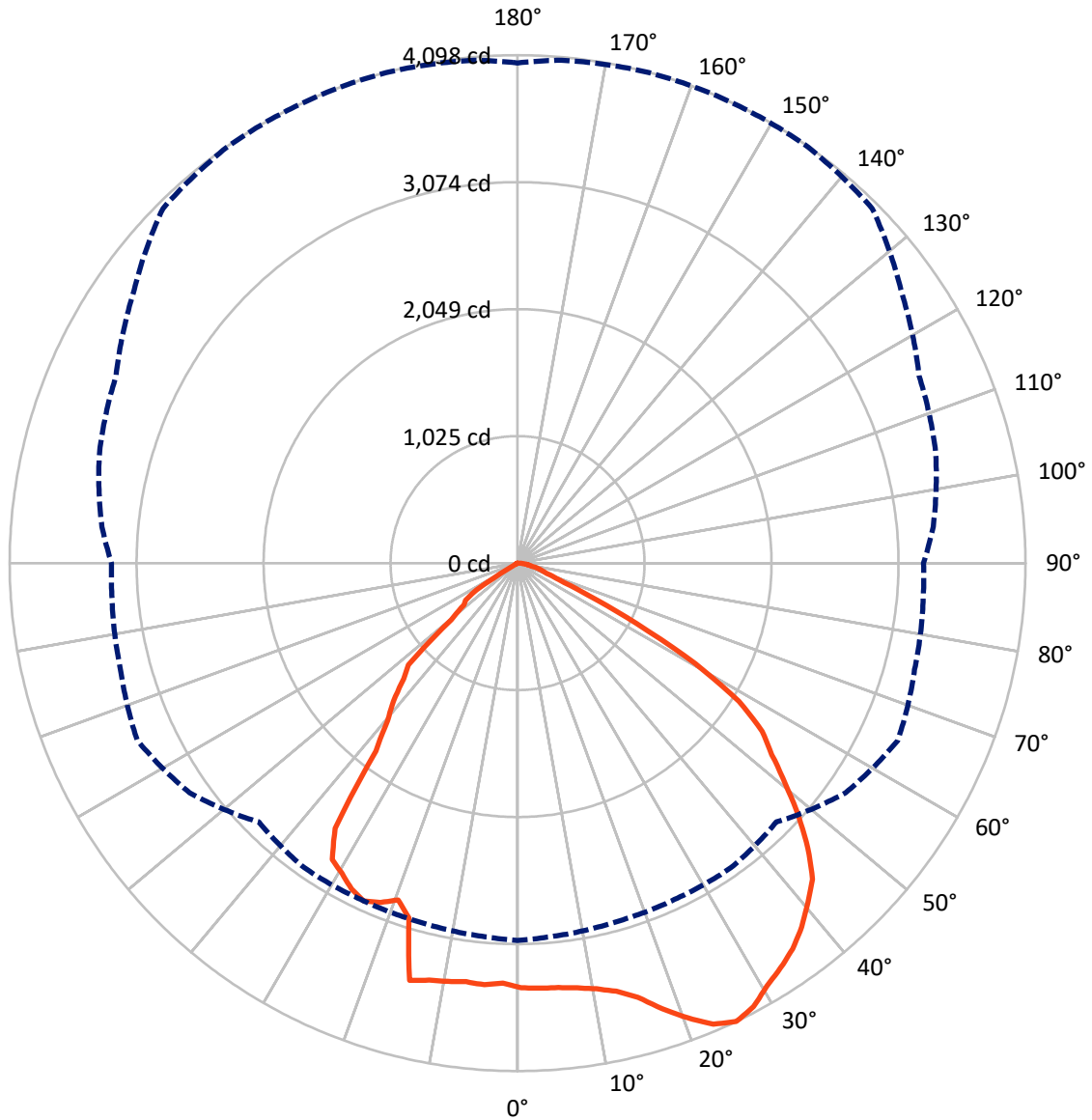
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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	4915.6	0.0	4915.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3024.3	0.0	3024.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	7939.9	0.0	7939.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.7	4.1
10°-20°	1003.6	12.6
20°-30°	1586.6	20.0
30°-40°	1792.2	22.6
40°-50°	1678.4	21.1
50°-60°	1157.2	14.6
60°-70°	310.9	3.9
70°-80°	64.8	0.8
80°-90°	17.5	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°	7939.9	100.0
0°-180°	7939.9	100.0



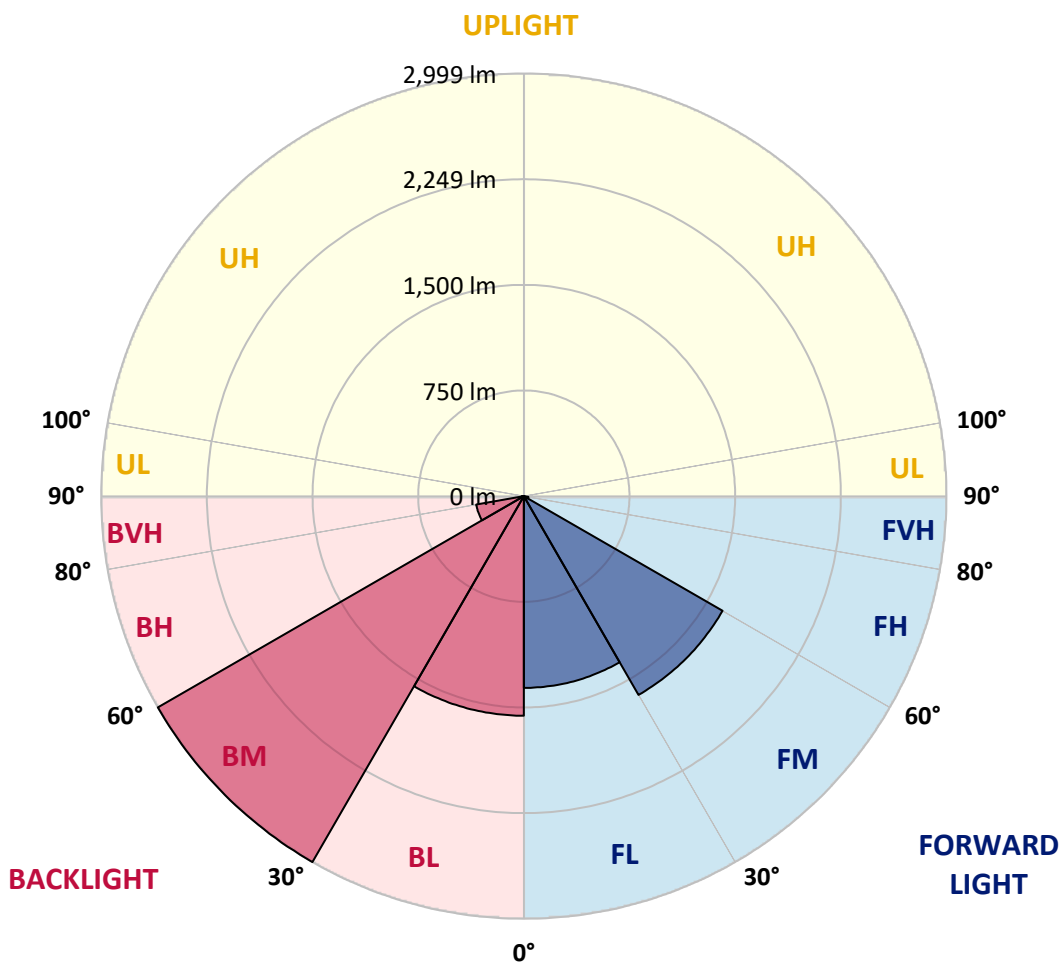
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1360.6	17.1			
FM (30°-60°)	1628.7	20.5			
FH (60°-80°)	32.6	0.4			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	1558.2	19.6	B3/2500		
BM (30°-60°)	2999.2	37.8	B3/5000		
BH (60°-80°)	343.0	4.3	B1/500		G1/500
BVH (80°-90°)	15.2	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°	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9
2.5°	3441.1	3418.9	3397.9	3390.9	3420.1	3451.6	3431.8	3432.9	3425.9	3438.8
5°	3466.8	3436.4	3422.4	3411.9	3416.6	3449.3	3421.3	3431.8	3420.1	3435.3
7.5°	3457.4	3436.4	3422.4	3402.6	3417.8	3456.3	3429.4	3430.6	3424.8	3438.8
10°	3451.6	3436.4	3418.9	3421.3	3438.8	3471.4	3450.4	3462.1	3453.9	3462.1
12.5°	3465.6	3449.3	3439.9	3439.9	3455.1	3492.4	3481.9	3492.4	3488.9	3495.9
15°	3333.7	3348.9	3437.6	3477.3	3507.6	3544.9	3540.3	3550.8	3553.1	3563.6
17.5°	2812.2	2797.0	2790.0	2994.2	3536.8	3652.3	3648.8	3647.6	3636.0	3627.8
20°	2881.0	2875.2	2867.0	2882.2	2942.8	3708.3	3731.6	3588.1	3546.1	3542.6
22.5°	2990.7	2981.4	2951.0	2952.2	2970.8	3224.1	3616.1	3485.4	3471.4	3463.3
25°	3044.4	3025.7	3001.2	2994.2	3000.0	2953.3	3229.9	3385.1	3316.2	3284.7
27.5°	2949.8	2951.0	2931.2	2949.8	2927.7	2717.6	2599.8	3189.1	3186.7	3172.7
30°	2878.7	2875.2	2851.8	2875.2	2722.3	2487.8	2437.6	2974.3	2949.8	2931.2
32.5°	2660.5	2662.8	2730.5	2821.5	2570.6	2385.1	2233.4	2657.0	2889.2	2878.7
35°	1903.2	1907.8	2148.2	2597.5	2340.7	2180.9	2169.2	2296.4	2793.5	2798.2
37.5°	1832.0	1832.0	1826.2	1899.7	2159.9	2098.0	2121.4	2108.5	2558.9	2570.6
40°	1780.6	1770.1	1762.0	1646.5	1501.8	2039.7	2056.0	1997.7	2418.9	2421.3
42.5°	1718.8	1707.1	1709.5	1495.9	1344.2	1895.0	1849.5	1771.3	2185.5	2187.9
45°	1605.6	1625.4	1639.5	1309.2	1297.6	1353.6	1706.0	1657.0	2028.0	2071.2
47.5°	816.8	834.3	1280.1	1204.2	1231.0	1203.0	1441.1	1442.3	1687.3	1830.8
50°	741.0	736.3	737.5	702.5	1136.5	973.2	1042.0	1322.1	1351.2	1556.6
52.5°	690.8	689.6	618.4	549.6	714.1	856.5	756.1	956.8	1004.7	1318.6
55°	511.1	548.4	487.8	516.9	446.9	686.1	682.6	863.5	879.8	1057.2
57.5°	4.7	5.8	14.0	393.2	309.2	343.1	471.4	589.3	618.4	823.8
60°	1.2	2.3	5.8	11.7	200.7	211.2	315.1	340.7	383.9	491.3
62.5°	0.0	0.0	2.3	5.8	10.5	86.3	100.4	109.7	169.2	250.9
65°	0.0	0.0	1.2	3.5	5.8	14.0	24.5	51.3	73.5	91.0
67.5°	0.0	0.0	1.2	2.3	4.7	7.0	14.0	19.8	31.5	53.7
70°	0.0	0.0	1.2	2.3	3.5	5.8	9.3	14.0	18.7	26.8
72.5°	0.0	0.0	1.2	2.3	2.3	7.0	7.0	10.5	14.0	17.5
75°	0.0	0.0	1.2	1.2	2.3	4.7	7.0	8.2	9.3	14.0
77.5°	0.0	0.0	1.2	2.3	3.5	4.7	5.8	9.3	8.2	8.2
80°	0.0	0.0	1.2	3.5	3.5	5.8	7.0	9.3	5.8	5.8
82.5°	0.0	0.0	1.2	4.7	3.5	11.7	11.7	12.8	4.7	4.7
85°	0.0	0.0	3.5	2.3	7.0	11.7	10.5	7.0	5.8	3.5
87.5°	0.0	0.0	1.2	1.2	2.3	3.5	8.2	7.0	2.3	2.3
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°
3425.9	0°	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9
3404.9	2.5°	3451.6	3436.4	3467.9	3464.4	3449.3	3442.3	3434.1	3427.1	3375.8
3407.3	5°	3452.8	3429.4	3467.9	3460.9	3458.6	3446.9	3439.9	3450.4	3403.8
3416.6	7.5°	3452.8	3429.4	3471.4	3473.8	3470.3	3460.9	3459.8	3466.8	3428.3
3432.9	10°	3476.1	3466.8	3501.8	3505.3	3500.6	3498.3	3492.4	3487.8	3446.9
3488.9	12.5°	3525.1	3506.4	3546.1	3556.6	3553.1	3559.0	3544.9	3552.0	3509.9
3546.1	15°	3584.6	3585.8	3616.1	3639.5	3637.1	3655.8	3634.8	3653.5	3623.1
3611.5	17.5°	3675.6	3688.5	3731.6	3766.7	3779.5	3793.5	3779.5	3785.3	3742.1
3539.1	20°	3580.0	3627.8	3835.5	3899.7	3926.5	3939.4	3916.0	3923.0	3879.8
3450.4	22.5°	3493.6	3555.5	3739.8	3940.5	4023.4	4049.0	4040.9	4039.7	4023.4
3275.4	25°	3366.4	3491.3	3574.1	3786.5	4046.7	4093.4	4098.0	4096.9	4072.4
3168.1	27.5°	3210.1	3238.1	3452.8	3582.3	3883.3	4060.7	4053.7	4019.9	3987.2
2945.2	30°	3010.5	3137.7	3234.6	3441.1	3672.1	3960.4	3960.4	3934.7	3900.8
2865.8	32.5°	2909.0	3073.5	3163.4	3238.1	3435.3	3848.3	3895.0	3868.2	3841.3
2804.0	35°	2855.3	2879.8	3089.9	3157.5	3324.4	3632.5	3821.5	3794.7	3774.8
2639.5	37.5°	2737.5	2794.7	2892.7	3073.5	3124.9	3456.3	3723.5	3709.5	3686.1
2425.9	40°	2474.9	2627.8	2778.3	2949.8	3003.5	3229.9	3604.5	3610.3	3578.8
2198.4	42.5°	2319.7	2423.6	2659.3	2774.8	2919.5	3084.0	3488.9	3498.3	3476.1
2082.9	45°	2137.7	2253.2	2418.9	2629.0	2826.2	2883.3	3284.7	3382.8	3364.1
1853.0	47.5°	1970.8	2064.2	2267.2	2479.6	2697.8	2689.6	3050.2	3234.6	3208.9
1676.8	50°	1734.0	1897.3	1993.0	2187.9	2513.4	2535.6	2800.5	3060.7	3039.7
1424.7	52.5°	1462.1	1667.5	1850.7	2029.2	2326.7	2379.2	2568.3	2883.3	2869.3
1088.7	55°	1277.7	1427.1	1633.6	1777.1	2100.4	2240.4	2394.4	2714.1	2707.1
895.0	57.5°	909.0	1197.2	1367.6	1568.3	1738.6	1991.8	2106.2	2369.9	2304.6
495.9	60°	616.1	751.5	959.2	1175.0	1289.4	1542.6	1648.8	1860.0	1842.5
296.4	62.5°	325.6	450.4	598.6	707.1	790.0	1036.2	1080.5	1308.1	1302.2
119.0	65°	143.5	190.2	324.4	380.4	465.6	579.9	618.4	700.1	680.3
58.3	67.5°	74.7	113.2	183.2	225.2	283.5	326.7	358.2	383.9	400.2
38.5	70°	45.5	82.8	113.2	156.4	194.9	229.9	254.4	289.4	310.4
19.8	72.5°	33.8	52.5	78.2	120.2	141.2	182.0	206.5	232.2	250.9
16.3	75°	18.7	35.0	63.0	94.5	113.2	148.2	170.4	187.9	193.7
9.3	77.5°	11.7	26.8	52.5	73.5	88.7	120.2	114.4	130.7	144.7
7.0	80°	8.2	19.8	40.8	60.7	61.8	77.0	91.0	105.0	114.4
4.7	82.5°	5.8	16.3	30.3	46.7	40.8	59.5	71.2	81.7	59.5
3.5	85°	4.7	11.7	15.2	28.0	23.3	42.0	36.2	35.0	23.3
2.3	87.5°	3.5	5.8	10.5	12.8	9.3	9.3	11.7	14.0	11.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
3425.9  
3340.7  
3364.1  
3383.9  
3413.1  
3472.6  
3573.0  
3704.8  
3849.5  
3970.9  
4035.0  
3961.5  
3888.0  
3819.2  
3746.8  
3662.8  
3571.8  
3473.8  
3366.4  
3227.6  
3043.2  
2878.7  
2715.3  
2297.6  
1843.7  
1303.4  
672.1  
400.2  
311.6  
254.4  
190.2  
147.0  
115.5  
43.2  
23.3  
11.7  
0.0

(END OF REPORT)