

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: P636886

Luminaire Tested: **IFLD-S-SA2E-930-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-930-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8537.5 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

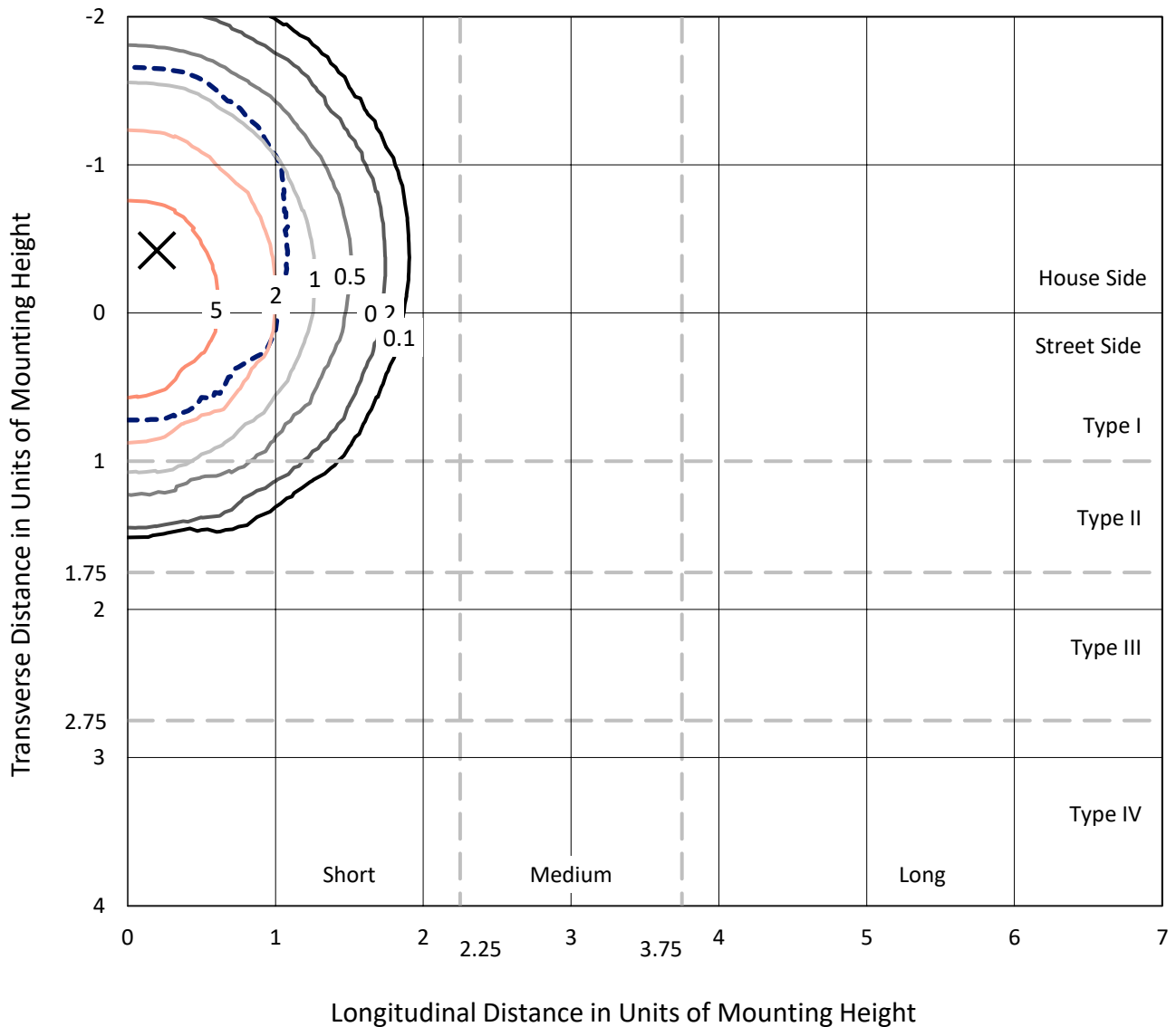
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

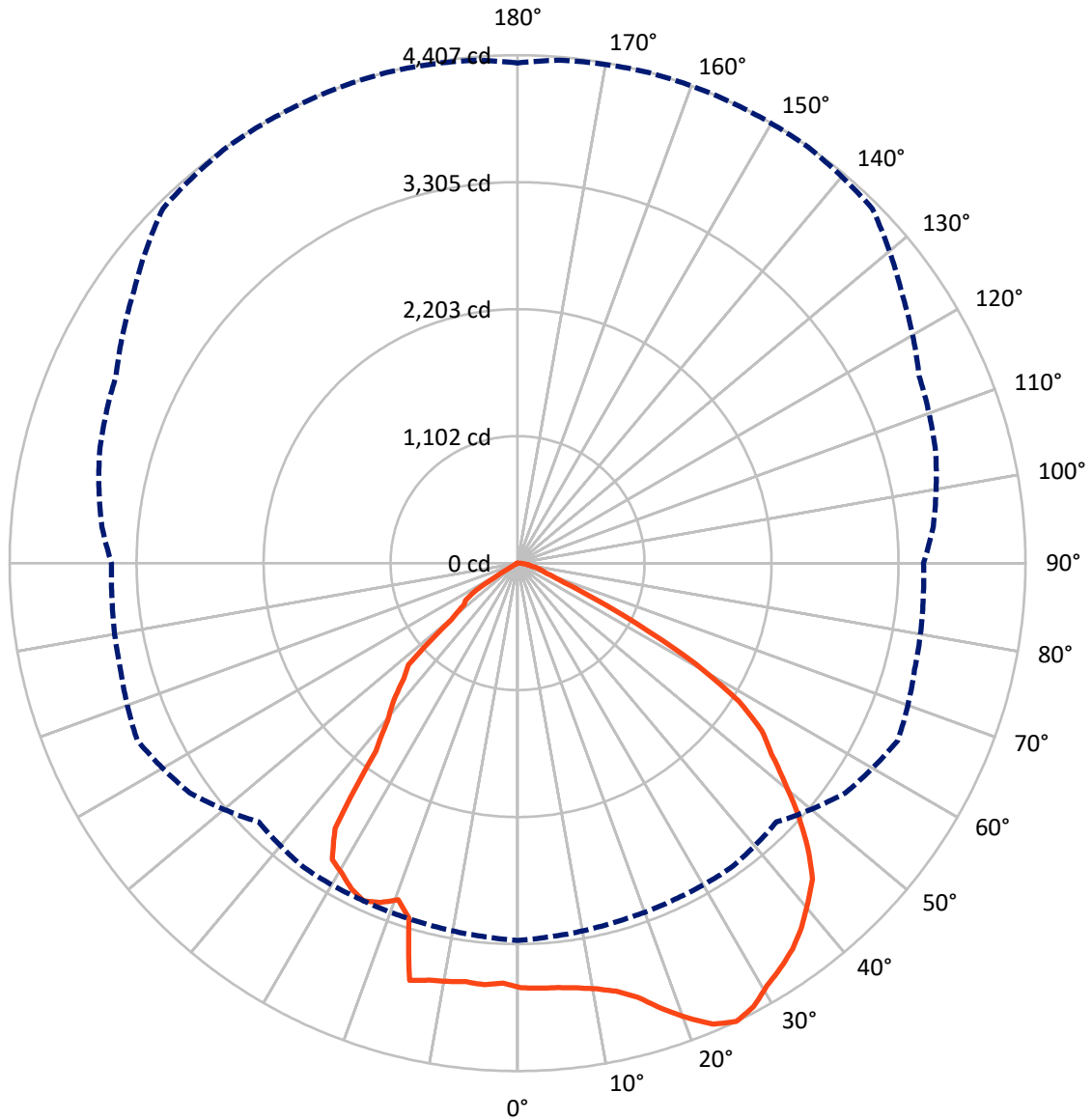
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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	5285.6	0.0	5285.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3251.9	0.0	3251.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	8537.5	0.0	8537.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	4.1
10°-20°	1079.1	12.6
20°-30°	1706.0	20.0
30°-40°	1927.1	22.6
40°-50°	1804.8	21.1
50°-60°	1244.3	14.6
60°-70°	334.3	3.9
70°-80°	69.7	0.8
80°-90°	18.8	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°	8537.5	100.0
0°-180°	8537.5	100.0



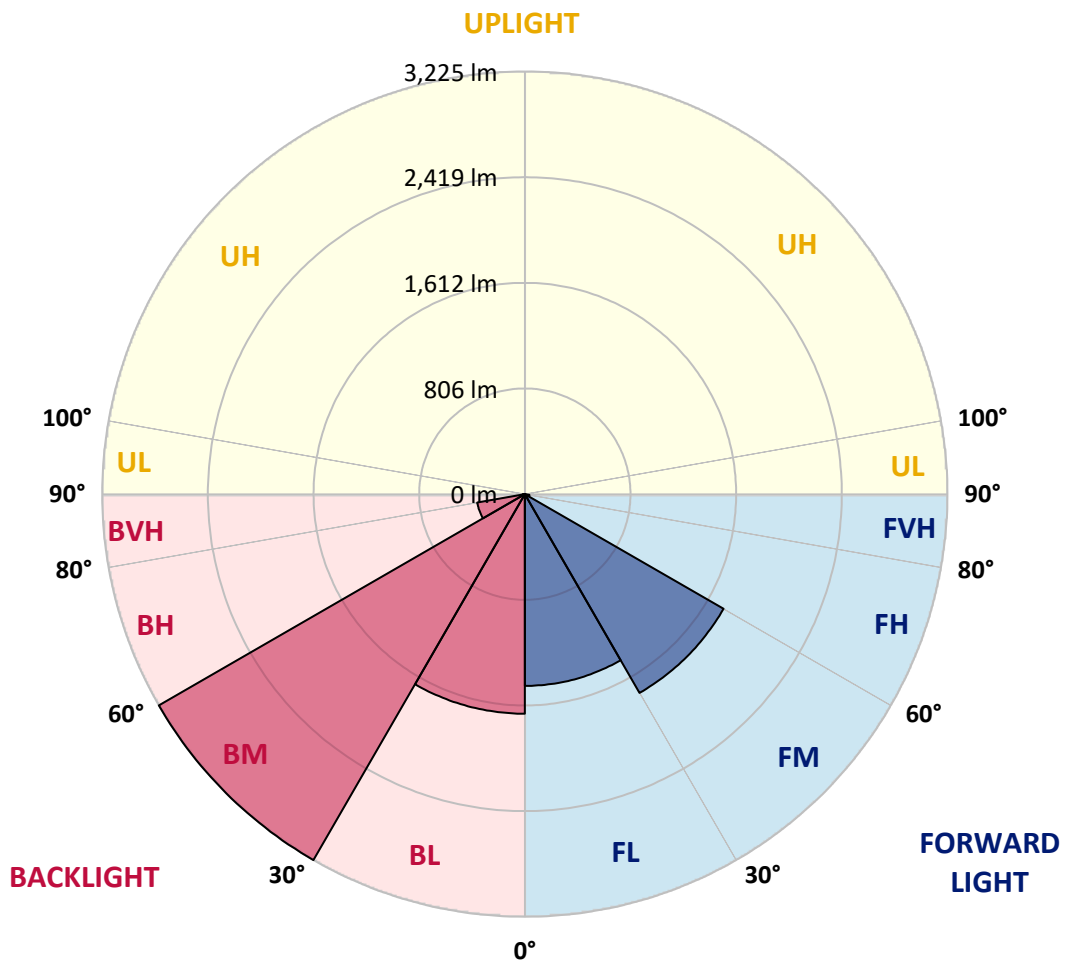
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.1	17.1			
FM (30°-60°)	1751.2	20.5			
FH (60°-80°)	35.1	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1675.5	19.6	B3/2500		
BM (30°-60°)	3224.9	37.8	B3/5000		
BH (60°-80°)	368.9	4.3	B1/500		G1/500
BVH (80°-90°)	16.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8
2.5°	3700.1	3676.3	3653.7	3646.2	3677.5	3711.4	3690.1	3691.3	3683.8	3697.6
5°	3727.7	3695.1	3680.0	3668.7	3673.8	3708.9	3678.8	3690.1	3677.5	3693.8
7.5°	3717.7	3695.1	3680.0	3658.7	3675.0	3716.4	3687.6	3688.8	3682.5	3697.6
10°	3711.4	3695.1	3676.3	3678.8	3697.6	3732.7	3710.1	3722.7	3713.9	3722.7
12.5°	3726.5	3708.9	3698.8	3698.8	3715.2	3755.3	3744.0	3755.3	3751.5	3759.1
15°	3584.7	3601.0	3696.3	3739.0	3771.6	3811.8	3806.8	3818.0	3820.6	3831.8
17.5°	3023.8	3007.5	3000.0	3219.6	3803.0	3927.2	3923.4	3922.2	3909.6	3900.9
20°	3097.8	3091.6	3082.8	3099.1	3164.3	3987.4	4012.5	3858.2	3813.0	3809.3
22.5°	3215.8	3205.8	3173.1	3174.4	3194.5	3466.7	3888.3	3747.8	3732.7	3723.9
25°	3273.5	3253.4	3227.1	3219.6	3225.8	3175.6	3473.0	3639.9	3565.9	3532.0
27.5°	3171.9	3173.1	3151.8	3171.9	3148.0	2922.2	2795.5	3429.1	3426.6	3411.5
30°	3095.3	3091.6	3066.5	3091.6	2927.2	2675.0	2621.1	3198.2	3171.9	3151.8
32.5°	2860.7	2863.2	2936.0	3033.9	2764.1	2564.6	2401.5	2856.9	3106.6	3095.3
35°	2046.4	2051.4	2309.9	2793.0	2516.9	2345.0	2332.5	2469.2	3003.7	3008.8
37.5°	1969.9	1969.9	1963.6	2042.6	2322.4	2255.9	2281.0	2267.2	2751.6	2764.1
40°	1914.7	1903.4	1894.6	1770.4	1614.8	2193.2	2210.8	2148.0	2601.0	2603.5
42.5°	1848.2	1835.6	1838.1	1608.5	1445.4	2037.6	1988.7	1904.6	2350.0	2352.6
45°	1726.5	1747.8	1762.9	1407.8	1395.2	1455.4	1834.4	1781.7	2180.7	2227.1
47.5°	878.3	897.1	1376.4	1294.8	1323.7	1293.6	1549.6	1550.8	1814.3	1968.6
50°	796.7	791.7	793.0	755.3	1222.1	1046.4	1120.4	1421.6	1452.9	1673.8
52.5°	742.8	741.5	665.0	591.0	767.9	920.9	813.0	1028.9	1080.3	1417.8
55°	549.6	589.7	524.5	555.8	480.5	737.8	734.0	928.5	946.0	1136.8
57.5°	5.0	6.3	15.1	422.8	332.5	368.9	506.9	633.6	665.0	885.8
60°	1.3	2.5	6.3	12.5	215.8	227.1	338.8	366.4	412.8	528.2
62.5°	0.0	0.0	2.5	6.3	11.3	92.8	107.9	117.9	181.9	269.8
65°	0.0	0.0	1.3	3.8	6.3	15.1	26.3	55.2	79.0	97.9
67.5°	0.0	0.0	1.3	2.5	5.0	7.5	15.1	21.3	33.9	57.7
70°	0.0	0.0	1.3	2.5	3.8	6.3	10.0	15.1	20.1	28.9
72.5°	0.0	0.0	1.3	2.5	2.5	7.5	7.5	11.3	15.1	18.8
75°	0.0	0.0	1.3	1.3	2.5	5.0	7.5	8.8	10.0	15.1
77.5°	0.0	0.0	1.3	2.5	3.8	5.0	6.3	10.0	8.8	8.8
80°	0.0	0.0	1.3	3.8	3.8	6.3	7.5	10.0	6.3	6.3
82.5°	0.0	0.0	1.3	5.0	3.8	12.5	12.5	13.8	5.0	5.0
85°	0.0	0.0	3.8	2.5	7.5	12.5	11.3	7.5	6.3	3.8
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	8.8	7.5	2.5	2.5
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°
3683.8	0°	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8	3683.8
3661.2	2.5°	3711.4	3695.1	3729.0	3725.2	3708.9	3701.4	3692.6	3685.0	3629.8
3663.7	5°	3712.7	3687.6	3729.0	3721.4	3718.9	3706.4	3698.8	3710.1	3660.0
3673.8	7.5°	3712.7	3687.6	3732.7	3735.2	3731.5	3721.4	3720.2	3727.7	3686.3
3691.3	10°	3737.7	3727.7	3765.3	3769.1	3764.1	3761.6	3755.3	3750.3	3706.4
3751.5	12.5°	3790.4	3770.4	3813.0	3824.3	3820.6	3826.8	3811.8	3819.3	3774.1
3813.0	15°	3854.4	3855.7	3888.3	3913.4	3910.9	3931.0	3908.4	3928.5	3895.8
3883.3	17.5°	3952.3	3966.1	4012.5	4050.2	4064.0	4079.0	4064.0	4070.2	4023.8
3805.5	20°	3849.4	3900.9	4124.2	4193.2	4222.1	4235.9	4210.8	4218.3	4171.9
3710.1	22.5°	3756.6	3823.1	4021.3	4237.1	4326.2	4353.8	4345.0	4343.8	4326.2
3521.9	25°	3619.8	3754.1	3843.1	4071.5	4351.3	4401.5	4406.5	4405.2	4378.9
3406.5	27.5°	3451.7	3481.8	3712.7	3851.9	4175.6	4366.3	4358.8	4322.4	4287.3
3166.9	30°	3237.1	3373.9	3478.0	3700.1	3948.5	4258.4	4258.4	4230.8	4194.5
3081.5	32.5°	3128.0	3304.9	3401.5	3481.8	3693.8	4138.0	4188.2	4159.3	4130.5
3015.0	35°	3070.2	3096.6	3322.4	3395.2	3574.6	3905.9	4109.1	4080.3	4058.9
2838.1	37.5°	2943.5	3005.0	3110.4	3304.9	3360.1	3716.4	4003.7	3988.7	3963.6
2608.5	40°	2661.2	2825.6	2987.4	3171.9	3229.6	3473.0	3875.8	3882.0	3848.2
2363.9	42.5°	2494.3	2606.0	2859.5	2983.7	3139.3	3316.2	3751.5	3761.6	3737.7
2239.6	45°	2298.6	2422.8	2601.0	2826.8	3038.9	3100.4	3532.0	3637.4	3617.3
1992.5	47.5°	2119.2	2219.6	2437.9	2666.2	2900.9	2892.1	3279.8	3478.0	3450.4
1803.0	50°	1864.5	2040.1	2143.0	2352.6	2702.6	2726.5	3011.3	3291.1	3268.5
1532.0	52.5°	1572.1	1793.0	1990.0	2181.9	2501.9	2558.3	2761.6	3100.4	3085.3
1170.6	55°	1373.9	1534.5	1756.6	1910.9	2258.5	2409.0	2574.6	2918.4	2910.9
962.4	57.5°	977.4	1287.3	1470.5	1686.3	1869.5	2141.8	2264.7	2548.3	2478.0
533.2	60°	662.5	808.0	1031.4	1263.5	1386.4	1658.7	1772.9	2000.0	1981.2
318.7	62.5°	350.1	484.3	643.7	760.3	849.4	1114.2	1161.9	1406.5	1400.2
128.0	65°	154.3	204.5	348.8	409.0	500.6	623.6	665.0	752.8	731.5
62.7	67.5°	80.3	121.7	197.0	242.2	304.9	351.3	385.2	412.8	430.4
41.4	70°	48.9	89.1	121.7	168.1	209.5	247.2	273.5	311.2	333.7
21.3	72.5°	36.4	56.5	84.1	129.2	151.8	195.7	222.1	249.7	269.8
17.6	75°	20.1	37.6	67.8	101.6	121.7	159.3	183.2	202.0	208.3
10.0	77.5°	12.5	28.9	56.5	79.0	95.4	129.2	123.0	140.5	155.6
7.5	80°	8.8	21.3	43.9	65.2	66.5	82.8	97.9	112.9	123.0
5.0	82.5°	6.3	17.6	32.6	50.2	43.9	64.0	76.5	87.8	64.0
3.8	85°	5.0	12.5	16.3	30.1	25.1	45.2	38.9	37.6	25.1
2.5	87.5°	3.8	6.3	11.3	13.8	10.0	10.0	12.5	15.1	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3683.8
3592.2
3617.3
3638.6
3670.0
3734.0
3841.9
3983.7
4139.2
4269.7
4338.7
4259.7
4180.7
4106.6
4028.8
3938.5
3840.6
3735.2
3619.8
3470.5
3272.3
3095.3
2919.7
2470.5
1982.4
1401.5
722.7
430.4
335.0
273.5
204.5
158.1
124.2
46.4
25.1
12.5
0.0

(END OF REPORT)