

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: P638420

Luminaire Tested: **IFLD-S-SA2B-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638420
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8415.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

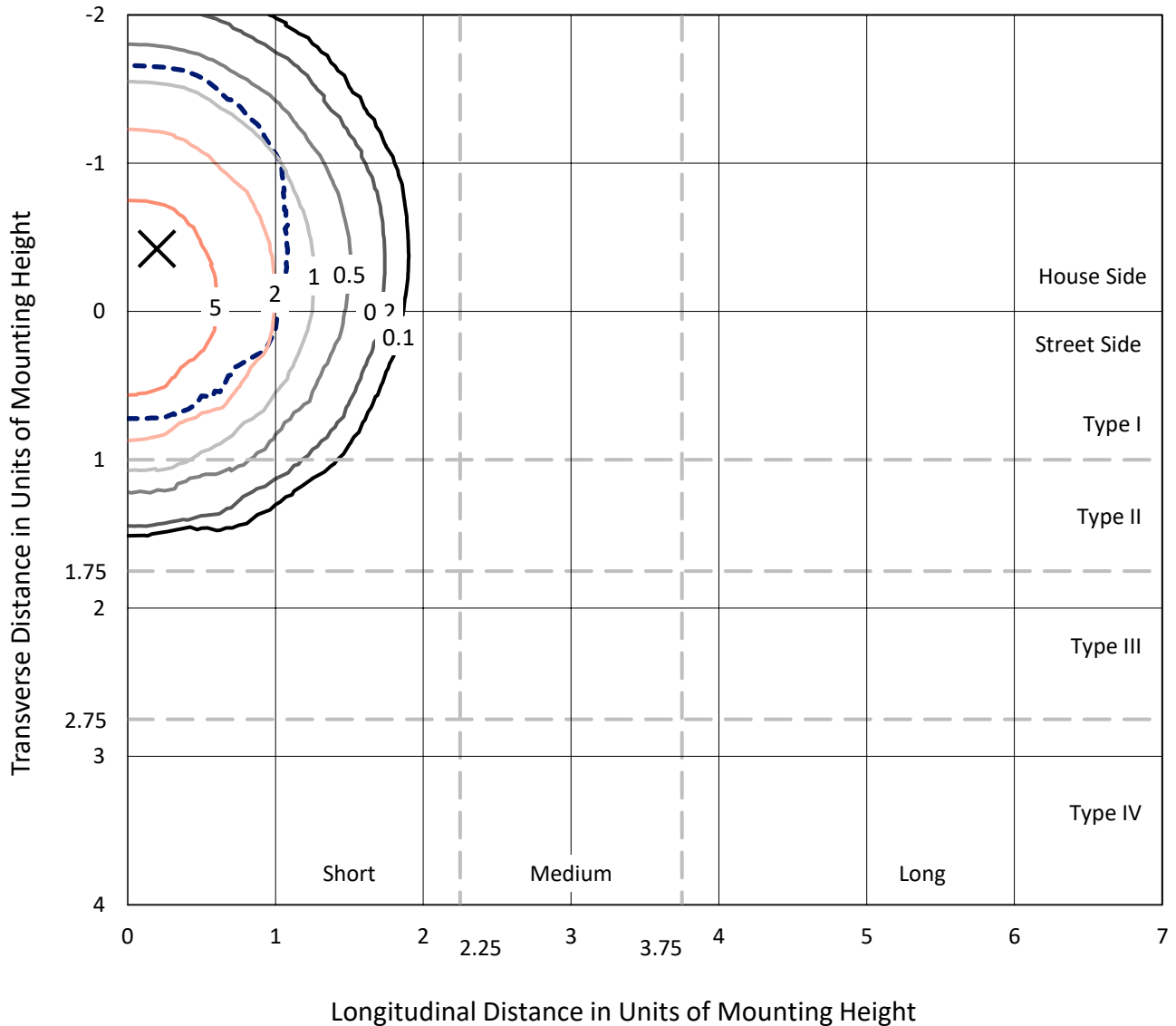
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

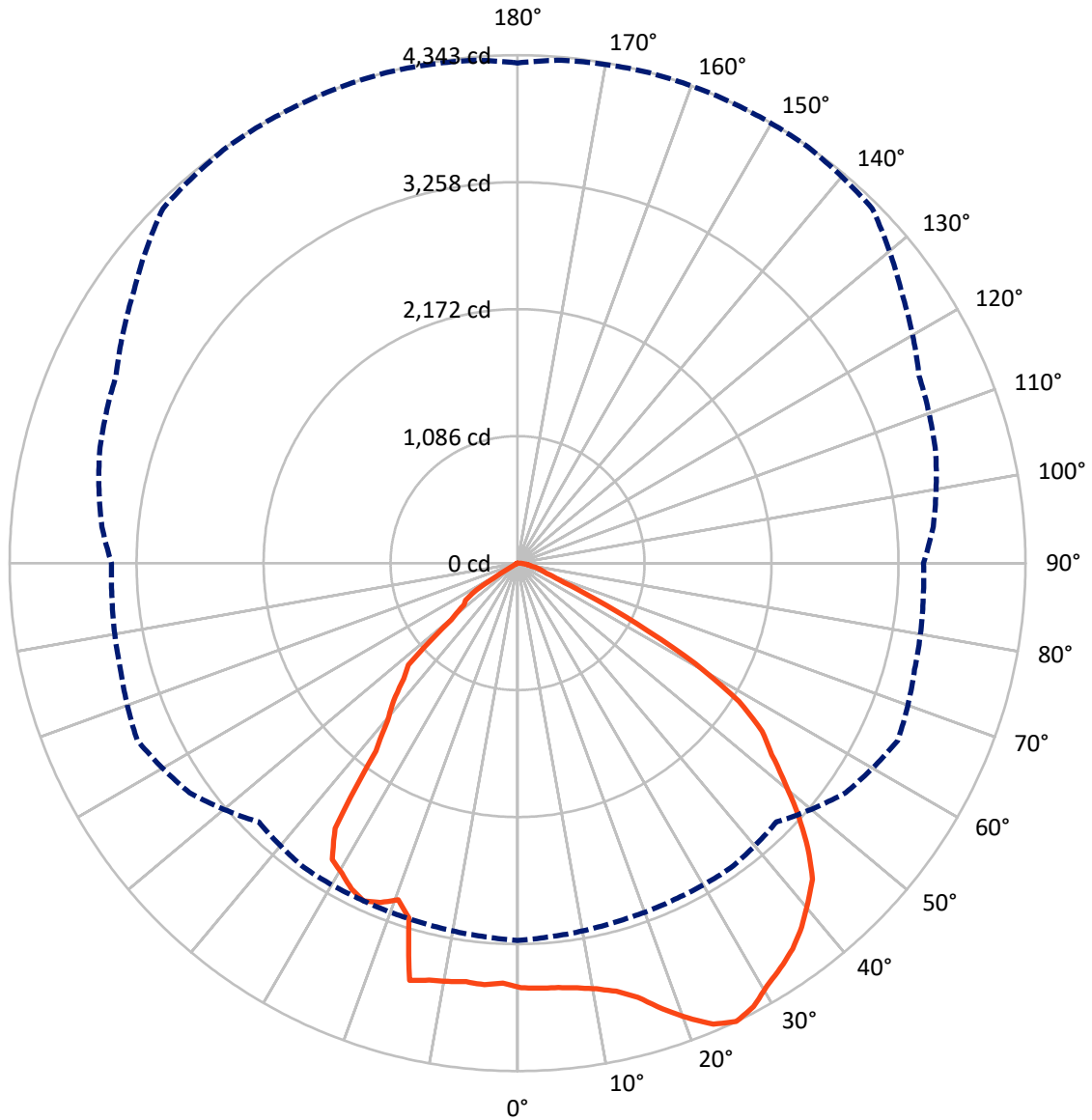
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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	5209.9	0.0	5209.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3205.4	0.0	3205.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	8415.3	0.0	8415.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	4.1
10°-20°	1063.7	12.6
20°-30°	1681.6	20.0
30°-40°	1899.5	22.6
40°-50°	1778.9	21.1
50°-60°	1226.5	14.6
60°-70°	329.5	3.9
70°-80°	68.7	0.8
80°-90°	18.6	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°	8415.3	100.0
0°-180°	8415.3	100.0



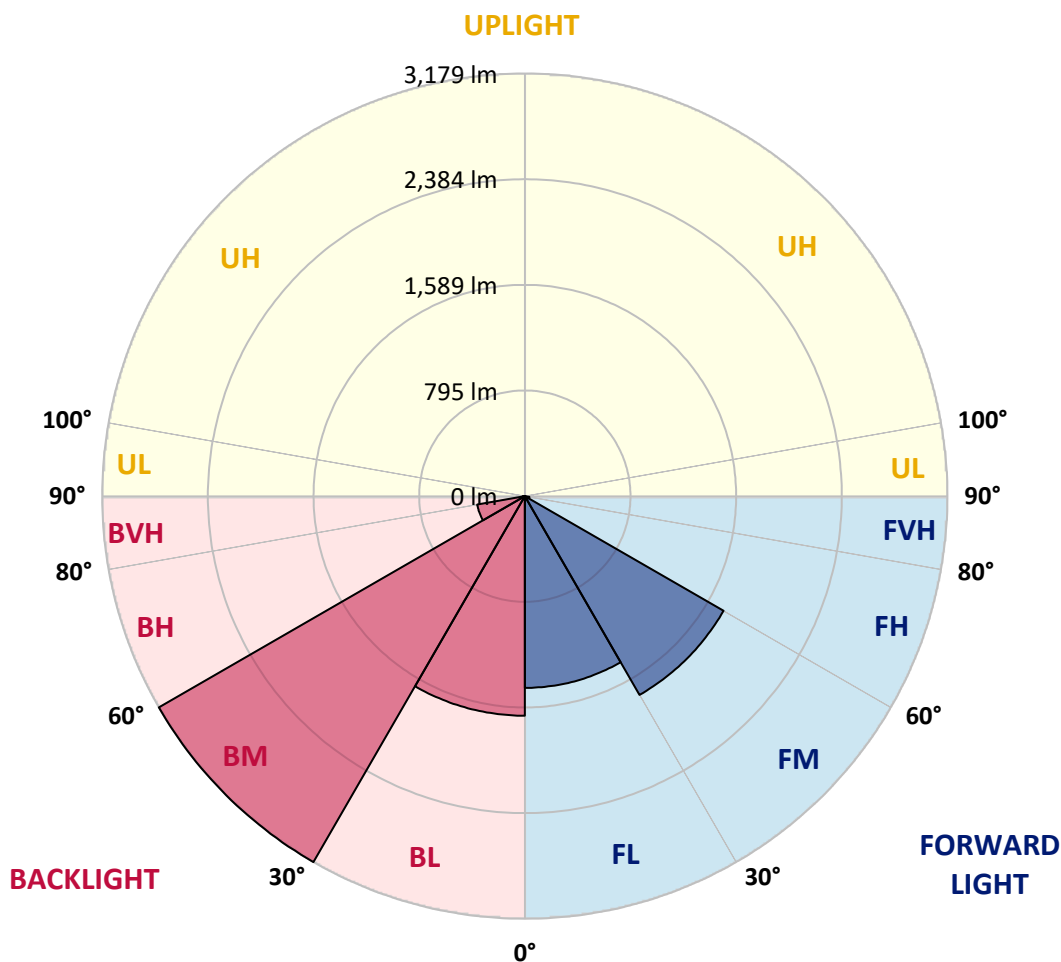
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.1	17.1			
FM (30°-60°)	1726.2	20.5			
FH (60°-80°)	34.6	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1651.5	19.6	B3/2500		
BM (30°-60°)	3178.8	37.8	B3/5000		
BH (60°-80°)	363.6	4.3	B1/500		G1/500
BVH (80°-90°)	16.1	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°	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1
2.5°	3647.1	3623.6	3601.4	3594.0	3624.9	3658.3	3637.2	3638.5	3631.1	3644.7
5°	3674.3	3642.2	3627.3	3616.2	3621.2	3655.8	3626.1	3637.2	3624.9	3641.0
7.5°	3664.5	3642.2	3627.3	3606.3	3622.4	3663.2	3634.8	3636.0	3629.8	3644.7
10°	3658.3	3642.2	3623.6	3626.1	3644.7	3679.3	3657.0	3669.4	3660.7	3669.4
12.5°	3673.1	3655.8	3645.9	3645.9	3662.0	3701.6	3690.4	3701.6	3697.8	3705.3
15°	3533.4	3549.4	3643.4	3685.5	3717.6	3757.2	3752.3	3763.4	3765.9	3777.0
17.5°	2980.5	2964.5	2957.0	3173.5	3748.5	3871.0	3867.3	3866.0	3853.7	3845.0
20°	3053.5	3047.3	3038.7	3054.7	3119.0	3930.3	3955.1	3803.0	3758.4	3754.7
22.5°	3169.8	3159.9	3127.7	3128.9	3148.7	3417.1	3832.6	3694.1	3679.3	3670.6
25°	3226.6	3206.9	3180.9	3173.5	3179.6	3130.2	3423.3	3587.8	3514.8	3481.4
27.5°	3126.5	3127.7	3106.7	3126.5	3103.0	2880.4	2755.4	3380.0	3377.5	3362.7
30°	3051.0	3047.3	3022.6	3047.3	2885.3	2636.7	2583.5	3152.4	3126.5	3106.7
32.5°	2819.8	2822.2	2894.0	2990.4	2724.5	2527.9	2367.1	2816.0	3062.2	3051.0
35°	2017.1	2022.1	2276.8	2753.0	2480.9	2311.5	2299.1	2433.9	2960.7	2965.7
37.5°	1941.7	1941.7	1935.5	2013.4	2289.2	2223.7	2248.4	2234.8	2712.2	2724.5
40°	1887.3	1876.1	1867.5	1745.0	1591.7	2161.8	2179.1	2117.3	2563.8	2566.2
42.5°	1821.7	1809.3	1811.8	1585.5	1424.7	2008.5	1960.2	1877.4	2316.4	2318.9
45°	1701.7	1722.8	1737.6	1387.6	1375.3	1434.6	1808.1	1756.2	2149.4	2195.2
47.5°	865.7	884.3	1356.7	1276.3	1304.8	1275.1	1527.4	1528.6	1788.3	1940.4
50°	785.3	780.4	781.6	744.5	1204.6	1031.4	1104.4	1401.2	1432.1	1649.8
52.5°	732.1	730.9	655.5	582.5	756.9	907.8	801.4	1014.1	1064.8	1397.5
55°	541.7	581.3	517.0	547.9	473.7	727.2	723.5	915.2	932.5	1120.5
57.5°	4.9	6.2	14.8	416.8	327.7	363.6	499.6	624.6	655.5	873.1
60°	1.2	2.5	6.2	12.4	212.7	223.8	333.9	361.1	406.9	520.7
62.5°	0.0	0.0	2.5	6.2	11.1	91.5	106.4	116.3	179.3	265.9
65°	0.0	0.0	1.2	3.7	6.2	14.8	26.0	54.4	77.9	96.5
67.5°	0.0	0.0	1.2	2.5	4.9	7.4	14.8	21.0	33.4	56.9
70°	0.0	0.0	1.2	2.5	3.7	6.2	9.9	14.8	19.8	28.4
72.5°	0.0	0.0	1.2	2.5	2.5	7.4	7.4	11.1	14.8	18.6
75°	0.0	0.0	1.2	1.2	2.5	4.9	7.4	8.7	9.9	14.8
77.5°	0.0	0.0	1.2	2.5	3.7	4.9	6.2	9.9	8.7	8.7
80°	0.0	0.0	1.2	3.7	3.7	6.2	7.4	9.9	6.2	6.2
82.5°	0.0	0.0	1.2	4.9	3.7	12.4	12.4	13.6	4.9	4.9
85°	0.0	0.0	3.7	2.5	7.4	12.4	11.1	7.4	6.2	3.7
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	8.7	7.4	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°
3631.1	0°	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1
3608.8	2.5°	3658.3	3642.2	3675.6	3671.9	3655.8	3648.4	3639.7	3632.3	3577.9
3611.3	5°	3659.5	3634.8	3675.6	3668.2	3665.7	3653.3	3645.9	3657.0	3607.6
3621.2	7.5°	3659.5	3634.8	3679.3	3681.8	3678.1	3668.2	3666.9	3674.3	3633.5
3638.5	10°	3684.2	3674.3	3711.4	3715.2	3710.2	3707.7	3701.6	3696.6	3653.3
3697.8	12.5°	3736.2	3716.4	3758.4	3769.6	3765.9	3772.0	3757.2	3764.6	3720.1
3758.4	15°	3799.3	3800.5	3832.6	3857.4	3854.9	3874.7	3852.4	3872.2	3840.1
3827.7	17.5°	3895.7	3909.3	3955.1	3992.2	4005.8	4020.6	4005.8	4012.0	3966.2
3751.0	20°	3794.3	3845.0	4065.2	4133.2	4161.6	4175.2	4150.5	4157.9	4112.1
3657.0	22.5°	3702.8	3768.3	3963.7	4176.5	4264.3	4291.5	4282.8	4281.6	4264.3
3471.5	25°	3568.0	3700.3	3788.1	4013.2	4289.0	4338.5	4343.4	4342.2	4316.2
3357.7	27.5°	3402.3	3431.9	3659.5	3796.8	4115.9	4303.8	4296.4	4260.6	4225.9
3121.5	30°	3190.8	3325.6	3428.2	3647.1	3892.0	4197.5	4197.5	4170.3	4134.4
3037.4	32.5°	3083.2	3257.6	3352.8	3431.9	3641.0	4078.8	4128.2	4099.8	4071.3
2971.9	35°	3026.3	3052.3	3274.9	3346.6	3523.5	3850.0	4050.3	4021.9	4000.8
2797.5	37.5°	2901.4	2962.0	3065.9	3257.6	3312.0	3663.2	3946.4	3931.6	3906.9
2571.2	40°	2623.1	2785.1	2944.7	3126.5	3183.4	3423.3	3820.3	3826.5	3793.1
2330.0	42.5°	2458.6	2568.7	2818.5	2941.0	3094.3	3268.7	3697.8	3707.7	3684.2
2207.6	45°	2265.7	2388.1	2563.8	2786.4	2995.4	3056.0	3481.4	3585.3	3565.5
1963.9	47.5°	2088.8	2187.8	2403.0	2628.1	2859.3	2850.7	3232.8	3428.2	3401.0
1777.2	50°	1837.8	2010.9	2112.3	2318.9	2663.9	2687.4	2968.2	3244.0	3221.7
1510.1	52.5°	1549.6	1767.3	1961.5	2150.7	2466.1	2521.7	2722.1	3056.0	3041.1
1153.9	55°	1354.2	1512.5	1731.4	1883.5	2226.1	2374.5	2537.8	2876.6	2869.2
948.6	57.5°	963.4	1268.9	1449.5	1662.2	1842.7	2111.1	2232.3	2511.8	2442.6
525.6	60°	653.0	796.5	1016.6	1245.4	1366.6	1635.0	1747.5	1971.4	1952.8
314.1	62.5°	345.0	477.4	634.4	749.5	837.3	1098.2	1145.2	1386.4	1380.2
126.1	65°	152.1	201.6	343.8	403.2	493.5	614.7	655.5	742.0	721.0
61.8	67.5°	79.2	120.0	194.2	238.7	300.5	346.3	379.7	406.9	424.2
40.8	70°	48.2	87.8	120.0	165.7	206.5	243.6	269.6	306.7	329.0
21.0	72.5°	35.9	55.7	82.9	127.4	149.6	192.9	218.9	246.1	265.9
17.3	75°	19.8	37.1	66.8	100.2	120.0	157.1	180.6	199.1	205.3
9.9	77.5°	12.4	28.4	55.7	77.9	94.0	127.4	121.2	138.5	153.4
7.4	80°	8.7	21.0	43.3	64.3	65.5	81.6	96.5	111.3	121.2
4.9	82.5°	6.2	17.3	32.2	49.5	43.3	63.1	75.4	86.6	63.1
3.7	85°	4.9	12.4	16.1	29.7	24.7	44.5	38.3	37.1	24.7
2.5	87.5°	3.7	6.2	11.1	13.6	9.9	9.9	12.4	14.8	12.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3631.1
3540.8
3565.5
3586.5
3617.5
3680.5
3786.9
3926.6
4080.0
4208.6
4276.6
4198.7
4120.8
4047.8
3971.2
3882.1
3785.7
3681.8
3568.0
3420.8
3225.4
3051.0
2877.9
2435.1
1954.0
1381.4
712.4
424.2
330.2
269.6
201.6
155.8
122.4
45.8
24.7
12.4
0.0

(END OF REPORT)