

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: P638537

Luminaire Tested: **IFLD-S-SA2C-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638537
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8324.1 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

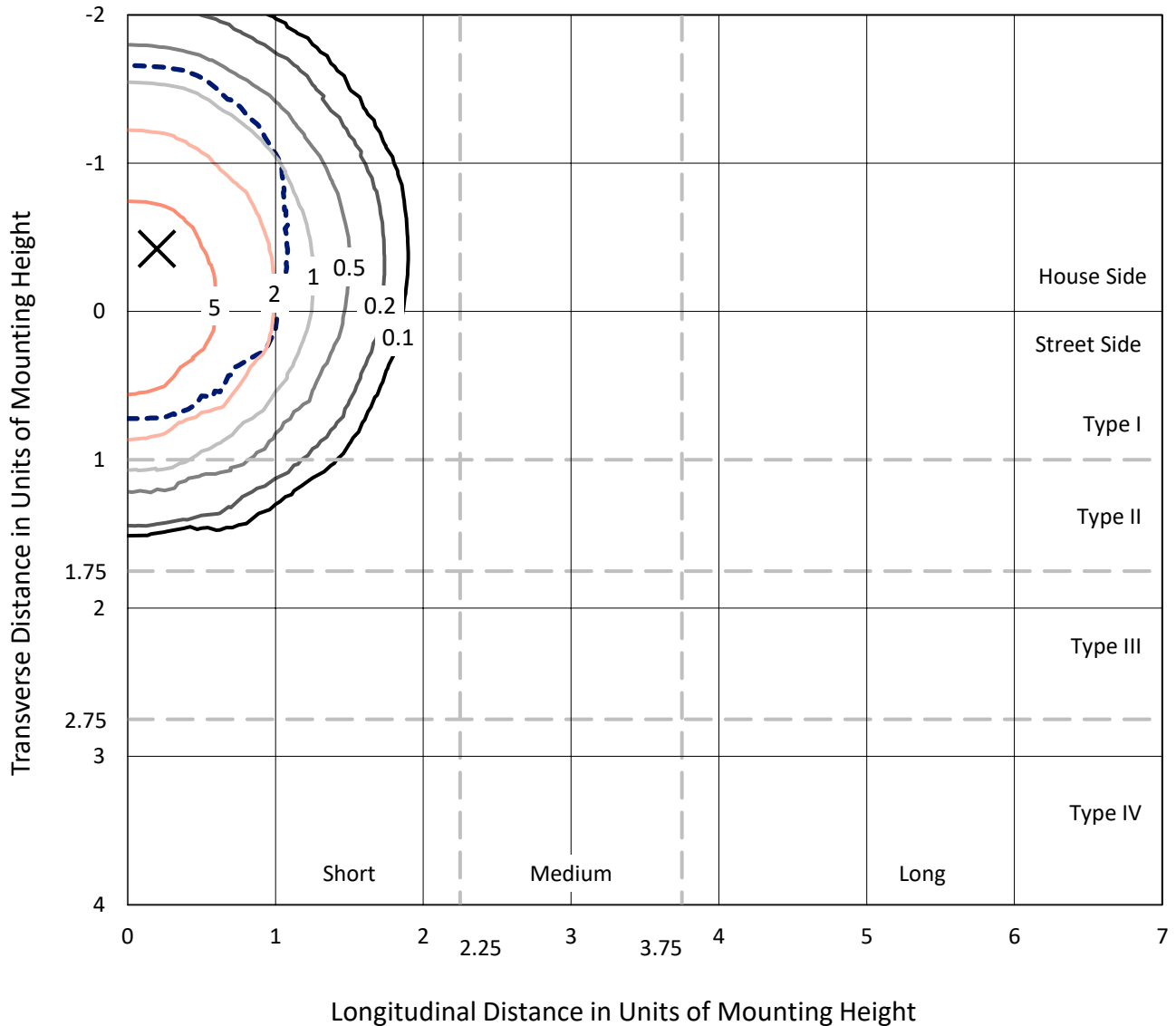
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

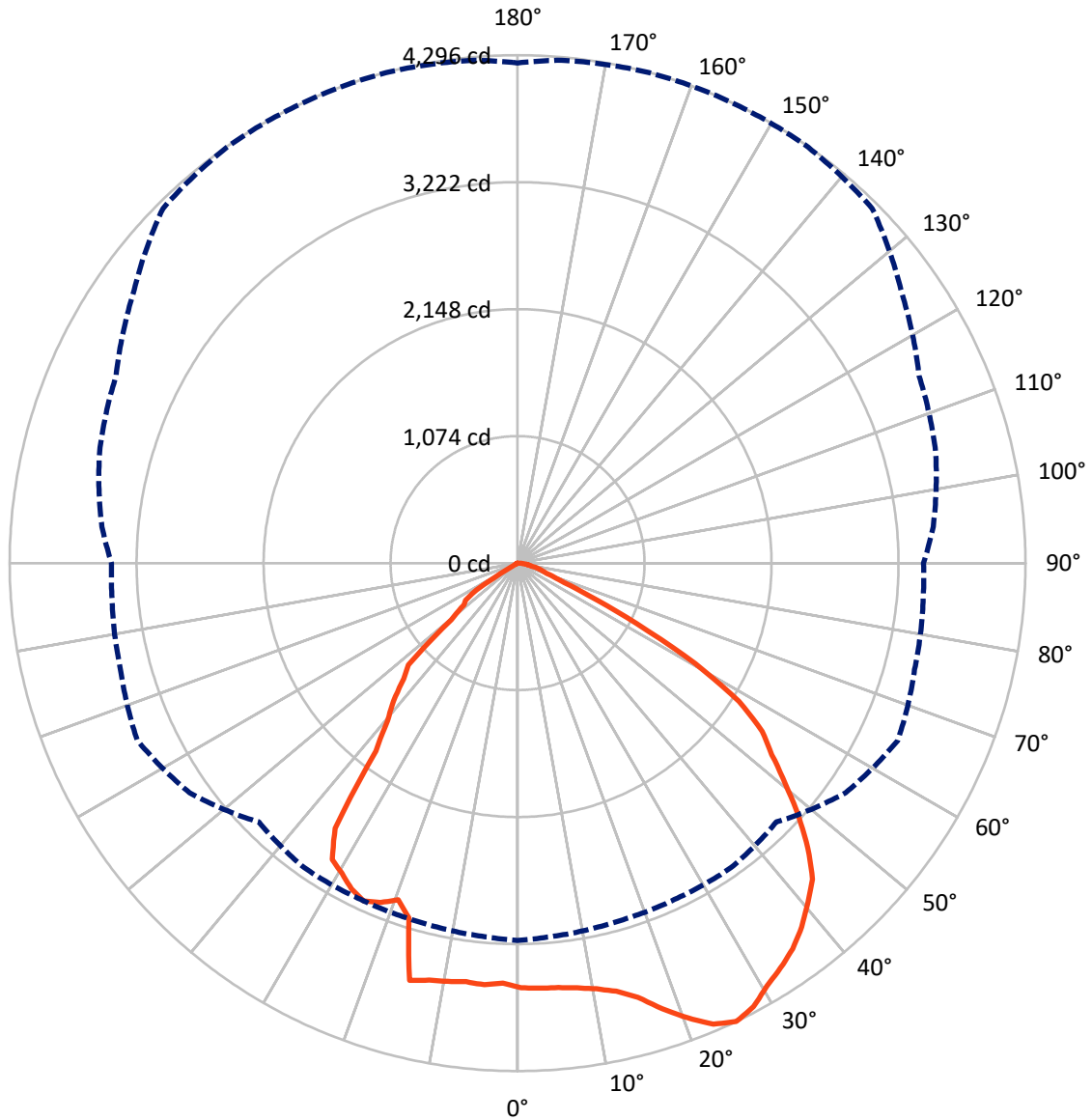
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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	5153.5	0.0	5153.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3170.6	0.0	3170.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	8324.1	0.0	8324.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	4.1
10°-20°	1052.1	12.6
20°-30°	1663.4	20.0
30°-40°	1878.9	22.6
40°-50°	1759.7	21.1
50°-60°	1213.2	14.6
60°-70°	325.9	3.9
70°-80°	67.9	0.8
80°-90°	18.4	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°	8324.1	100.0
0°-180°	8324.1	100.0



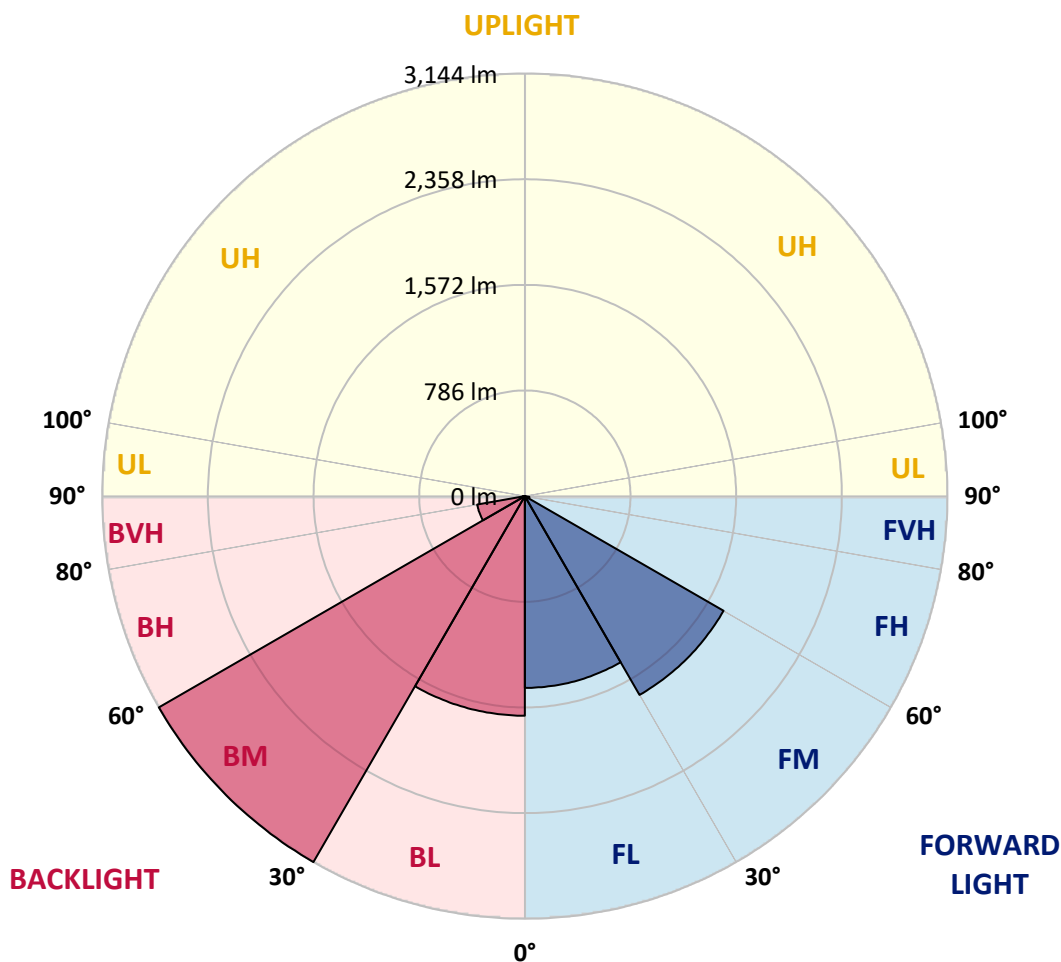
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.5	17.1			
FM (30°-60°)	1707.5	20.5			
FH (60°-80°)	34.2	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1633.6	19.6	B3/2500		
BM (30°-60°)	3144.3	37.8	B3/5000		
BH (60°-80°)	359.6	4.3	B1/500		G1/500
BVH (80°-90°)	15.9	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°	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7
2.5°	3607.6	3584.3	3562.3	3555.0	3585.6	3618.6	3597.8	3599.0	3591.7	3605.1
5°	3634.5	3602.7	3588.0	3577.0	3581.9	3616.2	3586.8	3597.8	3585.6	3601.5
7.5°	3624.7	3602.7	3588.0	3567.2	3583.1	3623.5	3595.4	3596.6	3590.5	3605.1
10°	3618.6	3602.7	3584.3	3586.8	3605.1	3639.4	3617.4	3629.6	3621.0	3629.6
12.5°	3633.3	3616.2	3606.4	3606.4	3622.3	3661.4	3650.4	3661.4	3657.7	3665.1
15°	3495.0	3510.9	3603.9	3645.5	3677.3	3716.5	3711.6	3722.6	3725.0	3736.0
17.5°	2948.2	2932.3	2925.0	3139.1	3707.9	3829.0	3825.3	3824.1	3811.9	3803.3
20°	3020.4	3014.3	3005.7	3021.6	3085.2	3887.7	3912.2	3761.7	3717.7	3714.0
22.5°	3135.4	3125.6	3093.8	3095.0	3114.6	3380.1	3791.1	3654.1	3639.4	3630.8
25°	3191.7	3172.1	3146.4	3139.1	3145.2	3096.2	3386.2	3548.9	3476.7	3443.7
27.5°	3092.6	3093.8	3073.0	3092.6	3069.3	2849.1	2725.6	3343.4	3340.9	3326.2
30°	3017.9	3014.3	2989.8	3014.3	2854.0	2608.1	2555.5	3118.3	3092.6	3073.0
32.5°	2789.2	2791.6	2862.6	2958.0	2695.0	2500.5	2341.4	2785.5	3029.0	3017.9
35°	1995.2	2000.1	2252.1	2723.1	2454.0	2286.4	2274.2	2407.5	2928.6	2933.5
37.5°	1920.6	1920.6	1914.5	1991.6	2264.4	2199.5	2224.0	2210.6	2682.8	2695.0
40°	1866.8	1855.8	1847.2	1726.1	1574.4	2138.4	2155.5	2094.3	2536.0	2538.4
42.5°	1802.0	1789.7	1792.2	1568.3	1409.3	1986.7	1939.0	1857.0	2291.3	2293.7
45°	1683.3	1704.1	1718.8	1372.6	1360.3	1419.1	1788.5	1737.1	2126.1	2171.4
47.5°	856.3	874.7	1342.0	1262.5	1290.6	1261.2	1510.8	1512.0	1768.9	1919.4
50°	776.8	771.9	773.1	736.4	1191.5	1020.3	1092.4	1386.0	1416.6	1631.9
52.5°	724.2	723.0	648.4	576.2	748.7	897.9	792.7	1003.1	1053.3	1382.4
55°	535.8	575.0	511.4	541.9	468.5	719.3	715.6	905.3	922.4	1108.3
57.5°	4.9	6.1	14.7	412.3	324.2	359.7	494.2	617.8	648.4	863.7
60°	1.2	2.4	6.1	12.2	210.4	221.4	330.3	357.2	402.5	515.0
62.5°	0.0	0.0	2.4	6.1	11.0	90.5	105.2	115.0	177.4	263.0
65°	0.0	0.0	1.2	3.7	6.1	14.7	25.7	53.8	77.1	95.4
67.5°	0.0	0.0	1.2	2.4	4.9	7.3	14.7	20.8	33.0	56.3
70°	0.0	0.0	1.2	2.4	3.7	6.1	9.8	14.7	19.6	28.1
72.5°	0.0	0.0	1.2	2.4	2.4	7.3	7.3	11.0	14.7	18.3
75°	0.0	0.0	1.2	1.2	2.4	4.9	7.3	8.6	9.8	14.7
77.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	9.8	8.6	8.6
80°	0.0	0.0	1.2	3.7	3.7	6.1	7.3	9.8	6.1	6.1
82.5°	0.0	0.0	1.2	4.9	3.7	12.2	12.2	13.5	4.9	4.9
85°	0.0	0.0	3.7	2.4	7.3	12.2	11.0	7.3	6.1	3.7
87.5°	0.0	0.0	1.2	1.2	2.4	3.7	8.6	7.3	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°
3591.7	0°	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7
3569.7	2.5°	3618.6	3602.7	3635.7	3632.1	3616.2	3608.8	3600.3	3592.9	3539.1
3572.1	5°	3619.8	3595.4	3635.7	3628.4	3625.9	3613.7	3606.4	3617.4	3568.4
3581.9	7.5°	3619.8	3595.4	3639.4	3641.8	3638.2	3628.4	3627.2	3634.5	3594.1
3599.0	10°	3644.3	3634.5	3671.2	3674.9	3670.0	3667.5	3661.4	3656.5	3613.7
3657.7	12.5°	3695.7	3676.1	3717.7	3728.7	3725.0	3731.1	3716.5	3723.8	3679.8
3717.7	15°	3758.1	3759.3	3791.1	3815.6	3813.1	3832.7	3810.7	3830.2	3798.4
3786.2	17.5°	3853.5	3866.9	3912.2	3948.9	3962.4	3977.0	3962.4	3968.5	3923.2
3710.3	20°	3753.2	3803.3	4021.1	4088.4	4116.5	4130.0	4105.5	4112.8	4067.6
3617.4	22.5°	3662.6	3727.5	3920.8	4131.2	4218.0	4244.9	4236.4	4235.2	4218.0
3433.9	25°	3529.3	3660.2	3747.0	3969.7	4242.5	4291.4	4296.3	4295.1	4269.4
3321.3	27.5°	3365.4	3394.7	3619.8	3755.6	4071.2	4257.2	4249.8	4214.4	4180.1
3087.7	30°	3156.2	3289.5	3391.1	3607.6	3849.8	4152.0	4152.0	4125.1	4089.6
3004.5	32.5°	3049.8	3222.2	3316.4	3394.7	3601.5	4034.5	4083.5	4055.3	4027.2
2939.7	35°	2993.5	3019.2	3239.4	3310.3	3485.3	3808.2	4006.4	3978.3	3957.5
2767.2	37.5°	2869.9	2929.9	3032.6	3222.2	3276.1	3623.5	3903.6	3889.0	3864.5
2543.3	40°	2594.7	2754.9	2912.7	3092.6	3148.8	3386.2	3778.9	3785.0	3751.9
2304.7	42.5°	2432.0	2540.8	2788.0	2909.1	3060.8	3233.3	3657.7	3667.5	3644.3
2183.6	45°	2241.1	2362.2	2536.0	2756.2	2962.9	3022.8	3443.7	3546.4	3526.9
1942.6	47.5°	2066.2	2164.1	2376.9	2599.6	2828.3	2819.8	3197.8	3391.1	3364.1
1757.9	50°	1817.9	1989.1	2089.4	2293.7	2635.0	2658.3	2936.0	3208.8	3186.8
1493.7	52.5°	1532.8	1748.1	1940.2	2127.4	2439.3	2494.4	2692.5	3022.8	3008.2
1141.4	55°	1339.5	1496.1	1712.7	1863.1	2202.0	2348.8	2510.3	2845.5	2838.1
938.3	57.5°	953.0	1255.1	1433.7	1644.2	1822.8	2088.2	2208.1	2484.6	2416.1
519.9	60°	645.9	787.8	1005.6	1231.9	1351.8	1617.2	1728.6	1950.0	1931.6
310.7	62.5°	341.3	472.2	627.6	741.3	828.2	1086.3	1132.8	1371.3	1365.2
124.8	65°	150.5	199.4	340.1	398.8	488.1	608.0	648.4	734.0	713.2
61.2	67.5°	78.3	118.7	192.1	236.1	297.3	342.5	375.6	402.5	419.6
40.4	70°	47.7	86.9	118.7	163.9	204.3	241.0	266.7	303.4	325.4
20.8	72.5°	35.5	55.0	82.0	126.0	148.0	190.8	216.5	243.4	263.0
17.1	75°	19.6	36.7	66.1	99.1	118.7	155.4	178.6	197.0	203.1
9.8	77.5°	12.2	28.1	55.0	77.1	93.0	126.0	119.9	137.0	151.7
7.3	80°	8.6	20.8	42.8	63.6	64.8	80.7	95.4	110.1	119.9
4.9	82.5°	6.1	17.1	31.8	48.9	42.8	62.4	74.6	85.6	62.4
3.7	85°	4.9	12.2	15.9	29.4	24.5	44.0	37.9	36.7	24.5
2.4	87.5°	3.7	6.1	11.0	13.5	9.8	9.8	12.2	14.7	12.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3591.7
3502.4
3526.9
3547.6
3578.2
3640.6
3745.8
3884.1
4035.8
4163.0
4230.3
4153.2
4076.1
4003.9
3928.1
3840.0
3744.6
3641.8
3529.3
3383.7
3190.4
3017.9
2846.7
2408.7
1932.9
1366.5
704.6
419.6
326.6
266.7
199.4
154.1
121.1
45.3
24.5
12.2
0.0

(END OF REPORT)