

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: P638305

Luminaire Tested: **IFLD-S-SA2C-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638305
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7716.5 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

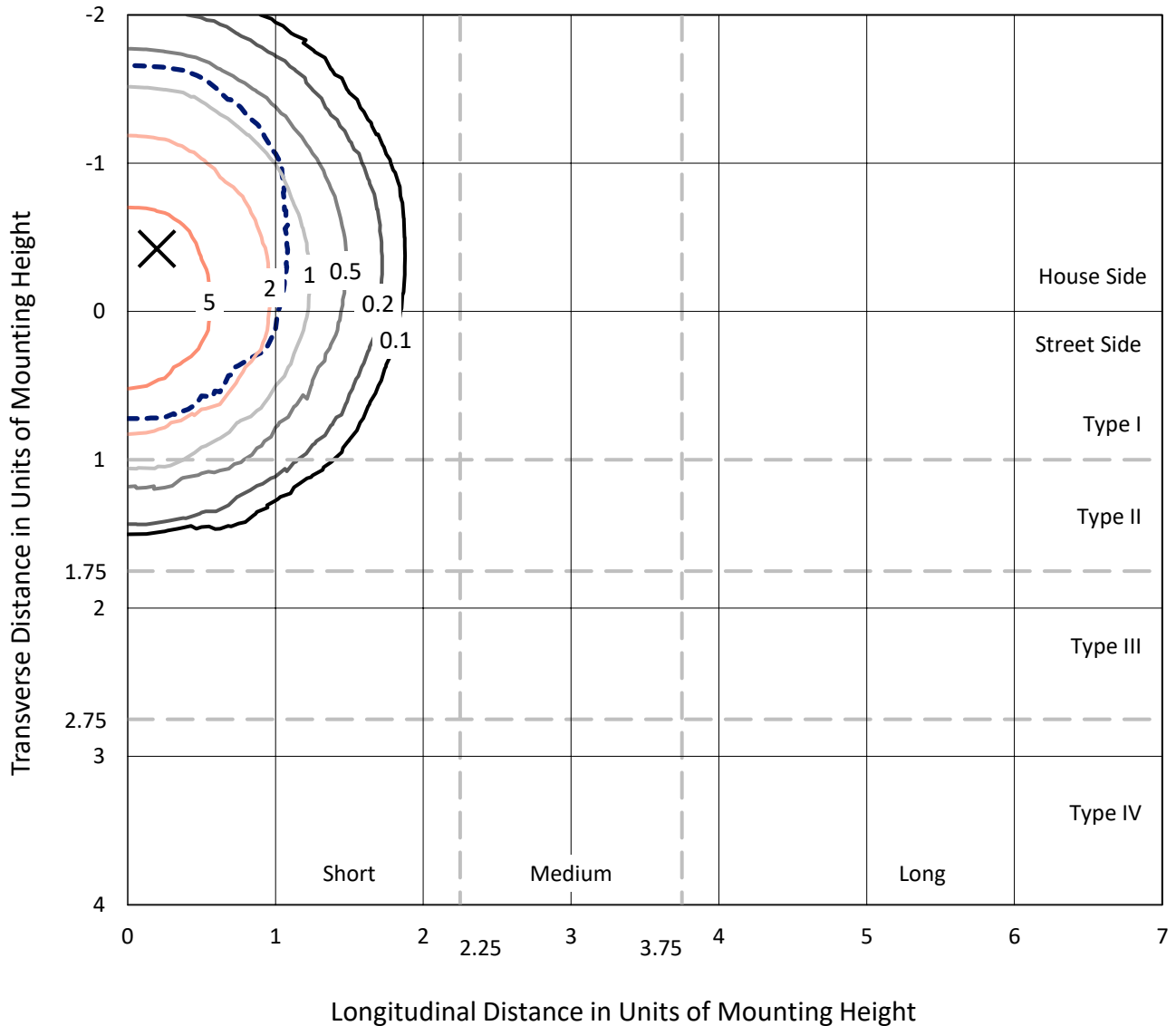
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

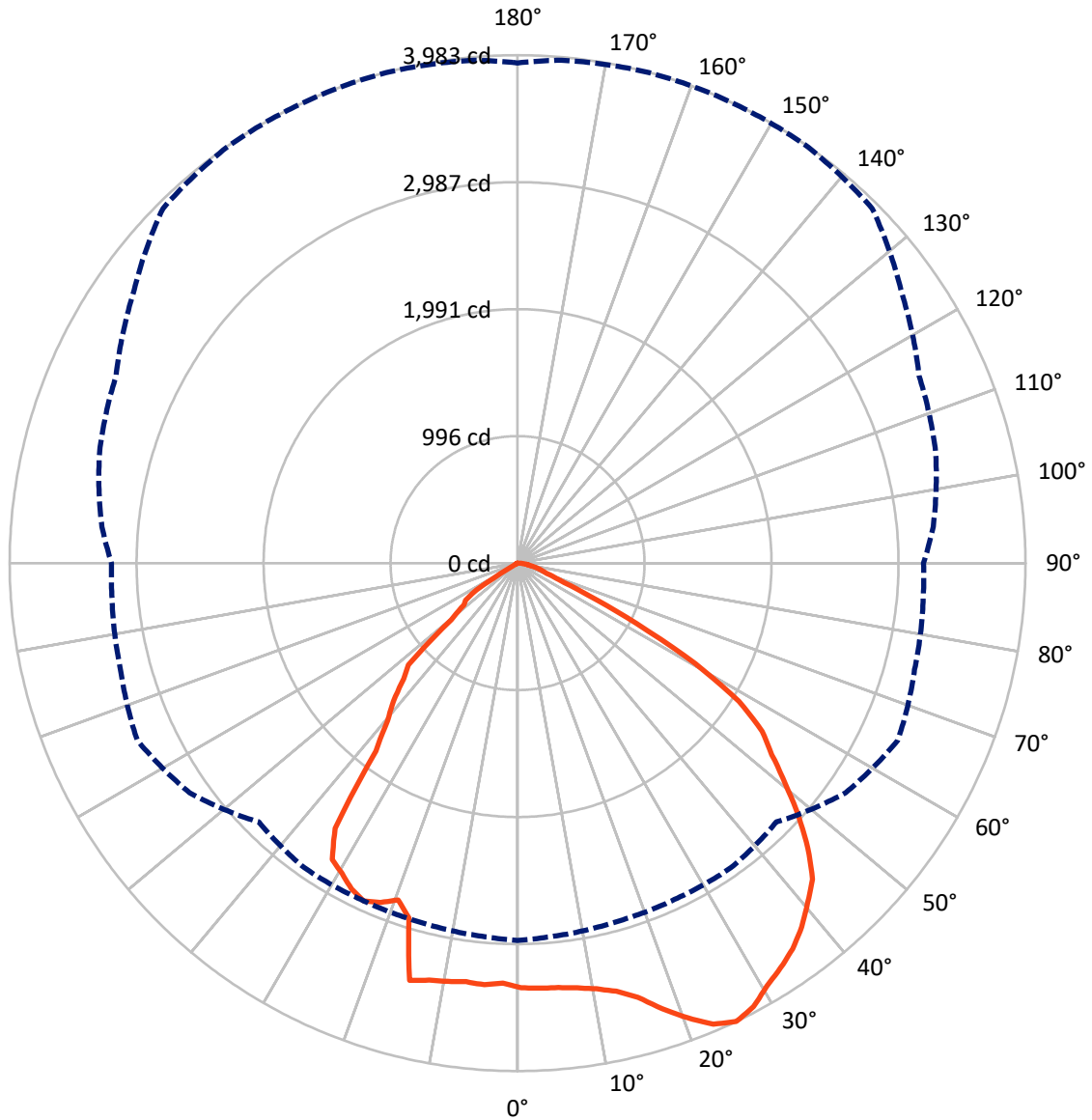
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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	4777.3	0.0	4777.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2939.2	0.0	2939.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	7716.5	0.0	7716.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	4.1
10°-20°	975.3	12.6
20°-30°	1542.0	20.0
30°-40°	1741.8	22.6
40°-50°	1631.2	21.1
50°-60°	1124.6	14.6
60°-70°	302.1	3.9
70°-80°	63.0	0.8
80°-90°	17.0	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°	7716.5	100.0
0°-180°	7716.5	100.0



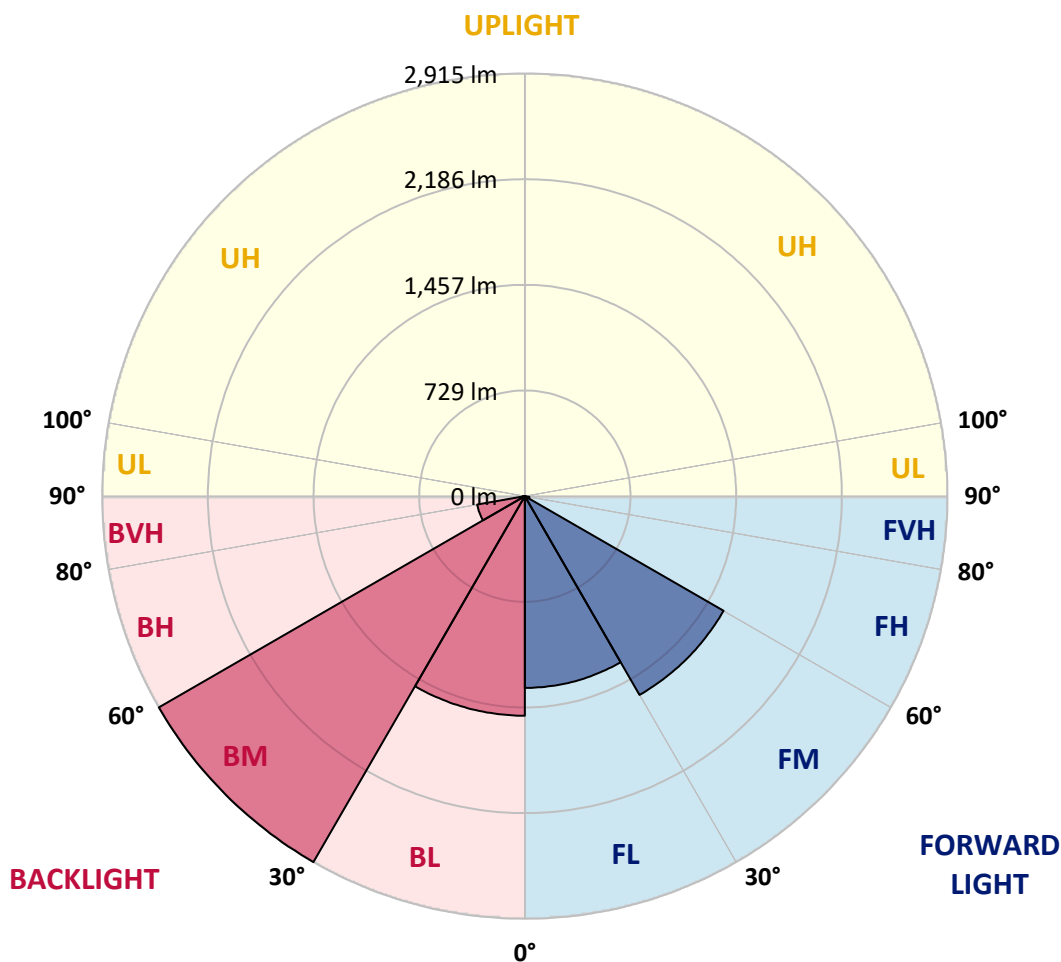
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1322.4	17.1			
FM	(30°-60°)	1582.8	20.5			
FH	(60°-80°)	31.7	0.4			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	1514.4	19.6	B3/2500		
BM	(30°-60°)	2914.8	37.8	B3/5000		
BH	(60°-80°)	333.4	4.3	B1/500		G1/500
BVH	(80°-90°)	14.7	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°	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5
2.5°	3344.3	3322.7	3302.3	3295.5	3323.8	3354.5	3335.2	3336.3	3329.5	3342.0
5°	3369.2	3339.7	3326.1	3315.9	3320.4	3352.2	3325.0	3335.2	3323.8	3338.6
7.5°	3360.1	3339.7	3326.1	3306.8	3321.6	3359.0	3332.9	3334.1	3328.4	3342.0
10°	3354.5	3339.7	3322.7	3325.0	3342.0	3373.7	3353.3	3364.7	3356.7	3364.7
12.5°	3368.1	3352.2	3343.1	3343.1	3357.9	3394.2	3384.0	3394.2	3390.8	3397.6
15°	3239.9	3254.7	3340.9	3379.4	3408.9	3445.2	3440.7	3450.9	3453.1	3463.3
17.5°	2733.0	2718.3	2711.5	2909.9	3437.3	3549.5	3546.1	3545.0	3533.6	3525.7
20°	2799.9	2794.3	2786.3	2801.1	2860.0	3604.0	3626.6	3487.2	3446.3	3442.9
22.5°	2906.5	2897.5	2868.0	2869.1	2887.2	3133.3	3514.4	3387.4	3373.7	3365.8
25°	2958.7	2940.5	2916.7	2909.9	2915.6	2870.2	3139.0	3289.8	3222.9	3192.3
27.5°	2866.8	2868.0	2848.7	2866.8	2845.3	2641.2	2526.6	3099.3	3097.0	3083.4
30°	2797.7	2794.3	2771.6	2794.3	2645.7	2417.8	2369.0	2890.6	2866.8	2848.7
32.5°	2585.6	2587.9	2653.6	2742.1	2498.3	2318.0	2170.5	2582.2	2807.9	2797.7
35°	1849.6	1854.1	2087.8	2524.4	2274.9	2119.5	2108.2	2231.8	2714.9	2719.4
37.5°	1780.4	1780.4	1774.8	1846.2	2099.1	2039.0	2061.7	2049.2	2486.9	2498.3
40°	1730.5	1720.3	1712.4	1600.1	1459.5	1982.3	1998.2	1941.5	2350.8	2353.1
42.5°	1670.4	1659.1	1661.4	1453.8	1306.4	1841.7	1797.4	1721.5	2124.0	2126.3
45°	1560.4	1579.7	1593.3	1272.4	1261.0	1315.5	1658.0	1610.3	1970.9	2012.9
47.5°	793.8	810.8	1244.0	1170.3	1196.4	1169.2	1400.5	1401.7	1639.8	1779.3
50°	720.1	715.6	716.7	682.7	1104.5	945.8	1012.7	1284.9	1313.2	1512.8
52.5°	671.3	670.2	601.0	534.1	694.0	832.4	734.9	929.9	976.4	1281.5
55°	496.7	533.0	474.0	502.4	434.3	666.8	663.4	839.2	855.1	1027.4
57.5°	4.5	5.7	13.6	382.2	300.5	333.4	458.1	572.7	601.0	800.6
60°	1.1	2.3	5.7	11.3	195.1	205.3	306.2	331.1	373.1	477.4
62.5°	0.0	0.0	2.3	5.7	10.2	83.9	97.5	106.6	164.4	243.8
65°	0.0	0.0	1.1	3.4	5.7	13.6	23.8	49.9	71.4	88.5
67.5°	0.0	0.0	1.1	2.3	4.5	6.8	13.6	19.3	30.6	52.2
70°	0.0	0.0	1.1	2.3	3.4	5.7	9.1	13.6	18.1	26.1
72.5°	0.0	0.0	1.1	2.3	2.3	6.8	6.8	10.2	13.6	17.0
75°	0.0	0.0	1.1	1.1	2.3	4.5	6.8	7.9	9.1	13.6
77.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	9.1	7.9	7.9
80°	0.0	0.0	1.1	3.4	3.4	5.7	6.8	9.1	5.7	5.7
82.5°	0.0	0.0	1.1	4.5	3.4	11.3	11.3	12.5	4.5	4.5
85°	0.0	0.0	3.4	2.3	6.8	11.3	10.2	6.8	5.7	3.4
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	7.9	6.8	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°
3329.5	0°	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5
3309.1	2.5°	3354.5	3339.7	3370.3	3366.9	3352.2	3345.4	3337.5	3330.7	3280.8
3311.4	5°	3355.6	3332.9	3370.3	3363.5	3361.3	3349.9	3343.1	3353.3	3308.0
3320.4	7.5°	3355.6	3332.9	3373.7	3376.0	3372.6	3363.5	3362.4	3369.2	3331.8
3336.3	10°	3378.3	3369.2	3403.2	3406.6	3402.1	3399.8	3394.2	3389.6	3349.9
3390.8	12.5°	3425.9	3407.8	3446.3	3456.5	3453.1	3458.8	3445.2	3452.0	3411.2
3446.3	15°	3483.7	3484.9	3514.4	3537.0	3534.8	3552.9	3532.5	3550.7	3521.2
3509.8	17.5°	3572.2	3584.7	3626.6	3660.7	3673.1	3686.7	3673.1	3678.8	3636.8
3439.5	20°	3479.2	3525.7	3727.6	3789.9	3816.0	3828.5	3805.8	3812.6	3770.7
3353.3	22.5°	3395.3	3455.4	3634.6	3829.6	3910.1	3935.1	3927.2	3926.0	3910.1
3183.2	25°	3271.7	3393.0	3473.5	3679.9	3932.8	3978.2	3982.7	3981.6	3957.8
3078.9	27.5°	3119.7	3146.9	3355.6	3481.5	3774.1	3946.4	3939.6	3906.7	3875.0
2862.3	30°	2925.8	3049.4	3143.5	3344.3	3568.8	3848.9	3848.9	3824.0	3791.1
2785.2	32.5°	2827.1	2987.0	3074.4	3146.9	3338.6	3740.0	3785.4	3759.3	3733.2
2725.1	35°	2775.0	2798.8	3002.9	3068.7	3230.9	3530.2	3714.0	3687.9	3668.6
2565.2	37.5°	2660.4	2716.0	2811.3	2987.0	3036.9	3359.0	3618.7	3605.1	3582.4
2357.7	40°	2405.3	2553.8	2700.1	2866.8	2919.0	3139.0	3503.0	3508.7	3478.1
2136.5	42.5°	2254.5	2355.4	2584.5	2696.7	2837.3	2997.2	3390.8	3399.8	3378.3
2024.2	45°	2077.5	2189.8	2350.8	2555.0	2746.6	2802.2	3192.3	3287.6	3269.4
1800.8	47.5°	1915.4	2006.1	2203.4	2409.8	2621.9	2613.9	2964.4	3143.5	3118.6
1629.6	50°	1685.2	1843.9	1936.9	2126.3	2442.7	2464.3	2721.7	2974.6	2954.2
1384.7	52.5°	1420.9	1620.5	1798.6	1972.1	2261.3	2312.3	2496.0	2802.2	2788.6
1058.1	55°	1241.8	1386.9	1587.6	1727.1	2041.3	2177.3	2327.0	2637.8	2631.0
869.8	57.5°	883.4	1163.5	1329.1	1524.1	1689.7	1935.8	2046.9	2303.2	2239.7
482.0	60°	598.8	730.3	932.2	1142.0	1253.1	1499.2	1602.4	1807.6	1790.6
288.0	62.5°	316.4	437.7	581.8	687.2	767.7	1007.0	1050.1	1271.3	1265.6
115.7	65°	139.5	184.8	315.3	369.7	452.5	563.6	601.0	680.4	661.1
56.7	67.5°	72.6	110.0	178.0	218.9	275.6	317.5	348.1	373.1	389.0
37.4	70°	44.2	80.5	110.0	152.0	189.4	223.4	247.2	281.2	301.7
19.3	72.5°	32.9	51.0	76.0	116.8	137.2	176.9	200.7	225.7	243.8
15.9	75°	18.1	34.0	61.2	91.9	110.0	144.0	165.6	182.6	188.2
9.1	77.5°	11.3	26.1	51.0	71.4	86.2	116.8	111.1	127.0	140.6
6.8	80°	7.9	19.3	39.7	59.0	60.1	74.8	88.5	102.1	111.1
4.5	82.5°	5.7	15.9	29.5	45.4	39.7	57.8	69.2	79.4	57.8
3.4	85°	4.5	11.3	14.7	27.2	22.7	40.8	35.2	34.0	22.7
2.3	87.5°	3.4	5.7	10.2	12.5	9.1	9.1	11.3	13.6	11.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3329.5
3246.7
3269.4
3288.7
3317.0
3374.9
3472.4
3600.6
3741.2
3859.1
3921.5
3850.0
3778.6
3711.7
3641.4
3559.7
3471.3
3376.0
3271.7
3136.7
2957.6
2797.7
2638.9
2232.9
1791.8
1266.7
653.2
389.0
302.8
247.2
184.8
142.9
112.3
42.0
22.7
11.3
0.0

(END OF REPORT)