

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: P638362

Luminaire Tested: **IFLD-S-SA2B-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638362
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7663 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

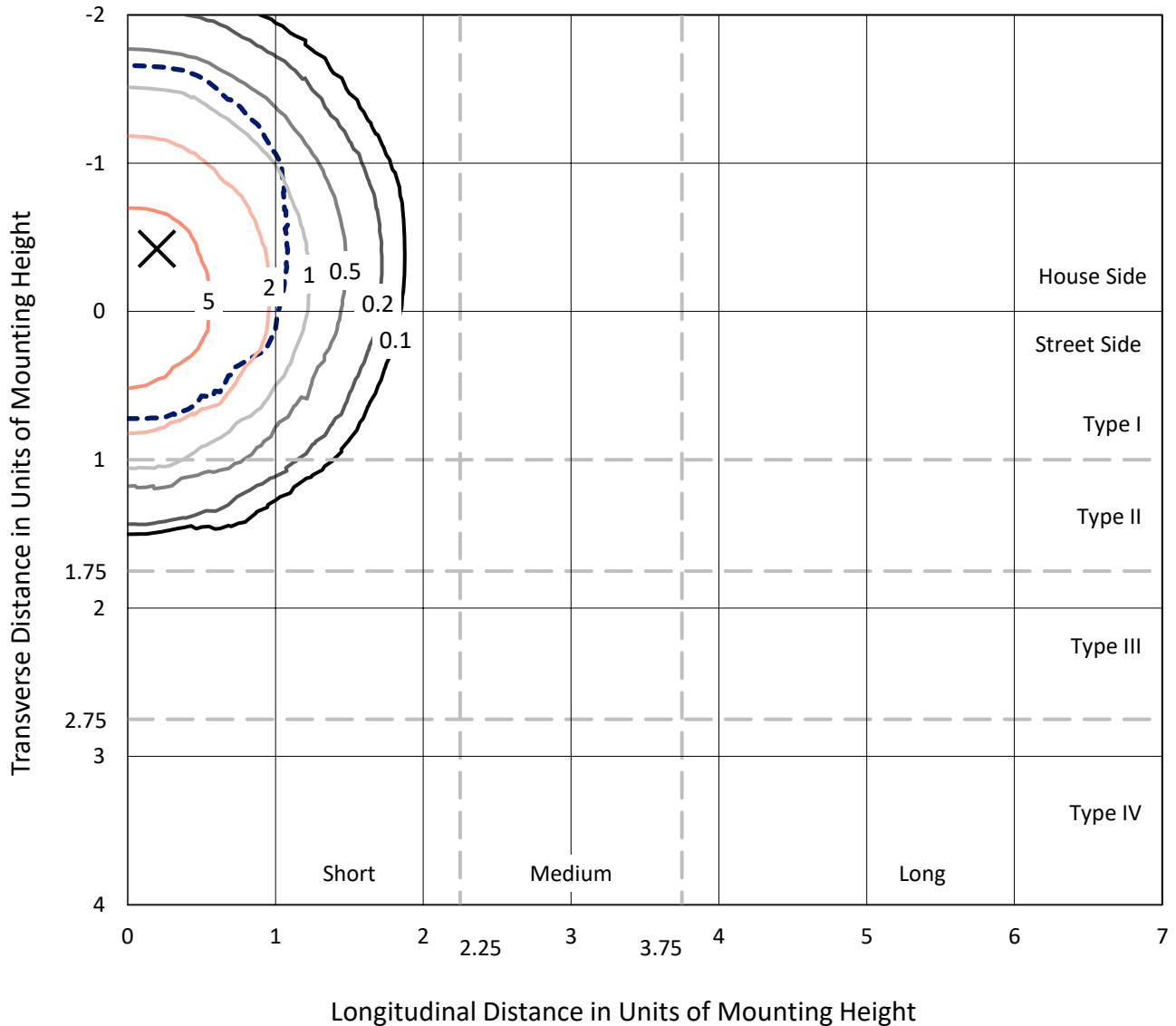
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

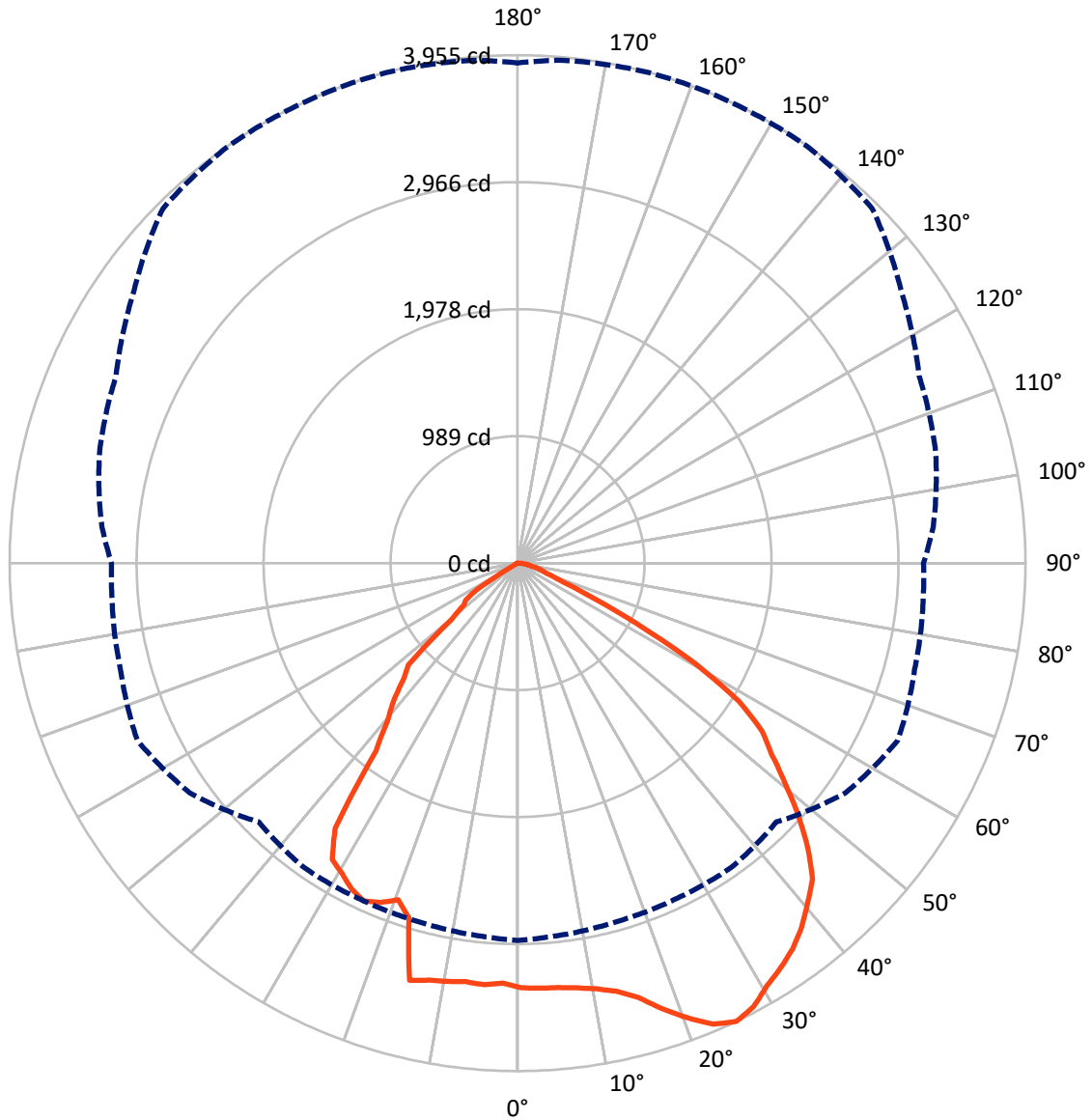
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	4744.2	0.0	4744.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2918.8	0.0	2918.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	7663.0	0.0	7663.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	4.1
10°-20°	968.6	12.6
20°-30°	1531.3	20.0
30°-40°	1729.7	22.6
40°-50°	1619.9	21.1
50°-60°	1116.8	14.6
60°-70°	300.0	3.9
70°-80°	62.5	0.8
80°-90°	16.9	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°	7663.0	100.0
0°-180°	7663.0	100.0



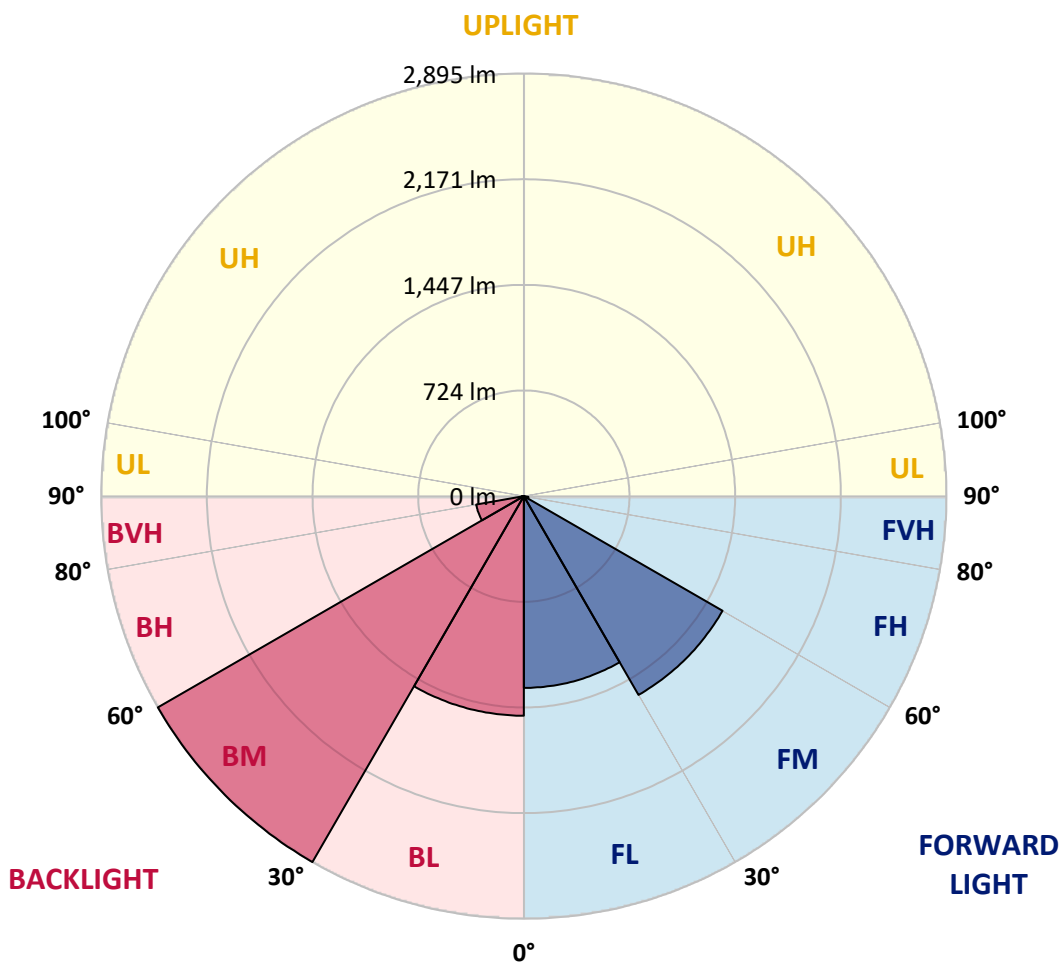
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.2	17.1			
FM (30°-60°)	1571.9	20.5			
FH (60°-80°)	31.5	0.4			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1503.9	19.6	B3/2500		
BM (30°-60°)	2894.6	37.8	B3/5000		
BH (60°-80°)	331.1	4.3	B1/500		G1/500
BVH (80°-90°)	14.6	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°	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4
2.5°	3321.1	3299.7	3279.4	3272.7	3300.8	3331.2	3312.1	3313.2	3306.4	3318.8
5°	3345.9	3316.6	3303.1	3292.9	3297.4	3329.0	3301.9	3312.1	3300.8	3315.5
7.5°	3336.8	3316.6	3303.1	3283.9	3298.6	3335.7	3309.8	3310.9	3305.3	3318.8
10°	3331.2	3316.6	3299.7	3301.9	3318.8	3350.4	3330.1	3341.4	3333.5	3341.4
12.5°	3344.7	3329.0	3320.0	3320.0	3334.6	3370.6	3360.5	3370.6	3367.3	3374.0
15°	3217.5	3232.1	3317.7	3356.0	3385.3	3421.3	3416.8	3426.9	3429.2	3439.3
17.5°	2714.1	2699.4	2692.7	2889.8	3413.4	3524.9	3521.5	3520.4	3509.2	3501.3
20°	2780.5	2774.9	2767.0	2781.6	2840.2	3579.0	3601.5	3463.0	3422.4	3419.1
22.5°	2886.4	2877.4	2848.1	2849.2	2867.2	3111.6	3490.0	3363.9	3350.4	3342.5
25°	2938.2	2920.2	2896.5	2889.8	2895.4	2850.3	3117.2	3267.0	3200.6	3170.2
27.5°	2847.0	2848.1	2828.9	2847.0	2825.6	2622.9	2509.1	3077.8	3075.6	3062.1
30°	2778.3	2774.9	2752.4	2774.9	2627.4	2401.0	2352.6	2870.6	2847.0	2828.9
32.5°	2567.7	2569.9	2635.2	2723.1	2481.0	2301.9	2155.5	2564.3	2788.4	2778.3
35°	1836.8	1841.3	2073.3	2506.9	2259.1	2104.8	2093.6	2216.3	2696.1	2700.6
37.5°	1768.1	1768.1	1762.5	1833.4	2084.5	2024.9	2047.4	2035.0	2469.7	2481.0
40°	1718.5	1708.4	1700.5	1589.0	1449.4	1968.5	1984.3	1928.0	2334.6	2336.8
42.5°	1658.9	1647.6	1649.8	1443.8	1297.4	1828.9	1785.0	1709.5	2109.3	2111.6
45°	1549.6	1568.8	1582.3	1263.6	1252.3	1306.4	1646.5	1599.2	1957.3	1999.0
47.5°	788.3	805.2	1235.4	1162.2	1188.1	1161.1	1390.8	1391.9	1628.4	1767.0
50°	715.1	710.6	711.7	678.0	1096.9	939.2	1005.7	1276.0	1304.1	1502.3
52.5°	666.7	665.6	596.9	530.4	689.2	826.6	729.8	923.5	969.6	1272.6
55°	493.3	529.3	470.7	498.9	431.3	662.2	658.8	833.4	849.1	1020.3
57.5°	4.5	5.6	13.5	379.5	298.4	331.1	455.0	568.7	596.9	795.1
60°	1.1	2.3	5.6	11.3	193.7	203.8	304.1	328.8	370.5	474.1
62.5°	0.0	0.0	2.3	5.6	10.1	83.3	96.9	105.9	163.3	242.1
65°	0.0	0.0	1.1	3.4	5.6	13.5	23.6	49.6	70.9	87.8
67.5°	0.0	0.0	1.1	2.3	4.5	6.8	13.5	19.1	30.4	51.8
70°	0.0	0.0	1.1	2.3	3.4	5.6	9.0	13.5	18.0	25.9
72.5°	0.0	0.0	1.1	2.3	2.3	6.8	6.8	10.1	13.5	16.9
75°	0.0	0.0	1.1	1.1	2.3	4.5	6.8	7.9	9.0	13.5
77.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.6	9.0	7.9	7.9
80°	0.0	0.0	1.1	3.4	3.4	5.6	6.8	9.0	5.6	5.6
82.5°	0.0	0.0	1.1	4.5	3.4	11.3	11.3	12.4	4.5	4.5
85°	0.0	0.0	3.4	2.3	6.8	11.3	10.1	6.8	5.6	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°
3306.4	0°	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4
3286.2	2.5°	3331.2	3316.6	3347.0	3343.6	3329.0	3322.2	3314.3	3307.6	3258.0
3288.4	5°	3332.3	3309.8	3347.0	3340.2	3338.0	3326.7	3320.0	3330.1	3285.0
3297.4	7.5°	3332.3	3309.8	3350.4	3352.6	3349.2	3340.2	3339.1	3345.9	3308.7
3313.2	10°	3354.9	3345.9	3379.6	3383.0	3378.5	3376.3	3370.6	3366.1	3326.7
3367.3	12.5°	3402.2	3384.1	3422.4	3432.6	3429.2	3434.8	3421.3	3428.1	3387.5
3422.4	15°	3459.6	3460.7	3490.0	3512.5	3510.3	3528.3	3508.0	3526.0	3496.8
3485.5	17.5°	3547.4	3559.8	3601.5	3635.3	3647.7	3661.2	3647.7	3653.3	3611.6
3415.7	20°	3455.1	3501.3	3701.7	3763.7	3789.6	3802.0	3779.4	3786.2	3744.5
3330.1	22.5°	3371.8	3431.4	3609.4	3803.1	3883.0	3907.8	3899.9	3898.8	3883.0
3161.2	25°	3249.0	3369.5	3449.5	3654.4	3905.6	3950.6	3955.1	3954.0	3930.3
3057.6	27.5°	3098.1	3125.1	3332.3	3457.3	3747.9	3919.1	3912.3	3879.7	3848.1
2842.5	30°	2905.5	3028.3	3121.7	3321.1	3544.1	3822.2	3822.2	3797.5	3764.8
2765.9	32.5°	2807.5	2966.3	3053.1	3125.1	3315.5	3714.1	3759.2	3733.3	3707.4
2706.2	35°	2755.7	2779.4	2982.1	3047.4	3208.5	3505.8	3688.2	3662.3	3643.2
2547.4	37.5°	2642.0	2697.2	2791.8	2966.3	3015.9	3335.7	3593.6	3580.1	3557.6
2341.3	40°	2388.6	2536.1	2681.4	2847.0	2898.8	3117.2	3478.7	3484.4	3454.0
2121.7	42.5°	2238.8	2339.1	2566.5	2678.0	2817.7	2976.5	3367.3	3376.3	3354.9
2010.2	45°	2063.1	2174.6	2334.6	2537.3	2727.6	2782.8	3170.2	3264.8	3246.8
1788.4	47.5°	1902.1	1992.2	2188.2	2393.1	2603.7	2595.8	2943.8	3121.7	3097.0
1618.3	50°	1673.5	1831.2	1923.5	2111.6	2425.8	2447.2	2702.8	2953.9	2933.7
1375.1	52.5°	1411.1	1609.3	1786.1	1958.4	2245.6	2296.3	2478.7	2782.8	2769.3
1050.7	55°	1233.2	1377.3	1576.6	1715.2	2027.1	2162.3	2310.9	2619.5	2612.7
863.8	57.5°	877.3	1155.5	1319.9	1513.6	1678.0	1922.4	2032.7	2287.3	2224.2
478.6	60°	594.6	725.3	925.7	1134.1	1244.4	1488.8	1591.3	1795.1	1778.2
286.0	62.5°	314.2	434.7	577.7	682.5	762.4	1000.0	1042.8	1262.4	1256.8
114.9	65°	138.5	183.6	313.1	367.1	449.3	559.7	596.9	675.7	656.6
56.3	67.5°	72.1	109.2	176.8	217.4	273.7	315.3	345.7	370.5	386.3
37.2	70°	43.9	80.0	109.2	150.9	188.1	221.9	245.5	279.3	299.6
19.1	72.5°	32.7	50.7	75.5	116.0	136.3	175.7	199.3	224.1	242.1
15.8	75°	18.0	33.8	60.8	91.2	109.2	143.0	164.4	181.3	186.9
9.0	77.5°	11.3	25.9	50.7	70.9	85.6	116.0	110.4	126.1	139.6
6.8	80°	7.9	19.1	39.4	58.6	59.7	74.3	87.8	101.4	110.4
4.5	82.5°	5.6	15.8	29.3	45.0	39.4	57.4	68.7	78.8	57.4
3.4	85°	4.5	11.3	14.6	27.0	22.5	40.5	34.9	33.8	22.5
2.3	87.5°	3.4	5.6	10.1	12.4	9.0	9.0	11.3	13.5	11.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3306.4
3224.2
3246.8
3265.9
3294.1
3351.5
3448.3
3575.6
3715.2
3832.4
3894.3
3823.4
3752.4
3686.0
3616.1
3535.1
3447.2
3352.6
3249.0
3115.0
2937.1
2778.3
2620.6
2217.4
1779.4
1257.9
648.7
386.3
300.7
245.5
183.6
141.9
111.5
41.7
22.5
11.3
0.0

(END OF REPORT)