

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: P638391

Luminaire Tested: **IFLD-S-SA2B-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638391  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8300 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

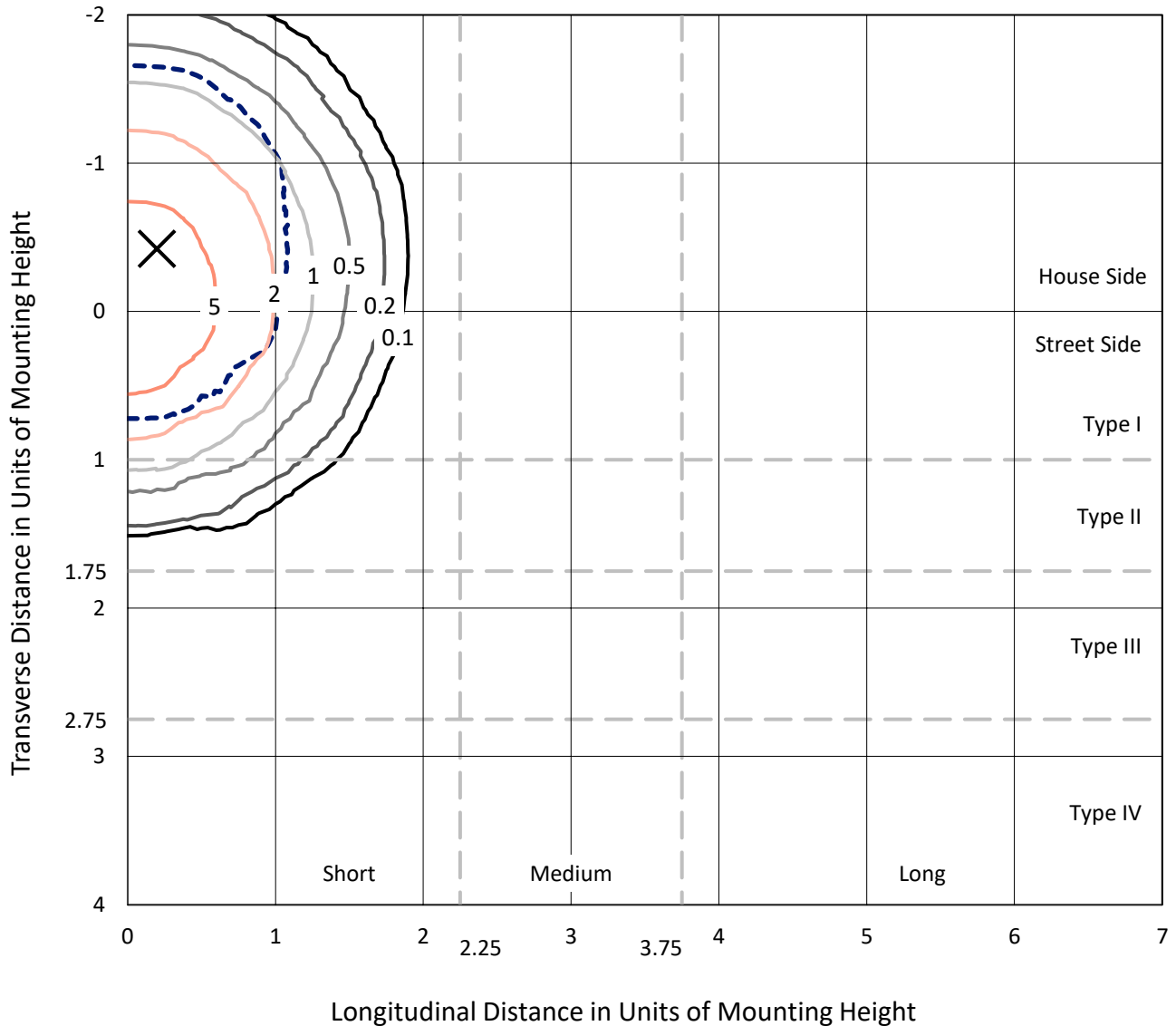
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

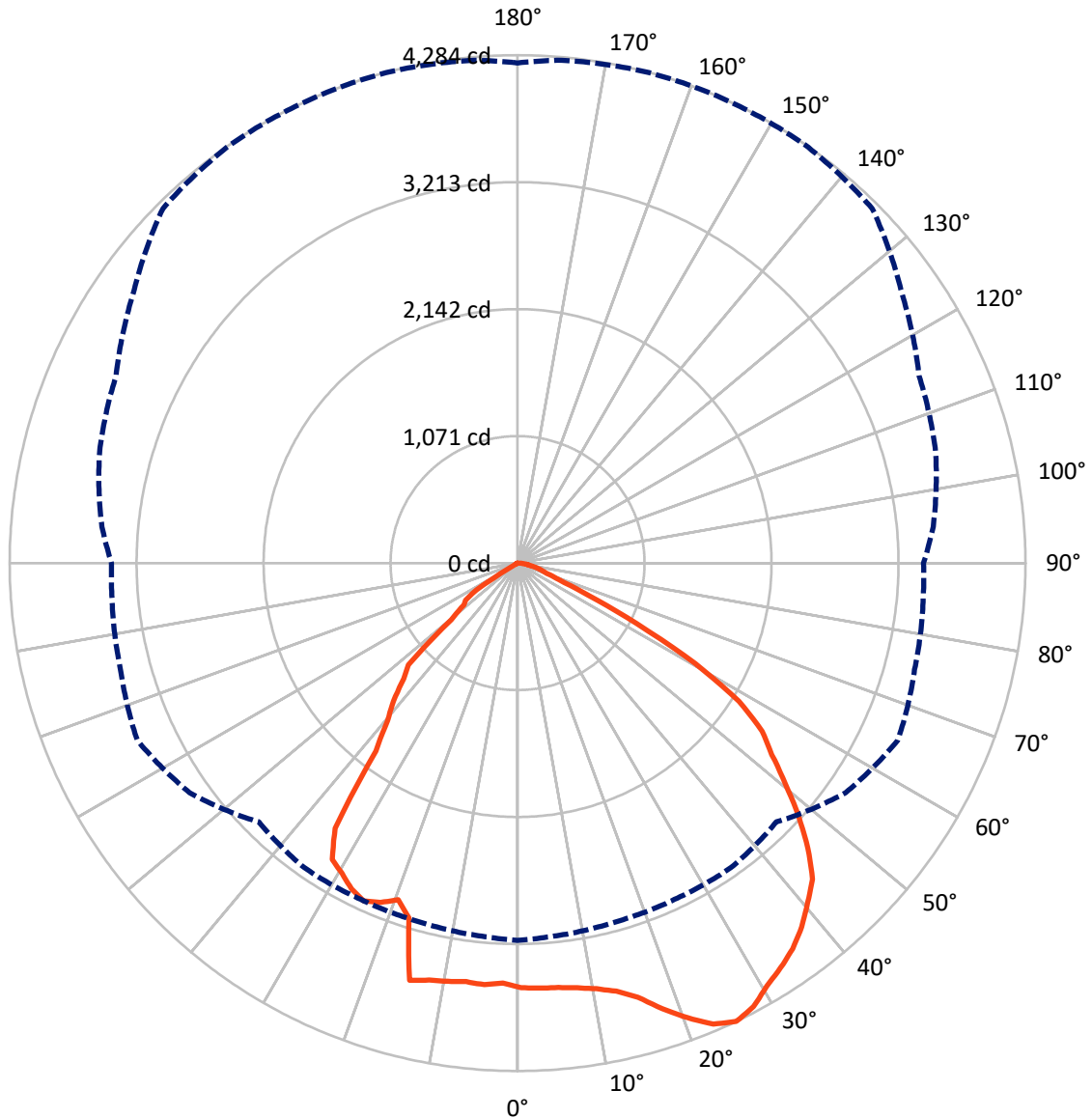
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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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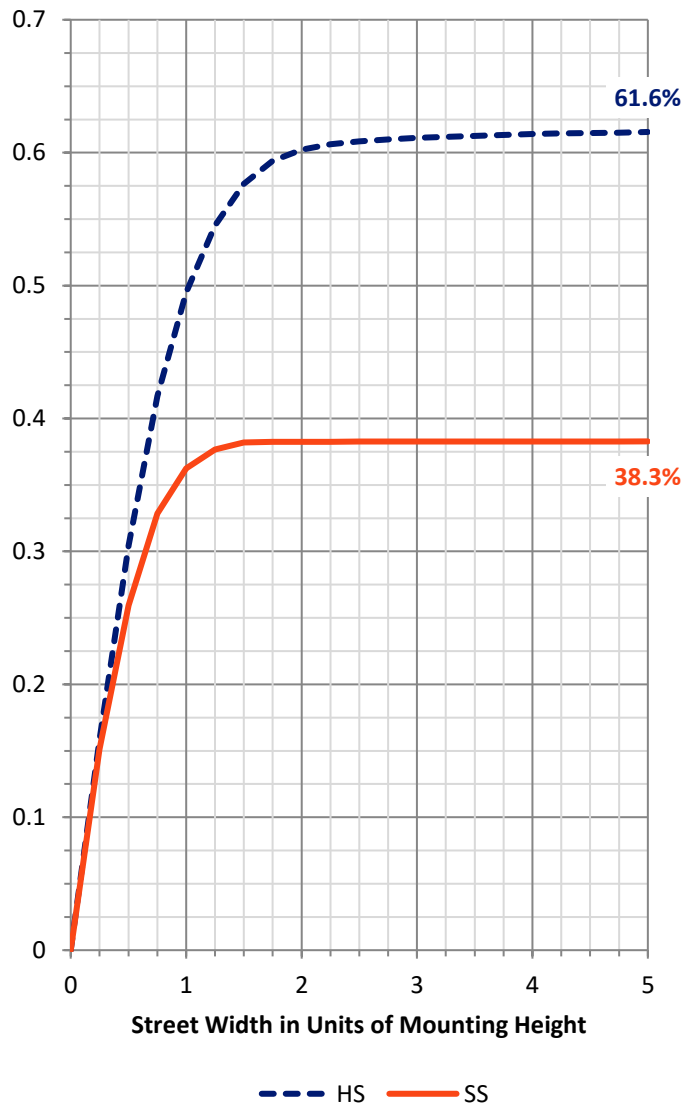
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5138.6	0.0	5138.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3161.5	0.0	3161.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	8300.0	0.0	8300.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.6	4.1
10°-20°	1049.1	12.6
20°-30°	1658.6	20.0
30°-40°	1873.5	22.6
40°-50°	1754.6	21.1
50°-60°	1209.7	14.6
60°-70°	325.0	3.9
70°-80°	67.7	0.8
80°-90°	18.3	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°	8300.0	100.0
0°-180°	8300.0	100.0



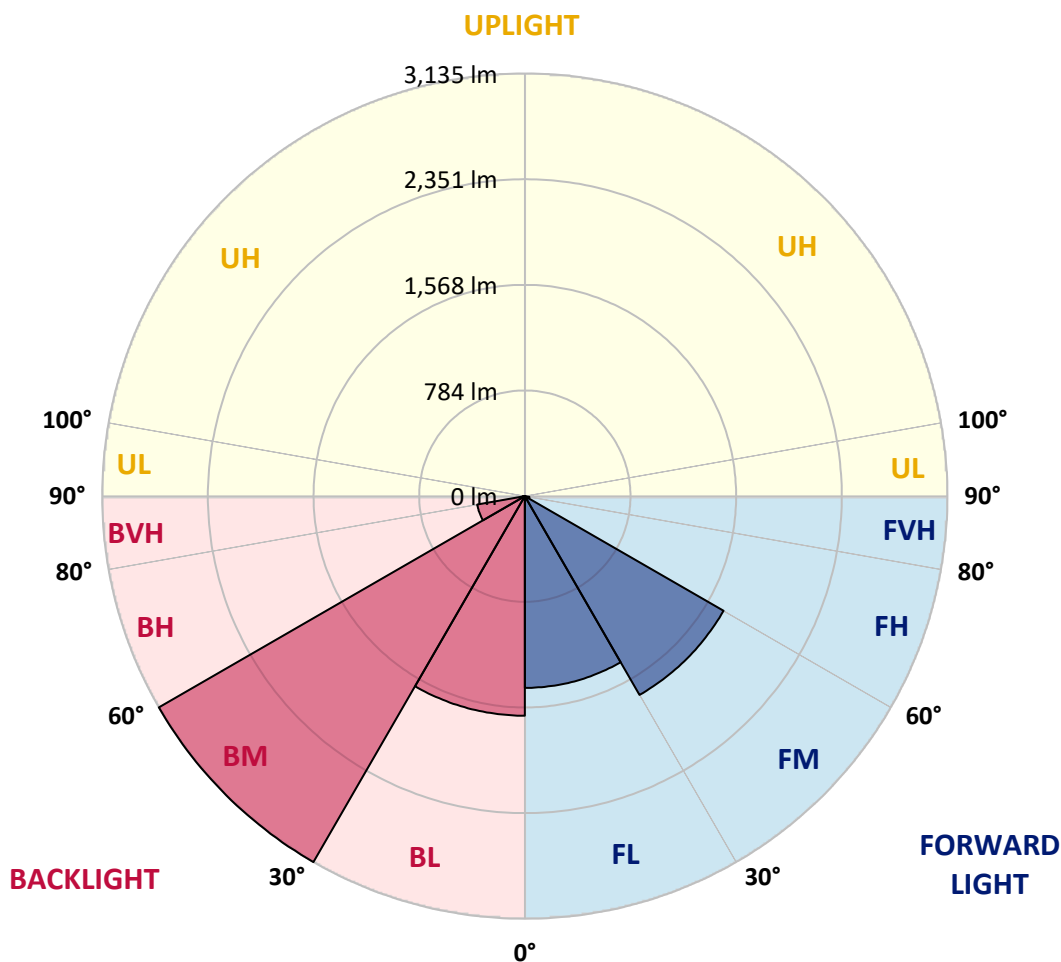
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.4	17.1			
FM (30°-60°)	1702.5	20.5			
FH (60°-80°)	34.1	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1628.9	19.6	B3/2500		
BM (30°-60°)	3135.2	37.8	B3/5000		
BH (60°-80°)	358.6	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°	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3
2.5°	3597.2	3574.0	3552.0	3544.7	3575.2	3608.1	3587.4	3588.6	3581.3	3594.7
5°	3624.0	3592.3	3577.7	3566.7	3571.6	3605.7	3576.4	3587.4	3575.2	3591.1
7.5°	3614.2	3592.3	3577.7	3556.9	3572.8	3613.0	3585.0	3586.2	3580.1	3594.7
10°	3608.1	3592.3	3574.0	3576.4	3594.7	3628.9	3606.9	3619.1	3610.6	3619.1
12.5°	3622.8	3605.7	3596.0	3596.0	3611.8	3650.8	3639.9	3650.8	3647.2	3654.5
15°	3484.9	3500.8	3593.5	3635.0	3666.7	3705.7	3700.9	3711.8	3714.3	3725.2
17.5°	2939.7	2923.8	2916.5	3130.0	3697.2	3818.0	3814.3	3813.1	3800.9	3792.3
20°	3011.7	3005.6	2997.0	3012.9	3076.3	3876.5	3900.9	3750.9	3707.0	3703.3
22.5°	3126.3	3116.6	3084.9	3086.1	3105.6	3370.3	3780.1	3643.5	3628.9	3620.3
25°	3182.4	3162.9	3137.3	3130.0	3136.1	3087.3	3376.4	3538.6	3466.7	3433.7
27.5°	3083.6	3084.9	3064.1	3083.6	3060.5	2840.9	2717.7	3333.7	3331.3	3316.6
30°	3009.2	3005.6	2981.2	3005.6	2845.8	2600.6	2548.1	3109.3	3083.6	3064.1
32.5°	2781.1	2783.6	2854.3	2949.5	2687.2	2493.3	2334.7	2777.5	3020.2	3009.2
35°	1989.5	1994.4	2245.6	2715.3	2446.9	2279.8	2267.6	2400.6	2920.2	2925.1
37.5°	1915.1	1915.1	1909.0	1985.8	2257.8	2193.2	2217.6	2204.2	2675.0	2687.2
40°	1861.4	1850.4	1841.9	1721.1	1569.9	2132.2	2149.3	2088.3	2528.6	2531.1
42.5°	1796.8	1784.6	1787.0	1563.8	1405.2	1980.9	1933.4	1851.6	2284.7	2287.1
45°	1678.4	1699.2	1713.8	1368.6	1356.4	1415.0	1783.3	1732.1	2120.0	2165.1
47.5°	853.9	872.2	1338.1	1258.8	1286.9	1257.6	1506.4	1507.7	1763.8	1913.9
50°	774.6	769.7	770.9	734.3	1188.1	1017.3	1089.3	1382.0	1412.5	1627.2
52.5°	722.1	720.9	646.5	574.5	746.5	895.3	790.4	1000.2	1050.2	1378.4
55°	534.3	573.3	509.9	540.4	467.2	717.2	713.6	902.6	919.7	1105.1
57.5°	4.9	6.1	14.6	411.1	323.2	358.6	492.8	616.0	646.5	861.2
60°	1.2	2.4	6.1	12.2	209.8	220.8	329.3	356.2	401.3	513.5
62.5°	0.0	0.0	2.4	6.1	11.0	90.3	104.9	114.7	176.9	262.3
65°	0.0	0.0	1.2	3.7	6.1	14.6	25.6	53.7	76.8	95.1
67.5°	0.0	0.0	1.2	2.4	4.9	7.3	14.6	20.7	32.9	56.1
70°	0.0	0.0	1.2	2.4	3.7	6.1	9.8	14.6	19.5	28.1
72.5°	0.0	0.0	1.2	2.4	2.4	7.3	7.3	11.0	14.6	18.3
75°	0.0	0.0	1.2	1.2	2.4	4.9	7.3	8.5	9.8	14.6
77.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	9.8	8.5	8.5
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	13.4	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	8.5	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°
3581.3	0°	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3	3581.3
3559.4	2.5°	3608.1	3592.3	3625.2	3621.6	3605.7	3598.4	3589.9	3582.5	3528.9
3561.8	5°	3609.4	3585.0	3625.2	3617.9	3615.5	3603.3	3596.0	3606.9	3558.1
3571.6	7.5°	3609.4	3585.0	3628.9	3631.3	3627.7	3617.9	3616.7	3624.0	3583.8
3588.6	10°	3633.8	3624.0	3660.6	3664.3	3659.4	3656.9	3650.8	3646.0	3603.3
3647.2	12.5°	3685.0	3665.5	3707.0	3717.9	3714.3	3720.4	3705.7	3713.1	3669.1
3707.0	15°	3747.2	3748.4	3780.1	3804.5	3802.1	3821.6	3799.7	3819.2	3787.5
3775.3	17.5°	3842.3	3855.8	3900.9	3937.5	3950.9	3965.5	3950.9	3957.0	3911.9
3699.6	20°	3742.3	3792.3	4009.5	4076.5	4104.6	4118.0	4093.6	4100.9	4055.8
3606.9	22.5°	3652.1	3716.7	3909.4	4119.2	4205.8	4232.7	4224.1	4222.9	4205.8
3424.0	25°	3519.1	3649.6	3736.2	3958.2	4230.2	4279.0	4283.9	4282.7	4257.1
3311.7	27.5°	3355.7	3384.9	3609.4	3744.8	4059.5	4244.9	4237.6	4202.2	4168.0
3078.8	30°	3147.1	3280.0	3381.3	3597.2	3838.7	4140.0	4140.0	4113.1	4077.8
2995.8	32.5°	3040.9	3212.9	3306.9	3384.9	3591.1	4022.9	4071.7	4043.6	4015.6
2931.2	35°	2984.8	3010.4	3230.0	3300.8	3475.2	3797.2	3994.8	3966.8	3946.0
2759.2	37.5°	2861.6	2921.4	3023.9	3212.9	3266.6	3613.0	3892.4	3877.7	3853.3
2535.9	40°	2587.2	2747.0	2904.3	3083.6	3139.7	3376.4	3767.9	3774.0	3741.1
2298.1	42.5°	2424.9	2533.5	2779.9	2900.7	3051.9	3223.9	3647.2	3656.9	3633.8
2177.3	45°	2234.7	2355.4	2528.6	2748.2	2954.3	3014.1	3433.7	3536.2	3516.7
1937.0	47.5°	2060.2	2157.8	2370.1	2592.1	2820.2	2811.6	3188.5	3381.3	3354.4
1752.8	50°	1812.6	1983.4	2083.4	2287.1	2627.4	2650.6	2927.5	3199.5	3177.6
1489.4	52.5°	1528.4	1743.1	1934.6	2121.2	2432.3	2487.2	2684.8	3014.1	2999.5
1138.1	55°	1335.7	1491.8	1707.7	1857.7	2195.6	2342.0	2503.0	2837.2	2829.9
935.6	57.5°	950.2	1251.5	1429.6	1639.4	1817.5	2082.2	2201.7	2477.4	2409.1
518.4	60°	644.1	785.5	1002.7	1228.3	1347.9	1612.6	1723.6	1944.4	1926.1
309.8	62.5°	340.3	470.8	625.8	739.2	825.8	1083.2	1129.5	1367.4	1361.3
124.4	65°	150.0	198.8	339.1	397.7	486.7	606.2	646.5	731.9	711.1
61.0	67.5°	78.1	118.3	191.5	235.4	296.4	341.5	374.5	401.3	418.4
40.3	70°	47.6	86.6	118.3	163.5	203.7	240.3	265.9	302.5	324.5
20.7	72.5°	35.4	54.9	81.7	125.6	147.6	190.3	215.9	242.7	262.3
17.1	75°	19.5	36.6	65.9	98.8	118.3	154.9	178.1	196.4	202.5
9.8	77.5°	12.2	28.1	54.9	76.8	92.7	125.6	119.5	136.6	151.3
7.3	80°	8.5	20.7	42.7	63.4	64.6	80.5	95.1	109.8	119.5
4.9	82.5°	6.1	17.1	31.7	48.8	42.7	62.2	74.4	85.4	62.2
3.7	85°	4.9	12.2	15.9	29.3	24.4	43.9	37.8	36.6	24.4
2.4	87.5°	3.7	6.1	11.0	13.4	9.8	9.8	12.2	14.6	12.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
3581.3  
3492.3  
3516.7  
3537.4  
3567.9  
3630.1  
3735.0  
3872.8  
4024.1  
4151.0  
4218.0  
4141.2  
4064.4  
3992.4  
3916.8  
3828.9  
3733.8  
3631.3  
3519.1  
3373.9  
3181.2  
3009.2  
2838.5  
2401.8  
1927.3  
1362.5  
702.6  
418.4  
325.7  
265.9  
198.8  
153.7  
120.8  
45.1  
24.4  
12.2  
0.0

(END OF REPORT)