

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: P638509

Luminaire Tested: **IFLD-S-SA2D-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638509  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8473.4 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

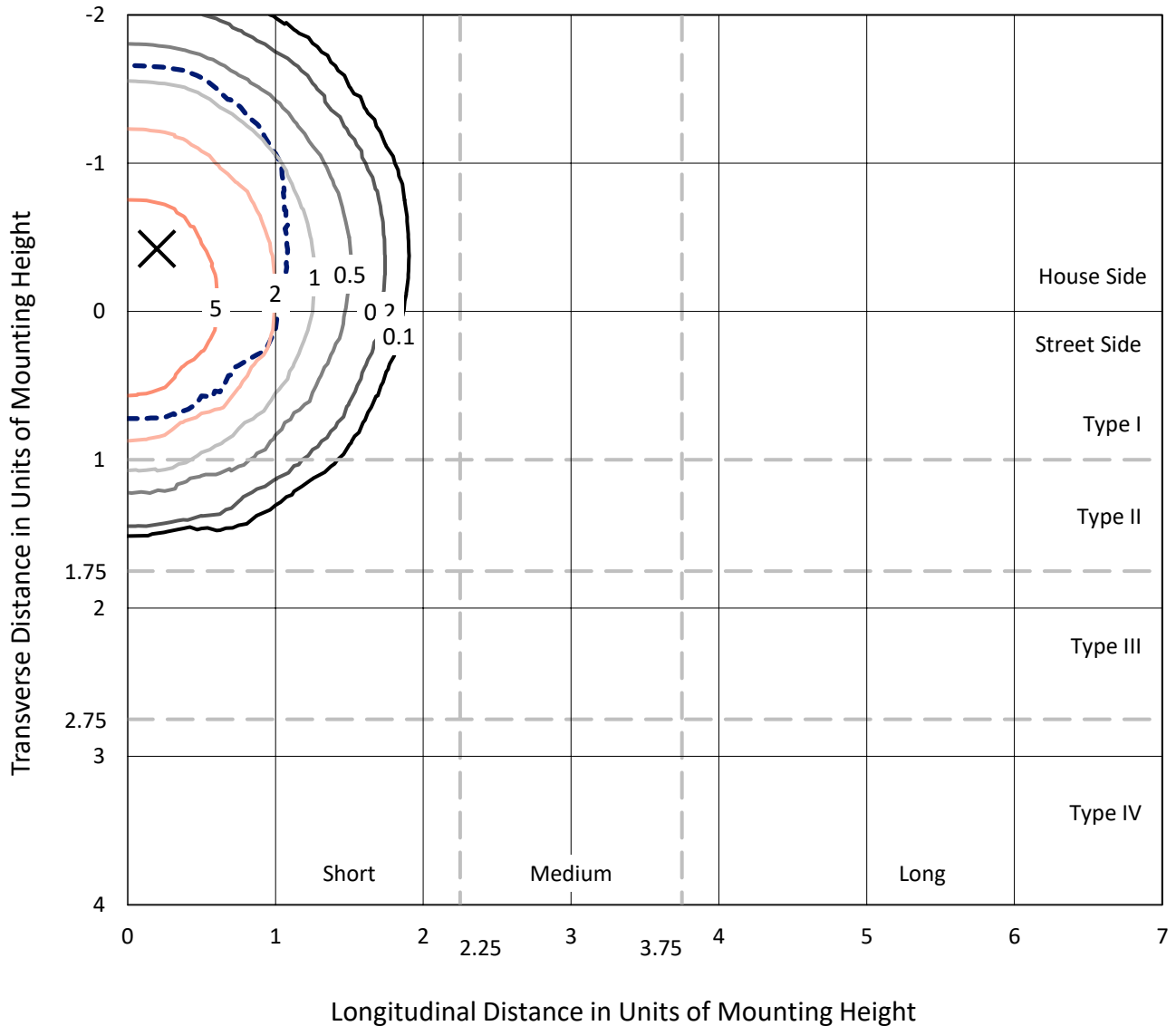
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

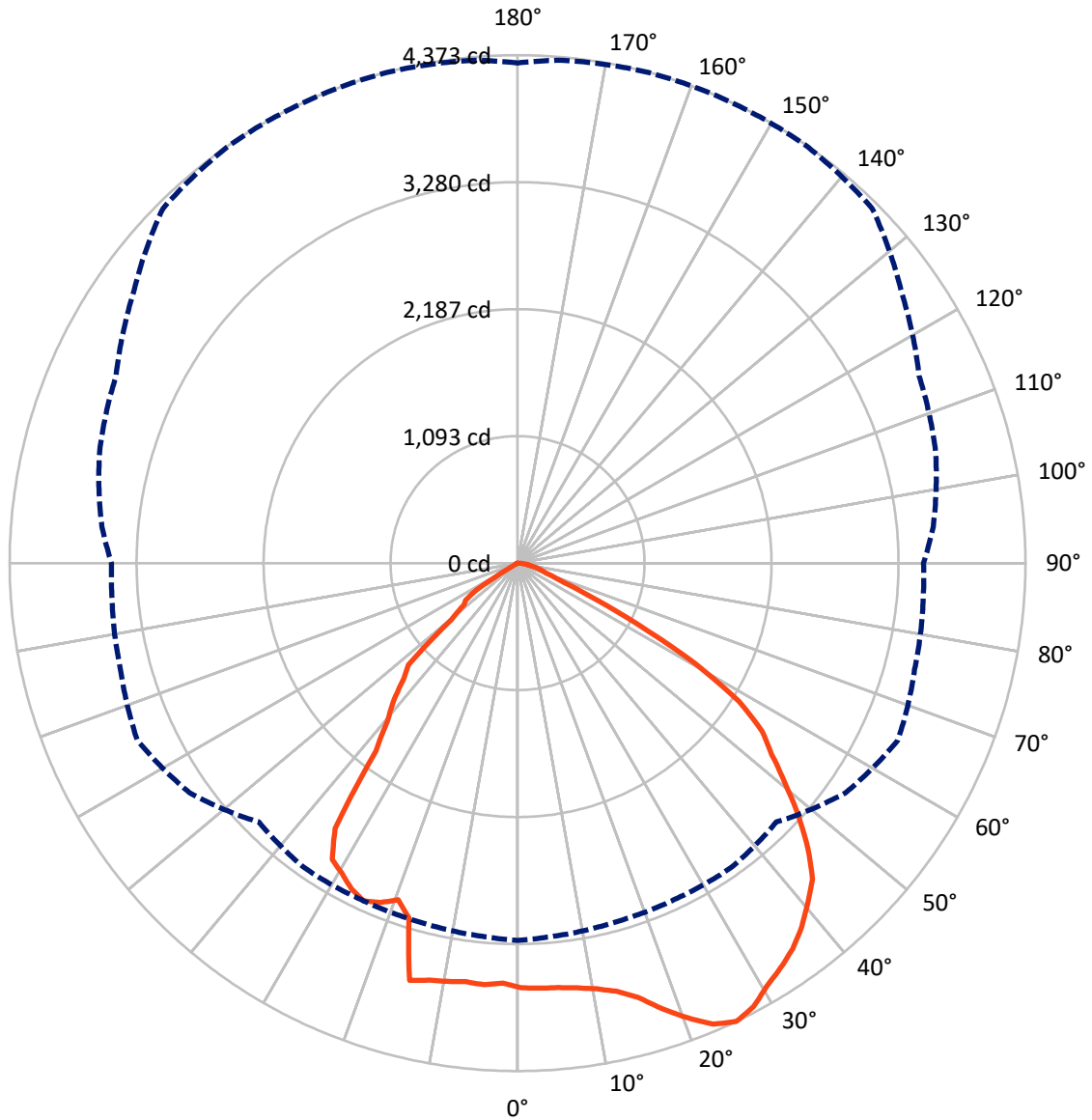
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	5245.9	0.0	5245.9
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3227.5	0.0	3227.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	8473.4	0.0	8473.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.8	4.1
10°-20°	1071.0	12.6
20°-30°	1693.2	20.0
30°-40°	1912.6	22.6
40°-50°	1791.2	21.1
50°-60°	1234.9	14.6
60°-70°	331.8	3.9
70°-80°	69.1	0.8
80°-90°	18.7	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°	8473.4	100.0
0°-180°	8473.4	100.0



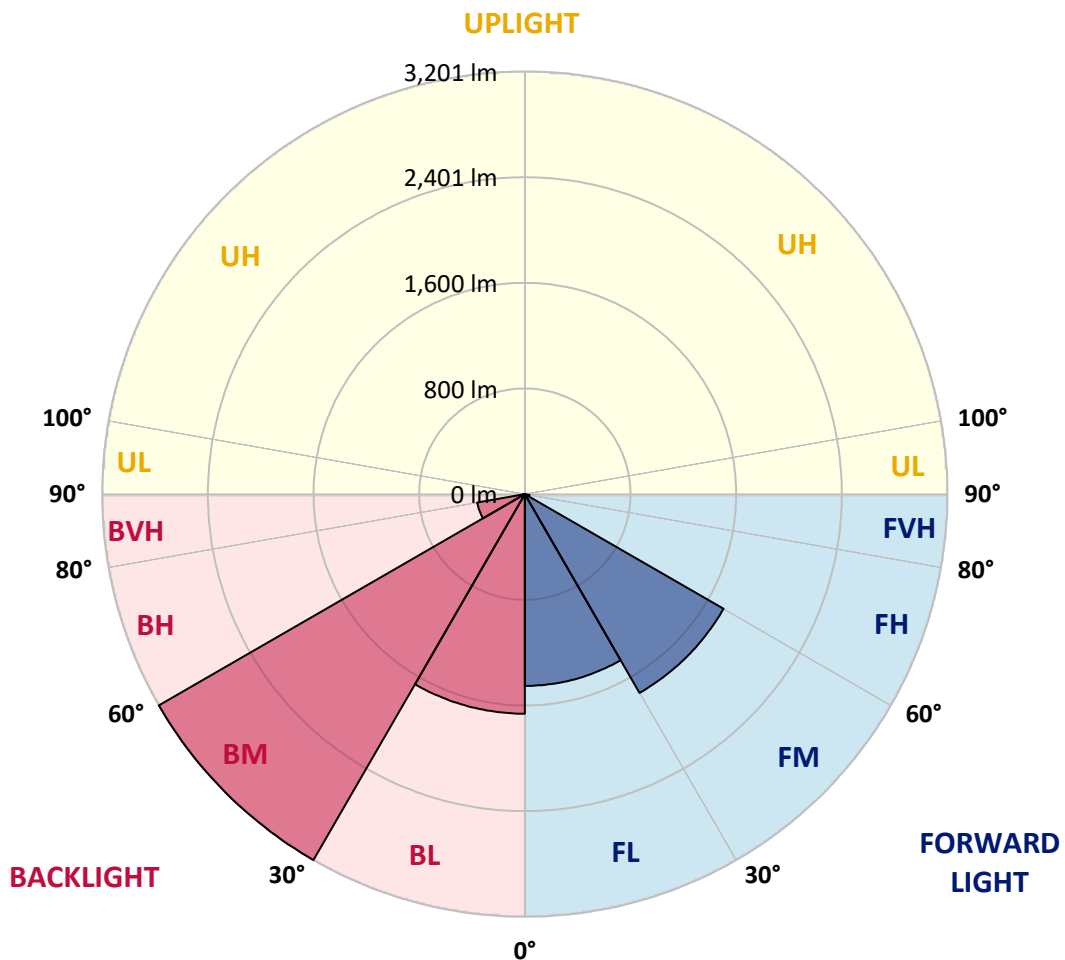
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.1	17.1			
FM (30°-60°)	1738.1	20.5			
FH (60°-80°)	34.8	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1662.9	19.6	B3/2500		
BM (30°-60°)	3200.7	37.8	B3/5000		
BH (60°-80°)	366.1	4.3	B1/500		G1/500
BVH (80°-90°)	16.2	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°	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1
2.5°	3672.3	3648.7	3626.2	3618.8	3649.9	3683.5	3662.4	3663.6	3656.1	3669.8
5°	3699.7	3667.3	3652.4	3641.2	3646.2	3681.0	3651.2	3662.4	3649.9	3666.1
7.5°	3689.8	3667.3	3652.4	3631.2	3647.4	3688.5	3659.9	3661.1	3654.9	3669.8
10°	3683.5	3667.3	3648.7	3651.2	3669.8	3704.7	3682.3	3694.7	3686.0	3694.7
12.5°	3698.5	3681.0	3671.1	3671.1	3687.3	3727.1	3715.9	3727.1	3723.4	3730.8
15°	3557.8	3573.9	3668.6	3710.9	3743.3	3783.2	3778.2	3789.4	3791.9	3803.1
17.5°	3001.1	2984.9	2977.5	3195.4	3774.4	3897.7	3894.0	3892.7	3880.3	3871.6
20°	3074.6	3068.4	3059.6	3075.8	3140.6	3957.5	3982.4	3829.2	3784.4	3780.7
22.5°	3191.6	3181.7	3149.3	3150.5	3170.5	3440.7	3859.1	3719.6	3704.7	3696.0
25°	3248.9	3229.0	3202.9	3195.4	3201.6	3151.8	3446.9	3612.5	3539.1	3505.5
27.5°	3148.1	3149.3	3128.1	3148.1	3124.4	2900.2	2774.5	3403.3	3400.9	3385.9
30°	3072.1	3068.4	3043.5	3068.4	2905.2	2654.9	2601.4	3174.2	3148.1	3128.1
32.5°	2839.2	2841.7	2913.9	3011.1	2743.3	2545.3	2383.5	2835.5	3083.3	3072.1
35°	2031.0	2036.0	2292.6	2772.0	2498.0	2327.4	2315.0	2450.7	2981.2	2986.2
37.5°	1955.1	1955.1	1948.9	2027.3	2305.0	2239.0	2263.9	2250.2	2730.9	2743.3
40°	1900.3	1889.1	1880.4	1757.1	1602.7	2176.7	2194.2	2131.9	2581.5	2583.9
42.5°	1834.3	1821.8	1824.3	1596.4	1434.6	2022.3	1973.8	1890.3	2332.4	2334.9
45°	1713.5	1734.7	1749.6	1397.2	1384.7	1444.5	1820.6	1768.3	2164.3	2210.4
47.5°	871.7	890.4	1366.1	1285.1	1313.8	1283.9	1537.9	1539.2	1800.7	1953.8
50°	790.8	785.8	787.0	749.7	1212.9	1038.6	1112.0	1410.9	1442.0	1661.2
52.5°	737.2	736.0	660.0	586.5	762.1	914.0	806.9	1021.1	1072.2	1407.2
55°	545.4	585.3	520.5	551.7	476.9	732.2	728.5	921.5	938.9	1128.2
57.5°	5.0	6.2	14.9	419.7	330.0	366.1	503.1	628.9	660.0	879.2
60°	1.2	2.5	6.2	12.5	214.2	225.4	336.2	363.6	409.7	524.3
62.5°	0.0	0.0	2.5	6.2	11.2	92.2	107.1	117.1	180.6	267.7
65°	0.0	0.0	1.2	3.7	6.2	14.9	26.2	54.8	78.5	97.1
67.5°	0.0	0.0	1.2	2.5	5.0	7.5	14.9	21.2	33.6	57.3
70°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	14.9	19.9	28.6
72.5°	0.0	0.0	1.2	2.5	2.5	7.5	7.5	11.2	14.9	18.7
75°	0.0	0.0	1.2	1.2	2.5	5.0	7.5	8.7	10.0	14.9
77.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	10.0	8.7	8.7
80°	0.0	0.0	1.2	3.7	3.7	6.2	7.5	10.0	6.2	6.2
82.5°	0.0	0.0	1.2	5.0	3.7	12.5	12.5	13.7	5.0	5.0
85°	0.0	0.0	3.7	2.5	7.5	12.5	11.2	7.5	6.2	3.7
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	8.7	7.5	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°
3656.1	0°	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1
3633.7	2.5°	3683.5	3667.3	3701.0	3697.2	3681.0	3673.6	3664.8	3657.4	3602.6
3636.2	5°	3684.8	3659.9	3701.0	3693.5	3691.0	3678.5	3671.1	3682.3	3632.5
3646.2	7.5°	3684.8	3659.9	3704.7	3707.2	3703.5	3693.5	3692.2	3699.7	3658.6
3663.6	10°	3709.7	3699.7	3737.1	3740.8	3735.8	3733.3	3727.1	3722.1	3678.5
3723.4	12.5°	3762.0	3742.1	3784.4	3795.6	3791.9	3798.1	3783.2	3790.6	3745.8
3784.4	15°	3825.5	3826.7	3859.1	3884.0	3881.5	3901.5	3879.0	3899.0	3866.6
3854.1	17.5°	3922.6	3936.3	3982.4	4019.8	4033.5	4048.4	4033.5	4039.7	3993.6
3776.9	20°	3820.5	3871.6	4093.2	4161.7	4190.4	4204.1	4179.1	4186.6	4140.5
3682.3	22.5°	3728.4	3794.4	3991.1	4205.3	4293.7	4321.1	4312.4	4311.1	4293.7
3495.5	25°	3592.6	3725.9	3814.3	4040.9	4318.6	4368.4	4373.4	4372.2	4346.0
3380.9	27.5°	3425.8	3455.6	3684.8	3823.0	4144.3	4333.6	4326.1	4290.0	4255.1
3143.1	30°	3212.8	3348.5	3451.9	3672.3	3918.9	4226.5	4226.5	4199.1	4163.0
3058.4	32.5°	3104.5	3280.1	3375.9	3455.6	3666.1	4106.9	4156.7	4128.1	4099.5
2992.4	35°	3047.2	3073.3	3297.5	3369.7	3547.8	3876.5	4078.3	4049.6	4028.5
2816.8	37.5°	2921.4	2982.4	3087.0	3280.1	3334.9	3688.5	3973.7	3958.7	3933.8
2588.9	40°	2641.2	2804.4	2965.0	3148.1	3205.3	3446.9	3846.7	3852.9	3819.3
2346.1	42.5°	2475.6	2586.4	2838.0	2961.3	3115.7	3291.3	3723.4	3733.3	3709.7
2222.8	45°	2281.3	2404.6	2581.5	2805.6	3016.1	3077.1	3505.5	3610.1	3590.1
1977.5	47.5°	2103.3	2202.9	2419.6	2646.2	2879.1	2870.4	3255.2	3451.9	3424.5
1789.5	50°	1850.5	2024.8	2126.9	2334.9	2682.3	2706.0	2988.7	3266.4	3243.9
1520.5	52.5°	1560.3	1779.5	1975.0	2165.5	2483.1	2539.1	2740.9	3077.1	3062.1
1161.8	55°	1363.6	1523.0	1743.4	1896.6	2241.5	2390.9	2555.3	2896.5	2889.0
955.1	57.5°	970.1	1277.7	1459.5	1673.7	1855.5	2125.7	2247.7	2529.2	2459.4
529.2	60°	657.5	802.0	1023.6	1254.0	1376.0	1646.3	1759.6	1985.0	1966.3
316.3	62.5°	347.4	480.7	638.8	754.6	843.1	1105.8	1153.1	1396.0	1389.7
127.0	65°	153.2	203.0	346.2	406.0	496.9	618.9	660.0	747.2	726.0
62.3	67.5°	79.7	120.8	195.5	240.3	302.6	348.7	382.3	409.7	427.1
41.1	70°	48.6	88.4	120.8	166.9	208.0	245.3	271.5	308.8	331.2
21.2	72.5°	36.1	56.0	83.4	128.3	150.7	194.3	220.4	247.8	267.7
17.4	75°	19.9	37.4	67.2	100.9	120.8	158.2	181.8	200.5	206.7
10.0	77.5°	12.5	28.6	56.0	78.5	94.6	128.3	122.0	139.5	154.4
7.5	80°	8.7	21.2	43.6	64.8	66.0	82.2	97.1	112.1	122.0
5.0	82.5°	6.2	17.4	32.4	49.8	43.6	63.5	76.0	87.2	63.5
3.7	85°	5.0	12.5	16.2	29.9	24.9	44.8	38.6	37.4	24.9
2.5	87.5°	3.7	6.2	11.2	13.7	10.0	10.0	12.5	14.9	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
3656.1  
3565.2  
3590.1  
3611.3  
3642.4  
3705.9  
3813.0  
3953.8  
4108.2  
4237.7  
4306.2  
4227.7  
4149.3  
4075.8  
3998.6  
3908.9  
3811.8  
3707.2  
3592.6  
3444.4  
3247.7  
3072.1  
2897.8  
2451.9  
1967.5  
1391.0  
717.3  
427.1  
332.5  
271.5  
203.0  
156.9  
123.3  
46.1  
24.9  
12.5  
0.0

(END OF REPORT)