

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: P636857

Luminaire Tested: **IFLD-S-SA2E-927-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636857  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-927-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8445.5 lumens  
Efficiency: N/A  
Efficacy: 54.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

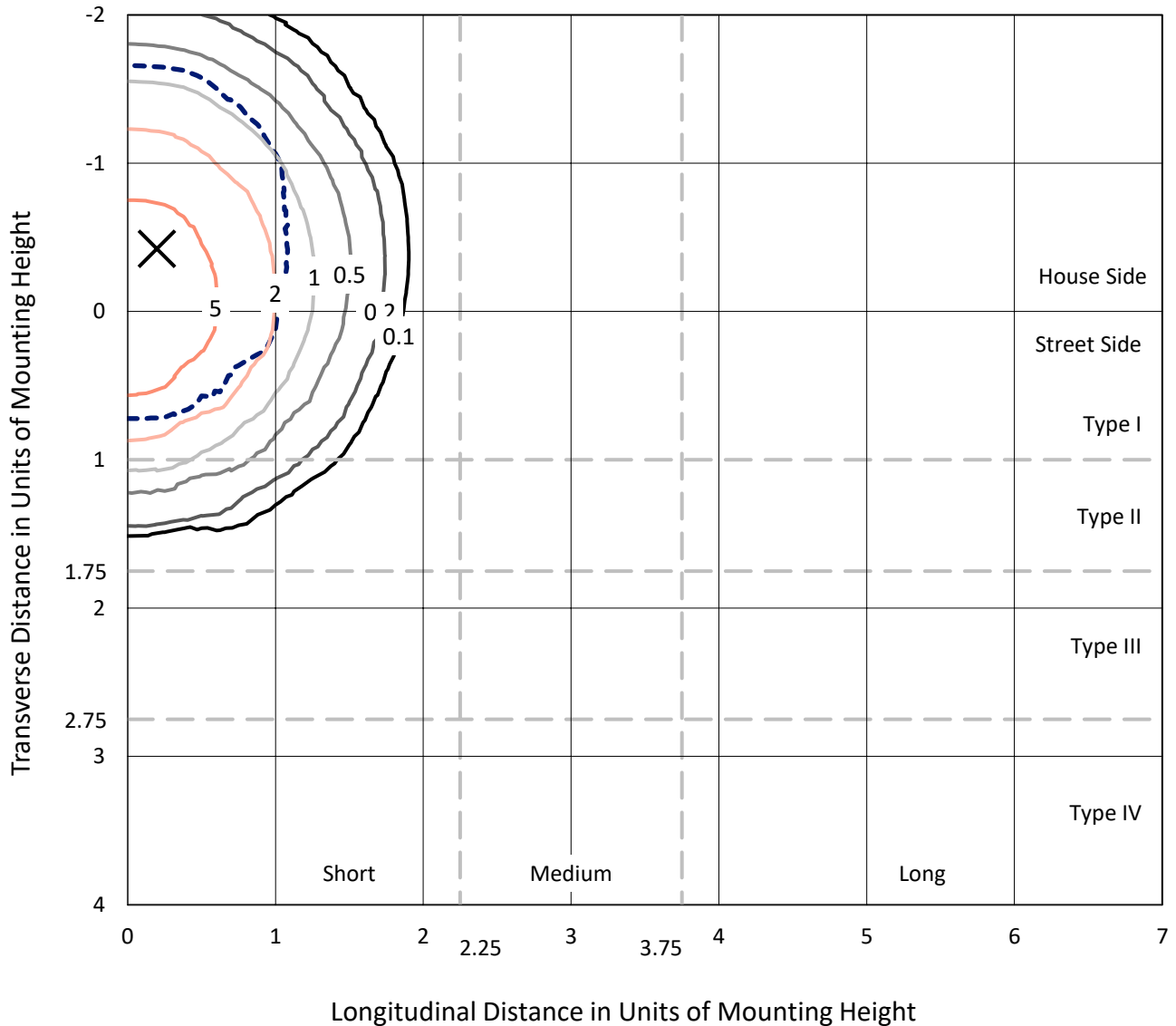
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

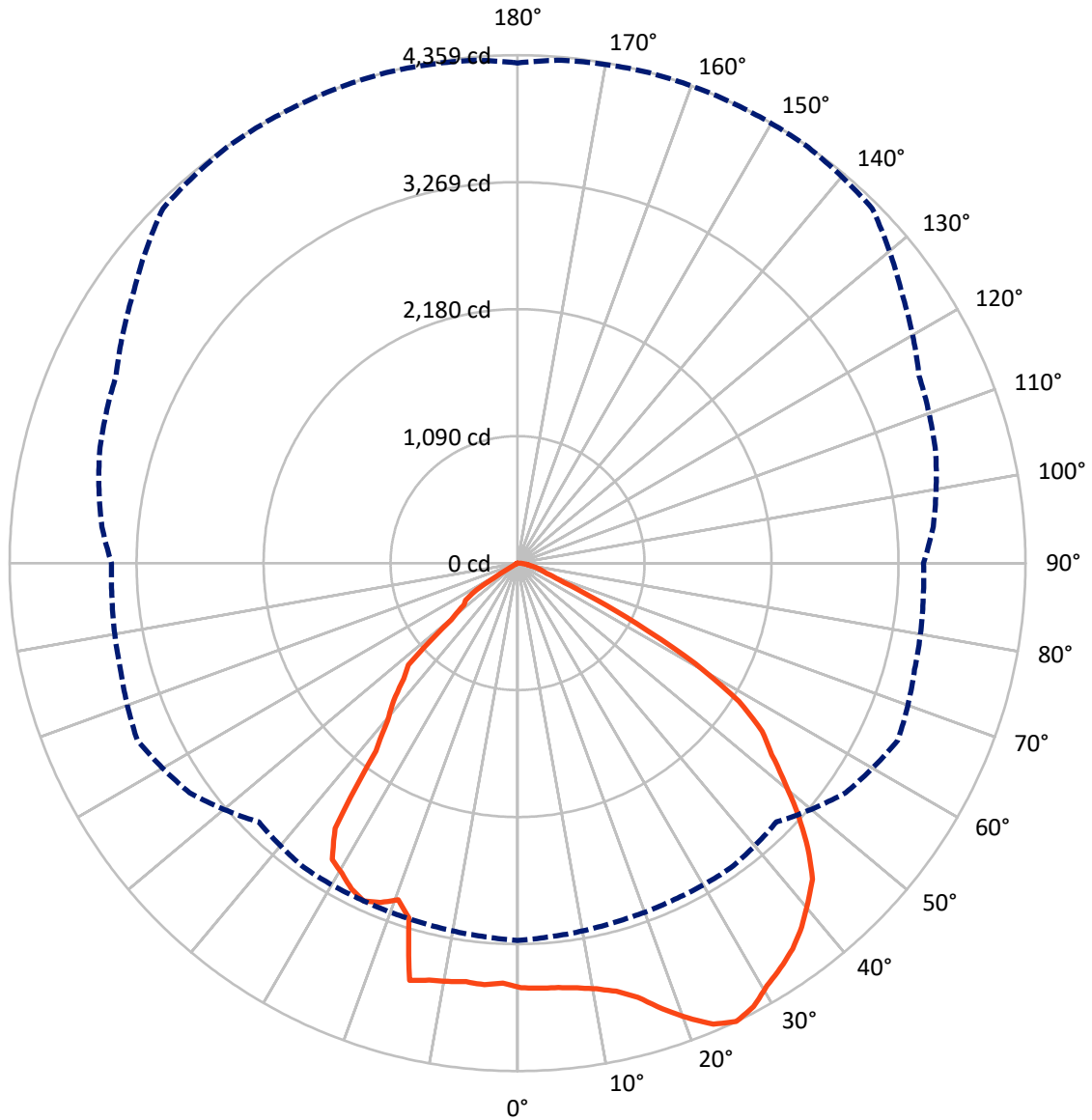
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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	5228.6	0.0	5228.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3216.9	0.0	3216.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	8445.5	0.0	8445.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.6	4.1
10°-20°	1067.5	12.6
20°-30°	1687.6	20.0
30°-40°	1906.3	22.6
40°-50°	1785.3	21.1
50°-60°	1230.8	14.6
60°-70°	330.7	3.9
70°-80°	68.9	0.8
80°-90°	18.6	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°	8445.5	100.0
0°-180°	8445.5	100.0



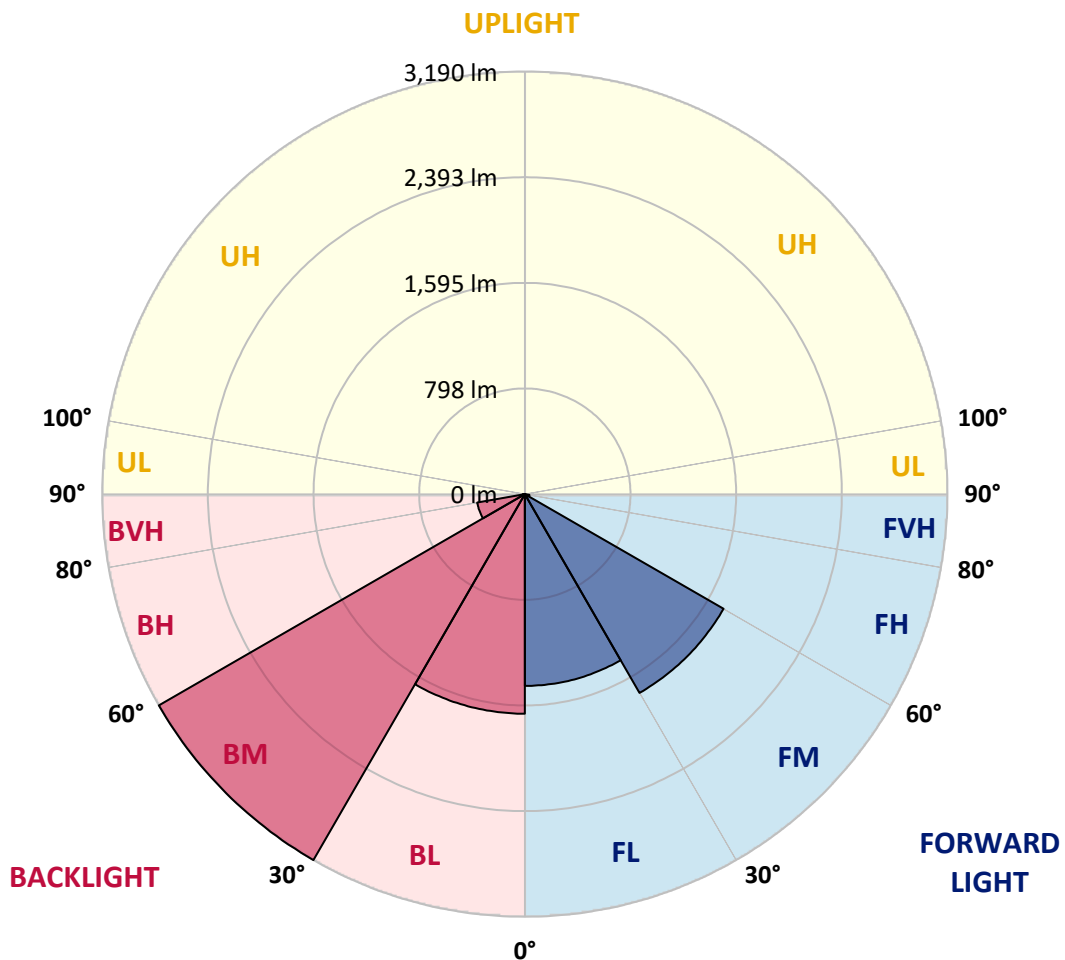
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.3	17.1			
FM (30°-60°)	1732.4	20.5			
FH (60°-80°)	34.7	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1657.4	19.6	B3/2500		
BM (30°-60°)	3190.1	37.8	B3/5000		
BH (60°-80°)	364.9	4.3	B1/500		G1/500
BVH (80°-90°)	16.1	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°	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1
2.5°	3660.2	3636.6	3614.3	3606.8	3637.9	3671.4	3650.3	3651.5	3644.1	3657.7
5°	3687.5	3655.2	3640.4	3629.2	3634.1	3668.9	3639.1	3650.3	3637.9	3654.0
7.5°	3677.6	3655.2	3640.4	3619.3	3635.4	3676.3	3647.8	3649.0	3642.8	3657.7
10°	3671.4	3655.2	3636.6	3639.1	3657.7	3692.5	3670.1	3682.6	3673.9	3682.6
12.5°	3686.3	3668.9	3659.0	3659.0	3675.1	3714.8	3703.7	3714.8	3711.1	3718.5
15°	3546.0	3562.2	3656.5	3698.7	3731.0	3770.7	3765.7	3776.9	3779.4	3790.5
17.5°	2991.2	2975.1	2967.6	3184.8	3762.0	3884.9	3881.1	3879.9	3867.5	3858.8
20°	3064.5	3058.2	3049.6	3065.7	3130.2	3944.4	3969.3	3816.6	3771.9	3768.2
22.5°	3181.1	3171.2	3138.9	3140.2	3160.0	3429.4	3846.4	3707.4	3692.5	3683.8
25°	3238.2	3218.4	3192.3	3184.8	3191.1	3141.4	3435.6	3600.6	3527.4	3493.9
27.5°	3137.7	3138.9	3117.8	3137.7	3114.1	2890.7	2765.3	3392.1	3389.6	3374.7
30°	3062.0	3058.2	3033.4	3058.2	2895.7	2646.2	2592.8	3163.7	3137.7	3117.8
32.5°	2829.9	2832.4	2904.3	3001.2	2734.3	2537.0	2375.6	2826.1	3073.1	3062.0
35°	2024.3	2029.3	2285.0	2762.8	2489.8	2319.7	2307.3	2442.6	2971.4	2976.3
37.5°	1948.6	1948.6	1942.4	2020.6	2297.4	2231.6	2256.4	2242.8	2721.9	2734.3
40°	1894.0	1882.9	1874.2	1751.3	1597.4	2169.6	2186.9	2124.9	2572.9	2575.4
42.5°	1828.2	1815.8	1818.3	1591.2	1429.8	2015.7	1967.3	1884.1	2324.7	2327.2
45°	1707.9	1729.0	1743.8	1392.6	1380.2	1439.8	1814.6	1762.5	2157.2	2203.1
47.5°	868.8	887.4	1361.6	1280.9	1309.4	1279.6	1532.8	1534.1	1794.7	1947.4
50°	788.1	783.2	784.4	747.2	1208.9	1035.1	1108.4	1406.2	1437.3	1655.7
52.5°	734.8	733.5	657.8	584.6	759.6	911.0	804.3	1017.8	1068.6	1402.5
55°	543.6	583.4	518.8	549.8	475.4	729.8	726.1	918.5	935.8	1124.5
57.5°	5.0	6.2	14.9	418.3	328.9	364.9	501.4	626.8	657.8	876.3
60°	1.2	2.5	6.2	12.4	213.5	224.7	335.1	362.4	408.3	522.5
62.5°	0.0	0.0	2.5	6.2	11.2	91.8	106.7	116.7	180.0	266.9
65°	0.0	0.0	1.2	3.7	6.2	14.9	26.1	54.6	78.2	96.8
67.5°	0.0	0.0	1.2	2.5	5.0	7.4	14.9	21.1	33.5	57.1
70°	0.0	0.0	1.2	2.5	3.7	6.2	9.9	14.9	19.9	28.5
72.5°	0.0	0.0	1.2	2.5	2.5	7.4	7.4	11.2	14.9	18.6
75°	0.0	0.0	1.2	1.2	2.5	5.0	7.4	8.7	9.9	14.9
77.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	9.9	8.7	8.7
80°	0.0	0.0	1.2	3.7	3.7	6.2	7.4	9.9	6.2	6.2
82.5°	0.0	0.0	1.2	5.0	3.7	12.4	12.4	13.7	5.0	5.0
85°	0.0	0.0	3.7	2.5	7.4	12.4	11.2	7.4	6.2	3.7
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	8.7	7.4	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°
3644.1	0°	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1	3644.1
3621.7	2.5°	3671.4	3655.2	3688.8	3685.0	3668.9	3661.5	3652.8	3645.3	3590.7
3624.2	5°	3672.6	3647.8	3688.8	3681.3	3678.8	3666.4	3659.0	3670.1	3620.5
3634.1	7.5°	3672.6	3647.8	3692.5	3695.0	3691.2	3681.3	3680.1	3687.5	3646.6
3651.5	10°	3697.4	3687.5	3724.8	3728.5	3723.5	3721.0	3714.8	3709.9	3666.4
3711.1	12.5°	3749.6	3729.7	3771.9	3783.1	3779.4	3785.6	3770.7	3778.1	3733.4
3771.9	15°	3812.9	3814.1	3846.4	3871.2	3868.7	3888.6	3866.2	3886.1	3853.8
3841.4	17.5°	3909.7	3923.3	3969.3	4006.5	4020.2	4035.0	4020.2	4026.4	3980.4
3764.5	20°	3807.9	3858.8	4079.7	4148.0	4176.5	4190.2	4165.4	4172.8	4126.9
3670.1	22.5°	3716.1	3781.8	3978.0	4191.4	4279.6	4306.9	4298.2	4296.9	4279.6
3484.0	25°	3580.8	3713.6	3801.7	4027.6	4304.4	4354.0	4359.0	4357.8	4331.7
3369.8	27.5°	3414.5	3444.2	3672.6	3810.4	4130.6	4319.3	4311.8	4275.8	4241.1
3132.7	30°	3202.2	3337.5	3440.5	3660.2	3906.0	4212.5	4212.5	4185.2	4149.2
3048.3	32.5°	3094.2	3269.2	3364.8	3444.2	3654.0	4093.4	4143.0	4114.5	4085.9
2982.5	35°	3037.1	3063.2	3286.6	3358.6	3536.1	3863.8	4064.8	4036.3	4015.2
2807.5	37.5°	2911.8	2972.6	3076.9	3269.2	3323.9	3676.3	3960.6	3945.7	3920.9
2580.4	40°	2632.5	2795.1	2955.2	3137.7	3194.8	3435.6	3834.0	3840.2	3806.7
2338.4	42.5°	2467.4	2577.9	2828.6	2951.5	3105.4	3280.4	3711.1	3721.0	3697.4
2215.5	45°	2273.8	2396.7	2572.9	2796.4	3006.1	3066.9	3493.9	3598.2	3578.3
1971.0	47.5°	2096.3	2195.6	2411.6	2637.5	2869.6	2860.9	3244.4	3440.5	3413.2
1783.6	50°	1844.4	2018.1	2119.9	2327.2	2673.5	2697.1	2978.8	3255.6	3233.3
1515.5	52.5°	1555.2	1773.6	1968.5	2158.4	2474.9	2530.7	2731.8	3066.9	3052.0
1158.0	55°	1359.1	1518.0	1737.6	1890.3	2234.1	2383.0	2546.9	2887.0	2879.5
952.0	57.5°	966.9	1273.4	1454.7	1668.1	1849.3	2118.7	2240.3	2520.8	2451.3
527.5	60°	655.3	799.3	1020.2	1249.9	1371.5	1640.8	1753.8	1978.4	1959.8
315.3	62.5°	346.3	479.1	636.7	752.1	840.3	1102.2	1149.3	1391.4	1385.1
126.6	65°	152.7	202.3	345.0	404.6	495.2	616.9	657.8	744.7	723.6
62.1	67.5°	79.4	120.4	194.9	239.5	301.6	347.5	381.0	408.3	425.7
41.0	70°	48.4	88.1	120.4	166.3	207.3	244.5	270.6	307.8	330.2
21.1	72.5°	36.0	55.9	83.2	127.8	150.2	193.6	219.7	247.0	266.9
17.4	75°	19.9	37.2	67.0	100.5	120.4	157.6	181.2	199.8	206.0
9.9	77.5°	12.4	28.5	55.9	78.2	94.3	127.8	121.6	139.0	153.9
7.4	80°	8.7	21.1	43.4	64.5	65.8	81.9	96.8	111.7	121.6
5.0	82.5°	6.2	17.4	32.3	49.6	43.4	63.3	75.7	86.9	63.3
3.7	85°	5.0	12.4	16.1	29.8	24.8	44.7	38.5	37.2	24.8
2.5	87.5°	3.7	6.2	11.2	13.7	9.9	9.9	12.4	14.9	12.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
3644.1
3553.5
3578.3
3599.4
3630.4
3693.7
3800.5
3940.7
4094.6
4223.7
4292.0
4213.8
4135.6
4062.4
3985.4
3896.0
3799.2
3695.0
3580.8
3433.1
3237.0
3062.0
2888.2
2443.9
1961.0
1386.4
714.9
425.7
331.4
270.6
202.3
156.4
122.9
45.9
24.8
12.4
0.0

(END OF REPORT)