

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: P638307

Luminaire Tested: **IFLD-S-SA2E-722-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638307  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-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: 9826.2 lumens  
Efficiency: N/A  
Efficacy: 62.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

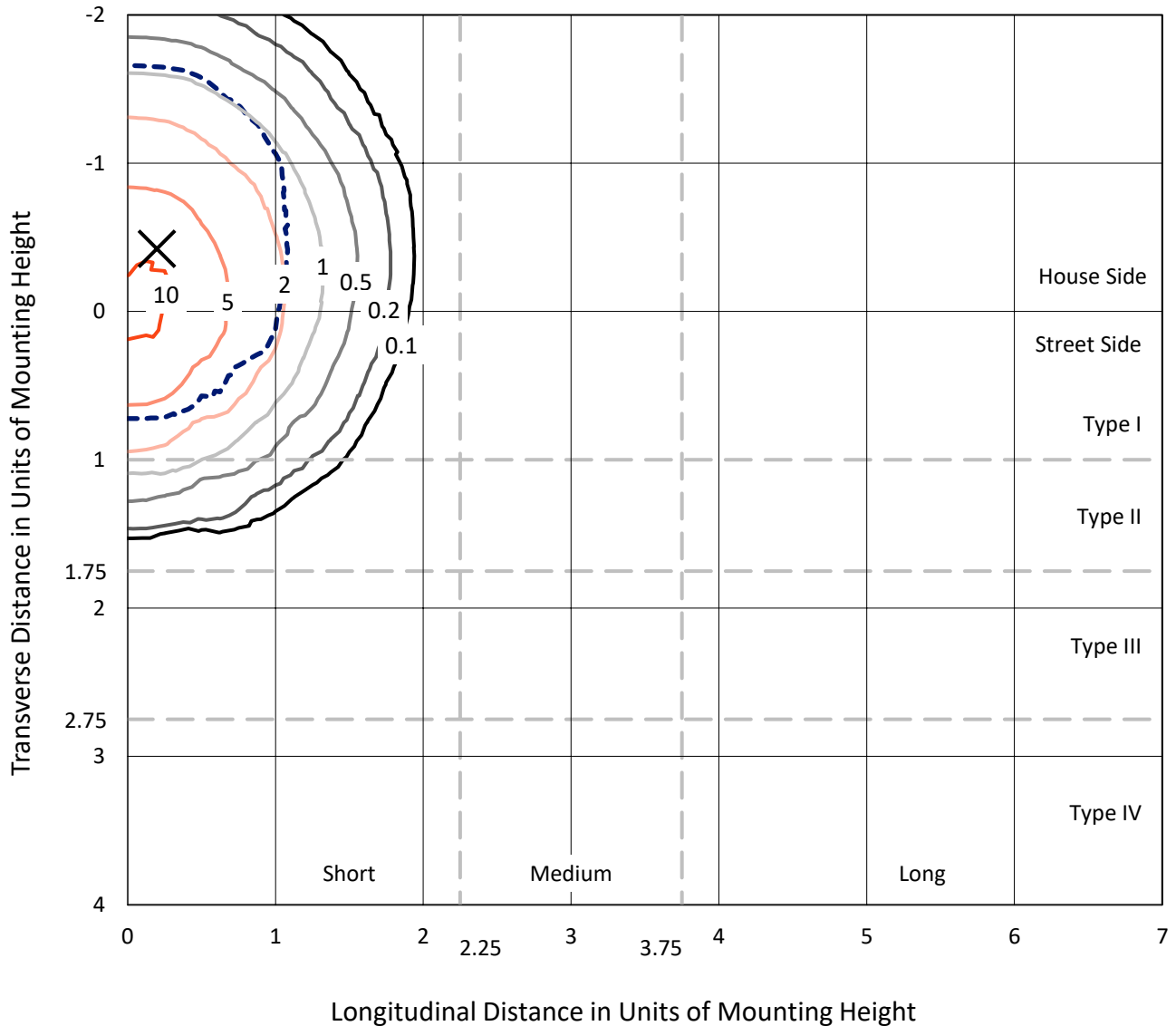
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

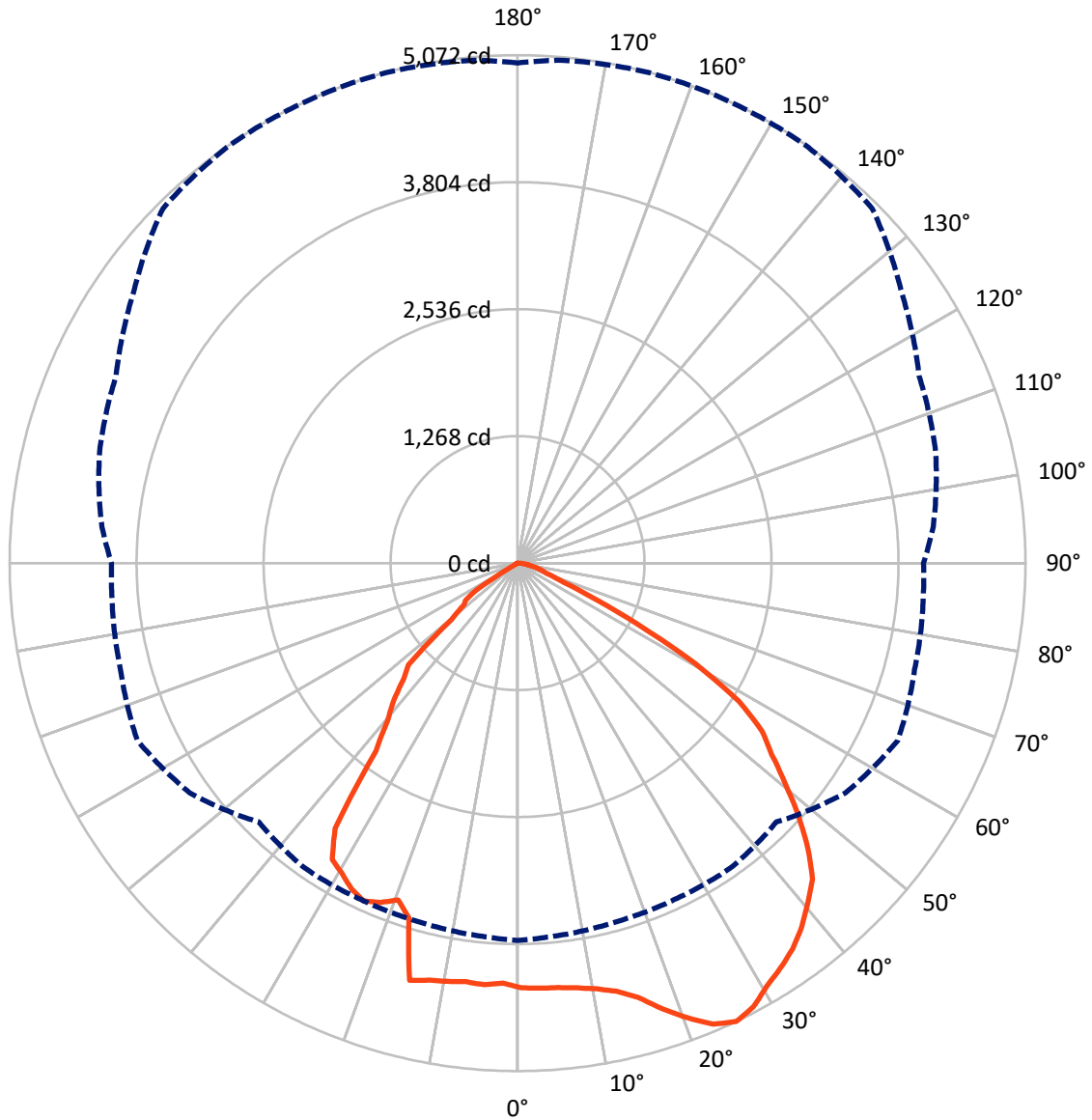
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 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	6083.4	0.0	6083.4
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3742.8	0.0	3742.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	9826.2	0.0	9826.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.8	4.1
10°-20°	1242.0	12.6
20°-30°	1963.5	20.0
30°-40°	2218.0	22.6
40°-50°	2077.2	21.1
50°-60°	1432.1	14.6
60°-70°	384.7	3.9
70°-80°	80.2	0.8
80°-90°	21.7	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°	9826.2	100.0
0°-180°	9826.2	100.0



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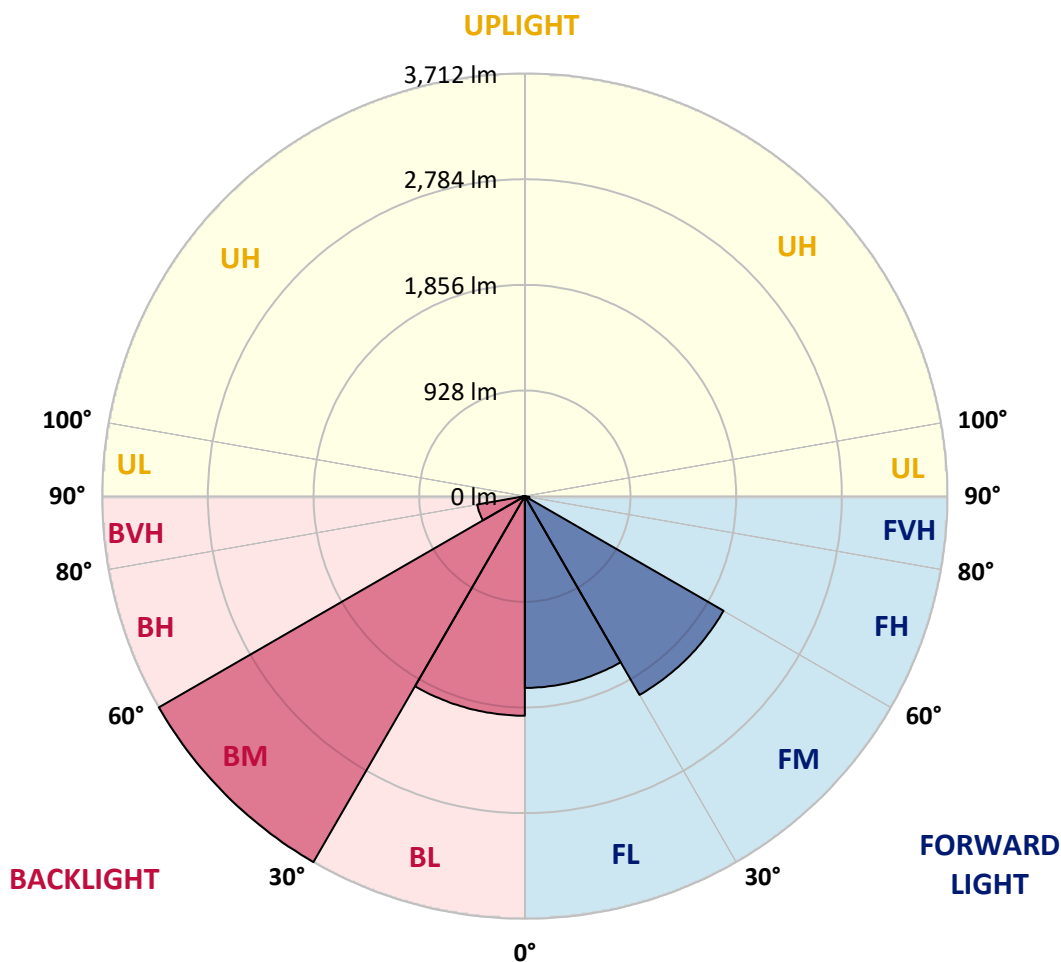
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.9	17.1			
FM (30°-60°)	2015.6	20.5			
FH (60°-80°)	40.4	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1928.4	19.6	B3/2500		
BM (30°-60°)	3711.7	37.8	B3/5000		
BH (60°-80°)	424.5	4.3	B1/500		G1/500
BVH (80°-90°)	18.8	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°	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8
2.5°	4258.6	4231.2	4205.2	4196.5	4232.6	4271.6	4247.0	4248.5	4239.8	4255.7
5°	4290.4	4252.8	4235.5	4222.5	4228.3	4268.7	4234.0	4247.0	4232.6	4251.4
7.5°	4278.8	4252.8	4235.5	4210.9	4229.7	4277.4	4244.1	4245.6	4238.4	4255.7
10°	4271.6	4252.8	4231.2	4234.0	4255.7	4296.1	4270.1	4284.6	4274.5	4284.6
12.5°	4288.9	4268.7	4257.1	4257.1	4275.9	4322.1	4309.1	4322.1	4317.8	4326.5
15°	4125.7	4144.5	4254.3	4303.4	4340.9	4387.1	4381.3	4394.3	4397.2	4410.2
17.5°	3480.2	3461.5	3452.8	3705.5	4377.0	4520.0	4515.6	4514.2	4499.8	4489.6
20°	3565.4	3558.2	3548.1	3566.9	3642.0	4589.3	4618.2	4440.5	4388.6	4384.2
22.5°	3701.2	3689.6	3652.1	3653.5	3676.6	3990.0	4475.2	4313.5	4296.1	4286.0
25°	3767.6	3744.5	3714.2	3705.5	3712.7	3655.0	3997.2	4189.3	4104.1	4065.1
27.5°	3650.6	3652.1	3627.5	3650.6	3623.2	3363.3	3217.4	3946.7	3943.8	3926.5
30°	3562.5	3558.2	3529.3	3558.2	3369.0	3078.8	3016.7	3681.0	3650.6	3627.5
32.5°	3292.5	3295.4	3379.1	3491.8	3181.3	2951.7	2764.0	3288.2	3575.5	3562.5
35°	2355.3	2361.1	2658.5	3214.5	2896.8	2699.0	2684.5	2841.9	3457.1	3462.9
37.5°	2267.2	2267.2	2260.0	2351.0	2673.0	2596.5	2625.3	2609.5	3166.9	3181.3
40°	2203.7	2190.7	2180.6	2037.6	1858.5	2524.3	2544.5	2472.3	2993.6	2996.5
42.5°	2127.1	2112.7	2115.6	1851.3	1663.6	2345.2	2288.9	2192.1	2704.8	2707.6
45°	1987.1	2011.6	2028.9	1620.3	1605.8	1675.1	2111.2	2050.6	2509.8	2563.2
47.5°	1010.9	1032.5	1584.2	1490.3	1523.5	1488.8	1783.4	1784.9	2088.1	2265.8
50°	917.0	911.2	912.7	869.3	1406.5	1204.4	1289.6	1636.1	1672.2	1926.4
52.5°	854.9	853.5	765.4	680.2	883.8	1060.0	935.8	1184.1	1243.4	1631.8
55°	632.5	678.7	603.6	639.7	553.1	849.1	844.8	1068.6	1088.8	1308.3
57.5°	5.8	7.2	17.3	486.7	382.7	424.6	583.4	729.3	765.4	1019.5
60°	1.4	2.9	7.2	14.4	248.4	261.4	389.9	421.7	475.1	608.0
62.5°	0.0	0.0	2.9	7.2	13.0	106.9	124.2	135.7	209.4	310.5
65°	0.0	0.0	1.4	4.3	7.2	17.3	30.3	63.5	91.0	112.6
67.5°	0.0	0.0	1.4	2.9	5.8	8.7	17.3	24.5	39.0	66.4
70°	0.0	0.0	1.4	2.9	4.3	7.2	11.6	17.3	23.1	33.2
72.5°	0.0	0.0	1.4	2.9	2.9	8.7	8.7	13.0	17.3	21.7
75°	0.0	0.0	1.4	1.4	2.9	5.8	8.7	10.1	11.6	17.3
77.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	11.6	10.1	10.1
80°	0.0	0.0	1.4	4.3	4.3	7.2	8.7	11.6	7.2	7.2
82.5°	0.0	0.0	1.4	5.8	4.3	14.4	14.4	15.9	5.8	5.8
85°	0.0	0.0	4.3	2.9	8.7	14.4	13.0	8.7	7.2	4.3
87.5°	0.0	0.0	1.4	1.4	2.9	4.3	10.1	8.7	2.9	2.9
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°
4239.8	0°	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8	4239.8
4213.8	2.5°	4271.6	4252.8	4291.8	4287.5	4268.7	4260.0	4249.9	4241.3	4177.7
4216.7	5°	4273.0	4244.1	4291.8	4283.1	4280.3	4265.8	4257.1	4270.1	4212.4
4228.3	7.5°	4273.0	4244.1	4296.1	4299.0	4294.7	4283.1	4281.7	4290.4	4242.7
4248.5	10°	4301.9	4290.4	4333.7	4338.0	4332.2	4329.3	4322.1	4316.4	4265.8
4317.8	12.5°	4362.6	4339.5	4388.6	4401.6	4397.2	4404.4	4387.1	4395.8	4343.8
4388.6	15°	4436.2	4437.7	4475.2	4504.1	4501.2	4524.3	4498.3	4521.4	4483.9
4469.4	17.5°	4548.8	4564.7	4618.2	4661.5	4677.4	4694.7	4677.4	4684.6	4631.2
4379.9	20°	4430.4	4489.6	4746.7	4826.1	4859.3	4875.2	4846.3	4855.0	4801.6
4270.1	22.5°	4323.6	4400.1	4628.3	4876.7	4979.2	5011.0	5000.8	4999.4	4979.2
4053.5	25°	4166.2	4320.7	4423.2	4686.0	5008.1	5065.8	5071.6	5070.2	5039.8
3920.7	27.5°	3972.7	4007.3	4273.0	4433.3	4805.9	5025.4	5016.7	4974.9	4934.4
3644.9	30°	3725.7	3883.1	4003.0	4258.6	4544.5	4901.2	4901.2	4869.4	4827.6
3546.7	32.5°	3600.1	3803.7	3914.9	4007.3	4251.4	4762.6	4820.3	4787.1	4753.9
3470.1	35°	3533.7	3564.0	3823.9	3907.7	4114.2	4495.4	4729.4	4696.1	4671.6
3266.5	37.5°	3387.8	3458.6	3579.9	3803.7	3867.2	4277.4	4608.1	4590.7	4561.8
3002.2	40°	3062.9	3252.1	3438.4	3650.6	3717.1	3997.2	4460.8	4468.0	4429.0
2720.6	42.5°	2870.8	2999.4	3291.1	3434.0	3613.1	3816.7	4317.8	4329.3	4301.9
2577.7	45°	2645.6	2788.5	2993.6	3253.5	3497.6	3568.3	4065.1	4186.4	4163.3
2293.2	47.5°	2439.0	2554.6	2805.8	3068.7	3338.7	3328.6	3774.8	4003.0	3971.2
2075.1	50°	2145.9	2348.1	2466.5	2707.6	3110.5	3138.0	3465.8	3787.8	3761.8
1763.2	52.5°	1809.4	2063.6	2290.3	2511.3	2879.5	2944.5	3178.4	3568.3	3551.0
1347.3	55°	1581.3	1766.1	2021.7	2199.3	2599.3	2772.6	2963.3	3358.9	3350.3
1107.6	57.5°	1124.9	1481.6	1692.5	1940.8	2151.7	2465.0	2606.6	2932.9	2852.1
613.7	60°	762.5	930.0	1187.0	1454.2	1595.7	1909.1	2040.5	2301.9	2280.2
366.8	62.5°	402.9	557.4	740.8	875.1	977.6	1282.3	1337.2	1618.8	1611.6
147.3	65°	177.6	235.4	401.5	470.8	576.2	717.7	765.4	866.4	841.9
72.2	67.5°	92.4	140.1	226.7	278.7	350.9	404.3	443.3	475.1	495.3
47.7	70°	56.3	102.5	140.1	193.5	241.2	284.5	314.8	358.1	384.1
24.5	72.5°	41.9	65.0	96.8	148.7	174.7	225.3	255.6	287.4	310.5
20.2	75°	23.1	43.3	78.0	117.0	140.1	183.4	210.8	232.5	239.7
11.6	77.5°	14.4	33.2	65.0	91.0	109.8	148.7	141.5	161.7	179.1
8.7	80°	10.1	24.5	50.5	75.1	76.5	95.3	112.6	130.0	141.5
5.8	82.5°	7.2	20.2	37.5	57.8	50.5	73.6	88.1	101.1	73.6
4.3	85°	5.8	14.4	18.8	34.7	28.9	52.0	44.8	43.3	28.9
2.9	87.5°	4.3	7.2	13.0	15.9	11.6	11.6	14.4	17.3	14.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4239.8  
4134.4  
4163.3  
4187.8  
4223.9  
4297.6  
4421.8  
4585.0  
4764.0  
4914.2  
4993.6  
4902.6  
4811.7  
4726.5  
4636.9  
4533.0  
4420.3  
4299.0  
4166.2  
3994.3  
3766.2  
3562.5  
3360.4  
2843.4  
2281.6  
1613.0  
831.8  
495.3  
385.6  
314.8  
235.4  
182.0  
143.0  
53.4  
28.9  
14.4  
0.0

(END OF REPORT)