

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: P638539

Luminaire Tested: **IFLD-S-SA2E-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638539
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10599.9 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

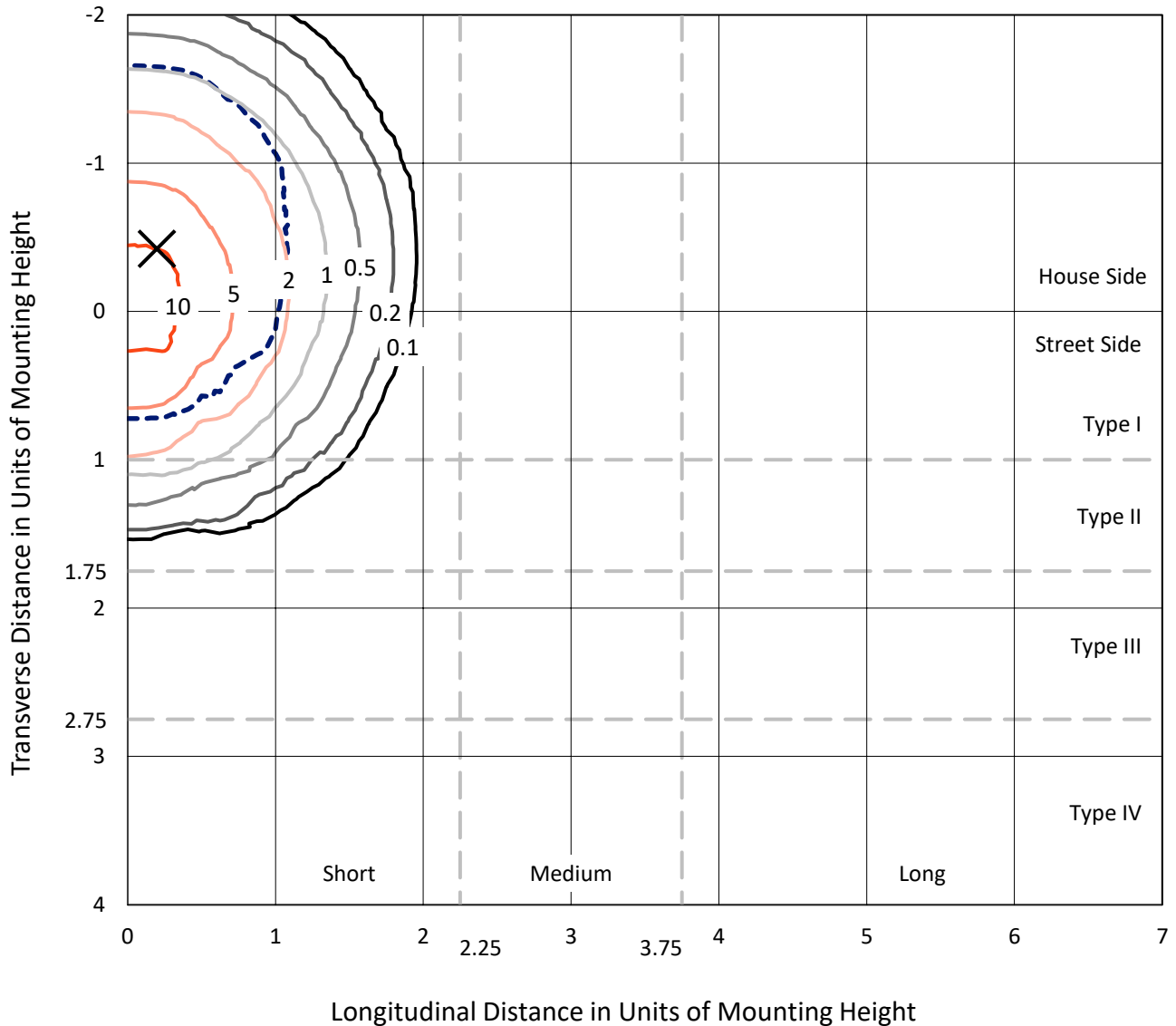
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

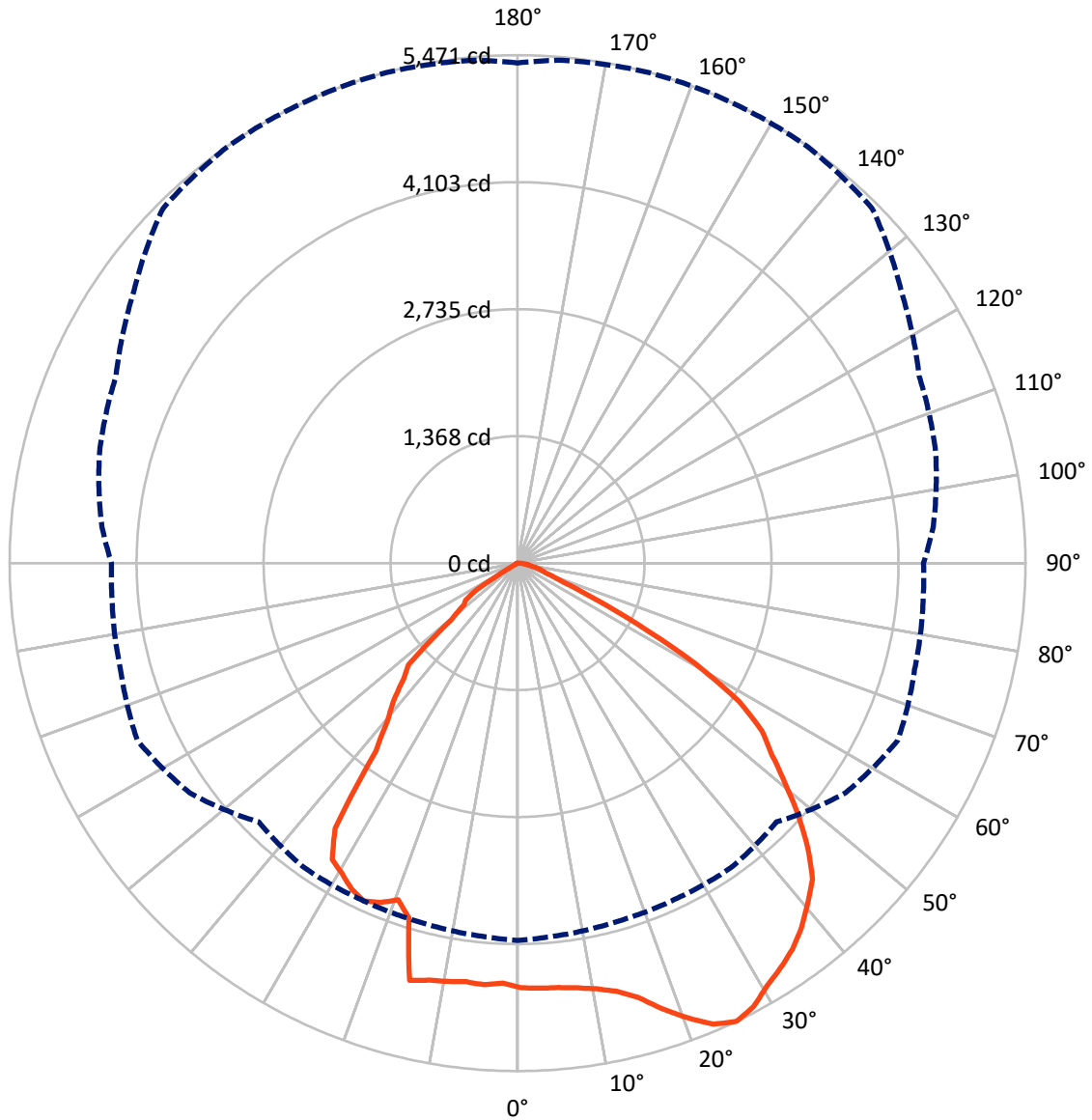
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 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	6562.4	0.0	6562.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4037.5	0.0	4037.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	10599.9	0.0	10599.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	4.1
10°-20°	1339.8	12.6
20°-30°	2118.1	20.0
30°-40°	2392.6	22.6
40°-50°	2240.7	21.1
50°-60°	1544.8	14.6
60°-70°	415.0	3.9
70°-80°	86.5	0.8
80°-90°	23.4	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°	10599.9	100.0
0°-180°	10599.9	100.0



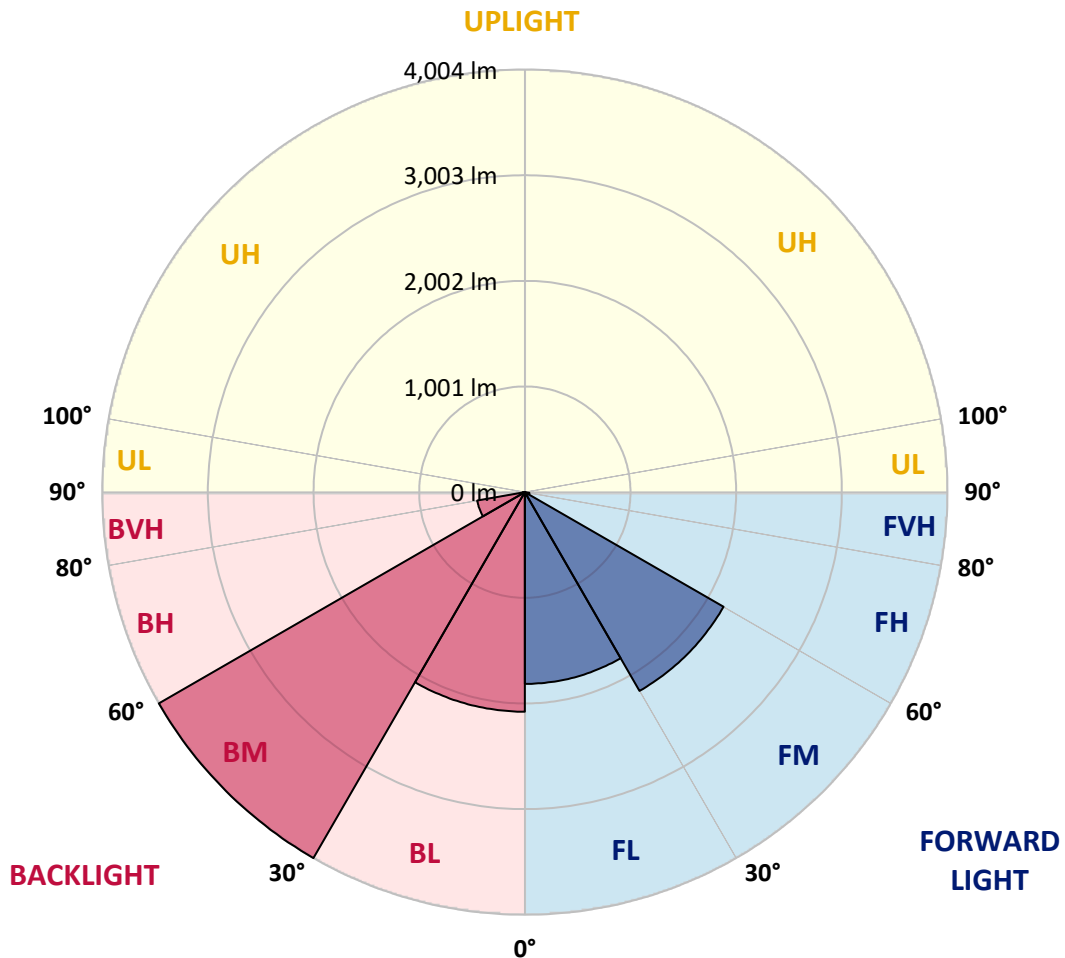
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.5	17.1			
FM (30°-60°)	2174.3	20.5			
FH (60°-80°)	43.6	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2080.2	19.6	B3/2500		
BM (30°-60°)	4003.9	37.8	B3/5000		
BH (60°-80°)	458.0	4.3	B1/500		G1/500
BVH (80°-90°)	20.3	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°	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7
2.5°	4593.9	4564.3	4536.3	4526.9	4565.9	4607.9	4581.4	4583.0	4573.7	4590.8
5°	4628.2	4587.7	4569.0	4555.0	4561.2	4604.8	4567.4	4581.4	4565.9	4586.1
7.5°	4615.7	4587.7	4569.0	4542.5	4562.8	4614.2	4578.3	4579.9	4572.1	4590.8
10°	4607.9	4587.7	4564.3	4567.4	4590.8	4634.4	4606.4	4622.0	4611.0	4622.0
12.5°	4626.6	4604.8	4592.4	4592.4	4612.6	4662.5	4648.4	4662.5	4657.8	4667.1
15°	4450.6	4470.8	4589.2	4642.2	4682.7	4732.6	4726.3	4740.3	4743.5	4757.5
17.5°	3754.3	3734.0	3724.7	3997.3	4721.6	4875.9	4871.2	4869.6	4854.1	4843.2
20°	3846.2	3838.4	3827.5	3847.7	3928.7	4950.6	4981.8	4790.2	4734.1	4729.4
22.5°	3992.6	3980.1	3939.6	3941.2	3966.1	4304.2	4827.6	4653.1	4634.4	4623.5
25°	4064.3	4039.3	4006.6	3997.3	4005.1	3942.8	4312.0	4519.1	4427.2	4385.2
27.5°	3938.1	3939.6	3913.2	3938.1	3908.5	3628.1	3470.7	4257.4	4254.3	4235.6
30°	3843.1	3838.4	3807.2	3838.4	3634.3	3321.2	3254.2	3970.8	3938.1	3913.2
32.5°	3551.8	3554.9	3645.2	3766.7	3431.8	3184.1	2981.6	3547.1	3857.1	3843.1
35°	2540.7	2547.0	2867.9	3467.6	3124.9	2911.5	2895.9	3065.7	3729.3	3735.6
37.5°	2445.7	2445.7	2437.9	2536.1	2883.5	2800.9	2832.1	2814.9	3416.2	3431.8
40°	2377.2	2363.2	2352.3	2198.0	2004.9	2723.0	2744.8	2666.9	3229.3	3232.4
42.5°	2294.6	2279.0	2282.2	1997.1	1794.6	2529.8	2469.1	2364.7	2917.7	2920.8
45°	2143.5	2170.0	2188.7	1747.8	1732.3	1807.0	2277.5	2212.1	2707.4	2765.1
47.5°	1090.5	1113.8	1708.9	1607.6	1643.5	1606.1	1923.9	1925.4	2252.6	2444.2
50°	989.2	983.0	984.5	937.8	1517.3	1299.2	1391.1	1765.0	1803.9	2078.1
52.5°	922.2	920.7	825.6	733.7	953.4	1143.4	1009.4	1277.4	1341.3	1760.3
55°	682.3	732.2	651.2	690.1	596.6	916.0	911.3	1152.8	1174.6	1411.4
57.5°	6.2	7.8	18.7	525.0	412.8	458.0	629.3	786.7	825.6	1099.8
60°	1.6	3.1	7.8	15.6	267.9	282.0	420.6	454.9	512.5	655.8
62.5°	0.0	0.0	3.1	7.8	14.0	115.3	134.0	146.4	225.9	334.9
65°	0.0	0.0	1.6	4.7	7.8	18.7	32.7	68.5	98.1	121.5
67.5°	0.0	0.0	1.6	3.1	6.2	9.3	18.7	26.5	42.1	71.7
70°	0.0	0.0	1.6	3.1	4.7	7.8	12.5	18.7	24.9	35.8
72.5°	0.0	0.0	1.6	3.1	3.1	9.3	9.3	14.0	18.7	23.4
75°	0.0	0.0	1.6	1.6	3.1	6.2	9.3	10.9	12.5	18.7
77.5°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	12.5	10.9	10.9
80°	0.0	0.0	1.6	4.7	4.7	7.8	9.3	12.5	7.8	7.8
82.5°	0.0	0.0	1.6	6.2	4.7	15.6	15.6	17.1	6.2	6.2
85°	0.0	0.0	4.7	3.1	9.3	15.6	14.0	9.3	7.8	4.7
87.5°	0.0	0.0	1.6	1.6	3.1	4.7	10.9	9.3	3.1	3.1
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°
4573.7	0°	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7	4573.7
4545.6	2.5°	4607.9	4587.7	4629.7	4625.1	4604.8	4595.5	4584.6	4575.2	4506.7
4548.7	5°	4609.5	4578.3	4629.7	4620.4	4617.3	4601.7	4592.4	4606.4	4544.1
4561.2	7.5°	4609.5	4578.3	4634.4	4637.5	4632.9	4620.4	4618.8	4628.2	4576.8
4583.0	10°	4640.6	4628.2	4674.9	4679.6	4673.4	4670.2	4662.5	4656.2	4601.7
4657.8	12.5°	4706.1	4681.1	4734.1	4748.1	4743.5	4751.2	4732.6	4741.9	4685.8
4734.1	15°	4785.5	4787.1	4827.6	4858.7	4855.6	4880.5	4852.5	4877.4	4836.9
4821.3	17.5°	4907.0	4924.2	4981.8	5028.5	5045.7	5064.4	5045.7	5053.5	4995.8
4724.8	20°	4779.3	4843.2	5120.4	5206.1	5242.0	5259.1	5227.9	5237.3	5179.6
4606.4	22.5°	4664.0	4746.6	4992.7	5260.6	5371.2	5405.5	5394.6	5393.1	5371.2
4372.7	25°	4494.2	4660.9	4771.5	5055.0	5402.4	5464.7	5470.9	5469.4	5436.7
4229.4	27.5°	4285.5	4322.9	4609.5	4782.4	5184.3	5421.1	5411.7	5366.6	5323.0
3931.9	30°	4019.1	4188.9	4318.2	4593.9	4902.4	5287.1	5287.1	5252.9	5207.7
3825.9	32.5°	3883.6	4103.2	4223.2	4322.9	4586.1	5137.6	5199.9	5164.1	5128.2
3743.4	35°	3811.9	3844.6	4125.0	4215.4	4438.1	4849.4	5101.7	5065.9	5039.4
3523.7	37.5°	3654.6	3730.9	3861.8	4103.2	4171.8	4614.2	4970.9	4952.2	4921.0
3238.6	40°	3304.1	3508.1	3709.1	3938.1	4009.7	4312.0	4812.0	4819.8	4777.7
2934.9	42.5°	3096.9	3235.5	3550.2	3704.4	3897.6	4117.2	4657.8	4670.2	4640.6
2780.6	45°	2853.9	3008.1	3229.3	3509.7	3773.0	3849.3	4385.2	4516.0	4491.1
2473.8	47.5°	2631.1	2755.7	3026.8	3310.3	3601.6	3590.7	4072.1	4318.2	4283.9
2238.5	50°	2314.9	2533.0	2660.7	2920.8	3355.5	3385.1	3738.7	4086.1	4058.0
1902.1	52.5°	1951.9	2226.1	2470.6	2709.0	3106.2	3176.3	3428.7	3849.3	3830.6
1453.4	55°	1705.8	1905.2	2180.9	2372.5	2804.0	2990.9	3196.6	3623.4	3614.1
1194.8	57.5°	1213.5	1598.3	1825.7	2093.7	2321.1	2659.1	2811.8	3163.9	3076.6
662.1	60°	822.5	1003.2	1280.5	1568.7	1721.4	2059.4	2201.2	2483.1	2459.7
395.7	62.5°	434.6	601.3	799.1	944.0	1054.6	1383.3	1442.5	1746.3	1738.5
158.9	65°	191.6	253.9	433.1	507.8	621.6	774.2	825.6	934.7	908.2
77.9	67.5°	99.7	151.1	244.6	300.7	378.5	436.2	478.2	512.5	534.3
51.4	70°	60.8	110.6	151.1	208.7	260.2	306.9	339.6	386.3	414.4
26.5	72.5°	45.2	70.1	104.4	160.5	188.5	243.0	275.7	310.0	334.9
21.8	75°	24.9	46.7	84.1	126.2	151.1	197.8	227.4	250.8	258.6
12.5	77.5°	15.6	35.8	70.1	98.1	118.4	160.5	152.7	174.5	193.2
9.3	80°	10.9	26.5	54.5	81.0	82.6	102.8	121.5	140.2	152.7
6.2	82.5°	7.8	21.8	40.5	62.3	54.5	79.4	95.0	109.0	79.4
4.7	85°	6.2	15.6	20.3	37.4	31.2	56.1	48.3	46.7	31.2
3.1	87.5°	4.7	7.8	14.0	17.1	12.5	12.5	15.6	18.7	15.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4573.7
4459.9
4491.1
4517.6
4556.5
4636.0
4769.9
4946.0
5139.1
5301.1
5386.8
5288.7
5190.5
5098.6
5002.1
4889.9
4768.4
4637.5
4494.2
4308.8
4062.7
3843.1
3625.0
3067.3
2461.3
1740.0
897.3
534.3
415.9
339.6
253.9
196.3
154.2
57.6
31.2
15.6
0.0

(END OF REPORT)