

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: P638348

Luminaire Tested: **IFLD-M-SA4B-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638348
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14077.9 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

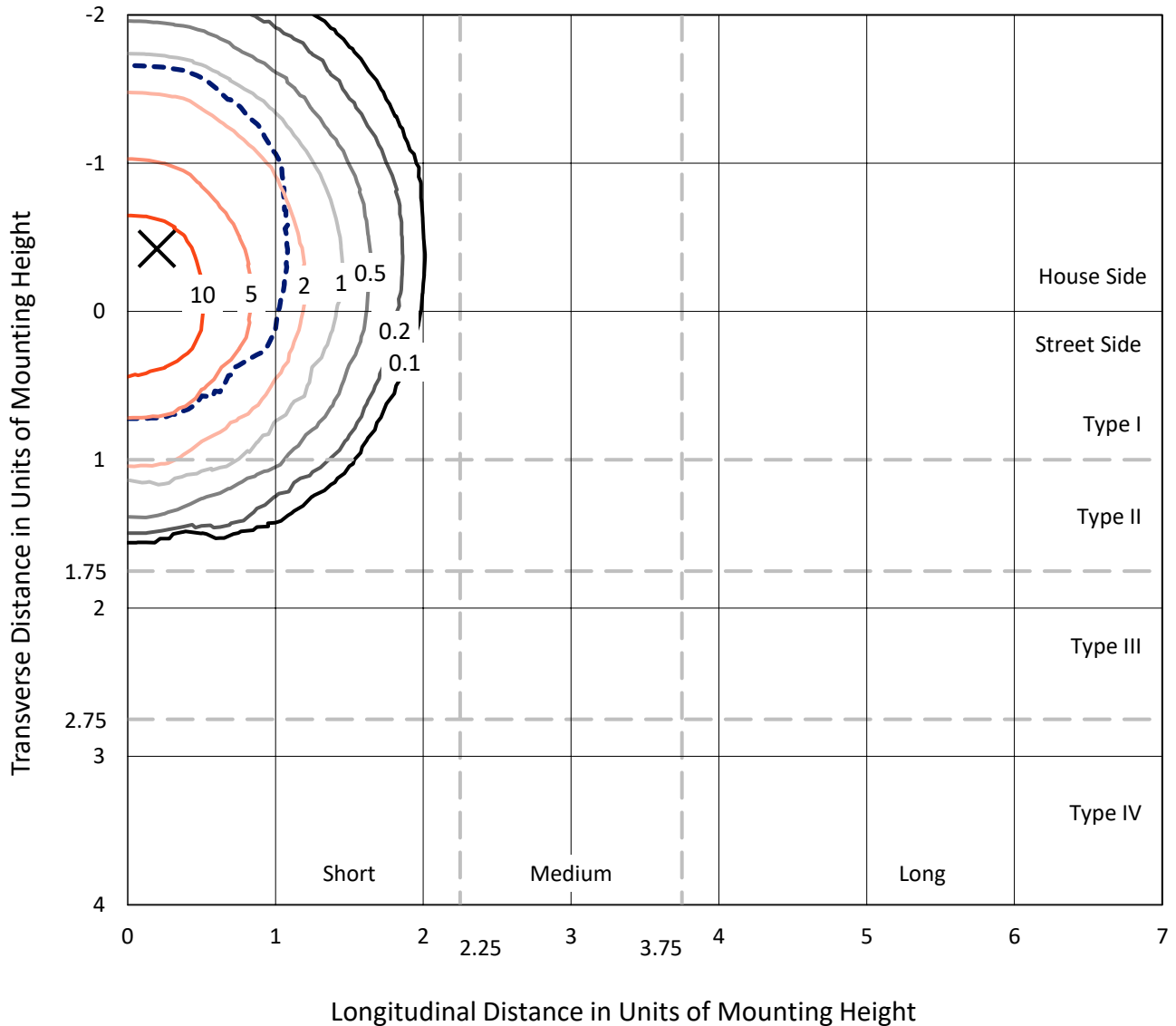
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

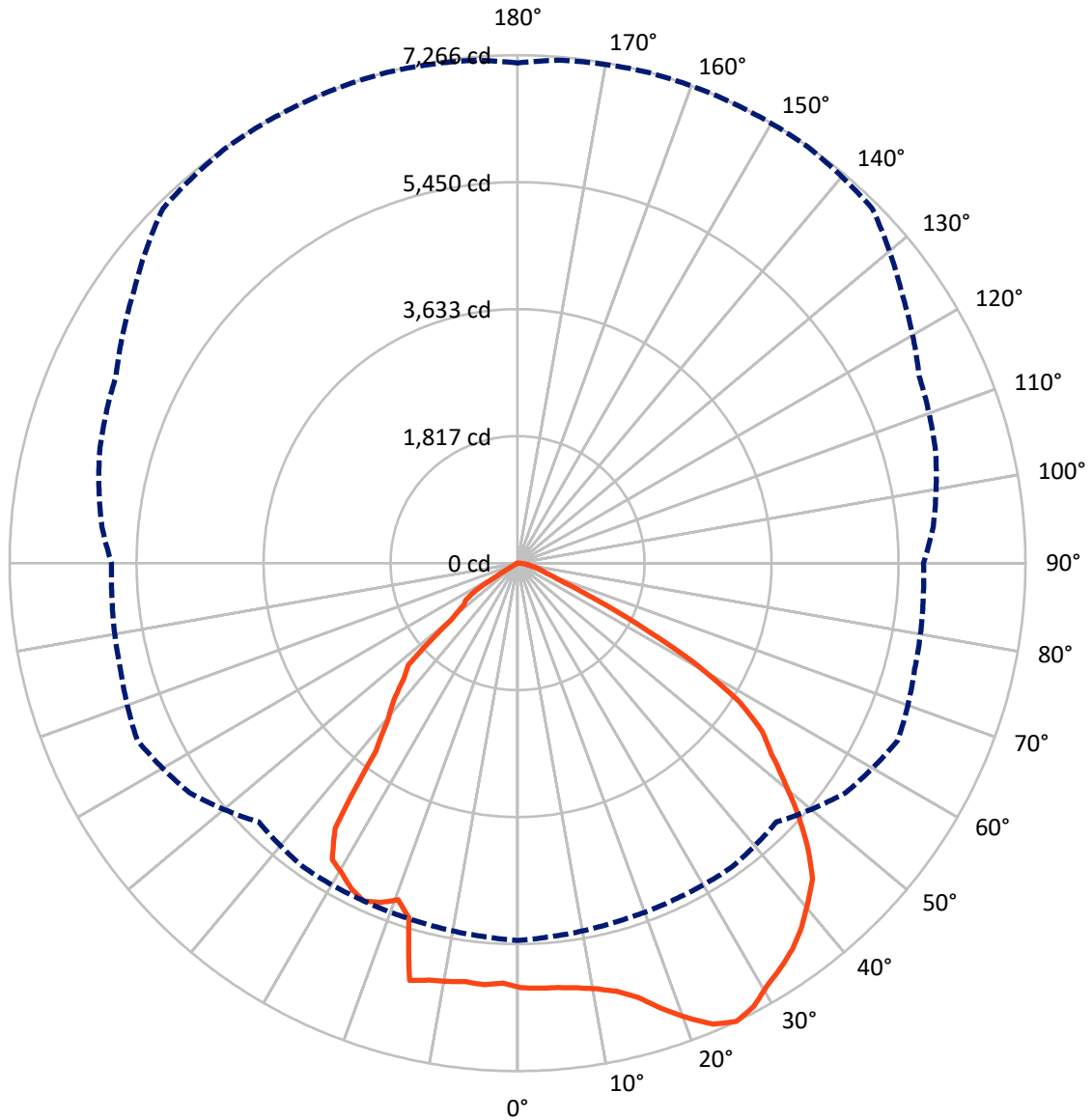
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.2 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	8715.7	0.0	8715.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5362.2	0.0	5362.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	14077.9	0.0	14077.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.8	4.1
10°-20°	1779.4	12.6
20°-30°	2813.1	20.0
30°-40°	3177.7	22.6
40°-50°	2976.0	21.1
50°-60°	2051.7	14.6
60°-70°	551.2	3.9
70°-80°	114.9	0.8
80°-90°	31.1	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°	14077.9	100.0
0°-180°	14077.9	100.0



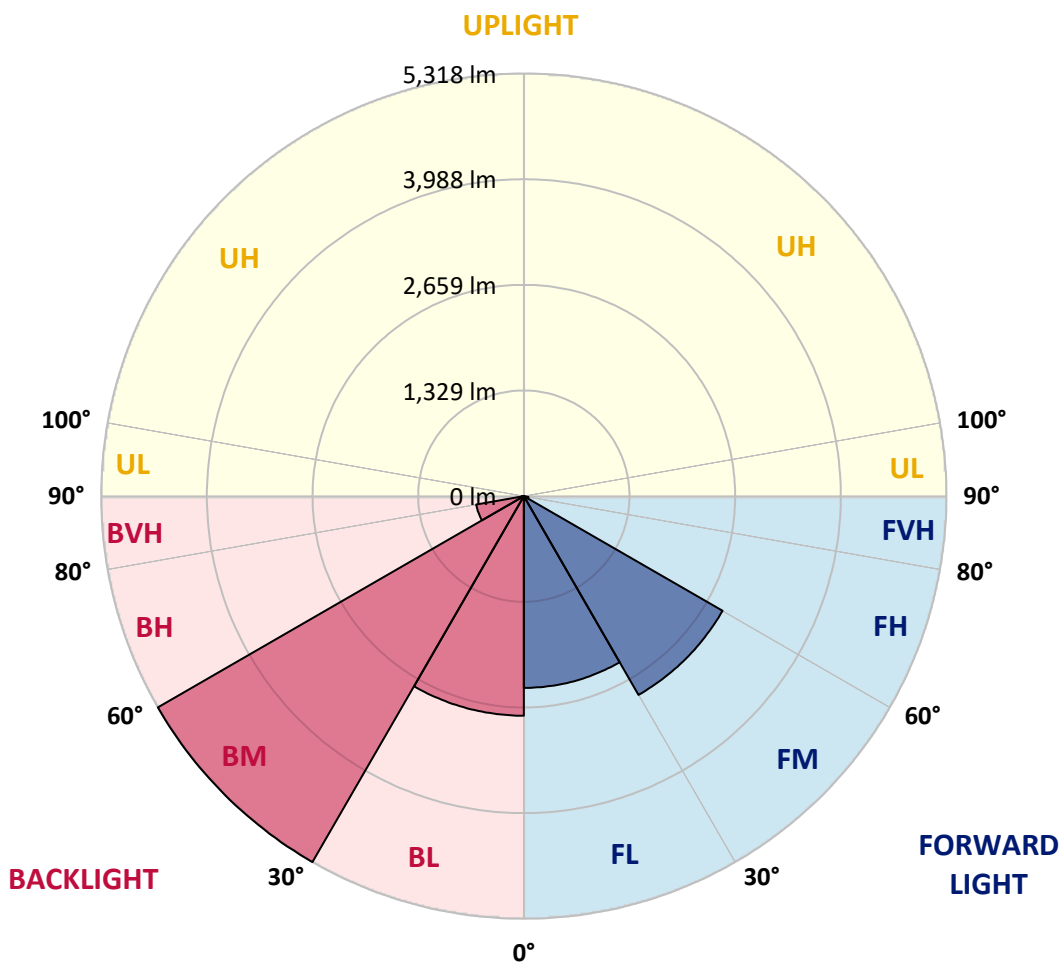
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2412.5	17.1			
FM (30°-60°)	2887.7	20.5			
FH (60°-80°)	57.9	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	2762.8	19.6	B4/5000		
BM (30°-60°)	5317.7	37.8	B4/8500		
BH (60°-80°)	608.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	26.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3
2.5°	6101.2	6061.9	6024.7	6012.3	6064.0	6119.9	6084.7	6086.8	6074.3	6097.1
5°	6146.8	6093.0	6068.1	6049.5	6057.8	6115.7	6066.1	6084.7	6064.0	6090.9
7.5°	6130.2	6093.0	6068.1	6033.0	6059.9	6128.1	6080.6	6082.6	6072.3	6097.1
10°	6119.9	6093.0	6061.9	6066.1	6097.1	6155.0	6117.8	6138.5	6124.0	6138.5
12.5°	6144.7	6115.7	6099.2	6099.2	6126.1	6192.3	6173.7	6192.3	6186.1	6198.5
15°	5910.9	5937.8	6095.0	6165.4	6219.2	6285.4	6277.1	6295.7	6299.9	6318.5
17.5°	4986.1	4959.2	4946.8	5308.8	6270.9	6475.7	6469.5	6467.4	6446.8	6432.3
20°	5108.2	5097.8	5083.3	5110.2	5217.8	6575.0	6616.4	6361.9	6287.4	6281.2
22.5°	5302.6	5286.1	5232.3	5234.4	5267.5	5716.4	6411.6	6179.9	6155.0	6140.6
25°	5397.8	5364.7	5321.3	5308.8	5319.2	5236.4	5726.8	6001.9	5879.9	5824.0
27.5°	5230.2	5232.3	5197.1	5230.2	5190.9	4818.5	4609.6	5654.4	5650.2	5625.4
30°	5104.0	5097.8	5056.4	5097.8	4826.8	4410.9	4322.0	5273.7	5230.2	5197.1
32.5°	4717.1	4721.3	4841.3	5002.6	4557.8	4228.9	3959.9	4710.9	5122.6	5104.0
35°	3374.4	3382.7	3808.9	4605.4	4150.3	3866.8	3846.1	4071.6	4953.0	4961.3
37.5°	3248.2	3248.2	3237.9	3368.2	3829.6	3719.9	3761.3	3738.5	4537.1	4557.8
40°	3157.2	3138.6	3124.1	2919.2	2662.7	3616.5	3645.4	3542.0	4288.9	4293.0
42.5°	3047.5	3026.8	3031.0	2652.4	2383.4	3359.9	3279.2	3140.6	3875.1	3879.2
45°	2846.8	2882.0	2906.8	2321.3	2300.6	2399.9	3024.8	2937.9	3595.8	3672.3
47.5°	1448.2	1479.3	2269.6	2135.1	2182.7	2133.1	2555.1	2557.2	2991.7	3246.1
50°	1313.8	1305.5	1307.6	1245.5	2015.1	1725.5	1847.5	2344.1	2395.8	2759.9
52.5°	1224.8	1222.7	1096.5	974.5	1266.2	1518.6	1340.7	1696.5	1781.3	2337.9
55°	906.2	972.4	864.8	916.5	792.4	1216.5	1210.3	1531.0	1560.0	1874.4
57.5°	8.3	10.3	24.8	697.2	548.3	608.3	835.8	1044.8	1096.5	1460.7
60°	2.1	4.1	10.3	20.7	355.9	374.5	558.6	604.1	680.7	871.0
62.5°	0.0	0.0	4.1	10.3	18.6	153.1	177.9	194.5	300.0	444.8
65°	0.0	0.0	2.1	6.2	10.3	24.8	43.4	91.0	130.3	161.4
67.5°	0.0	0.0	2.1	4.1	8.3	12.4	24.8	35.2	55.9	95.2
70°	0.0	0.0	2.1	4.1	6.2	10.3	16.6	24.8	33.1	47.6
72.5°	0.0	0.0	2.1	4.1	4.1	12.4	12.4	18.6	24.8	31.0
75°	0.0	0.0	2.1	2.1	4.1	8.3	12.4	14.5	16.6	24.8
77.5°	0.0	0.0	2.1	4.1	6.2	8.3	10.3	16.6	14.5	14.5
80°	0.0	0.0	2.1	6.2	6.2	10.3	12.4	16.6	10.3	10.3
82.5°	0.0	0.0	2.1	8.3	6.2	20.7	20.7	22.8	8.3	8.3
85°	0.0	0.0	6.2	4.1	12.4	20.7	18.6	12.4	10.3	6.2
87.5°	0.0	0.0	2.1	2.1	4.1	6.2	14.5	12.4	4.1	4.1
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°
6074.3	0°	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3
6037.1	2.5°	6119.9	6093.0	6148.8	6142.6	6115.7	6103.3	6088.8	6076.4	5985.4
6041.2	5°	6121.9	6080.6	6148.8	6136.4	6132.3	6111.6	6099.2	6117.8	6035.0
6057.8	7.5°	6121.9	6080.6	6155.0	6159.2	6153.0	6136.4	6134.3	6146.8	6078.5
6086.8	10°	6163.3	6146.8	6208.8	6215.0	6206.8	6202.6	6192.3	6184.0	6111.6
6186.1	12.5°	6250.2	6217.1	6287.4	6306.1	6299.9	6310.2	6285.4	6297.8	6223.3
6287.4	15°	6355.7	6357.8	6411.6	6453.0	6448.8	6481.9	6444.7	6477.8	6424.0
6403.3	17.5°	6517.1	6539.9	6616.4	6678.5	6701.2	6726.1	6701.2	6711.6	6635.0
6275.0	20°	6347.4	6432.3	6800.5	6914.3	6961.9	6984.7	6943.3	6955.7	6879.2
6117.8	22.5°	6194.3	6304.0	6630.9	6986.7	7133.6	7179.1	7164.7	7162.6	7133.6
5807.5	25°	5968.8	6190.2	6337.1	6713.6	7175.0	7257.8	7266.0	7264.0	7220.5
5617.1	27.5°	5691.6	5741.3	6121.9	6351.6	6885.4	7199.8	7187.4	7127.4	7069.5
5222.0	30°	5337.8	5563.3	5735.0	6101.2	6510.9	7021.9	7021.9	6976.4	6916.4
5081.3	32.5°	5157.8	5449.5	5608.8	5741.3	6090.9	6823.3	6906.1	6858.5	6810.9
4971.6	35°	5062.6	5106.1	5478.5	5598.5	5894.4	6440.5	6775.7	6728.1	6693.0
4679.9	37.5°	4853.7	4955.1	5128.9	5449.5	5540.6	6128.1	6601.9	6577.1	6535.7
4301.3	40°	4388.2	4659.2	4926.1	5230.2	5325.4	5726.8	6390.9	6401.2	6345.4
3897.8	42.5°	4113.0	4297.1	4715.1	4919.9	5176.4	5468.2	6186.1	6202.6	6163.3
3693.0	45°	3790.3	3995.1	4288.9	4661.3	5010.9	5112.3	5824.0	5997.8	5964.7
3285.4	47.5°	3494.4	3659.9	4019.9	4396.5	4783.3	4768.9	5408.2	5735.0	5689.5
2973.0	50°	3074.4	3364.1	3533.7	3879.2	4456.5	4495.8	4965.4	5426.8	5389.5
2526.2	52.5°	2592.4	2956.5	3281.3	3597.9	4125.4	4218.5	4553.7	5112.3	5087.5
1930.3	55°	2265.5	2530.3	2896.5	3151.0	3724.1	3972.3	4245.4	4812.3	4799.9
1586.9	57.5°	1611.7	2122.7	2424.8	2780.6	3082.7	3531.6	3734.4	4202.0	4086.1
879.3	60°	1092.4	1332.4	1700.7	2083.4	2286.2	2735.1	2923.4	3297.9	3266.8
525.5	62.5°	577.2	798.6	1061.4	1253.8	1400.7	1837.2	1915.8	2319.3	2308.9
211.0	65°	254.5	337.2	575.2	674.5	825.5	1028.3	1096.5	1241.4	1206.2
103.4	67.5°	132.4	200.7	324.8	399.3	502.7	579.3	635.2	680.7	709.6
68.3	70°	80.7	146.9	200.7	277.2	345.5	407.6	451.0	513.1	550.3
35.2	72.5°	60.0	93.1	138.6	213.1	250.3	322.8	366.2	411.7	444.8
29.0	75°	33.1	62.1	111.7	167.6	200.7	262.8	302.1	333.1	343.4
16.6	77.5°	20.7	47.6	93.1	130.3	157.2	213.1	202.8	231.7	256.5
12.4	80°	14.5	35.2	72.4	107.6	109.7	136.5	161.4	186.2	202.8
8.3	82.5°	10.3	29.0	53.8	82.8	72.4	105.5	126.2	144.8	105.5
6.2	85°	8.3	20.7	26.9	49.7	41.4	74.5	64.1	62.1	41.4
4.1	87.5°	6.2	10.3	18.6	22.8	16.6	16.6	20.7	24.8	20.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6074.3
5923.3
5964.7
5999.9
6051.6
6157.1
6335.0
6568.8
6825.4
7040.5
7154.3
7024.0
6893.6
6771.6
6643.3
6494.3
6333.0
6159.2
5968.8
5722.6
5395.7
5104.0
4814.4
4073.7
3268.9
2311.0
1191.7
709.6
552.4
451.0
337.2
260.7
204.8
76.6
41.4
20.7
0.0

(END OF REPORT)