

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: P638429

Luminaire Tested: **IFLD-S-SA6A-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638429
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19892.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

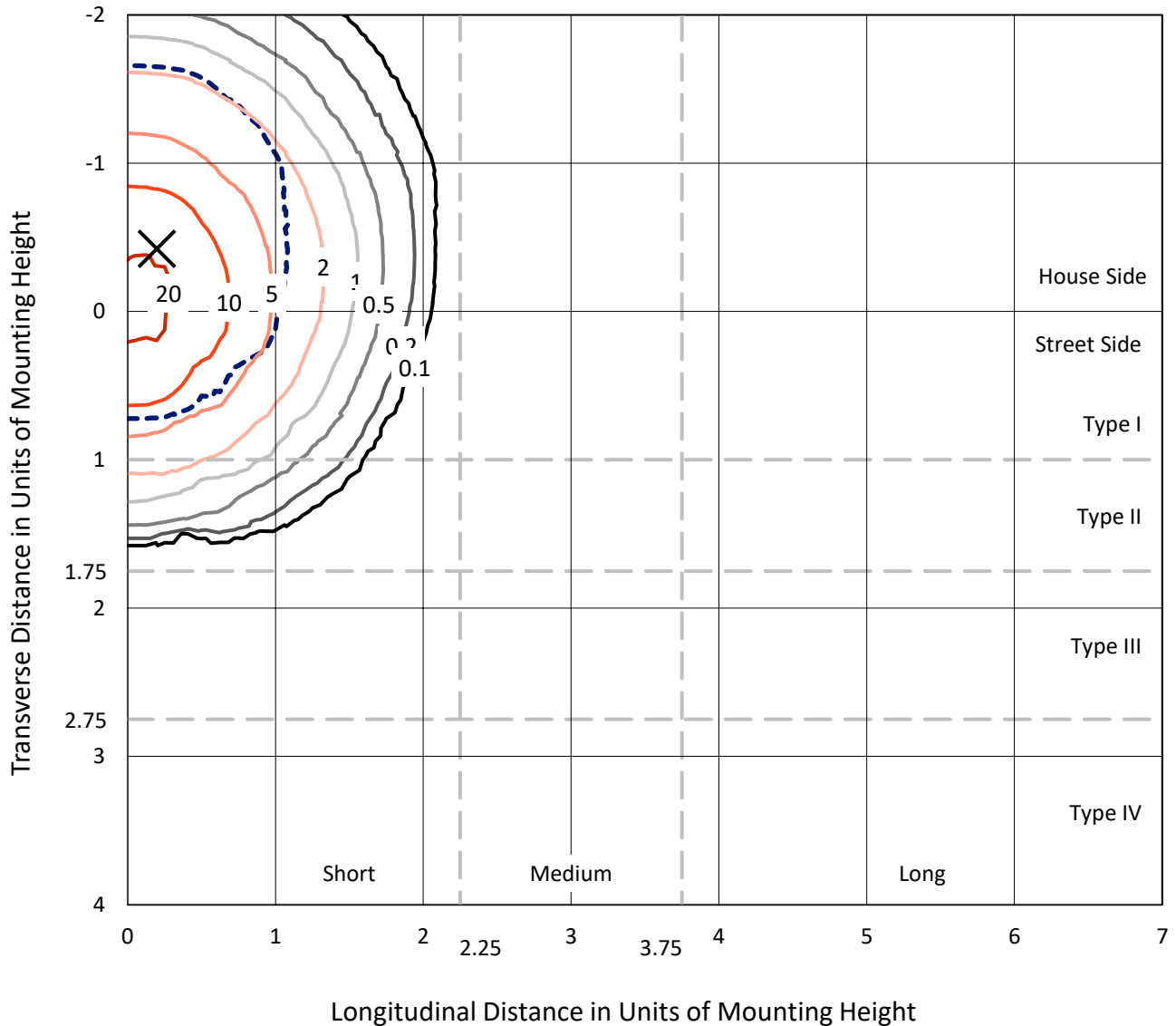
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

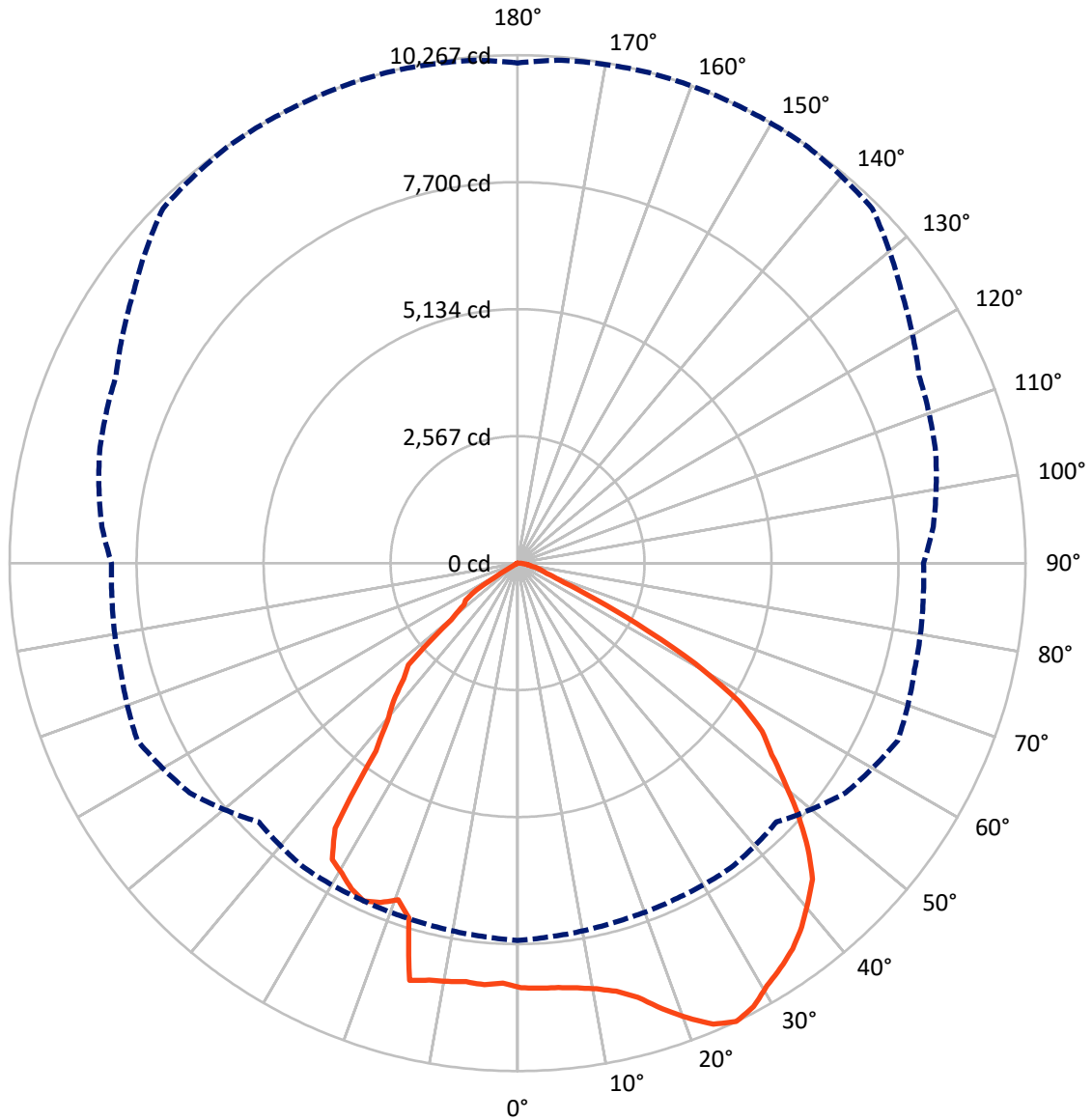
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.5 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	12315.5	0.0	12315.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7577.0	0.0	7577.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	19892.5	0.0	19892.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.5	4.1
10°-20°	2514.4	12.6
20°-30°	3975.1	20.0
30°-40°	4490.2	22.6
40°-50°	4205.2	21.1
50°-60°	2899.2	14.6
60°-70°	778.9	3.9
70°-80°	162.3	0.8
80°-90°	43.9	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°	19892.5	100.0
0°-180°	19892.5	100.0



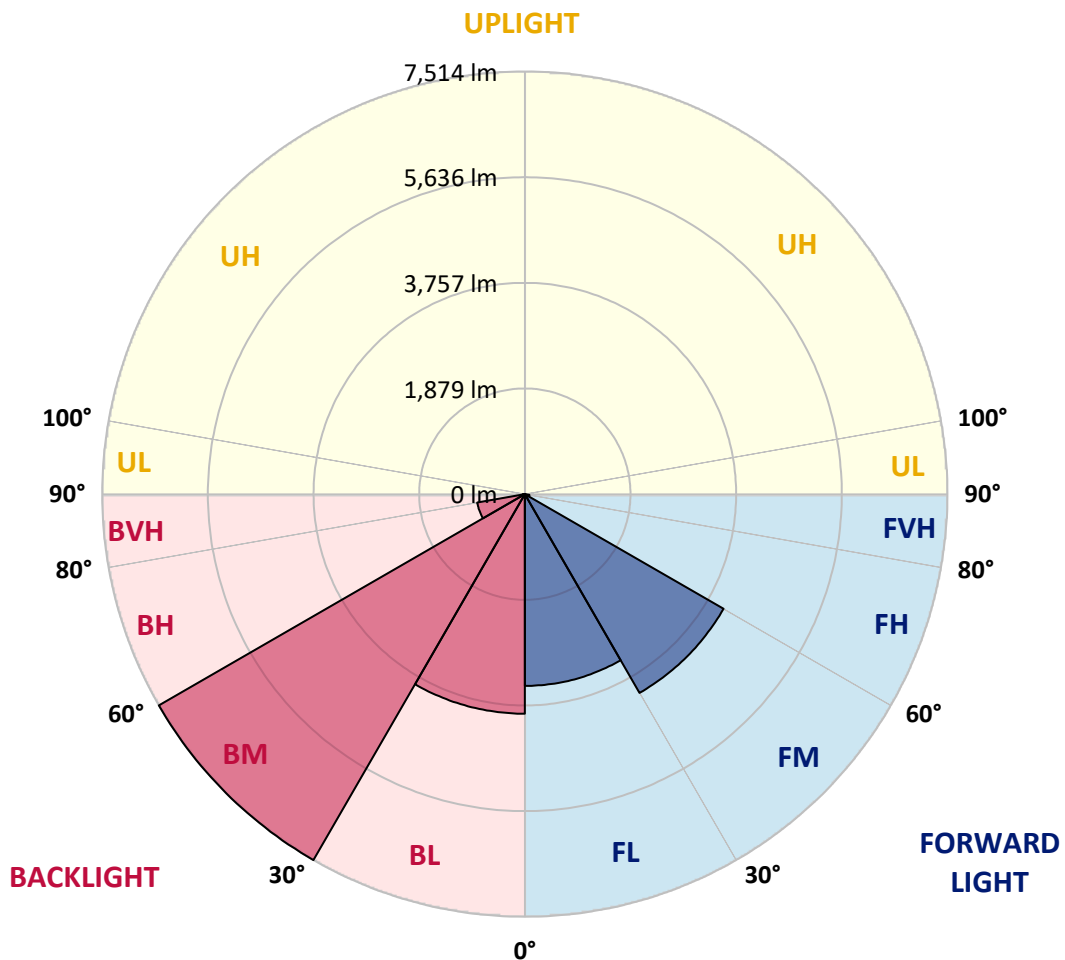
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3409.0	17.1			
FM (30°-60°)	4080.4	20.5			
FH (60°-80°)	81.8	0.4			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	3904.0	19.6	B4/5000		
BM (30°-60°)	7514.1	37.8	B4/8500		
BH (60°-80°)	859.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	38.0	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°	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3
2.5°	8621.3	8565.8	8513.1	8495.6	8568.7	8647.6	8597.9	8600.8	8583.3	8615.4
5°	8685.6	8609.6	8574.5	8548.2	8559.9	8641.8	8571.6	8597.9	8568.7	8606.7
7.5°	8662.2	8609.6	8574.5	8524.8	8562.8	8659.3	8592.1	8595.0	8580.4	8615.4
10°	8647.6	8609.6	8565.8	8571.6	8615.4	8697.3	8644.7	8673.9	8653.5	8673.9
12.5°	8682.7	8641.8	8618.4	8618.4	8656.4	8749.9	8723.6	8749.9	8741.2	8758.7
15°	8352.3	8390.3	8612.5	8711.9	8787.9	8881.5	8869.8	8896.1	8901.9	8928.3
17.5°	7045.5	7007.5	6990.0	7501.6	8861.0	9150.4	9141.7	9138.7	9109.5	9089.1
20°	7218.0	7203.4	7183.0	7221.0	7373.0	9290.8	9349.2	8989.7	8884.4	8875.6
22.5°	7492.8	7469.5	7393.4	7396.4	7443.1	8077.5	9059.8	8732.4	8697.3	8676.8
25°	7627.3	7580.5	7519.2	7501.6	7516.2	7399.3	8092.1	8481.0	8308.5	8229.6
27.5°	7390.5	7393.4	7343.7	7390.5	7335.0	6808.7	6513.5	7989.8	7984.0	7948.9
30°	7212.2	7203.4	7144.9	7203.4	6820.4	6232.8	6107.1	7451.9	7390.5	7343.7
32.5°	6665.5	6671.3	6840.9	7068.9	6440.4	5975.6	5595.5	6656.7	7238.5	7212.2
35°	4768.2	4779.9	5382.1	6507.6	5864.5	5464.0	5434.7	5753.4	6998.8	7010.5
37.5°	4589.8	4589.8	4575.2	4759.4	5411.3	5256.4	5314.9	5282.7	6411.2	6440.4
40°	4461.2	4434.9	4414.4	4125.0	3762.5	5110.2	5151.1	5005.0	6060.3	6066.2
42.5°	4306.3	4277.0	4282.9	3747.9	3367.8	4747.7	4633.7	4437.8	5475.6	5481.5
45°	4022.7	4072.4	4107.5	3280.1	3250.9	3391.2	4274.1	4151.3	5081.0	5189.1
47.5°	2046.4	2090.3	3207.0	3017.0	3084.3	3014.1	3610.5	3613.4	4227.3	4586.9
50°	1856.4	1844.7	1847.6	1759.9	2847.5	2438.2	2610.7	3312.3	3385.4	3899.9
52.5°	1730.7	1727.8	1549.4	1377.0	1789.2	2145.8	1894.4	2397.2	2517.1	3303.5
55°	1280.5	1374.0	1222.0	1295.1	1119.7	1719.0	1710.2	2163.4	2204.3	2648.7
57.5°	11.7	14.6	35.1	985.2	774.7	859.5	1181.1	1476.3	1549.4	2064.0
60°	2.9	5.8	14.6	29.2	502.8	529.1	789.3	853.7	961.8	1230.8
62.5°	0.0	0.0	5.8	14.6	26.3	216.3	251.4	274.8	423.9	628.5
65°	0.0	0.0	2.9	8.8	14.6	35.1	61.4	128.6	184.2	228.0
67.5°	0.0	0.0	2.9	5.8	11.7	17.5	35.1	49.7	78.9	134.5
70°	0.0	0.0	2.9	5.8	8.8	14.6	23.4	35.1	46.8	67.2
72.5°	0.0	0.0	2.9	5.8	5.8	17.5	17.5	26.3	35.1	43.9
75°	0.0	0.0	2.9	2.9	5.8	11.7	17.5	20.5	23.4	35.1
77.5°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	23.4	20.5	20.5
80°	0.0	0.0	2.9	8.8	8.8	14.6	17.5	23.4	14.6	14.6
82.5°	0.0	0.0	2.9	11.7	8.8	29.2	29.2	32.2	11.7	11.7
85°	0.0	0.0	8.8	5.8	17.5	29.2	26.3	17.5	14.6	8.8
87.5°	0.0	0.0	2.9	2.9	5.8	8.8	20.5	17.5	5.8	5.8
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°
8583.3	0°	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3	8583.3
8530.7	2.5°	8647.6	8609.6	8688.5	8679.8	8641.8	8624.2	8603.8	8586.2	8457.6
8536.5	5°	8650.5	8592.1	8688.5	8671.0	8665.1	8635.9	8618.4	8644.7	8527.7
8559.9	7.5°	8650.5	8592.1	8697.3	8703.2	8694.4	8671.0	8668.1	8685.6	8589.1
8600.8	10°	8709.0	8685.6	8773.3	8782.1	8770.4	8764.5	8749.9	8738.2	8635.9
8741.2	12.5°	8831.8	8785.0	8884.4	8910.7	8901.9	8916.6	8881.5	8899.0	8793.8
8884.4	15°	8980.9	8983.8	9059.8	9118.3	9112.4	9159.2	9106.6	9153.4	9077.4
9048.1	17.5°	9208.9	9241.1	9349.2	9436.9	9469.1	9504.2	9469.1	9483.7	9375.6
8866.9	20°	8969.2	9089.1	9609.4	9770.2	9837.5	9869.6	9811.1	9828.7	9720.5
8644.7	22.5°	8752.9	8907.8	9369.7	9872.5	10080.1	10144.4	10124.0	10121.0	10080.1
8206.2	25°	8434.2	8747.0	8954.6	9486.6	10138.6	10255.5	10267.2	10264.3	10202.9
7937.2	27.5°	8042.5	8112.6	8650.5	8975.0	9729.3	10173.7	10156.1	10071.3	9989.5
7378.8	30°	7542.5	7861.2	8103.8	8621.3	9200.1	9922.2	9922.2	9857.9	9773.1
7180.0	32.5°	7288.2	7700.4	7925.5	8112.6	8606.7	9641.6	9758.5	9691.3	9624.0
7025.1	35°	7153.7	7215.1	7741.3	7910.9	8328.9	9100.7	9574.3	9507.1	9457.4
6612.9	37.5°	6858.4	7001.7	7247.3	7700.4	7829.0	8659.3	9328.8	9293.7	9235.2
6077.9	40°	6200.7	6583.6	6960.8	7390.5	7525.0	8092.1	9030.6	9045.2	8966.3
5507.8	42.5°	5811.8	6072.0	6662.6	6952.0	7314.5	7726.7	8741.2	8764.5	8709.0
5218.4	45°	5355.8	5645.2	6060.3	6586.6	7080.6	7223.9	8229.6	8475.1	8428.3
4642.5	47.5°	4937.7	5171.6	5680.3	6212.4	6759.0	6738.6	7641.9	8103.8	8039.5
4201.0	50°	4344.3	4753.6	4993.3	5481.5	6297.1	6352.7	7016.3	7668.2	7615.6
3569.5	52.5°	3663.1	4177.6	4636.6	5083.9	5829.4	5960.9	6434.5	7223.9	7188.8
2727.6	55°	3201.2	3575.4	4092.9	4452.4	5262.2	5613.1	5998.9	6800.0	6782.4
2242.3	57.5°	2277.4	2999.5	3426.3	3929.1	4356.0	4990.4	5276.9	5937.6	5773.8
1242.5	60°	1543.6	1882.7	2403.1	2943.9	3230.4	3864.8	4130.9	4660.0	4616.2
742.6	62.5°	815.6	1128.5	1499.7	1771.6	1979.2	2596.0	2707.1	3277.2	3262.6
298.2	65°	359.6	476.5	812.7	953.0	1166.5	1453.0	1549.4	1754.1	1704.4
146.2	67.5°	187.1	283.6	459.0	564.2	710.4	818.6	897.5	961.8	1002.7
96.5	70°	114.0	207.6	283.6	391.7	488.2	575.9	637.3	725.0	777.6
49.7	72.5°	84.8	131.6	195.9	301.1	353.7	456.1	517.5	581.8	628.5
40.9	75°	46.8	87.7	157.9	236.8	283.6	371.3	426.8	470.7	485.3
23.4	77.5°	29.2	67.2	131.6	184.2	222.2	301.1	286.5	327.4	362.5
17.5	80°	20.5	49.7	102.3	152.0	154.9	192.9	228.0	263.1	286.5
11.7	82.5°	14.6	40.9	76.0	116.9	102.3	149.1	178.3	204.6	149.1
8.8	85°	11.7	29.2	38.0	70.2	58.5	105.2	90.6	87.7	58.5
5.8	87.5°	8.8	14.6	26.3	32.2	23.4	23.4	29.2	35.1	29.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8583.3
8369.9
8428.3
8478.0
8551.1
8700.2
8951.6
9282.0
9644.5
9948.5
10109.3
9925.2
9741.0
9568.5
9387.2
9176.8
8948.7
8703.2
8434.2
8086.3
7624.4
7212.2
6802.9
5756.3
4619.1
3265.5
1683.9
1002.7
780.6
637.3
476.5
368.4
289.4
108.2
58.5
29.2
0.0

(END OF REPORT)