

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: P638545

Luminaire Tested: **IFLD-S-SA6A-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638545
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15806.6 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

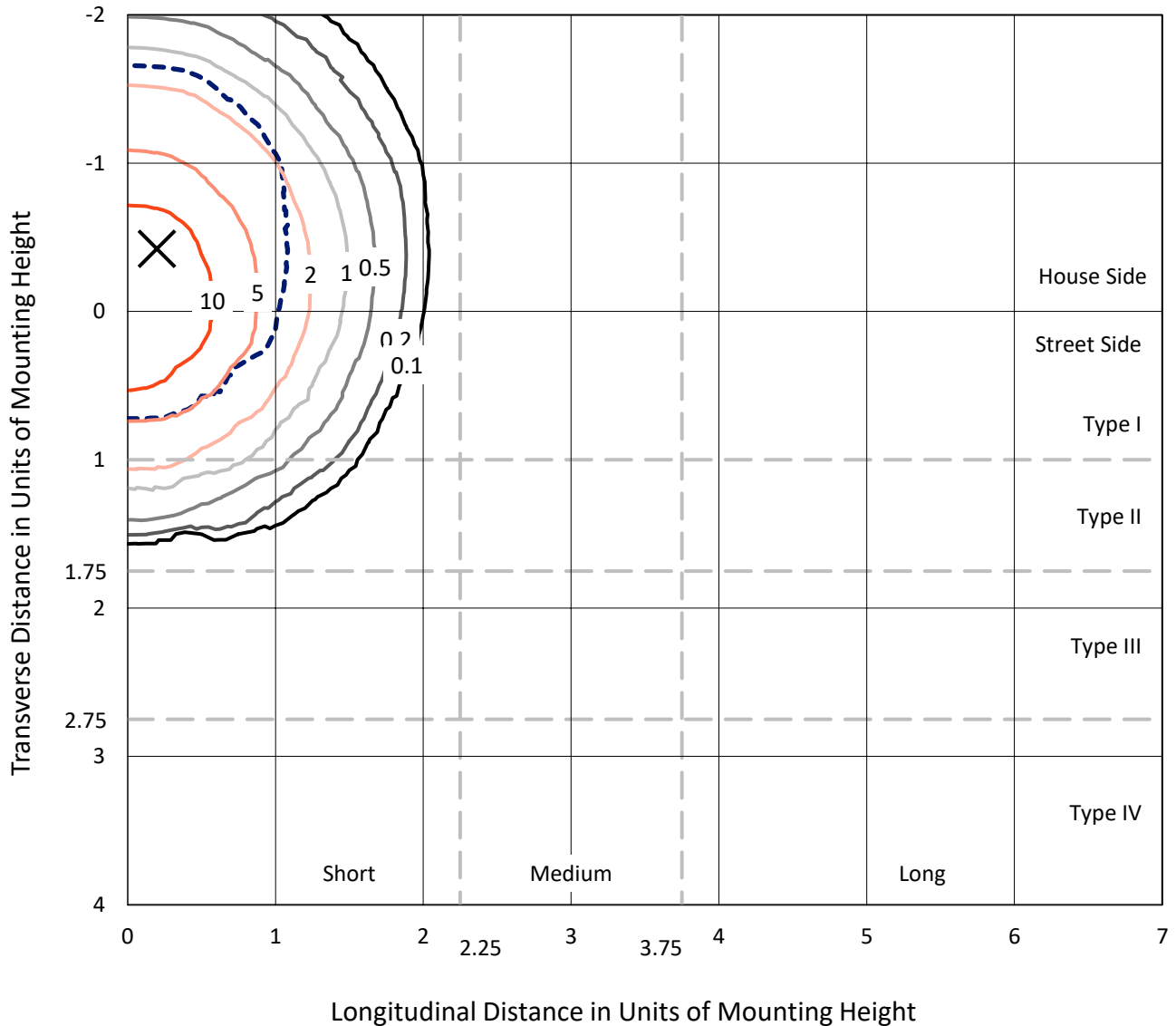
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

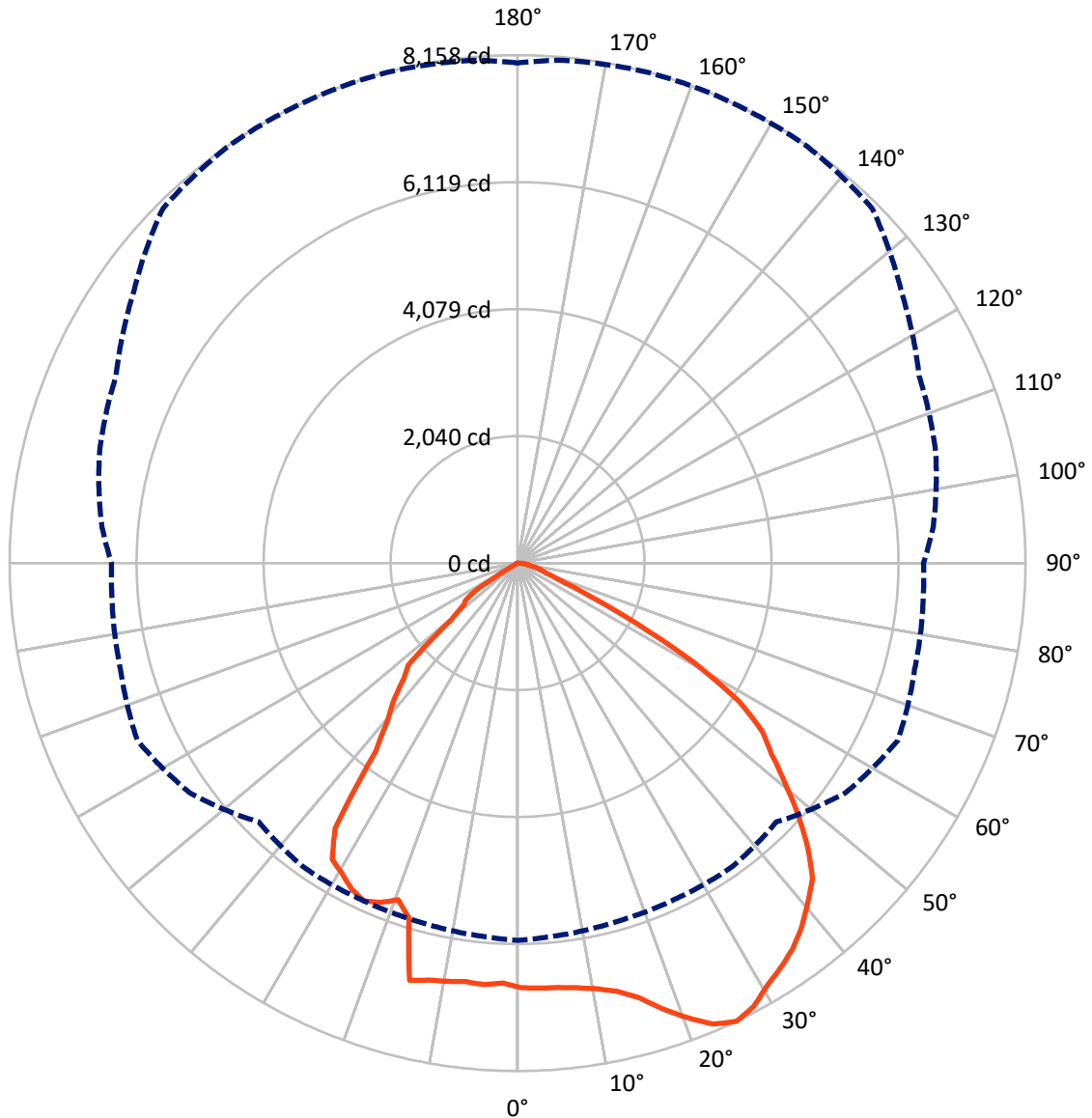
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.1 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
House Side	Lumens	9785.9	0.0	9785.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6020.7	0.0	6020.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	15806.6	0.0	15806.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.3	4.1
10°-20°	1997.9	12.6
20°-30°	3158.6	20.0
30°-40°	3567.9	22.6
40°-50°	3341.4	21.1
50°-60°	2303.7	14.6
60°-70°	618.9	3.9
70°-80°	129.0	0.8
80°-90°	34.9	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°	15806.6	100.0
0°-180°	15806.6	100.0



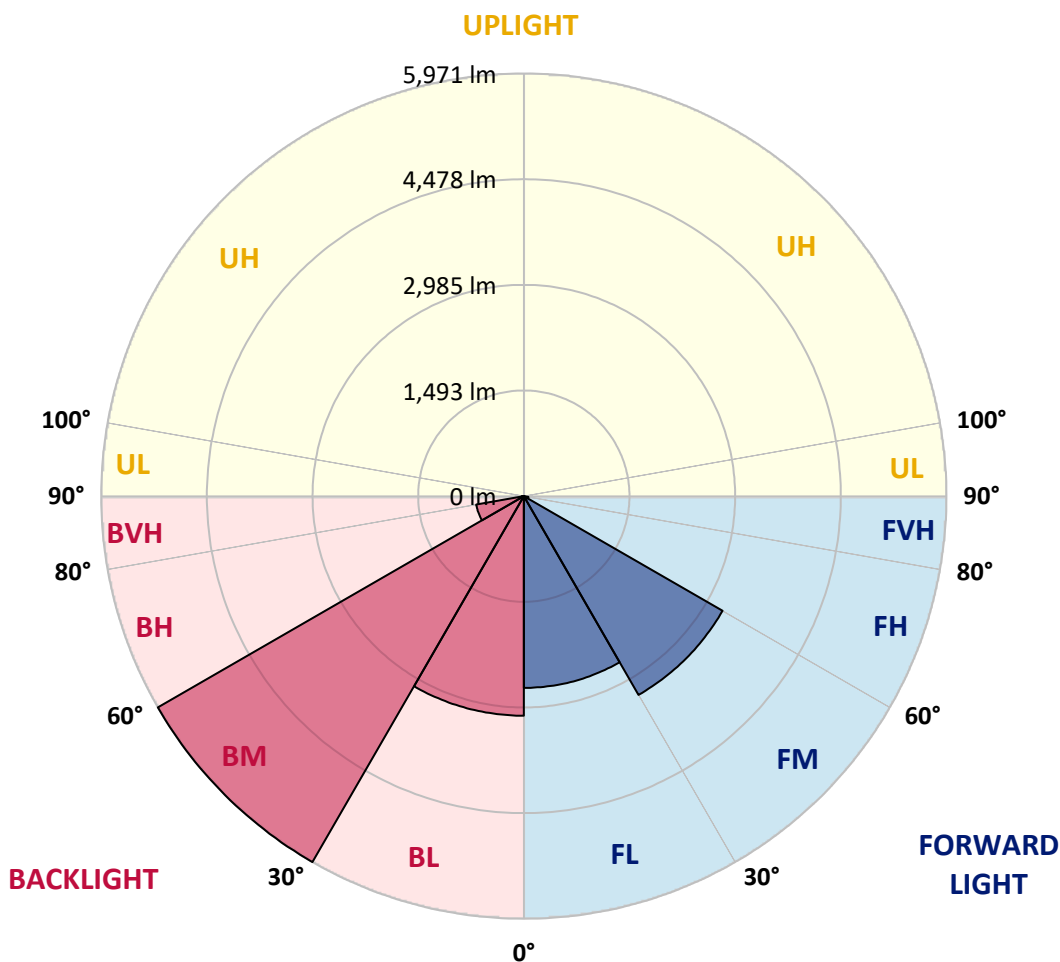
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2708.8	17.1			
FM (30°-60°)	3242.3	20.5			
FH (60°-80°)	65.0	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3102.1	19.6	B4/5000		
BM (30°-60°)	5970.7	37.8	B4/8500		
BH (60°-80°)	682.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	30.2	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°	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3
2.5°	6850.5	6806.3	6764.5	6750.6	6808.7	6871.4	6831.9	6834.2	6820.3	6845.8
5°	6901.6	6841.2	6813.3	6792.4	6801.7	6866.7	6811.0	6831.9	6808.7	6838.9
7.5°	6883.0	6841.2	6813.3	6773.8	6804.0	6880.7	6827.3	6829.6	6818.0	6845.8
10°	6871.4	6841.2	6806.3	6811.0	6845.8	6910.9	6869.1	6892.3	6876.0	6892.3
12.5°	6899.3	6866.7	6848.2	6848.2	6878.4	6952.7	6931.8	6952.7	6945.7	6959.7
15°	6636.8	6667.0	6843.5	6922.5	6982.9	7057.2	7047.9	7068.8	7073.5	7094.4
17.5°	5598.4	5568.2	5554.3	5960.8	7041.0	7270.9	7264.0	7261.7	7238.4	7222.2
20°	5735.4	5723.8	5707.6	5737.8	5858.6	7382.4	7428.9	7143.2	7059.6	7052.6
22.5°	5953.8	5935.2	5874.8	5877.2	5914.3	6418.4	7198.9	6938.8	6910.9	6894.6
25°	6060.7	6023.5	5974.7	5960.8	5972.4	5879.5	6430.0	6739.0	6601.9	6539.2
27.5°	5872.5	5874.8	5835.3	5872.5	5828.4	5410.2	5175.6	6348.7	6344.1	6316.2
30°	5730.8	5723.8	5677.4	5723.8	5419.5	4952.6	4852.7	5921.3	5872.5	5835.3
32.5°	5296.4	5301.1	5435.8	5617.0	5117.5	4748.2	4446.2	5289.4	5751.7	5730.8
35°	3788.8	3798.1	4276.6	5171.0	4659.9	4341.7	4318.4	4571.6	5561.2	5570.5
37.5°	3647.1	3647.1	3635.5	3781.8	4299.8	4176.7	4223.2	4197.6	5094.3	5117.5
40°	3544.9	3524.0	3507.7	3277.7	2989.7	4060.6	4093.1	3976.9	4815.5	4820.2
42.5°	3421.8	3398.5	3403.2	2978.1	2676.1	3772.5	3681.9	3526.3	4351.0	4355.6
45°	3196.4	3235.9	3263.8	2606.4	2583.2	2694.7	3396.2	3298.6	4037.3	4123.3
47.5°	1626.1	1660.9	2548.3	2397.3	2450.7	2395.0	2868.9	2871.2	3359.0	3644.8
50°	1475.1	1465.8	1468.1	1398.4	2262.6	1937.4	2074.4	2631.9	2690.0	3098.9
52.5°	1375.2	1372.9	1231.2	1094.1	1421.7	1705.1	1505.3	1904.8	2000.1	2625.0
55°	1017.5	1091.8	971.0	1029.1	889.7	1365.9	1358.9	1719.0	1751.5	2104.6
57.5°	9.3	11.6	27.9	782.8	615.6	683.0	938.5	1173.1	1231.2	1640.0
60°	2.3	4.6	11.6	23.2	399.6	420.5	627.2	678.3	764.3	978.0
62.5°	0.0	0.0	4.6	11.6	20.9	171.9	199.8	218.4	336.8	499.4
65°	0.0	0.0	2.3	7.0	11.6	27.9	48.8	102.2	146.3	181.2
67.5°	0.0	0.0	2.3	4.6	9.3	13.9	27.9	39.5	62.7	106.9
70°	0.0	0.0	2.3	4.6	7.0	11.6	18.6	27.9	37.2	53.4
72.5°	0.0	0.0	2.3	4.6	4.6	13.9	13.9	20.9	27.9	34.8
75°	0.0	0.0	2.3	2.3	4.6	9.3	13.9	16.3	18.6	27.9
77.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	18.6	16.3	16.3
80°	0.0	0.0	2.3	7.0	7.0	11.6	13.9	18.6	11.6	11.6
82.5°	0.0	0.0	2.3	9.3	7.0	23.2	23.2	25.6	9.3	9.3
85°	0.0	0.0	7.0	4.6	13.9	23.2	20.9	13.9	11.6	7.0
87.5°	0.0	0.0	2.3	2.3	4.6	7.0	16.3	13.9	4.6	4.6
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°
6820.3	0°	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3	6820.3
6778.5	2.5°	6871.4	6841.2	6903.9	6896.9	6866.7	6852.8	6836.5	6822.6	6720.4
6783.1	5°	6873.7	6827.3	6903.9	6890.0	6885.3	6862.1	6848.2	6869.1	6776.1
6801.7	7.5°	6873.7	6827.3	6910.9	6915.5	6908.6	6890.0	6887.6	6901.6	6824.9
6834.2	10°	6920.2	6901.6	6971.3	6978.2	6969.0	6964.3	6952.7	6943.4	6862.1
6945.7	12.5°	7017.7	6980.6	7059.6	7080.5	7073.5	7085.1	7057.2	7071.2	6987.5
7059.6	15°	7136.2	7138.5	7198.9	7245.4	7240.7	7277.9	7236.1	7273.3	7212.9
7189.6	17.5°	7317.4	7343.0	7428.9	7498.6	7524.1	7552.0	7524.1	7535.8	7449.8
7045.6	20°	7126.9	7222.2	7635.7	7763.4	7816.8	7842.4	7795.9	7809.9	7723.9
6869.1	22.5°	6955.0	7078.1	7445.2	7844.7	8009.7	8060.8	8044.5	8042.2	8009.7
6520.6	25°	6701.8	6950.4	7115.3	7538.1	8056.1	8149.0	8158.3	8156.0	8107.2
6306.9	27.5°	6390.5	6446.3	6873.7	7131.6	7730.9	8084.0	8070.0	8002.7	7937.6
5863.2	30°	5993.3	6246.5	6439.3	6850.5	7310.4	7884.2	7884.2	7833.1	7765.7
5705.3	32.5°	5791.2	6118.7	6297.6	6446.3	6838.9	7661.2	7754.1	7700.7	7647.3
5582.1	35°	5684.3	5733.1	6151.3	6286.0	6618.2	7231.5	7607.8	7554.3	7514.9
5254.6	37.5°	5449.7	5563.5	5758.7	6118.7	6221.0	6880.7	7412.6	7384.8	7338.3
4829.5	40°	4927.1	5231.4	5531.0	5872.5	5979.4	6430.0	7175.7	7187.3	7124.6
4376.5	42.5°	4618.1	4824.8	5294.1	5524.1	5812.1	6139.6	6945.7	6964.3	6920.2
4146.5	45°	4255.7	4485.7	4815.5	5233.7	5626.3	5740.1	6539.2	6734.3	6697.2
3688.9	47.5°	3923.5	4109.4	4513.6	4936.3	5370.7	5354.5	6072.3	6439.3	6388.2
3338.1	50°	3452.0	3777.2	3967.7	4355.6	5003.7	5047.8	5575.2	6093.2	6051.4
2836.4	52.5°	2910.7	3319.5	3684.3	4039.7	4632.0	4736.6	5112.9	5740.1	5712.2
2167.3	55°	2543.7	2841.0	3252.2	3537.9	4181.4	4460.1	4766.8	5403.3	5389.3
1781.7	57.5°	1809.6	2383.4	2722.5	3122.1	3461.2	3965.3	4193.0	4718.0	4587.9
987.3	60°	1226.5	1496.0	1909.5	2339.2	2566.9	3071.0	3282.4	3702.8	3668.0
590.0	62.5°	648.1	896.7	1191.7	1407.7	1572.7	2062.8	2151.1	2604.1	2592.5
236.9	65°	285.7	378.6	645.8	757.3	926.9	1154.5	1231.2	1393.8	1354.3
116.1	67.5°	148.7	225.3	364.7	448.3	564.5	650.4	713.2	764.3	796.8
76.7	70°	90.6	164.9	225.3	311.3	387.9	457.6	506.4	576.1	617.9
39.5	72.5°	67.4	104.5	155.6	239.3	281.1	362.4	411.2	462.3	499.4
32.5	75°	37.2	69.7	125.4	188.2	225.3	295.0	339.2	374.0	385.6
18.6	77.5°	23.2	53.4	104.5	146.3	176.5	239.3	227.7	260.2	288.1
13.9	80°	16.3	39.5	81.3	120.8	123.1	153.3	181.2	209.1	227.7
9.3	82.5°	11.6	32.5	60.4	92.9	81.3	118.5	141.7	162.6	118.5
7.0	85°	9.3	23.2	30.2	55.8	46.5	83.6	72.0	69.7	46.5
4.6	87.5°	7.0	11.6	20.9	25.6	18.6	18.6	23.2	27.9	23.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6820.3
6650.7
6697.2
6736.7
6794.7
6913.2
7113.0
7375.5
7663.5
7905.1
8032.9
7886.5
7740.2
7603.1
7459.1
7291.8
7110.7
6915.5
6701.8
6425.4
6058.3
5730.8
5405.6
4574.0
3670.3
2594.8
1338.0
796.8
620.2
506.4
378.6
292.7
230.0
86.0
46.5
23.2
0.0

(END OF REPORT)