

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: P638350

Luminaire Tested: **IFLD-M-SA4D-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638350
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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: 19282.9 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

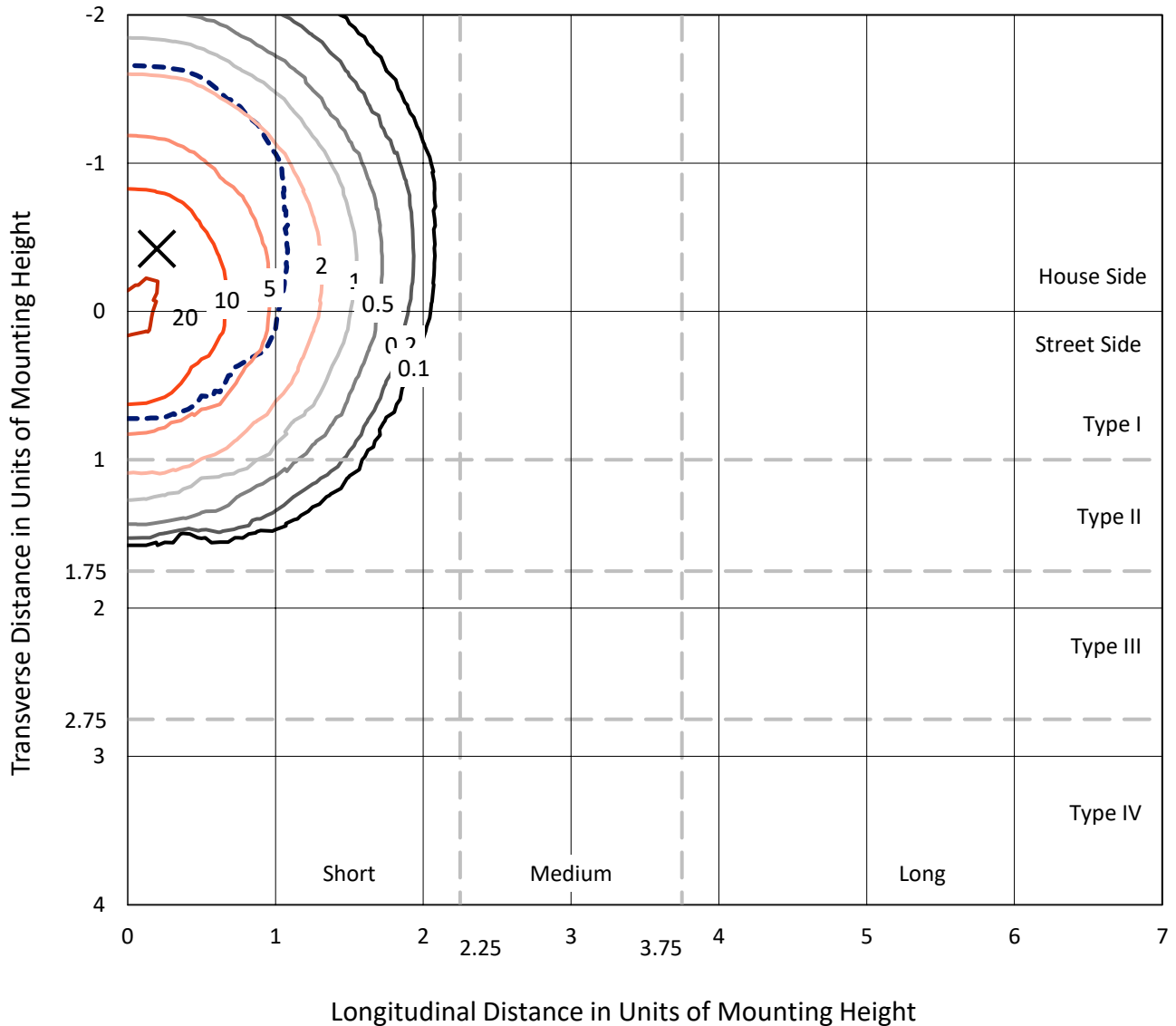
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

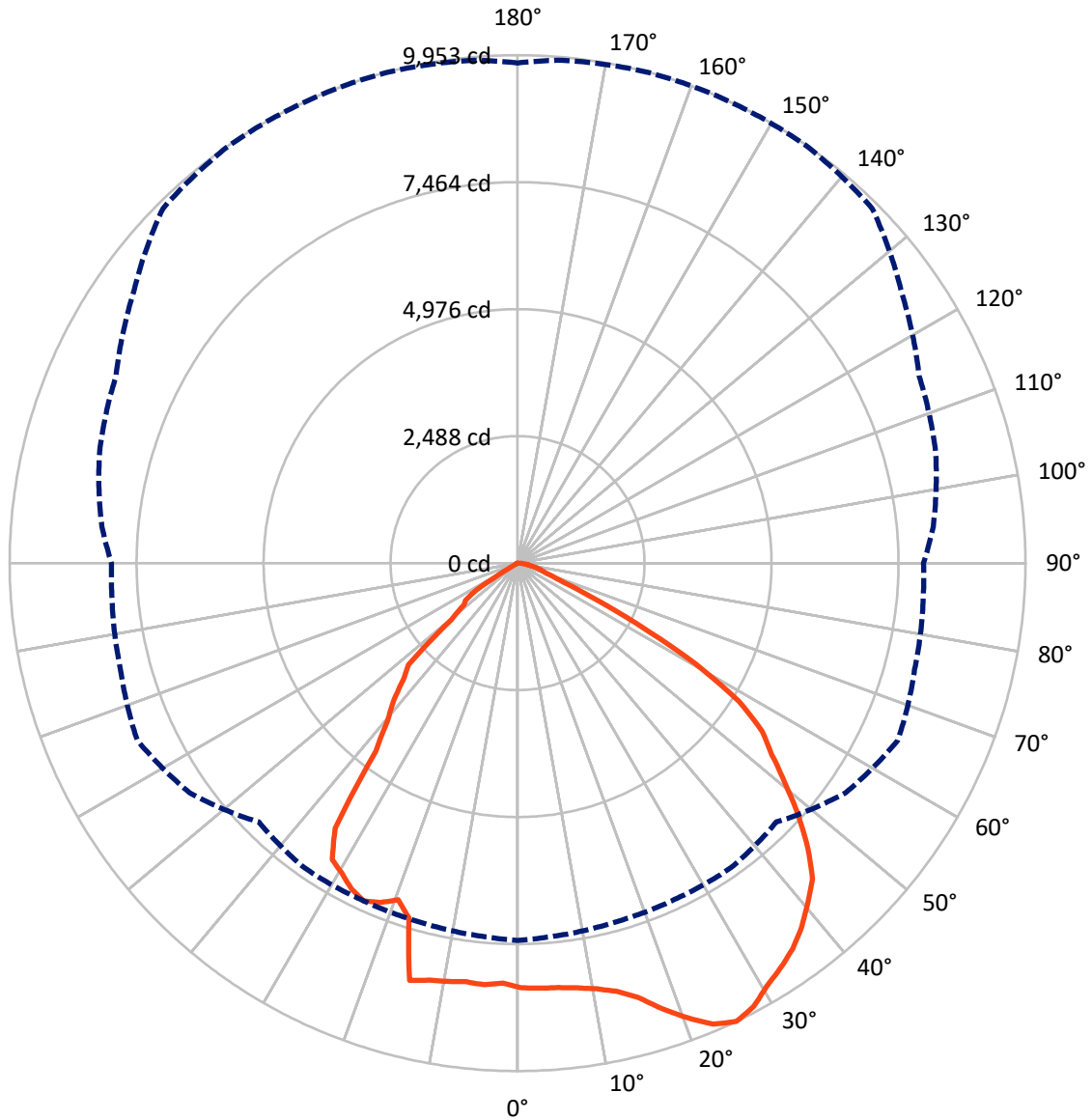
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.8 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	11938.1	0.0	11938.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7344.8	0.0	7344.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	19282.9	0.0	19282.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.2	4.1
10°-20°	2437.3	12.6
20°-30°	3853.3	20.0
30°-40°	4352.6	22.6
40°-50°	4076.3	21.1
50°-60°	2810.3	14.6
60°-70°	755.0	3.9
70°-80°	157.3	0.8
80°-90°	42.6	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°	19282.9	100.0
0°-180°	19282.9	100.0



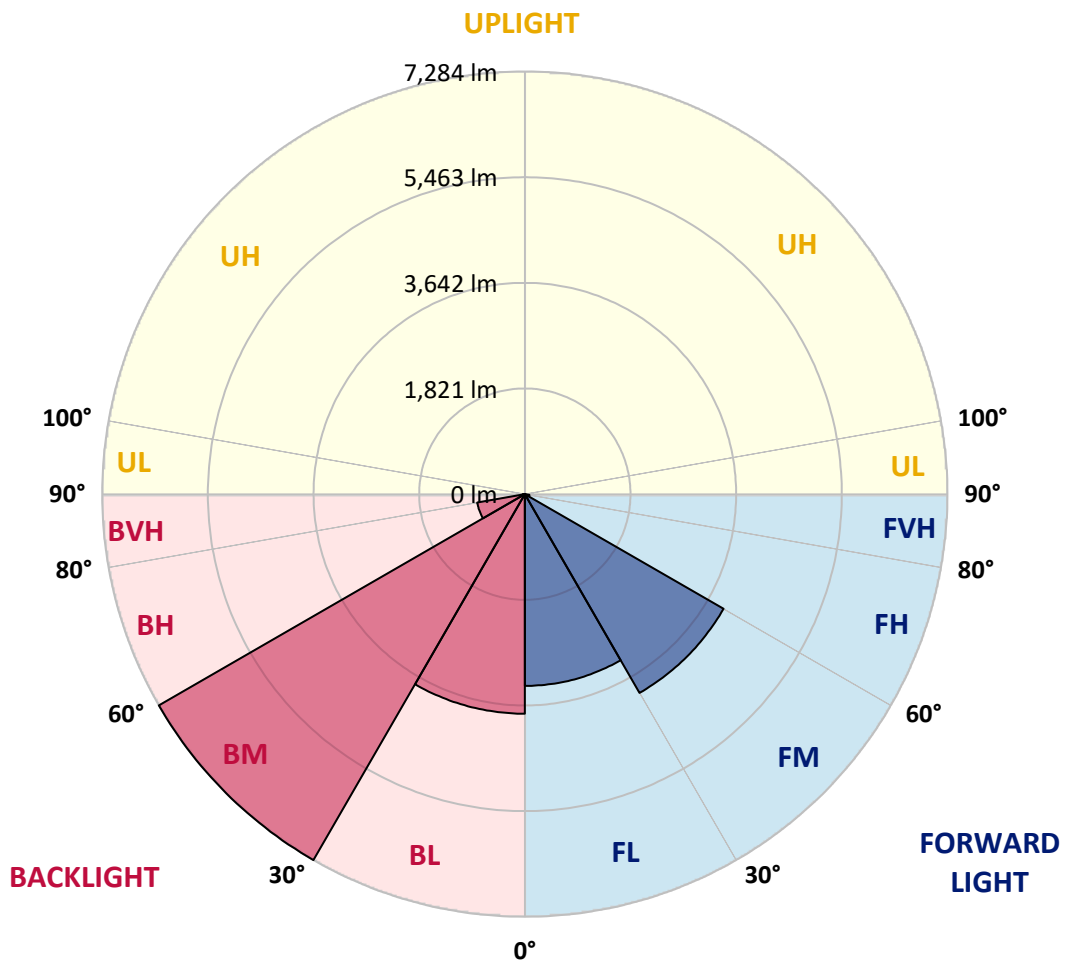
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3304.5	17.1			
FM (30°-60°)	3955.4	20.5			
FH (60°-80°)	79.3	0.4			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	3784.3	19.6	B4/5000		
BM (30°-60°)	7283.8	37.8	B4/8500		
BH (60°-80°)	833.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.9	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°	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2
2.5°	8357.1	8303.2	8252.2	8235.2	8306.1	8382.6	8334.4	8337.2	8320.2	8351.4
5°	8419.4	8345.7	8311.7	8286.2	8297.6	8376.9	8308.9	8334.4	8306.1	8342.9
7.5°	8396.7	8345.7	8311.7	8263.6	8300.4	8393.9	8328.7	8331.6	8317.4	8351.4
10°	8382.6	8345.7	8303.2	8308.9	8351.4	8430.8	8379.7	8408.1	8388.2	8408.1
12.5°	8416.6	8376.9	8354.2	8354.2	8391.1	8481.8	8456.3	8481.8	8473.3	8490.3
15°	8096.4	8133.2	8348.6	8444.9	8518.6	8609.3	8597.9	8623.5	8629.1	8654.6
17.5°	6829.6	6792.8	6775.8	7271.7	8589.4	8870.0	8861.5	8858.7	8830.3	8810.5
20°	6996.8	6982.6	6962.8	6999.6	7147.0	9006.0	9062.7	8714.1	8612.1	8603.6
22.5°	7263.2	7240.5	7166.8	7169.7	7215.0	7830.0	8782.1	8464.8	8430.8	8410.9
25°	7393.6	7348.2	7288.7	7271.7	7285.9	7172.5	7844.1	8221.0	8053.8	7977.3
27.5°	7164.0	7166.8	7118.7	7164.0	7110.2	6600.1	6313.9	7745.0	7739.3	7705.3
30°	6991.1	6982.6	6926.0	6982.6	6611.4	6041.8	5919.9	7223.5	7164.0	7118.7
32.5°	6461.2	6466.9	6631.2	6852.3	6243.0	5792.4	5424.0	6452.7	7016.7	6991.1
35°	4622.0	4633.4	5217.1	6308.2	5684.7	5296.5	5268.2	5577.0	6784.3	6795.6
37.5°	4449.2	4449.2	4435.0	4613.5	5245.5	5095.3	5152.0	5120.8	6214.7	6243.0
40°	4324.5	4299.0	4279.1	3998.6	3647.2	4953.6	4993.3	4851.6	5874.6	5880.3
42.5°	4174.3	4145.9	4151.6	3633.0	3264.6	4602.2	4491.7	4301.8	5307.8	5313.5
45°	3899.4	3947.6	3981.6	3179.6	3151.3	3287.3	4143.1	4024.1	4925.3	5030.1
47.5°	1983.7	2026.2	3108.8	2924.5	2989.7	2921.7	3499.8	3502.7	4097.8	4446.3
50°	1799.5	1788.2	1791.0	1706.0	2760.2	2363.4	2530.6	3210.8	3281.6	3780.4
52.5°	1677.6	1674.8	1501.9	1334.8	1734.3	2080.1	1836.3	2323.8	2440.0	3202.3
55°	1241.2	1331.9	1184.6	1255.4	1085.4	1666.3	1657.8	2097.1	2136.7	2567.5
57.5°	11.3	14.2	34.0	955.0	751.0	833.2	1144.9	1431.1	1501.9	2000.7
60°	2.8	5.7	14.2	28.3	487.4	512.9	765.1	827.5	932.3	1193.1
62.5°	0.0	0.0	5.7	14.2	25.5	209.7	243.7	266.4	410.9	609.3
65°	0.0	0.0	2.8	8.5	14.2	34.0	59.5	124.7	178.5	221.0
67.5°	0.0	0.0	2.8	5.7	11.3	17.0	34.0	48.2	76.5	130.4
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.0	45.3	65.2
72.5°	0.0	0.0	2.8	5.7	5.7	17.0	17.0	25.5	34.0	42.5
75°	0.0	0.0	2.8	2.8	5.7	11.3	17.0	19.8	22.7	34.0
77.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	22.7	19.8	19.8
80°	0.0	0.0	2.8	8.5	8.5	14.2	17.0	22.7	14.2	14.2
82.5°	0.0	0.0	2.8	11.3	8.5	28.3	28.3	31.2	11.3	11.3
85°	0.0	0.0	8.5	5.7	17.0	28.3	25.5	17.0	14.2	8.5
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	19.8	17.0	5.7	5.7
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°
8320.2	0°	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2	8320.2
8269.2	2.5°	8382.6	8345.7	8422.2	8413.7	8376.9	8359.9	8340.1	8323.1	8198.4
8274.9	5°	8385.4	8328.7	8422.2	8405.2	8399.6	8371.2	8354.2	8379.7	8266.4
8297.6	7.5°	8385.4	8328.7	8430.8	8436.4	8427.9	8405.2	8402.4	8419.4	8325.9
8337.2	10°	8442.1	8419.4	8504.4	8512.9	8501.6	8495.9	8481.8	8470.4	8371.2
8473.3	12.5°	8561.1	8515.8	8612.1	8637.6	8629.1	8643.3	8609.3	8626.3	8524.3
8612.1	15°	8705.6	8708.5	8782.1	8838.8	8833.2	8878.5	8827.5	8872.8	8799.2
8770.8	17.5°	8926.7	8957.8	9062.7	9147.7	9178.9	9212.9	9178.9	9193.1	9088.2
8595.1	20°	8694.3	8810.5	9314.9	9470.8	9536.0	9567.1	9510.5	9527.5	9422.6
8379.7	22.5°	8484.6	8634.8	9082.5	9570.0	9771.2	9833.5	9813.7	9810.8	9771.2
7954.7	25°	8175.7	8478.9	8680.1	9195.9	9827.8	9941.2	9952.5	9949.7	9890.2
7693.9	27.5°	7796.0	7864.0	8385.4	8700.0	9431.1	9861.9	9844.8	9762.7	9683.3
7152.7	30°	7311.4	7620.3	7855.5	8357.1	8918.2	9618.1	9618.1	9555.8	9473.6
6960.0	32.5°	7064.8	7464.4	7682.6	7864.0	8342.9	9346.1	9459.4	9394.3	9329.1
6809.8	35°	6934.5	6994.0	7504.1	7668.4	8073.7	8821.8	9280.9	9215.7	9167.6
6410.2	37.5°	6648.2	6787.1	7025.2	7464.4	7589.1	8393.9	9042.9	9008.9	8952.2
5891.6	40°	6010.6	6381.9	6747.4	7164.0	7294.4	7844.1	8753.8	8768.0	8691.5
5339.0	42.5°	5633.7	5885.9	6458.4	6738.9	7090.3	7489.9	8473.3	8495.9	8442.1
5058.5	45°	5191.6	5472.2	5874.6	6384.7	6863.6	7002.5	7977.3	8215.4	8170.0
4500.2	47.5°	4786.4	5013.1	5506.2	6022.0	6551.9	6532.1	7407.7	7855.5	7793.1
4072.3	50°	4211.1	4607.9	4840.2	5313.5	6104.1	6158.0	6801.3	7433.2	7382.2
3460.1	52.5°	3550.8	4049.6	4494.5	4928.1	5650.7	5778.3	6237.3	7002.5	6968.5
2644.0	55°	3103.1	3465.8	3967.4	4316.0	5101.0	5441.0	5815.1	6591.6	6574.6
2173.6	57.5°	2207.6	2907.5	3321.3	3808.7	4222.5	4837.4	5115.1	5755.6	5596.9
1204.4	60°	1496.3	1825.0	2329.4	2853.7	3131.4	3746.4	4004.3	4517.2	4474.7
719.8	62.5°	790.6	1093.9	1453.8	1717.3	1918.5	2516.5	2624.2	3176.8	3162.6
289.1	65°	348.6	461.9	787.8	923.8	1130.7	1408.4	1501.9	1700.3	1652.1
141.7	67.5°	181.4	274.9	444.9	546.9	688.6	793.5	870.0	932.3	972.0
93.5	70°	110.5	201.2	274.9	379.7	473.3	558.3	617.8	702.8	753.8
48.2	72.5°	82.2	127.5	189.9	291.9	342.9	442.1	501.6	563.9	609.3
39.7	75°	45.3	85.0	153.0	229.5	274.9	359.9	413.7	456.3	470.4
22.7	77.5°	28.3	65.2	127.5	178.5	215.4	291.9	277.7	317.4	351.4
17.0	80°	19.8	48.2	99.2	147.4	150.2	187.0	221.0	255.0	277.7
11.3	82.5°	14.2	39.7	73.7	113.4	99.2	144.5	172.9	198.4	144.5
8.5	85°	11.3	28.3	36.8	68.0	56.7	102.0	87.8	85.0	56.7
5.7	87.5°	8.5	14.2	25.5	31.2	22.7	22.7	28.3	34.0	28.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8320.2
8113.4
8170.0
8218.2
8289.1
8433.6
8677.3
8997.5
9348.9
9643.6
9799.5
9621.0
9442.4
9275.2
9099.5
8895.5
8674.5
8436.4
8175.7
7838.5
7390.7
6991.1
6594.4
5579.9
4477.5
3165.4
1632.3
972.0
756.6
617.8
461.9
357.1
280.6
104.9
56.7
28.3
0.0

(END OF REPORT)