

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: P636866

Luminaire Tested: **IFLD-S-SA6D-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636866
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21334.6 lumens
Efficiency: N/A
Efficacy: 57.9 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): 368.2
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

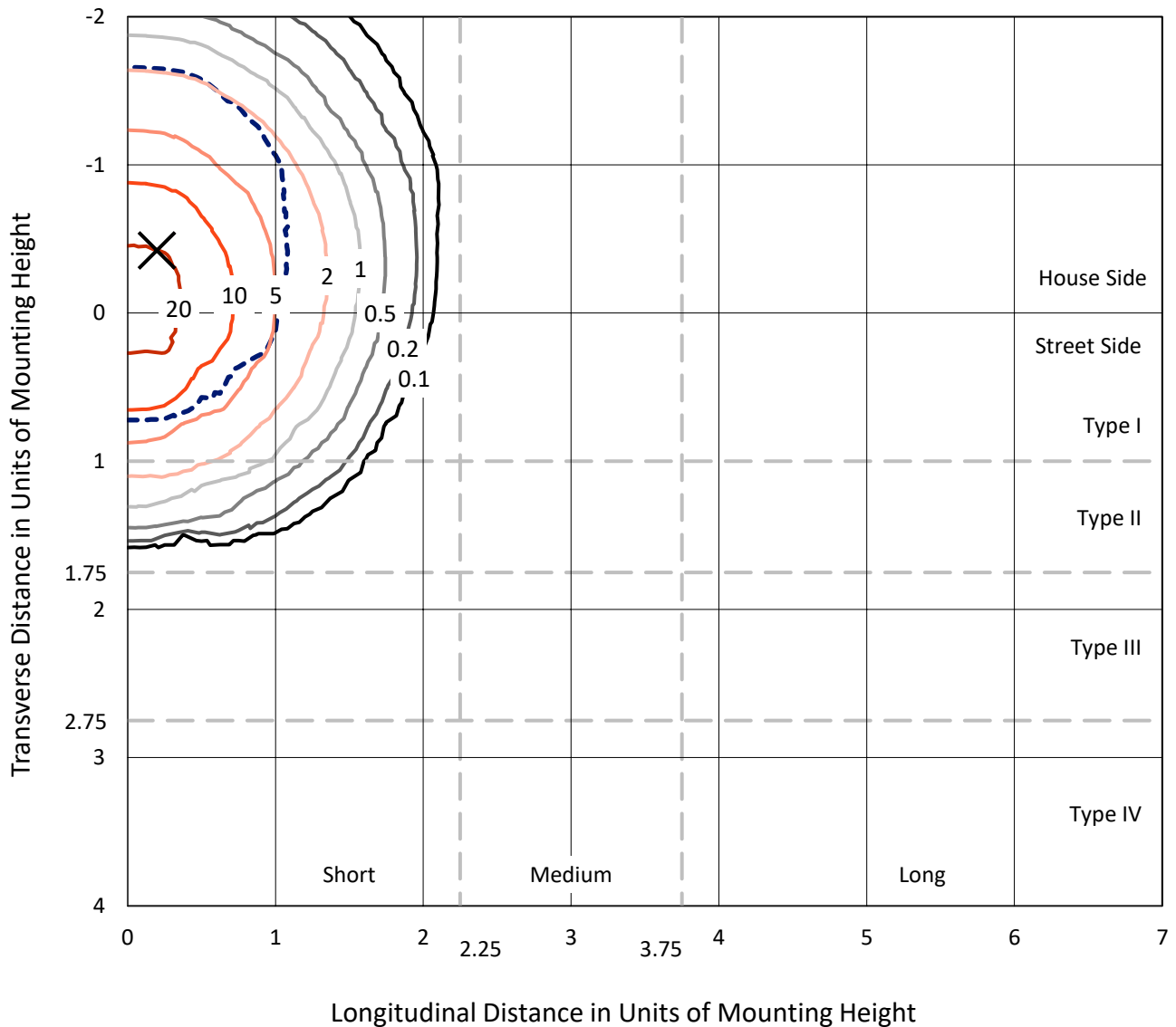




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Iso-Footcandle Lines of Horizontal Illumination

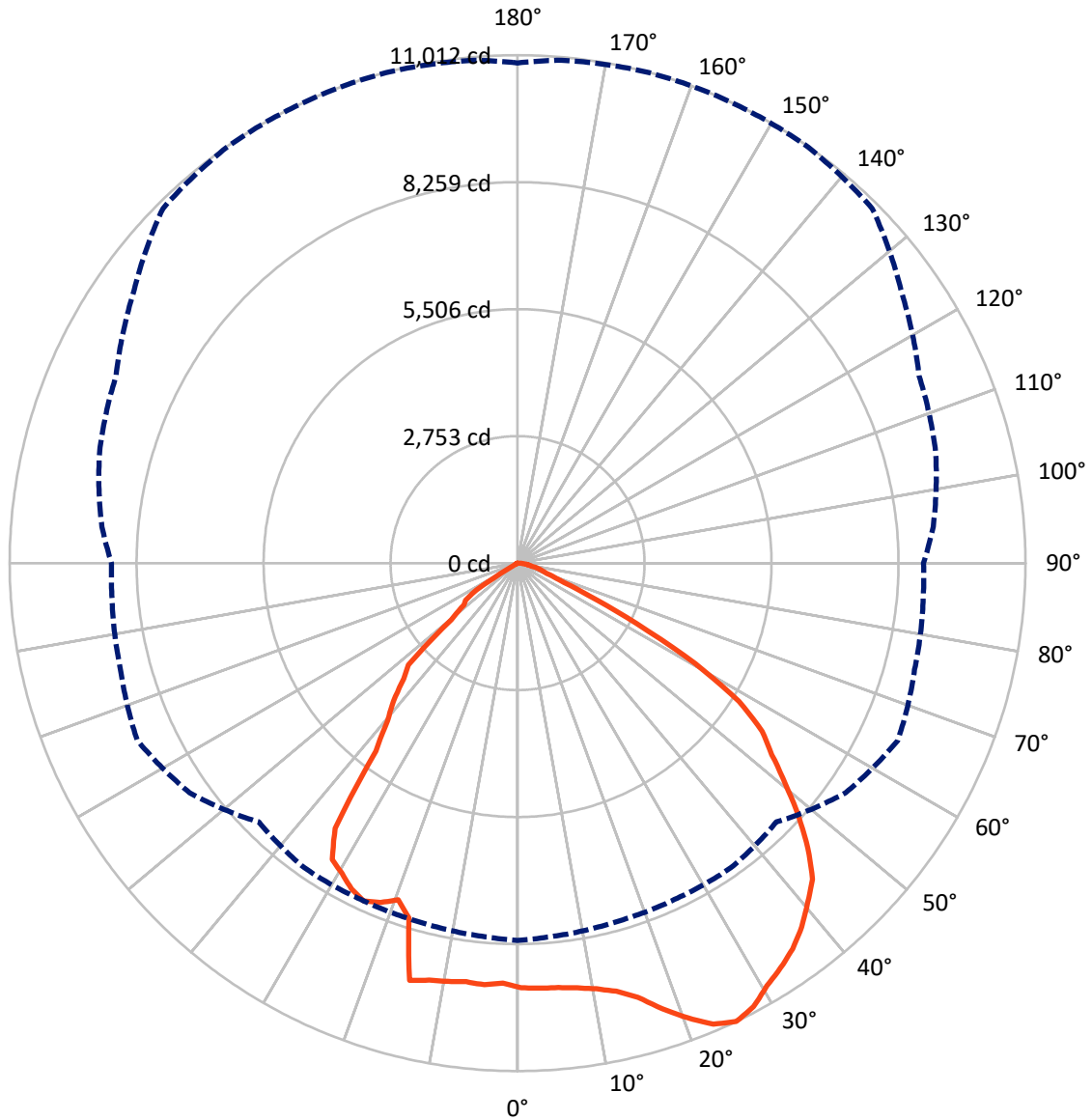
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23 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	13208.3	0.0	13208.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8126.3	0.0	8126.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	21334.6	0.0	21334.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.1	4.1
10°-20°	2696.6	12.6
20°-30°	4263.2	20.0
30°-40°	4815.7	22.6
40°-50°	4510.0	21.1
50°-60°	3109.3	14.6
60°-70°	835.4	3.9
70°-80°	174.1	0.8
80°-90°	47.1	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°	21334.6	100.0
0°-180°	21334.6	100.0



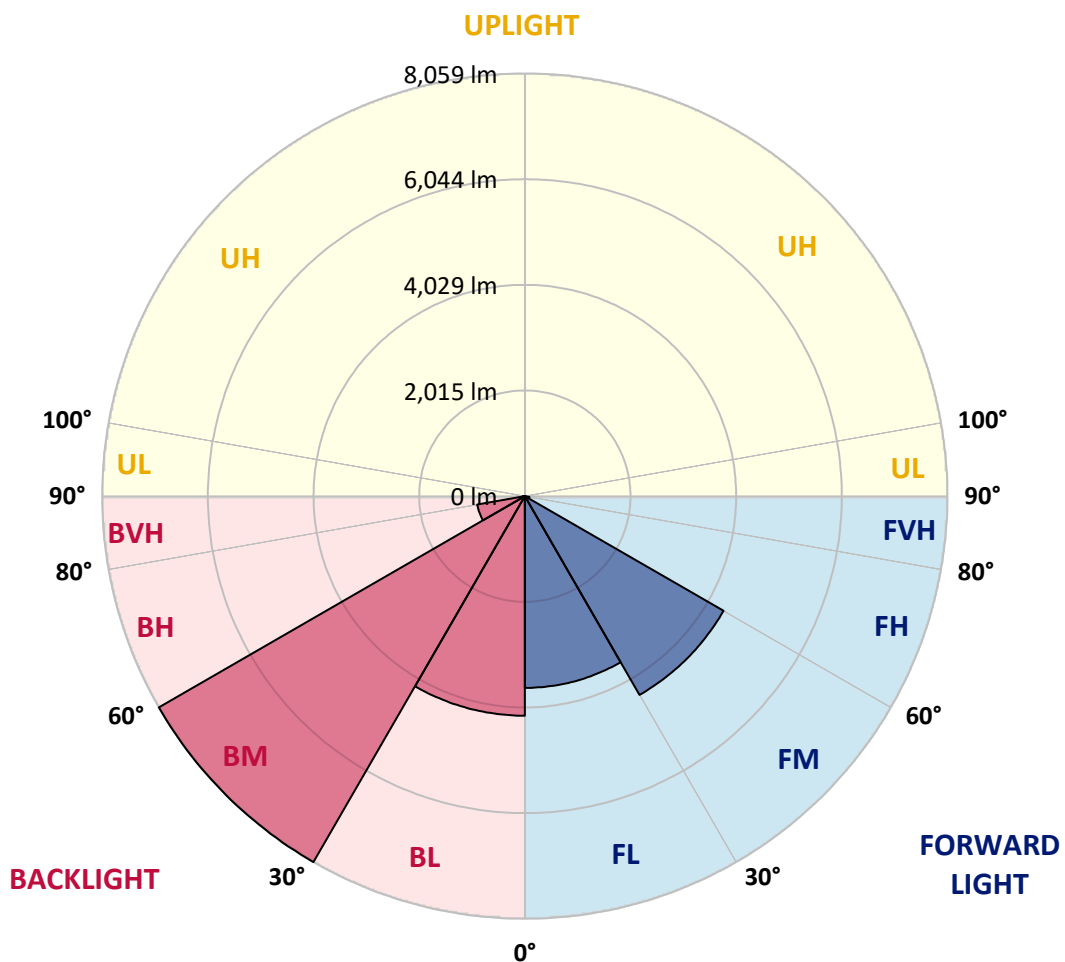
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3656.1	17.1			
FM	(30°-60°)	4376.2	20.5			
FH	(60°-80°)	87.7	0.4			G0/660
FVH	(80°-90°)	6.3	0.0			G0/10
BL	(0°-30°)	4187.0	19.6	B4/5000		
BM	(30°-60°)	8058.8	37.8	B4/8500		
BH	(60°-80°)	921.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	40.8	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°	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5
2.5°	9246.3	9186.7	9130.3	9111.4	9189.8	9274.5	9221.2	9224.3	9205.5	9240.0
5°	9315.3	9233.7	9196.1	9167.9	9180.4	9268.2	9193.0	9221.2	9189.8	9230.6
7.5°	9290.2	9233.7	9196.1	9142.8	9183.6	9287.0	9214.9	9218.1	9202.4	9240.0
10°	9274.5	9233.7	9186.7	9193.0	9240.0	9327.8	9271.4	9302.7	9280.8	9302.7
12.5°	9312.1	9268.2	9243.1	9243.1	9283.9	9384.2	9356.0	9384.2	9374.8	9393.6
15°	8957.8	8998.6	9236.9	9343.5	9425.0	9525.3	9512.8	9541.0	9547.3	9575.5
17.5°	7556.3	7515.5	7496.7	8045.4	9503.4	9813.8	9804.4	9801.2	9769.9	9747.9
20°	7741.3	7725.6	7703.7	7744.4	7907.5	9964.3	10027.0	9641.3	9528.5	9519.1
22.5°	8036.0	8010.9	7929.4	7932.5	7982.7	8663.1	9716.6	9365.4	9327.8	9305.8
25°	8180.2	8130.1	8064.2	8045.4	8061.1	7935.7	8678.8	9095.8	8910.8	8826.1
27.5°	7926.3	7929.4	7876.1	7926.3	7866.7	7302.3	6985.7	8569.0	8562.8	8525.1
30°	7735.0	7725.6	7662.9	7725.6	7314.9	6684.7	6549.8	7992.1	7926.3	7876.1
32.5°	7148.7	7155.0	7336.8	7581.4	6907.3	6408.7	6001.1	7139.3	7763.2	7735.0
35°	5113.8	5126.4	5772.3	6979.4	6289.6	5860.0	5828.7	6170.5	7506.1	7518.7
37.5°	4922.6	4922.6	4906.9	5104.4	5803.6	5637.4	5700.1	5665.7	6875.9	6907.3
40°	4784.6	4756.4	4734.4	4424.0	4035.2	5480.7	5524.6	5367.8	6499.7	6505.9
42.5°	4618.4	4587.1	4593.3	4019.6	3612.0	5091.9	4969.6	4759.5	5872.6	5878.9
45°	4314.3	4367.6	4405.2	3517.9	3486.6	3637.1	4583.9	4452.3	5449.3	5565.3
47.5°	2194.8	2241.8	3439.5	3235.7	3307.8	3232.6	3872.2	3875.3	4533.8	4919.4
50°	1991.0	1978.4	1981.6	1887.5	3053.9	2614.9	2799.9	3552.4	3630.8	4182.6
52.5°	1856.2	1853.0	1661.8	1476.8	1918.9	2301.4	2031.7	2571.0	2699.6	3543.0
55°	1373.3	1473.6	1310.6	1389.0	1200.9	1843.6	1834.2	2320.2	2364.1	2840.7
57.5°	12.5	15.7	37.6	1056.6	830.9	921.8	1266.7	1583.4	1661.8	2213.6
60°	3.1	6.3	15.7	31.4	539.3	567.5	846.6	915.5	1031.5	1320.0
62.5°	0.0	0.0	6.3	15.7	28.2	232.0	269.6	294.7	454.6	674.1
65°	0.0	0.0	3.1	9.4	15.7	37.6	65.8	138.0	197.5	244.6
67.5°	0.0	0.0	3.1	6.3	12.5	18.8	37.6	53.3	84.7	144.2
70°	0.0	0.0	3.1	6.3	9.4	15.7	25.1	37.6	50.2	72.1
72.5°	0.0	0.0	3.1	6.3	6.3	18.8	18.8	28.2	37.6	47.0
75°	0.0	0.0	3.1	3.1	6.3	12.5	18.8	21.9	25.1	37.6
77.5°	0.0	0.0	3.1	6.3	9.4	12.5	15.7	25.1	21.9	21.9
80°	0.0	0.0	3.1	9.4	9.4	15.7	18.8	25.1	15.7	15.7
82.5°	0.0	0.0	3.1	12.5	9.4	31.4	31.4	34.5	12.5	12.5
85°	0.0	0.0	9.4	6.3	18.8	31.4	28.2	18.8	15.7	9.4
87.5°	0.0	0.0	3.1	3.1	6.3	9.4	21.9	18.8	6.3	6.3
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°
9205.5	0°	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5	9205.5
9149.1	2.5°	9274.5	9233.7	9318.4	9309.0	9268.2	9249.4	9227.5	9208.6	9070.7
9155.3	5°	9277.6	9214.9	9318.4	9299.6	9293.3	9261.9	9243.1	9271.4	9145.9
9180.4	7.5°	9277.6	9214.9	9327.8	9334.1	9324.7	9299.6	9296.4	9315.3	9211.8
9224.3	10°	9340.3	9315.3	9409.3	9418.7	9406.2	9399.9	9384.2	9371.7	9261.9
9374.8	12.5°	9472.0	9421.9	9528.5	9556.7	9547.3	9562.9	9525.3	9544.1	9431.3
9528.5	15°	9631.9	9635.1	9716.6	9779.3	9773.0	9823.2	9766.7	9816.9	9735.4
9704.0	17.5°	9876.5	9911.0	10027.0	10121.0	10155.5	10193.2	10155.5	10171.2	10055.2
9509.6	20°	9619.4	9747.9	10306.0	10478.5	10550.6	10585.1	10522.4	10541.2	10425.2
9271.4	22.5°	9387.4	9553.5	10048.9	10588.2	10810.8	10879.8	10857.9	10854.7	10810.8
8801.0	25°	9045.6	9381.1	9603.7	10174.3	10873.5	10999.0	11011.5	11008.4	10942.5
8512.6	27.5°	8625.5	8700.7	9277.6	9625.7	10434.6	10911.2	10892.4	10801.4	10713.6
7913.7	30°	8089.3	8431.1	8691.3	9246.3	9867.1	10641.5	10641.5	10572.5	10481.6
7700.5	32.5°	7816.5	8258.6	8500.0	8700.7	9230.6	10340.5	10465.9	10393.8	10321.7
7534.3	35°	7672.3	7738.1	8302.5	8484.4	8932.7	9760.5	10268.4	10196.3	10143.0
7092.3	37.5°	7355.6	7509.3	7772.6	8258.6	8396.6	9287.0	10005.0	9967.4	9904.7
6518.5	40°	6650.2	7060.9	7465.4	7926.3	8070.5	8678.8	9685.2	9700.9	9616.2
5907.1	42.5°	6233.2	6512.2	7145.6	7456.0	7844.8	8286.8	9374.8	9399.9	9340.3
5596.7	45°	5744.0	6054.4	6499.7	7064.0	7593.9	7747.6	8826.1	9089.5	9039.3
4979.0	47.5°	5295.7	5546.5	6092.1	6662.7	7249.0	7227.1	8195.9	8691.3	8622.3
4505.6	50°	4659.2	5098.1	5355.2	5878.9	6753.6	6813.2	7524.9	8224.1	8167.7
3828.3	52.5°	3928.6	4480.5	4972.7	5452.4	6252.0	6393.1	6901.0	7747.6	7709.9
2925.3	55°	3433.3	3834.6	4389.5	4775.2	5643.7	6020.0	6433.8	7292.9	7274.1
2404.8	57.5°	2442.5	3216.9	3674.7	4214.0	4671.7	5352.1	5659.4	6368.0	6192.4
1332.5	60°	1655.5	2019.2	2577.3	3157.3	3464.6	4145.0	4430.3	4997.8	4950.8
796.4	62.5°	874.8	1210.3	1608.5	1900.0	2122.7	2784.2	2903.4	3514.8	3499.1
319.8	65°	385.7	511.1	871.6	1022.1	1251.0	1558.3	1661.8	1881.2	1827.9
156.8	67.5°	200.7	304.1	492.3	605.1	761.9	877.9	962.6	1031.5	1075.4
103.5	70°	122.3	222.6	304.1	420.1	523.6	617.7	683.5	777.6	834.0
53.3	72.5°	90.9	141.1	210.1	322.9	379.4	489.1	555.0	623.9	674.1
43.9	75°	50.2	94.1	169.3	254.0	304.1	398.2	457.8	504.8	520.5
25.1	77.5°	31.4	72.1	141.1	197.5	238.3	322.9	307.3	351.2	388.8
18.8	80°	21.9	53.3	109.7	163.0	166.2	206.9	244.6	282.2	307.3
12.5	82.5°	15.7	43.9	81.5	125.4	109.7	159.9	191.3	219.5	159.9
9.4	85°	12.5	31.4	40.8	75.2	62.7	112.9	97.2	94.1	62.7
6.3	87.5°	9.4	15.7	28.2	34.5	25.1	25.1	31.4	37.6	31.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9205.5
8976.6
9039.3
9092.6
9171.0
9330.9
9600.6
9954.9
10343.7
10669.7
10842.2
10644.7
10447.1
10262.1
10067.7
9842.0
9597.4
9334.1
9045.6
8672.5
8177.1
7735.0
7296.1
6173.6
4953.9
3502.2
1806.0
1075.4
837.1
683.5
511.1
395.1
310.4
116.0
62.7
31.4
0.0

(END OF REPORT)