

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: P636647

Luminaire Tested: **IFLD-L-SA8B-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636647
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21516.7 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

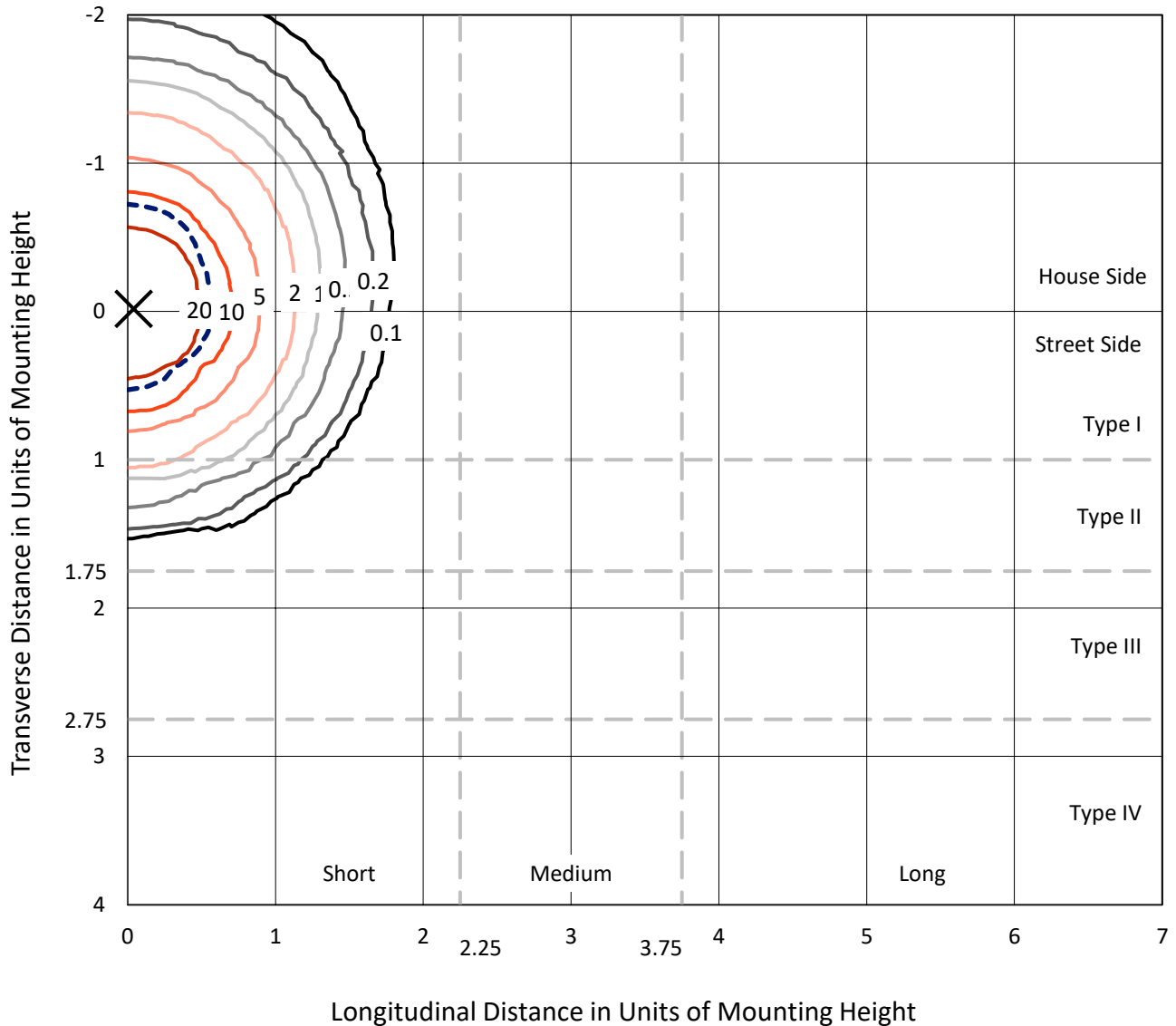
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

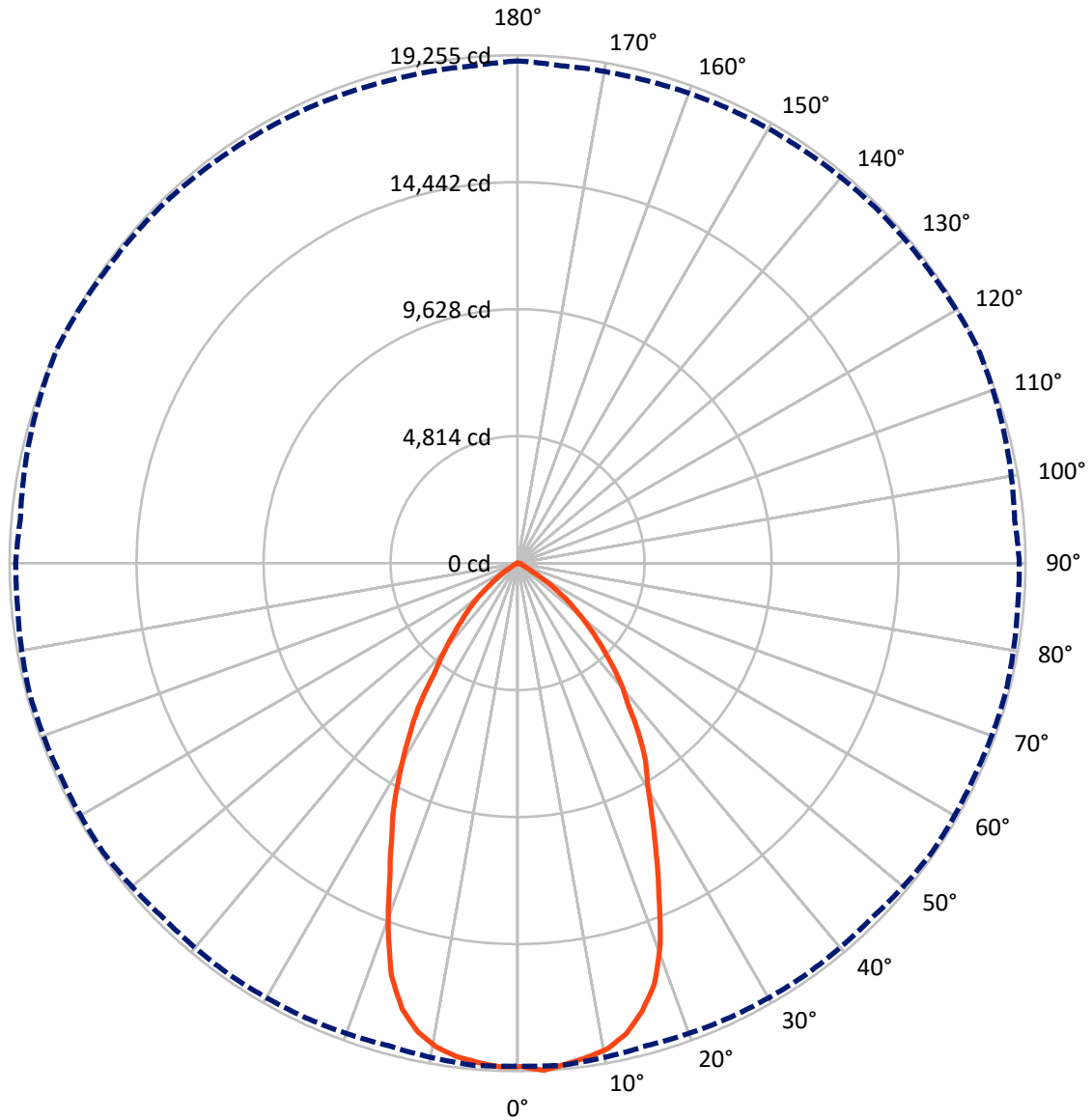
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12313.8	0.0	12313.8
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	9203.0	0.0	9203.0
	% Fixture	42.8	0.0	42.8
Total	Lumens	21516.7	0.0	21516.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1798.1	8.4
10°-20°	4767.7	22.2
20°-30°	5453.2	25.3
30°-40°	4673.2	21.7
40°-50°	3090.1	14.4
50°-60°	1348.4	6.3
60°-70°	264.9	1.2
70°-80°	95.6	0.4
80°-90°	25.4	0.1
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°	21516.7	100.0
0°-180°	21516.7	100.0



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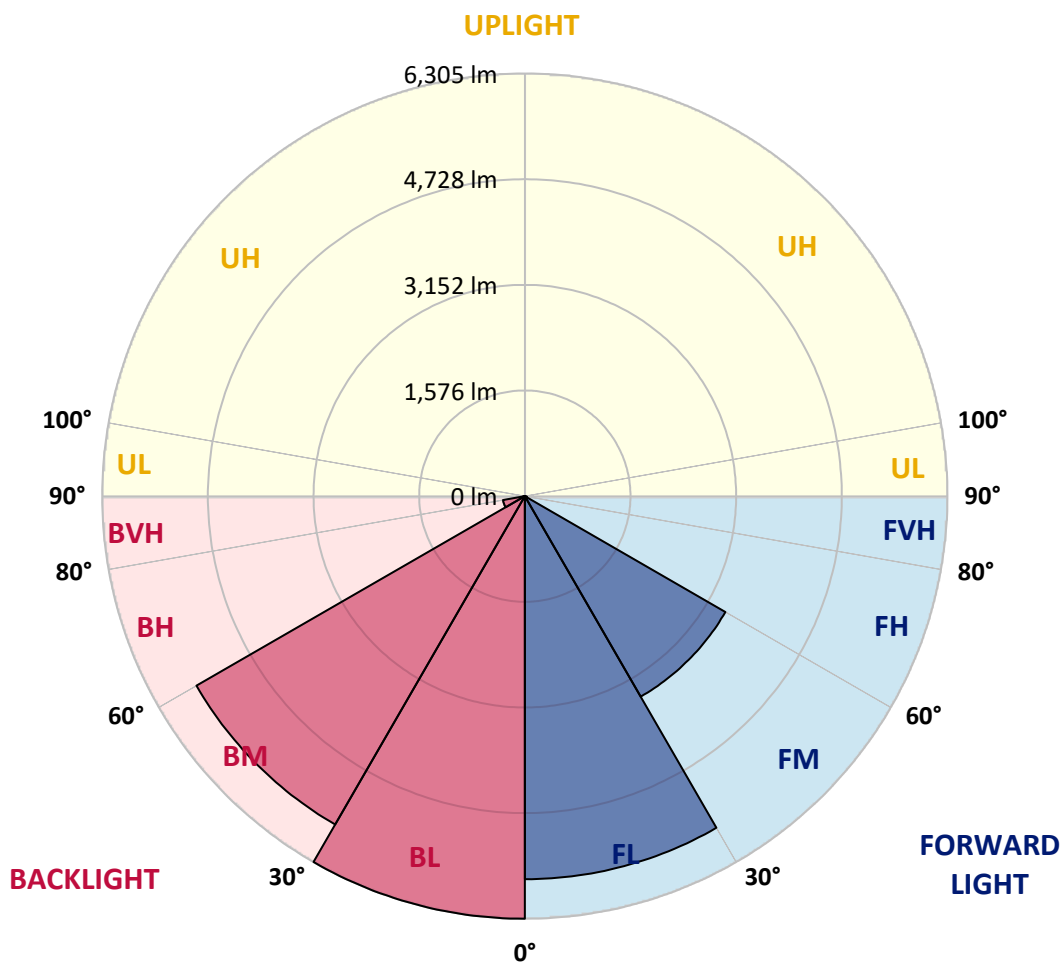
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5714.4	26.6			
FM (30°-60°)	3455.1	16.1			
FH (60°-80°)	29.3	0.1			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	6304.6	29.3	B5		
BM (30°-60°)	5656.7	26.3	B4/8500		
BH (60°-80°)	331.3	1.5	B1/500		G1/500
BVH (80°-90°)	21.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8
2.5°	19063.3	19109.1	18935.2	19013.0	19045.0	19003.9	19154.8	19109.1	19145.6	19031.3
5°	19063.3	19109.1	18907.8	18944.4	18953.5	18875.8	19040.4	18985.6	18990.1	18871.2
7.5°	18944.4	18999.3	18816.3	18843.8	18848.3	18784.3	18926.1	18848.3	18820.9	18697.4
10°	18624.2	18656.3	18491.6	18560.2	18624.2	18564.8	18688.3	18601.4	18601.4	18491.6
12.5°	18116.6	18176.0	17993.1	18075.4	18130.3	18061.7	18203.5	18171.4	18176.0	18066.2
15°	17192.7	16986.8	17206.4	17371.0	17375.6	17361.9	17494.5	17462.5	17485.4	17320.7
17.5°	12701.3	12650.9	12907.1	14850.9	16296.2	16492.9	16515.7	16341.9	16264.2	16104.1
20°	11768.2	11804.8	11749.9	11759.1	12897.9	15262.5	15120.8	14690.8	14494.2	14334.1
22.5°	11086.7	11027.3	10990.7	10967.8	10999.8	12541.2	13561.1	12911.6	12806.4	12728.7
25°	10345.8	10318.3	10272.6	10263.5	10245.2	9984.5	11452.6	11512.1	11342.9	11246.8
27.5°	9655.1	9636.9	9586.5	9582.0	9371.6	8740.4	8900.5	10313.8	10268.0	10231.4
30°	8918.8	8882.2	8854.7	8854.7	8219.0	7569.5	7308.8	8992.0	8992.0	8959.9
32.5°	8118.4	8086.4	8095.5	7985.7	7226.5	6631.9	6220.3	7761.6	8241.9	8214.4
35°	4962.5	4953.4	5881.8	7103.0	6211.1	5671.4	5644.0	6641.1	7340.8	7414.0
37.5°	4418.2	4390.8	4404.5	4482.3	5319.2	5104.3	5095.1	5264.4	6247.7	6284.3
40°	3965.4	3947.1	3933.4	3654.4	3389.1	4555.4	4523.4	4413.7	5337.5	5401.6
42.5°	3535.5	3517.2	3517.2	3123.9	2693.9	3745.9	3759.6	3631.5	4500.6	4523.4
45°	3091.8	3078.1	3000.4	2492.7	2369.2	2488.1	3114.7	2968.4	3572.1	3809.9
47.5°	1459.0	1449.9	2099.3	2071.9	2062.8	1989.6	2378.3	2460.7	2835.7	3073.5
50°	1170.9	1161.7	1106.8	974.2	1696.9	1509.3	1715.1	1893.5	2012.4	2232.0
52.5°	969.6	960.5	846.1	750.1	942.2	1102.3	1024.5	1266.9	1262.3	1500.2
55°	635.7	590.0	649.5	612.9	494.0	800.4	782.1	960.5	937.6	1143.4
57.5°	13.7	13.7	32.0	347.6	311.0	338.5	448.2	548.8	617.5	676.9
60°	4.6	4.6	9.1	18.3	128.1	141.8	173.8	201.2	283.6	352.2
62.5°	0.0	0.0	4.6	9.1	18.3	73.2	82.3	96.0	132.6	182.9
65°	0.0	0.0	0.0	4.6	9.1	18.3	27.4	59.5	82.3	105.2
67.5°	0.0	0.0	0.0	4.6	4.6	9.1	18.3	27.4	36.6	73.2
70°	0.0	0.0	0.0	4.6	4.6	9.1	13.7	18.3	27.4	36.6
72.5°	0.0	0.0	0.0	4.6	4.6	13.7	9.1	13.7	18.3	22.9
75°	0.0	0.0	0.0	4.6	4.6	4.6	9.1	13.7	13.7	18.3
77.5°	0.0	0.0	0.0	4.6	9.1	9.1	9.1	9.1	9.1	13.7
80°	0.0	0.0	0.0	4.6	4.6	9.1	13.7	18.3	9.1	9.1
82.5°	0.0	0.0	0.0	9.1	4.6	18.3	27.4	22.9	9.1	4.6
85°	0.0	0.0	0.0	4.6	18.3	22.9	22.9	13.7	4.6	4.6
87.5°	0.0	0.0	0.0	4.6	4.6	9.1	13.7	13.7	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°
19090.8	0°	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8	19090.8
19022.1	2.5°	18917.0	19095.3	19255.4	19154.8	19118.2	19045.0	18990.1	18930.7	18926.1
18857.5	5°	18752.3	18921.5	19077.0	18958.1	18967.3	18930.7	18894.1	18880.4	18889.5
18688.3	7.5°	18610.5	18752.3	18921.5	18820.9	18848.3	18825.5	18807.2	18779.7	18820.9
18468.7	10°	18395.5	18523.6	18720.3	18624.2	18610.5	18587.6	18569.4	18519.0	18541.9
18070.8	12.5°	17924.5	18084.5	18308.6	18198.9	18235.5	18171.4	18144.0	18112.0	18116.6
17380.2	15°	17284.1	17407.6	17636.3	17549.4	17576.9	17535.7	17535.7	17535.7	17567.7
16127.0	17.5°	16168.1	16419.7	16781.0	16671.3	16712.4	16721.6	16712.4	16744.4	16785.6
14343.2	20°	14352.4	14782.3	15440.9	15655.9	15742.8	15747.4	15683.3	15761.1	15843.4
12673.8	22.5°	12683.0	13135.8	13716.6	14306.6	14672.5	14654.2	14663.4	14713.7	14800.6
11187.3	25°	11237.7	11672.2	12198.1	12724.1	13524.5	13689.2	13693.8	13739.5	13808.1
10172.0	27.5°	10194.8	10364.1	10844.3	11374.9	12234.7	12760.7	12733.3	12774.4	12847.6
8900.5	30°	8937.1	9586.5	9696.3	10021.0	10762.0	11727.0	11731.6	11777.4	11850.5
8150.4	32.5°	8127.5	8557.5	8895.9	8905.1	9536.2	10528.7	10725.4	10771.1	10821.4
7372.9	35°	7368.3	7418.6	7876.0	8004.0	8369.9	9353.3	9700.9	9728.3	9810.7
6270.6	37.5°	6375.8	6673.1	6801.1	7258.5	7276.8	8072.6	8763.3	8735.8	8799.9
5397.0	40°	5465.6	5749.2	6073.9	6407.8	6453.5	7048.1	7811.9	7839.4	7866.8
4477.7	42.5°	4514.3	4875.6	5209.5	5433.6	5744.6	6087.6	6814.9	6942.9	7007.0
3837.4	45°	3906.0	4006.6	4404.5	4733.8	5049.4	5209.5	5891.0	6124.2	6165.4
3037.0	47.5°	3078.1	3416.6	3686.4	3965.4	4358.8	4500.6	4994.5	5319.2	5351.3
2254.8	50°	2378.3	2620.7	2991.2	3242.8	3700.1	3777.9	4116.4	4537.1	4578.3
1509.3	52.5°	1701.4	2030.7	2392.1	2634.5	3073.5	3174.2	3425.7	3828.2	3855.7
1157.2	55°	1221.2	1436.2	1733.4	2081.0	2401.2	2625.3	2799.1	3183.3	3219.9
759.2	57.5°	832.4	1033.7	1157.2	1504.8	1696.9	1939.3	2081.0	2373.8	2401.2
361.3	60°	397.9	494.0	590.0	763.8	887.3	1093.1	1184.6	1303.5	1335.5
219.5	62.5°	256.1	301.9	384.2	457.4	576.3	704.4	740.9	841.6	878.2
137.2	65°	169.2	215.0	301.9	320.2	439.1	539.7	585.4	658.6	699.8
82.3	67.5°	96.0	150.9	224.1	265.3	347.6	443.7	494.0	558.0	594.6
54.9	70°	64.0	123.5	178.4	219.5	274.4	356.8	420.8	475.7	498.5
27.4	72.5°	36.6	77.8	123.5	173.8	219.5	297.3	356.8	402.5	265.3
18.3	75°	22.9	59.5	105.2	146.4	182.9	237.8	288.1	283.6	118.9
13.7	77.5°	18.3	45.7	91.5	123.5	150.9	164.7	205.8	233.3	91.5
9.1	80°	13.7	36.6	82.3	105.2	59.5	118.9	160.1	173.8	64.0
9.1	82.5°	9.1	22.9	68.6	73.2	41.2	86.9	128.1	114.3	45.7
4.6	85°	4.6	13.7	22.9	41.2	36.6	41.2	32.0	45.7	32.0
4.6	87.5°	4.6	9.1	18.3	18.3	18.3	13.7	18.3	18.3	18.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19090.8
19035.9
19003.9
18935.2
18651.7
18249.2
17581.4
16922.8
15898.3
14814.3
13927.0
12916.2
11978.6
10935.8
9897.6
8877.6
7953.7
7098.4
6266.0
5429.0
4637.8
3906.0
3251.9
2456.1
1372.1
887.3
699.8
590.0
494.0
215.0
118.9
91.5
68.6
45.7
32.0
18.3
0.0

(END OF REPORT)