

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: P638401

Luminaire Tested: **IFLD-S-SA6B-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24265 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

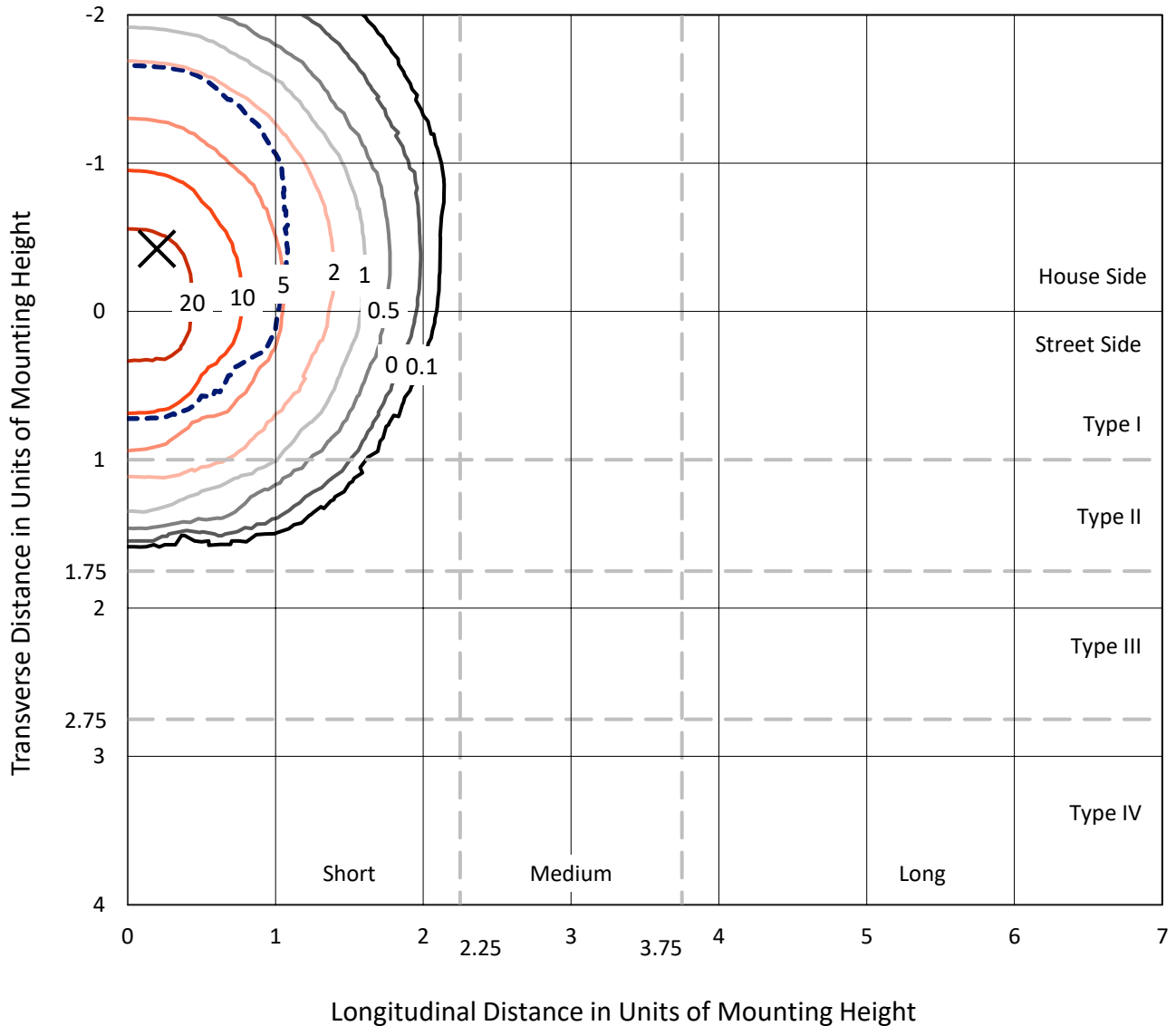
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

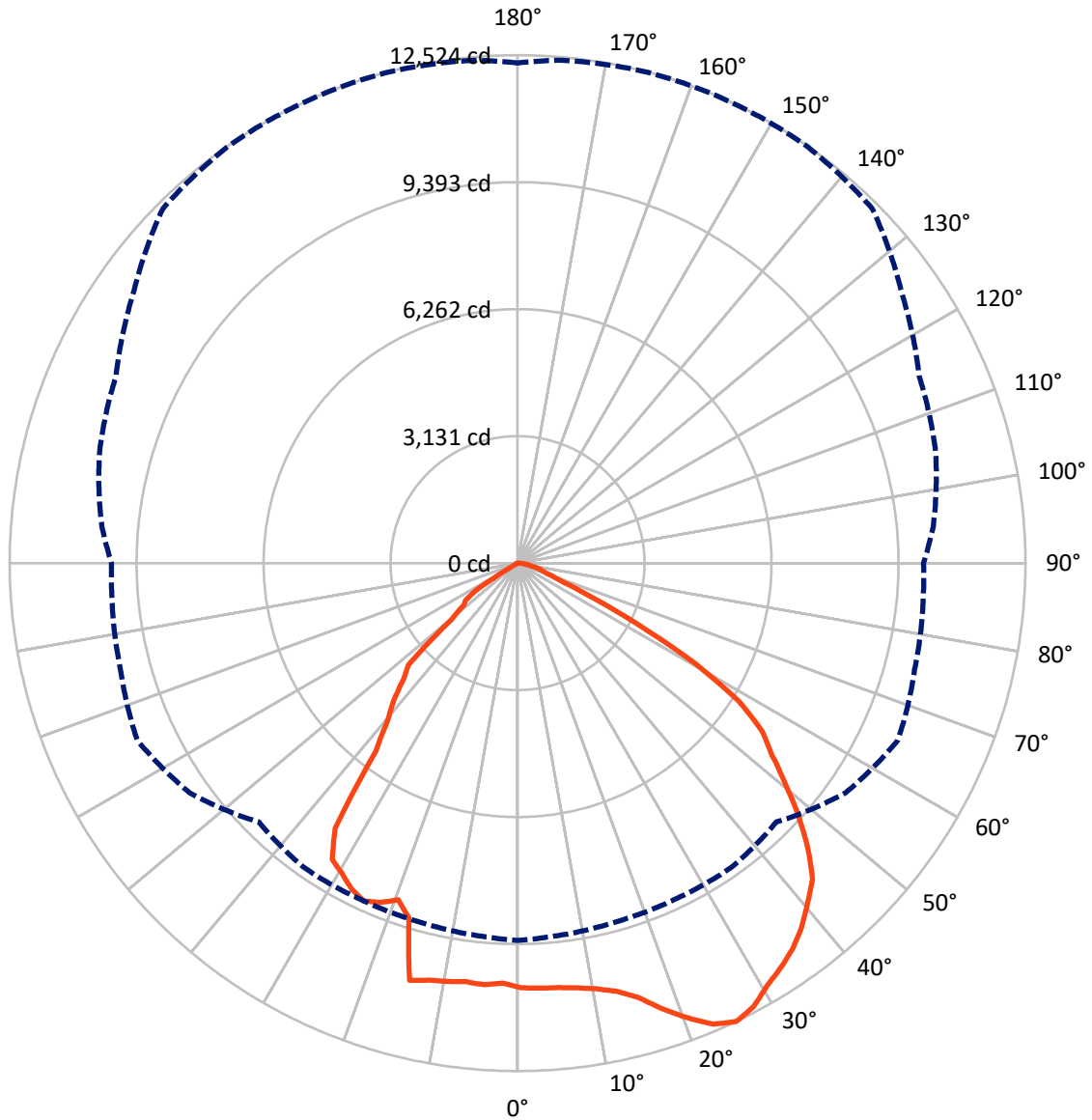
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.2 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	15022.5	0.0	15022.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9242.5	0.0	9242.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	24265.0	0.0	24265.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.4	4.1
10°-20°	3067.0	12.6
20°-30°	4848.8	20.0
30°-40°	5477.2	22.6
40°-50°	5129.5	21.1
50°-60°	3536.4	14.6
60°-70°	950.1	3.9
70°-80°	198.0	0.8
80°-90°	53.6	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°	24265.0	100.0
0°-180°	24265.0	100.0



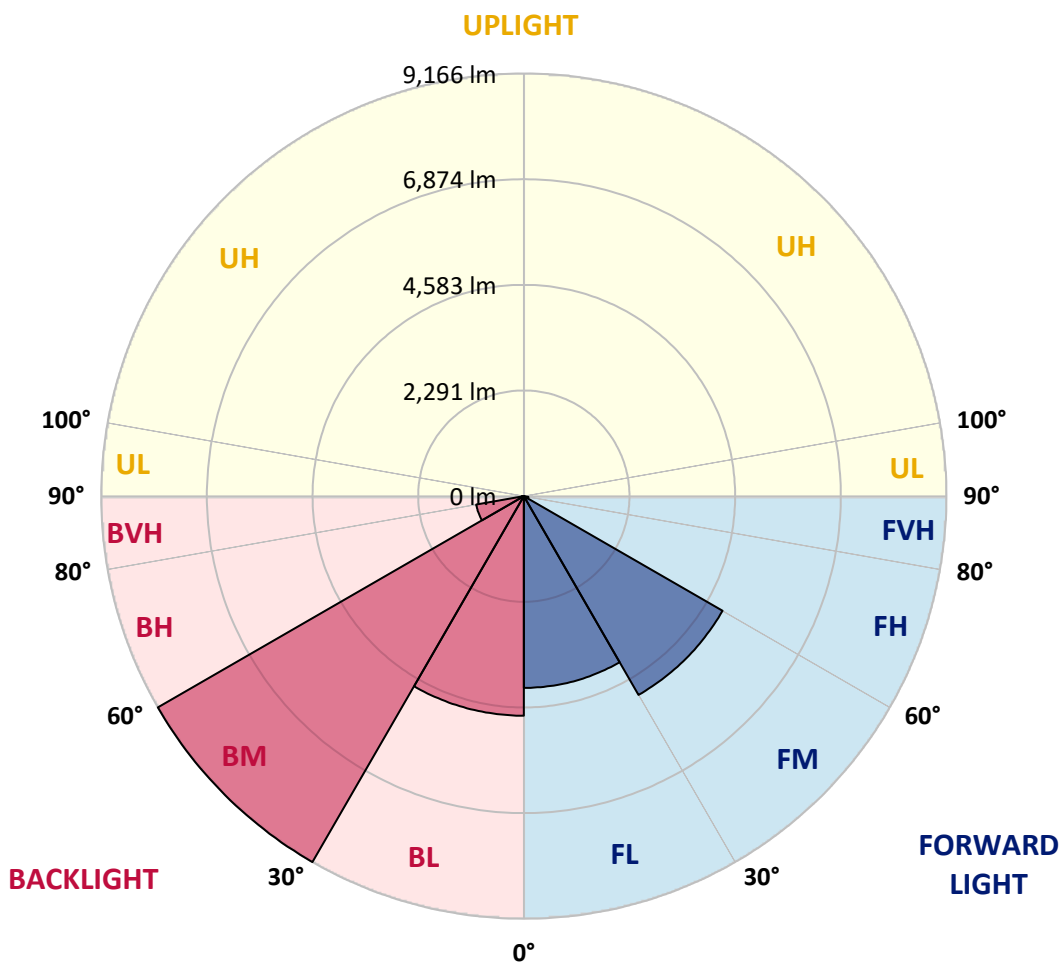
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4158.2	17.1			
FM (30°-60°)	4977.3	20.5			
FH (60°-80°)	99.7	0.4			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	4762.0	19.6	B4/5000		
BM (30°-60°)	9165.7	37.8	B5		
BH (60°-80°)	1048.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	46.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9
2.5°	10516.3	10448.5	10384.3	10362.9	10452.1	10548.4	10487.7	10491.3	10469.9	10509.1
5°	10594.7	10502.0	10459.2	10427.1	10441.4	10541.2	10455.6	10487.7	10452.1	10498.4
7.5°	10566.2	10502.0	10459.2	10398.6	10445.0	10562.6	10480.6	10484.2	10466.3	10509.1
10°	10548.4	10502.0	10448.5	10455.6	10509.1	10609.0	10544.8	10580.5	10555.5	10580.5
12.5°	10591.2	10541.2	10512.7	10512.7	10559.1	10673.2	10641.1	10673.2	10662.5	10683.9
15°	10188.2	10234.6	10505.6	10626.8	10719.5	10833.6	10819.4	10851.5	10858.6	10890.7
17.5°	8594.2	8547.8	8526.4	9150.5	10808.7	11161.7	11151.0	11147.5	11111.8	11086.8
20°	8804.6	8786.7	8761.8	8808.1	8993.6	11332.9	11404.2	10965.6	10837.2	10826.5
22.5°	9139.8	9111.2	9018.5	9022.1	9079.2	9853.0	11051.2	10651.8	10609.0	10584.0
25°	9303.8	9246.8	9171.9	9150.5	9168.3	9025.7	9870.8	10345.1	10134.7	10038.4
27.5°	9015.0	9018.5	8957.9	9015.0	8947.2	8305.3	7945.2	9746.0	9738.9	9696.1
30°	8797.4	8786.7	8715.4	8786.7	8319.6	7602.8	7449.5	9089.9	9015.0	8957.9
32.5°	8130.6	8137.7	8344.5	8622.7	7856.0	7289.0	6825.4	8119.9	8829.5	8797.4
35°	5816.2	5830.5	6565.1	7938.0	7153.5	6664.9	6629.3	7018.0	8537.1	8551.4
37.5°	5598.7	5598.7	5580.9	5805.5	6600.8	6411.8	6483.1	6443.8	7820.3	7856.0
40°	5441.8	5409.7	5384.7	5031.7	4589.5	6233.4	6283.4	6105.1	7392.4	7399.5
42.5°	5252.8	5217.1	5224.3	4571.7	4108.1	5791.3	5652.2	5413.3	6679.2	6686.3
45°	4906.9	4967.5	5010.3	4001.1	3965.4	4136.6	5213.6	5063.8	6197.8	6329.7
47.5°	2496.2	2549.7	3912.0	3680.2	3762.2	3676.6	4404.1	4407.6	5156.5	5595.1
50°	2264.4	2250.2	2253.7	2146.8	3473.3	2974.1	3184.5	4040.3	4129.5	4757.1
52.5°	2111.1	2107.5	1890.0	1679.6	2182.4	2617.5	2310.8	2924.2	3070.4	4029.6
55°	1561.9	1676.0	1490.6	1579.8	1365.8	2096.8	2086.1	2638.9	2688.8	3230.8
57.5°	14.3	17.8	42.8	1201.8	945.0	1048.4	1440.7	1800.9	1890.0	2517.6
60°	3.6	7.1	17.8	35.7	613.4	645.5	962.8	1041.3	1173.2	1501.3
62.5°	0.0	0.0	7.1	17.8	32.1	263.9	306.7	335.2	517.1	766.7
65°	0.0	0.0	3.6	10.7	17.8	42.8	74.9	156.9	224.7	278.2
67.5°	0.0	0.0	3.6	7.1	14.3	21.4	42.8	60.6	96.3	164.0
70°	0.0	0.0	3.6	7.1	10.7	17.8	28.5	42.8	57.1	82.0
72.5°	0.0	0.0	3.6	7.1	7.1	21.4	21.4	32.1	42.8	53.5
75°	0.0	0.0	3.6	3.6	7.1	14.3	21.4	25.0	28.5	42.8
77.5°	0.0	0.0	3.6	7.1	10.7	14.3	17.8	28.5	25.0	25.0
80°	0.0	0.0	3.6	10.7	10.7	17.8	21.4	28.5	17.8	17.8
82.5°	0.0	0.0	3.6	14.3	10.7	35.7	35.7	39.2	14.3	14.3
85°	0.0	0.0	10.7	7.1	21.4	35.7	32.1	21.4	17.8	10.7
87.5°	0.0	0.0	3.6	3.6	7.1	10.7	25.0	21.4	7.1	7.1
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°
10469.9	0°	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9	10469.9
10405.7	2.5°	10548.4	10502.0	10598.3	10587.6	10541.2	10519.8	10494.9	10473.5	10316.6
10412.9	5°	10551.9	10480.6	10598.3	10576.9	10569.8	10534.1	10512.7	10544.8	10402.2
10441.4	7.5°	10551.9	10480.6	10609.0	10616.1	10605.4	10576.9	10573.3	10594.7	10477.0
10491.3	10°	10623.3	10594.7	10701.7	10712.4	10698.1	10691.0	10673.2	10658.9	10534.1
10662.5	12.5°	10773.0	10716.0	10837.2	10869.3	10858.6	10876.4	10833.6	10855.0	10726.7
10837.2	15°	10954.9	10958.5	11051.2	11122.5	11115.4	11172.4	11108.2	11165.3	11072.6
11036.9	17.5°	11233.0	11272.3	11404.2	11511.2	11550.4	11593.2	11550.4	11568.3	11436.3
10815.8	20°	10940.6	11086.8	11721.6	11917.7	11999.7	12039.0	11967.7	11989.0	11857.1
10544.8	22.5°	10676.7	10865.7	11429.2	12042.5	12295.7	12374.2	12349.2	12345.7	12295.7
10009.9	25°	10288.0	10669.6	10922.8	11571.8	12367.0	12509.7	12524.0	12520.4	12445.5
9681.8	27.5°	9810.2	9895.8	10551.9	10947.8	11867.8	12409.8	12388.4	12285.0	12185.2
9000.7	30°	9200.4	9589.1	9885.1	10516.3	11222.3	12103.2	12103.2	12024.7	11921.3
8758.2	32.5°	8890.2	9393.0	9667.6	9895.8	10498.4	11760.8	11903.5	11821.4	11739.4
8569.2	35°	8726.1	8801.0	9442.9	9649.7	10159.7	11101.1	11678.8	11596.8	11536.2
8066.4	37.5°	8365.9	8540.7	8840.2	9393.0	9549.9	10562.6	11379.3	11336.5	11265.1
7413.8	40°	7563.6	8030.7	8490.8	9015.0	9179.0	9870.8	11015.5	11033.3	10937.1
6718.4	42.5°	7089.3	7406.7	8127.0	8480.1	8922.2	9425.1	10662.5	10691.0	10623.3
6365.4	45°	6533.0	6886.0	7392.4	8034.3	8637.0	8811.7	10038.4	10338.0	10280.9
5662.9	47.5°	6023.1	6308.3	6928.8	7577.8	8244.7	8219.7	9321.6	9885.1	9806.6
5124.4	50°	5299.1	5798.4	6090.8	6686.3	7681.3	7749.0	8558.5	9353.7	9289.6
4354.1	52.5°	4468.3	5095.9	5655.7	6201.4	7110.7	7271.2	7848.9	8811.7	8768.9
3327.1	55°	3904.8	4361.3	4992.5	5431.1	6418.9	6846.8	7317.5	8294.6	8273.2
2735.2	57.5°	2778.0	3658.8	4179.4	4792.8	5313.4	6087.2	6436.7	7242.6	7042.9
1515.6	60°	1882.9	2296.5	2931.3	3591.0	3940.5	4714.3	5038.8	5684.3	5630.8
905.8	62.5°	994.9	1376.5	1829.4	2161.0	2414.2	3166.6	3302.2	3997.5	3979.7
363.7	65°	438.6	581.3	991.4	1162.5	1422.9	1772.3	1890.0	2139.6	2079.0
178.3	67.5°	228.2	345.9	559.9	688.2	866.5	998.5	1094.8	1173.2	1223.2
117.7	70°	139.1	253.2	345.9	477.9	595.5	702.5	777.4	884.4	948.6
60.6	72.5°	103.4	160.5	238.9	367.3	431.5	556.3	631.2	709.6	766.7
49.9	75°	57.1	107.0	192.6	288.8	345.9	452.9	520.6	574.1	592.0
28.5	77.5°	35.7	82.0	160.5	224.7	271.0	367.3	349.5	399.4	442.2
21.4	80°	25.0	60.6	124.8	185.4	189.0	235.4	278.2	320.9	349.5
14.3	82.5°	17.8	49.9	92.7	142.6	124.8	181.9	217.5	249.6	181.9
10.7	85°	14.3	35.7	46.4	85.6	71.3	128.4	110.5	107.0	71.3
7.1	87.5°	10.7	17.8	32.1	39.2	28.5	28.5	35.7	42.8	35.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10469.9
10209.6
10280.9
10341.5
10430.7
10612.6
10919.2
11322.2
11764.4
12135.3
12331.4
12106.7
11882.1
11671.7
11450.6
11193.8
10915.7
10616.1
10288.0
9863.7
9300.2
8797.4
8298.2
7021.5
5634.4
3983.3
2054.0
1223.2
952.1
777.4
581.3
449.3
353.0
131.9
71.3
35.7
0.0

(END OF REPORT)