

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: P636579

Luminaire Tested: **IFLD-M-SA4B-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636579
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11512.9 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

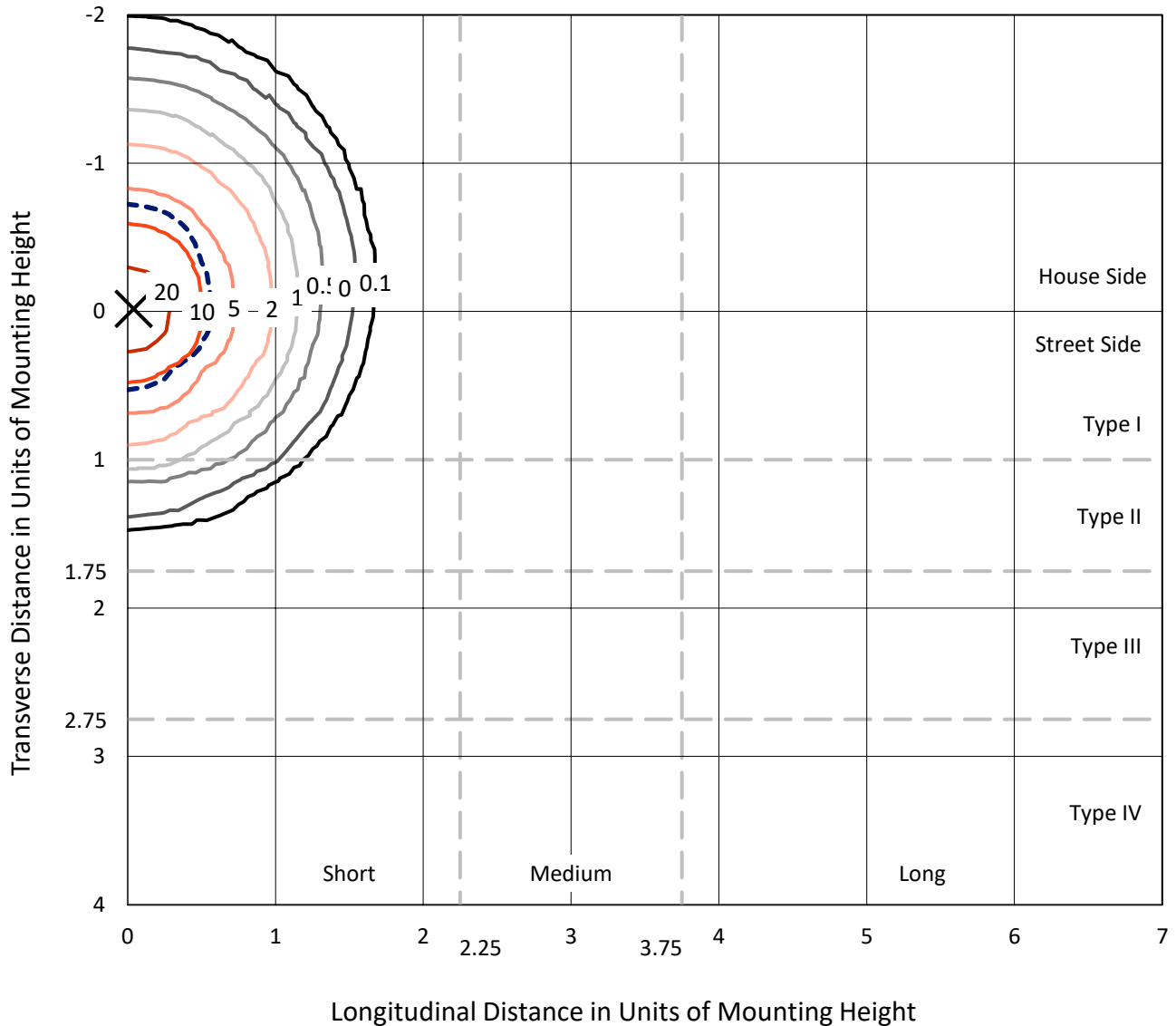
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

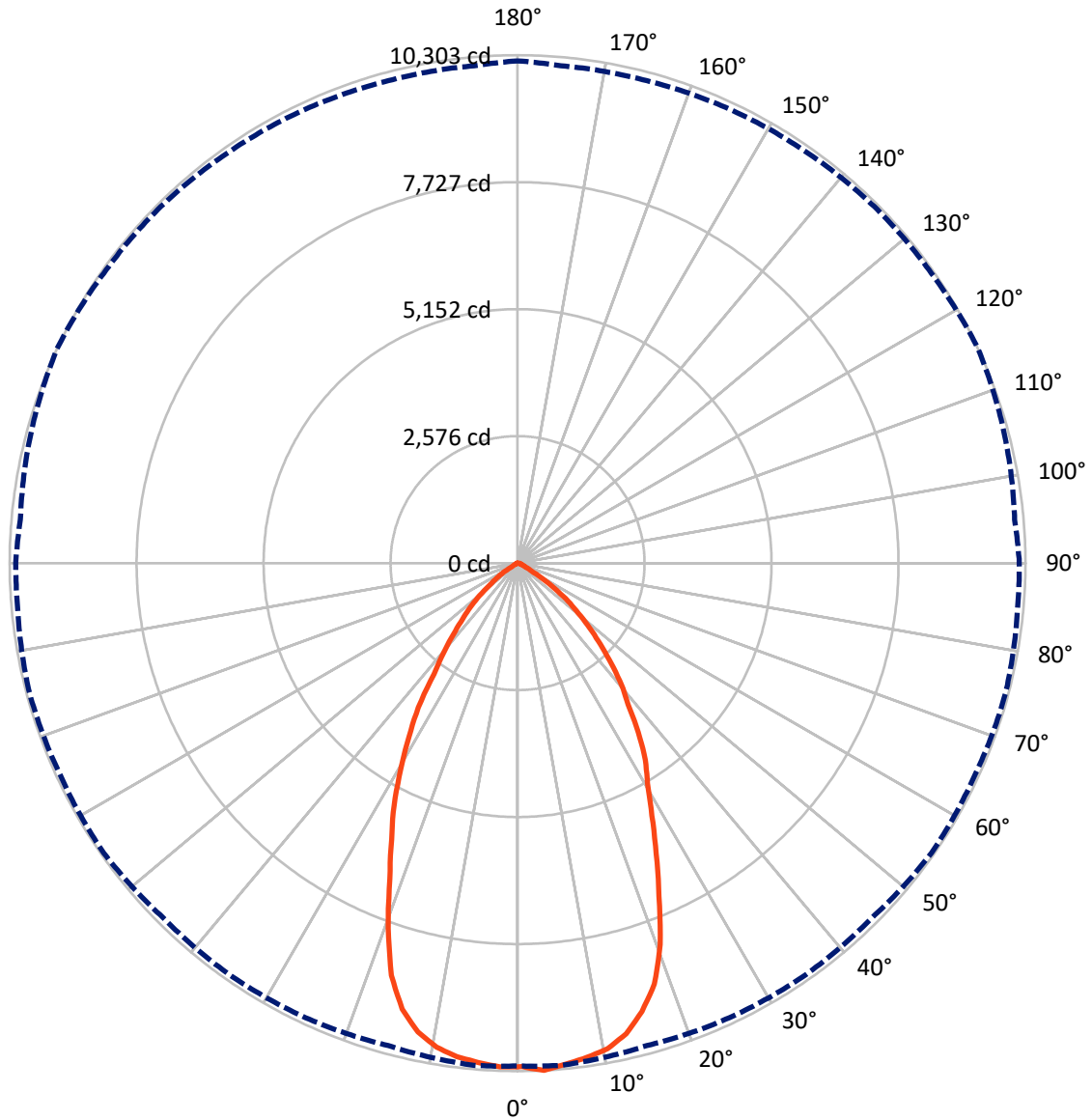
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.5 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	6588.7	0.0	6588.7
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	4924.2	0.0	4924.2
	% Fixture	42.8	0.0	42.8
Total	Lumens	11512.9	0.0	11512.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.1	8.4
10°-20°	2551.0	22.2
20°-30°	2917.8	25.3
30°-40°	2500.5	21.7
40°-50°	1653.4	14.4
50°-60°	721.5	6.3
60°-70°	141.8	1.2
70°-80°	51.1	0.4
80°-90°	13.6	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°	11512.9	100.0
0°-180°	11512.9	100.0



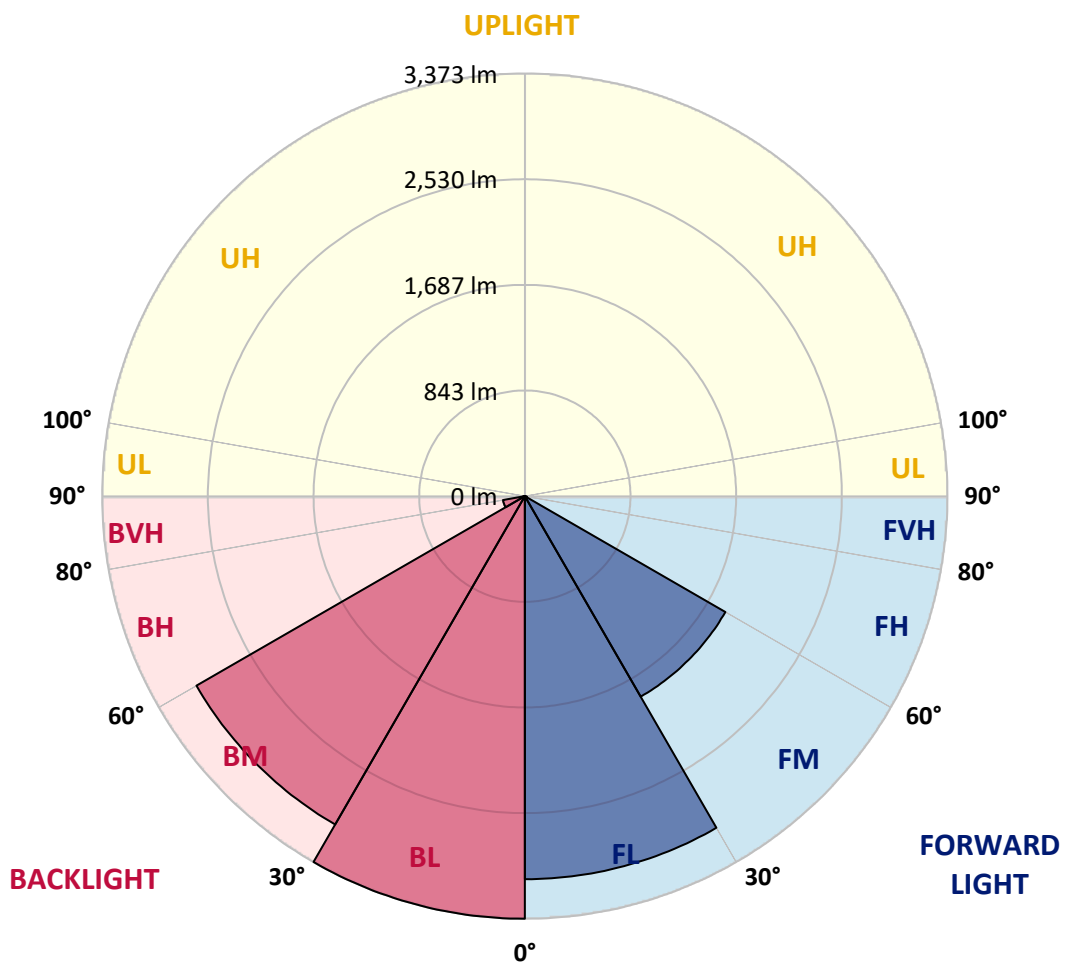
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3057.6	26.6			
FM (30°-60°)	1848.7	16.1			
FH (60°-80°)	15.7	0.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	3373.4	29.3	B4/5000		
BM (30°-60°)	3026.7	26.3	B3/5000		
BH (60°-80°)	177.2	1.5	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9
2.5°	10200.2	10224.7	10131.7	10173.3	10190.4	10168.4	10249.1	10224.7	10244.2	10183.0
5°	10200.2	10224.7	10117.0	10136.6	10141.4	10099.8	10187.9	10158.6	10161.0	10097.4
7.5°	10136.6	10165.9	10068.0	10082.7	10085.2	10050.9	10126.8	10085.2	10070.5	10004.4
10°	9965.2	9982.4	9894.3	9931.0	9965.2	9933.4	9999.5	9953.0	9953.0	9894.3
12.5°	9693.6	9725.4	9627.5	9671.6	9700.9	9664.2	9740.1	9723.0	9725.4	9666.7
15°	9199.2	9089.1	9206.6	9294.7	9297.1	9289.8	9360.8	9343.6	9355.9	9267.8
17.5°	6796.0	6769.1	6906.2	7946.3	8719.6	8824.8	8837.1	8744.1	8702.5	8616.8
20°	6296.8	6316.4	6287.0	6291.9	6901.3	8166.5	8090.6	7860.6	7755.4	7669.7
22.5°	5932.2	5900.3	5880.8	5868.5	5885.7	6710.4	7256.1	6908.6	6852.3	6810.7
25°	5535.7	5521.0	5496.5	5491.7	5481.9	5342.4	6127.9	6159.8	6069.2	6017.8
27.5°	5166.2	5156.4	5129.5	5127.0	5014.4	4676.7	4762.4	5518.6	5494.1	5474.5
30°	4772.2	4752.6	4737.9	4737.9	4397.7	4050.2	3910.7	4811.3	4811.3	4794.2
32.5°	4343.9	4326.8	4331.6	4272.9	3866.7	3548.5	3328.3	4153.0	4410.0	4395.3
35°	2655.3	2650.4	3147.2	3800.6	3323.4	3034.6	3019.9	3553.4	3927.9	3967.0
37.5°	2364.1	2349.4	2356.7	2398.3	2846.2	2731.1	2726.2	2816.8	3343.0	3362.5
40°	2121.8	2112.0	2104.6	1955.4	1813.4	2437.5	2420.3	2361.6	2856.0	2890.2
42.5°	1891.7	1881.9	1881.9	1671.5	1441.4	2004.3	2011.6	1943.1	2408.1	2420.3
45°	1654.3	1647.0	1605.4	1333.8	1267.7	1331.3	1666.6	1588.3	1911.3	2038.6
47.5°	780.7	775.8	1123.3	1108.6	1103.7	1064.6	1272.6	1316.6	1517.3	1644.6
50°	626.5	621.6	592.2	521.3	907.9	807.6	917.7	1013.2	1076.8	1194.3
52.5°	518.8	513.9	452.7	401.4	504.1	589.8	548.2	677.9	675.4	802.7
55°	340.2	315.7	347.5	327.9	264.3	428.3	418.5	513.9	501.7	611.8
57.5°	7.3	7.3	17.1	186.0	166.4	181.1	239.8	293.7	330.4	362.2
60°	2.4	2.4	4.9	9.8	68.5	75.9	93.0	107.7	151.7	188.4
62.5°	0.0	0.0	2.4	4.9	9.8	39.2	44.1	51.4	71.0	97.9
65°	0.0	0.0	0.0	2.4	4.9	9.8	14.7	31.8	44.1	56.3
67.5°	0.0	0.0	0.0	2.4	2.4	4.9	9.8	14.7	19.6	39.2
70°	0.0	0.0	0.0	2.4	2.4	4.9	7.3	9.8	14.7	19.6
72.5°	0.0	0.0	0.0	2.4	2.4	7.3	4.9	7.3	9.8	12.2
75°	0.0	0.0	0.0	2.4	2.4	2.4	4.9	7.3	7.3	9.8
77.5°	0.0	0.0	0.0	2.4	4.9	4.9	4.9	4.9	4.9	7.3
80°	0.0	0.0	0.0	2.4	2.4	4.9	7.3	9.8	4.9	4.9
82.5°	0.0	0.0	0.0	4.9	2.4	9.8	14.7	12.2	4.9	2.4
85°	0.0	0.0	0.0	2.4	9.8	12.2	12.2	7.3	2.4	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	7.3	7.3	2.4	2.4
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°
10214.9	0°	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9	10214.9
10178.2	2.5°	10121.9	10217.3	10303.0	10249.1	10229.5	10190.4	10161.0	10129.2	10126.8
10090.1	5°	10033.8	10124.3	10207.5	10143.9	10148.8	10129.2	10109.6	10102.3	10107.2
9999.5	7.5°	9957.9	10033.8	10124.3	10070.5	10085.2	10072.9	10063.1	10048.4	10070.5
9882.0	10°	9842.9	9911.4	10016.6	9965.2	9957.9	9945.7	9935.9	9909.0	9921.2
9669.1	12.5°	9590.8	9676.5	9796.4	9737.6	9757.2	9723.0	9708.3	9691.1	9693.6
9299.6	15°	9248.2	9314.3	9436.6	9390.1	9404.8	9382.8	9382.8	9382.8	9399.9
8629.0	17.5°	8651.1	8785.7	8979.0	8920.3	8942.3	8947.2	8942.3	8959.4	8981.4
7674.6	20°	7679.5	7909.5	8261.9	8377.0	8423.5	8425.9	8391.7	8433.3	8477.3
6781.4	22.5°	6786.3	7028.5	7339.3	7655.0	7850.8	7841.0	7845.9	7872.8	7919.3
5986.0	25°	6012.9	6245.4	6526.8	6808.3	7236.5	7324.6	7327.1	7351.6	7388.3
5442.7	27.5°	5454.9	5545.5	5802.5	6086.3	6546.4	6827.9	6813.2	6835.2	6874.4
4762.4	30°	4781.9	5129.5	5188.2	5361.9	5758.4	6274.8	6277.2	6301.7	6340.9
4361.0	32.5°	4348.8	4578.8	4759.9	4764.8	5102.5	5633.6	5738.8	5763.3	5790.2
3945.0	35°	3942.5	3969.5	4214.2	4282.7	4478.5	5004.6	5190.6	5205.3	5249.4
3355.2	37.5°	3411.5	3570.6	3639.1	3883.8	3893.6	4319.4	4688.9	4674.3	4708.5
2887.8	40°	2924.5	3076.2	3250.0	3428.6	3453.1	3771.2	4179.9	4194.6	4209.3
2395.9	42.5°	2415.4	2608.8	2787.4	2907.3	3073.8	3257.3	3646.4	3714.9	3749.2
2053.3	45°	2090.0	2143.8	2356.7	2532.9	2701.8	2787.4	3152.1	3276.9	3298.9
1625.0	47.5°	1647.0	1828.1	1972.5	2121.8	2332.2	2408.1	2672.4	2846.2	2863.3
1206.5	50°	1272.6	1402.3	1600.5	1735.1	1979.8	2021.4	2202.5	2427.7	2449.7
807.6	52.5°	910.4	1086.6	1279.9	1409.6	1644.6	1698.4	1833.0	2048.4	2063.0
619.2	55°	653.4	768.4	927.5	1113.5	1284.8	1404.7	1497.7	1703.3	1722.9
406.2	57.5°	445.4	553.1	619.2	805.1	907.9	1037.6	1113.5	1270.1	1284.8
193.3	60°	212.9	264.3	315.7	408.7	474.8	584.9	633.8	697.5	714.6
117.5	62.5°	137.0	161.5	205.6	244.7	308.4	376.9	396.5	450.3	469.9
73.4	65°	90.5	115.0	161.5	171.3	234.9	288.8	313.2	352.4	374.4
44.1	67.5°	51.4	80.8	119.9	141.9	186.0	237.4	264.3	298.6	318.1
29.4	70°	34.3	66.1	95.4	117.5	146.8	190.9	225.1	254.5	266.8
14.7	72.5°	19.6	41.6	66.1	93.0	117.5	159.1	190.9	215.4	141.9
9.8	75°	12.2	31.8	56.3	78.3	97.9	127.3	154.2	151.7	63.6
7.3	77.5°	9.8	24.5	48.9	66.1	80.8	88.1	110.1	124.8	48.9
4.9	80°	7.3	19.6	44.1	56.3	31.8	63.6	85.7	93.0	34.3
4.9	82.5°	4.9	12.2	36.7	39.2	22.0	46.5	68.5	61.2	24.5
2.4	85°	2.4	7.3	12.2	22.0	19.6	22.0	17.1	24.5	17.1
2.4	87.5°	2.4	4.9	9.8	9.8	9.8	7.3	9.8	9.8	9.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10214.9
10185.5
10168.4
10131.7
9979.9
9764.6
9407.3
9054.9
8506.7
7926.7
7451.9
6911.1
6409.4
5851.4
5295.9
4750.1
4255.8
3798.1
3352.7
2904.9
2481.5
2090.0
1740.0
1314.2
734.2
474.8
374.4
315.7
264.3
115.0
63.6
48.9
36.7
24.5
17.1
9.8
0.0

(END OF REPORT)