

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: P636821

Luminaire Tested: **IFLD-L-SA8B-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636821
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22620.8 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

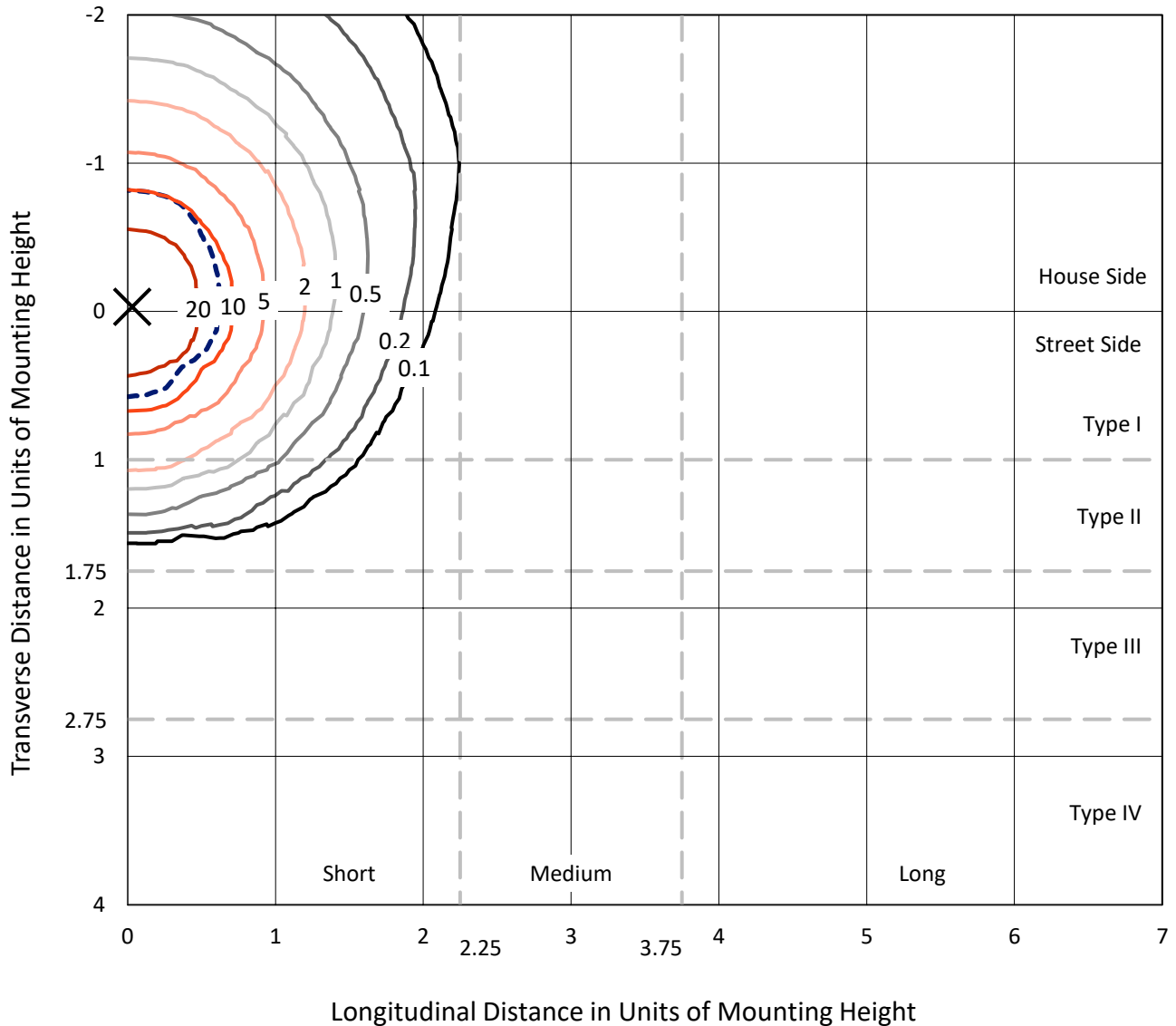
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

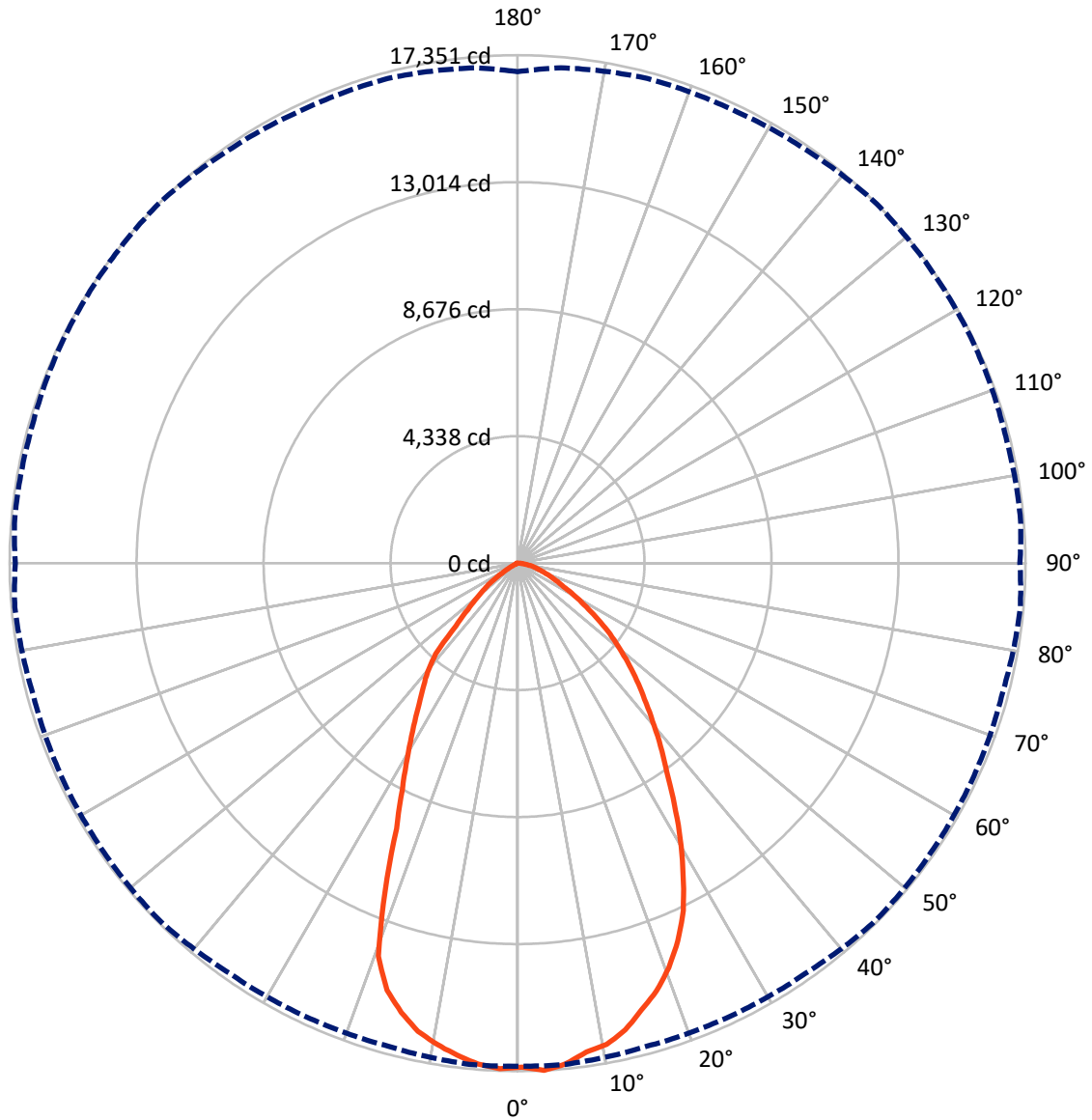
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13397.2	0.0	13397.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9223.6	0.0	9223.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	22620.8	0.0	22620.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1614.4	7.1
10°-20°	4329.2	19.1
20°-30°	5279.7	23.3
30°-40°	4820.3	21.3
40°-50°	3483.5	15.4
50°-60°	1902.0	8.4
60°-70°	786.4	3.5
70°-80°	318.5	1.4
80°-90°	86.6	0.4
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°	22620.8	100.0
0°-180°	22620.8	100.0



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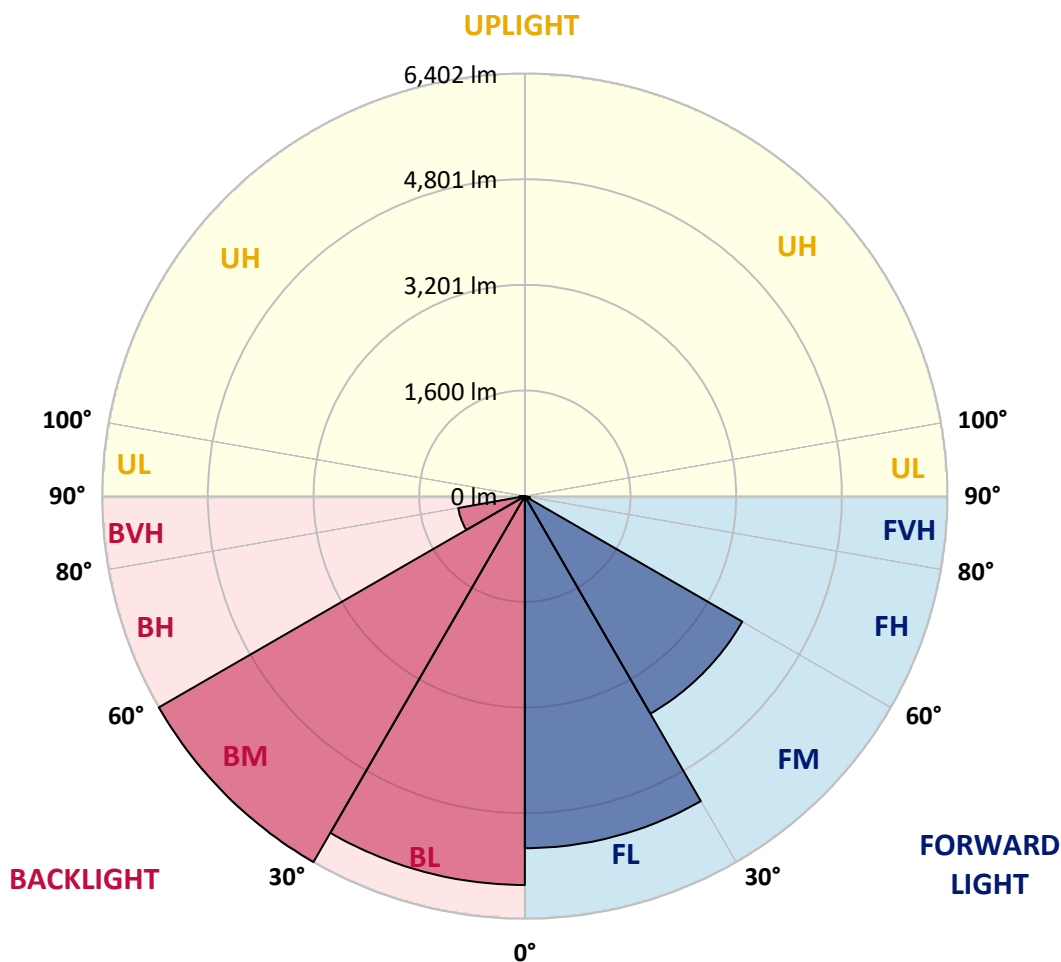
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5332.6	23.6			
FM (30°-60°)	3804.4	16.8			
FH (60°-80°)	79.7	0.4			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	5890.8	26.0	B5		
BM (30°-60°)	6401.5	28.3	B4/8500		
BH (60°-80°)	1025.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	79.7	0.4			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°	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4
2.5°	17182.5	17204.8	17083.8	17096.5	17118.8	17281.3	17239.9	17201.6	17147.5	17239.9
5°	17160.2	17173.0	17045.6	17001.0	17020.1	17166.6	17032.8	17032.8	17020.1	17004.1
7.5°	16988.2	16994.6	16895.8	16816.2	16867.2	16934.1	16835.3	16883.1	16813.0	16867.2
10°	16730.2	16688.8	16570.9	16548.6	16606.0	16669.7	16602.8	16647.4	16583.7	16625.1
12.5°	16351.1	16287.4	16191.8	16163.2	16261.9	16347.9	16293.8	16268.3	16185.5	16287.4
15°	14889.0	14841.2	15057.8	15436.9	15777.7	15851.0	15793.7	15819.1	15647.1	15675.8
17.5°	12254.6	12165.4	12397.9	13296.2	14576.8	15252.1	15201.2	15035.5	14780.7	14838.0
20°	11136.5	11111.0	11085.5	11298.9	12194.1	14242.3	14312.4	13891.9	13528.8	13449.1
22.5°	10505.7	10496.2	10470.7	10518.5	10754.2	12069.8	12872.6	12483.9	12241.8	12219.5
25°	9929.2	9913.2	9836.8	9897.3	9897.3	9973.8	11002.7	11238.4	11025.0	10999.5
27.5°	9343.0	9314.4	9301.6	9330.3	9183.8	8667.7	8928.9	10078.9	9967.4	9973.8
30°	8709.1	8699.6	8664.5	8725.1	8272.7	7632.4	7466.8	9027.7	9050.0	9043.6
32.5°	7766.2	7807.6	7966.9	8033.8	7288.4	6759.6	6482.5	7810.8	8266.3	8256.8
35°	5641.5	5641.5	6160.7	7125.9	6386.9	5988.7	5839.0	6622.6	7492.3	7524.1
37.5°	4638.1	4654.0	4755.9	5195.5	5510.9	5370.7	5326.1	5574.6	6498.4	6549.4
40°	4173.0	4173.0	4173.0	3991.4	3981.9	4838.8	4813.3	4733.6	5612.8	5724.3
42.5°	3749.3	3758.9	3765.2	3306.5	3051.7	4182.5	4125.2	4004.2	4819.6	4950.3
45°	3312.9	3328.8	3348.0	2765.0	2653.5	3010.3	3491.3	3357.5	4036.0	4204.8
47.5°	2022.8	2048.3	2481.5	2344.5	2357.3	2322.2	2847.8	2825.5	3309.7	3548.6
50°	1366.6	1376.1	1417.5	1487.6	2022.8	1825.3	2016.4	2338.1	2513.4	2876.5
52.5°	1146.8	1162.7	1060.8	965.2	1328.3	1427.1	1408.0	1736.1	1806.2	2255.3
55°	805.9	856.9	809.1	799.6	755.0	1108.6	1067.1	1334.7	1379.3	1713.8
57.5°	82.8	95.6	165.6	595.7	493.8	627.5	761.3	977.9	1022.5	1264.6
60°	6.4	6.4	15.9	82.8	360.0	375.9	525.6	602.1	688.1	882.4
62.5°	0.0	3.2	6.4	12.7	57.3	200.7	264.4	315.4	414.1	570.2
65°	0.0	0.0	3.2	9.6	12.7	76.5	101.9	165.6	226.2	353.6
67.5°	0.0	0.0	3.2	6.4	9.6	19.1	35.0	60.5	121.0	200.7
70°	0.0	0.0	3.2	6.4	9.6	15.9	25.5	38.2	54.2	108.3
72.5°	0.0	0.0	3.2	3.2	6.4	15.9	19.1	25.5	38.2	54.2
75°	0.0	0.0	3.2	3.2	9.6	19.1	15.9	19.1	25.5	35.0
77.5°	0.0	0.0	3.2	6.4	9.6	19.1	15.9	19.1	19.1	22.3
80°	0.0	0.0	3.2	6.4	12.7	22.3	19.1	19.1	15.9	15.9
82.5°	0.0	0.0	3.2	9.6	12.7	28.7	28.7	25.5	12.7	9.6
85°	0.0	0.0	6.4	12.7	19.1	31.9	31.9	25.5	9.6	6.4
87.5°	0.0	0.0	6.4	9.6	15.9	22.3	31.9	25.5	9.6	3.2
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°
17214.4	0°	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4	17214.4
17160.2	2.5°	17246.2	17227.1	17290.8	17316.3	17351.4	17217.6	17134.8	17137.9	16985.0
16965.9	5°	17067.9	17071.0	17153.9	17147.5	17182.5	17109.3	17077.4	17023.3	16889.5
16720.6	7.5°	16841.7	16813.0	16892.7	16953.2	16864.0	16915.0	16841.7	16867.2	16787.5
16504.0	10°	16666.5	16599.6	16672.9	16714.3	16717.5	16666.5	16596.4	16529.5	16500.8
16166.4	12.5°	16277.9	16191.8	16316.1	16373.4	16363.9	16265.1	16185.5	16201.4	16109.0
15573.9	15°	15742.7	15745.9	15835.1	15889.2	15838.3	15816.0	15822.3	15784.1	15704.5
14755.2	17.5°	14924.0	14971.8	15207.5	15338.1	15366.8	15322.2	15299.9	15255.3	15175.7
13449.1	20°	13560.6	13847.3	14267.8	14672.4	14752.0	14739.3	14659.6	14640.5	14595.9
12155.8	22.5°	12362.9	12576.3	13063.7	13694.4	14019.3	14051.2	13955.6	13927.0	13879.2
10999.5	25°	11123.7	11353.1	11792.7	12477.6	13149.7	13286.7	13270.8	13184.7	13133.8
9973.8	27.5°	10078.9	10308.2	10706.4	11324.4	12044.3	12483.9	12525.3	12388.4	12385.2
9059.5	30°	9136.0	9451.3	9754.0	10257.3	10954.9	11614.3	11684.4	11588.8	11598.4
8221.8	32.5°	8397.0	8658.2	8916.2	9253.8	9833.6	10601.3	10875.3	10786.1	10751.0
7524.1	35°	7642.0	7820.4	8084.8	8393.8	8788.8	9550.1	10024.7	9957.8	9922.8
6581.2	37.5°	6781.9	7087.7	7278.8	7626.1	7935.1	8540.3	9209.3	9199.7	9126.4
5778.5	40°	5899.5	6221.3	6511.1	6861.5	7100.5	7581.5	8323.7	8320.5	8330.1
4947.1	42.5°	5100.0	5396.2	5746.6	6128.9	6358.2	6708.6	7505.0	7549.6	7603.8
4262.2	45°	4376.9	4644.4	4969.4	5434.4	5711.6	5912.3	6619.4	6823.3	6820.1
3650.6	47.5°	3727.0	3978.7	4252.6	4705.0	5058.6	5240.1	5826.3	6116.1	6097.0
2994.4	50°	3128.2	3351.1	3637.8	3965.9	4440.6	4599.8	5036.3	5418.5	5389.8
2385.9	52.5°	2516.5	2825.5	3067.6	3367.1	3867.2	4023.3	4360.9	4733.6	4711.3
1790.2	55°	1962.3	2261.7	2554.8	2812.8	3233.3	3465.8	3707.9	4090.2	4083.8
1401.6	57.5°	1484.4	1812.5	2089.7	2335.0	2669.4	2956.1	3150.4	3497.7	3542.3
958.8	60°	1099.0	1350.6	1650.1	1924.0	2188.4	2484.7	2615.3	2956.1	2975.2
656.2	62.5°	748.6	1025.7	1318.8	1567.3	1764.8	2070.6	2188.4	2468.8	2503.8
420.5	65°	519.2	697.6	1032.1	1210.5	1452.6	1713.8	1831.7	2054.6	2124.7
242.1	67.5°	344.0	496.9	805.9	968.4	1207.3	1385.7	1535.4	1717.0	1793.4
152.9	70°	187.9	366.3	576.6	764.5	971.6	1143.6	1290.1	1436.7	1503.6
70.1	72.5°	127.4	245.3	401.4	605.2	783.6	952.5	1083.1	1191.4	1194.6
41.4	75°	63.7	165.6	305.8	468.3	611.6	777.3	895.1	958.8	882.4
25.5	77.5°	38.2	121.0	248.5	375.9	496.9	627.5	694.4	729.5	605.2
19.1	80°	22.3	86.0	194.3	299.4	344.0	461.9	525.6	535.2	404.6
12.7	82.5°	15.9	63.7	152.9	219.8	210.2	324.9	395.0	382.3	258.0
9.6	85°	9.6	44.6	95.6	137.0	127.4	213.4	229.4	235.7	149.7
6.4	87.5°	6.4	25.5	51.0	73.3	60.5	92.4	92.4	111.5	73.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17214.4
16787.5
16857.6
16653.7
16373.4
16029.4
15624.8
15140.6
14494.0
13866.4
13079.6
12378.8
11550.6
10754.2
9875.0
9187.0
8330.1
7575.1
6826.5
6103.4
5415.3
4759.1
4099.7
3523.2
3003.9
2510.2
2108.8
1783.9
1478.1
1165.9
825.0
582.9
379.1
238.9
137.0
63.7
0.0

(END OF REPORT)