

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: P637217

Luminaire Tested: **IFLD-M-SA4B-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637217
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16696.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

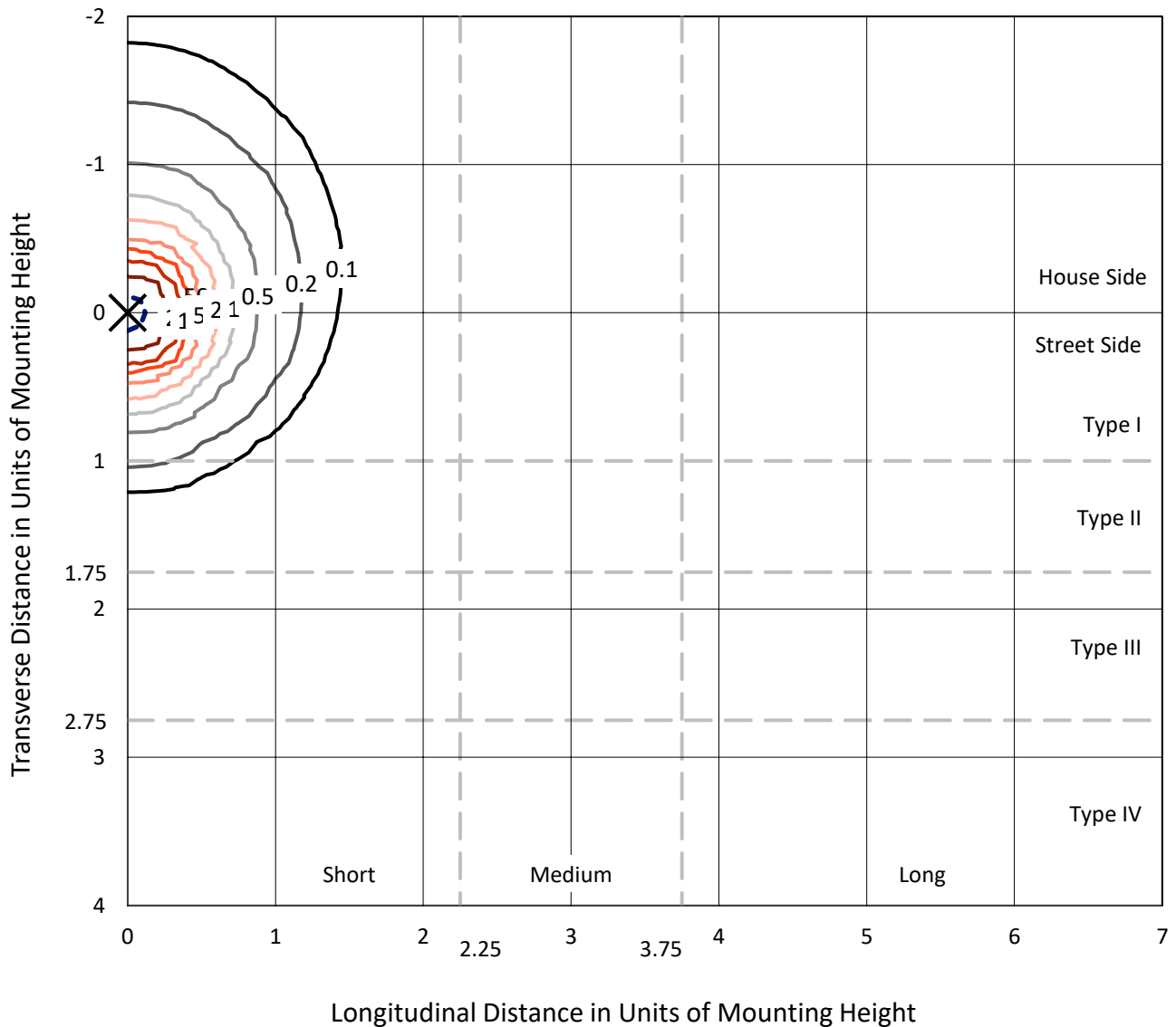
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

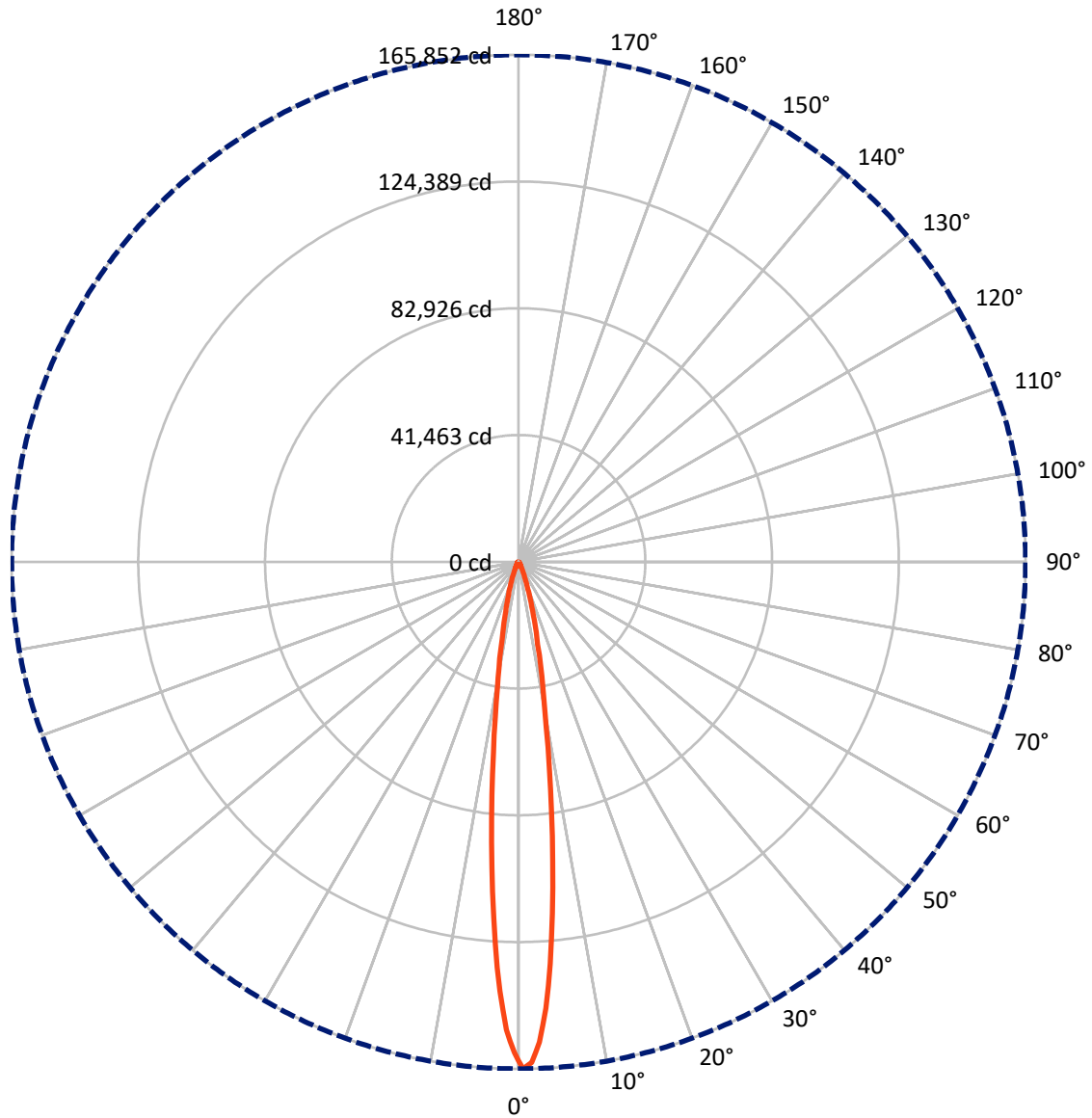
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 414.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8551.7	0.0	8551.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8144.9	0.0	8144.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	16696.6	0.0	16696.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8429.0	50.5
10°-20°	5396.2	32.3
20°-30°	1622.0	9.7
30°-40°	528.1	3.2
40°-50°	307.3	1.8
50°-60°	204.1	1.2
60°-70°	122.9	0.7
70°-80°	63.2	0.4
80°-90°	24.0	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°	16696.6	100.0
0°-180°	16696.6	100.0

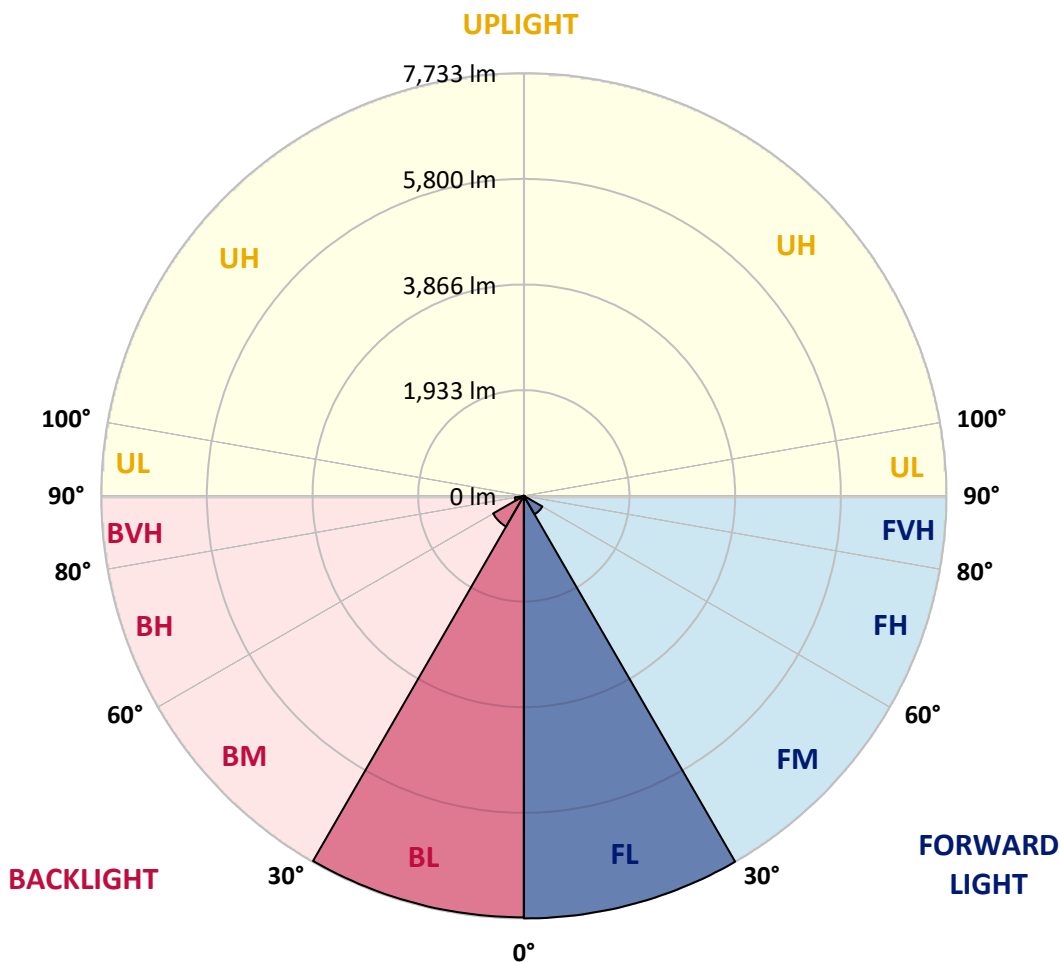


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7732.7	46.3			
FM (30°-60°)	390.2	2.3			
FH (60°-80°)	18.4	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7714.4	46.2	B5		
BM (30°-60°)	649.3	3.9	B1/1000		
BH (60°-80°)	167.6	1.0	B1/500		G0/660
BVH (80°-90°)	20.4	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7
1°	163865.8	163365.7	162074.6	162992.9	163800.4	163565.8	163549.4	163462.1	163340.3	164296.8
2°	157315.5	156991.8	155082.3	155869.7	157017.2	156180.7	156704.5	156244.4	156253.5	157395.5
3°	146273.4	146449.8	143403.7	144834.9	146429.8	144402.1	145031.3	146213.4	144974.9	144602.1
4°	131921.5	130390.3	128726.4	130181.2	130594.0	129413.8	130574.0	132021.6	130301.2	130377.6
5°	115536.6	114405.5	112436.0	113334.4	112310.5	112683.3	114421.8	115018.3	113818.1	112306.9
6°	98689.7	97886.0	95423.7	96718.5	96354.8	96143.8	98338.8	96520.2	97174.9	96260.2
7°	82090.2	80588.1	79378.8	80619.0	80699.0	80064.4	82914.0	82583.0	81391.9	81115.5
8°	68013.0	66514.5	65490.7	66414.5	67018.2	66021.7	67361.9	68242.1	67311.0	67394.7
9°	54855.9	54592.2	53168.3	54375.8	55032.3	53964.8	55448.8	55767.0	54895.9	55319.6
10°	45041.3	44734.0	43597.4	44086.6	45174.1	43901.1	45325.0	45428.7	44734.0	44932.2
12.5°	27834.4	27710.7	27679.8	27750.8	27736.2	27961.7	28325.4	27910.8	27856.2	27170.6
15°	17990.7	18174.4	17985.3	18349.0	18401.7	18614.5	18392.6	18058.0	17419.7	17103.3
17.5°	11227.6	11462.2	11785.9	12318.7	12851.5	12913.4	12618.8	12226.0	11916.8	11578.6
20°	6459.4	6574.0	6524.9	7163.2	8541.6	8916.2	8536.2	8123.4	7750.6	7408.7
22.5°	4013.5	3971.7	4048.0	4262.6	4711.8	5870.2	5559.2	5146.4	4875.5	4593.6
25°	2460.5	2505.9	2476.8	2595.0	2796.9	3287.9	3358.8	3180.6	3042.4	2896.9
27.5°	1583.9	1583.9	1596.7	1662.1	1800.3	1784.0	2162.2	2024.0	1949.5	1878.5
30°	1100.2	1103.8	1103.8	1142.0	1173.0	1118.4	1216.6	1394.8	1360.3	1305.7
32.5°	816.5	827.4	836.5	856.5	831.1	772.9	796.5	1003.8	983.8	963.8
35°	621.9	631.0	652.9	663.8	627.4	591.0	569.2	738.3	747.4	742.0
37.5°	452.8	458.3	498.3	540.1	498.3	465.5	452.8	567.4	611.0	605.6
40°	347.3	349.2	356.4	403.7	403.7	378.3	381.9	423.7	500.1	500.1
42.5°	298.2	298.2	305.5	298.2	300.1	327.3	336.4	341.9	423.7	423.7
45°	258.2	258.2	261.9	243.7	225.5	281.9	289.1	291.0	356.4	365.5
47.5°	216.4	216.4	223.7	200.0	190.9	223.7	243.7	249.1	307.3	314.6
50°	160.0	161.8	183.7	163.7	169.1	172.8	210.9	214.6	260.0	276.4
52.5°	107.3	107.3	110.9	127.3	147.3	141.8	170.9	183.7	207.3	229.1
55°	87.3	87.3	85.5	81.8	109.1	118.2	125.5	152.8	169.1	196.4
57.5°	60.0	63.6	58.2	67.3	70.9	89.1	94.6	120.0	129.1	165.5
60°	7.3	9.1	12.7	49.1	47.3	60.0	70.9	94.6	105.5	127.3
62.5°	1.8	1.8	3.6	9.1	32.7	40.0	56.4	65.5	76.4	98.2
65°	0.0	0.0	1.8	3.6	7.3	21.8	29.1	38.2	54.6	69.1
67.5°	0.0	0.0	1.8	3.6	3.6	9.1	14.5	23.6	29.1	50.9
70°	0.0	0.0	1.8	3.6	3.6	7.3	9.1	10.9	20.0	27.3
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	9.1	9.1	18.2
75°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	9.1	7.3	7.3
77.5°	0.0	0.0	1.8	3.6	7.3	9.1	10.9	9.1	5.5	5.5
80°	0.0	0.0	1.8	5.5	9.1	12.7	14.5	10.9	5.5	3.6
82.5°	0.0	0.0	3.6	7.3	10.9	14.5	20.0	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.5	29.1	20.0	9.1	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	10.9	7.3	3.6	1.8
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°
165851.7	0°	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7	165851.7
163193.0	1°	164333.2	164447.7	164073.1	164653.2	164449.6	163256.6	162862.0	162394.6
156724.5	2°	156244.4	156828.1	156857.2	157501.0	157491.9	156100.7	155669.7	156464.4
145358.7	3°	144918.6	145598.7	144985.9	146129.7	145786.0	144098.4	143660.1	144562.1
130981.4	4°	130590.4	130461.3	130250.3	129599.3	130401.3	129250.1	128382.7	129606.6
114310.9	5°	114081.8	113794.4	113383.5	113190.7	113787.2	113050.7	111266.7	113054.3
97915.1	6°	98035.1	96798.5	96738.5	96631.2	96691.2	94629.0	94752.6	96083.8
80164.4	7°	81011.8	81239.1	80775.4	81519.2	80951.8	79555.2	79016.9	80419.0
67762.0	8°	67289.2	67001.9	66647.3	67758.4	66774.6	65858.0	65230.6	66338.1
55388.8	9°	55285.1	54788.6	54428.6	54372.2	54525.0	52804.6	53153.8	53992.1
45041.3	10°	45057.7	44243.0	44441.2	44493.9	44326.6	43199.2	43210.1	43499.2
27625.3	12.5°	27527.1	27127.0	27227.0	27281.6	27621.6	27225.2	26665.1	26261.4
17417.9	15°	17301.5	17014.2	17601.5	17996.2	17916.1	17563.4	17299.7	16934.1
11578.6	17.5°	11471.3	11847.7	11849.5	12209.6	12246.0	11893.2	11689.5	11360.3
7530.5	20°	7503.3	7659.6	7985.2	8239.8	8387.1	8117.9	7874.2	7648.7
4695.4	22.5°	4695.4	4968.2	5171.9	5502.9	5637.4	5441.0	5268.3	5084.6
2931.5	25°	2882.4	3077.0	3246.1	3533.4	3717.1	3622.5	3464.3	3335.2
1893.1	27.5°	1922.2	2004.0	2087.7	2285.9	2476.8	2424.1	2360.5	2282.3
1334.8	30°	1354.8	1362.1	1451.2	1562.1	1689.4	1722.1	1693.1	1653.0
980.2	32.5°	998.4	1027.5	1069.3	1138.4	1223.9	1302.1	1287.5	1269.3
749.2	35°	771.1	814.7	849.3	902.0	947.5	1022.0	1034.7	1029.3
616.5	37.5°	629.2	667.4	702.0	732.9	771.1	822.0	862.0	863.8
509.2	40°	521.9	556.5	601.9	625.6	652.9	691.0	740.1	743.8
431.0	42.5°	440.1	472.8	518.3	547.4	567.4	603.8	652.9	660.1
369.2	45°	378.3	398.3	445.5	480.1	500.1	523.7	576.5	583.7
318.2	47.5°	329.2	349.2	378.3	427.4	445.5	467.4	509.2	521.9
281.9	50°	289.1	309.1	334.6	378.3	405.5	423.7	458.3	476.5
245.5	52.5°	256.4	276.4	303.7	338.2	369.2	385.5	418.3	441.9
200.0	55°	214.6	249.1	269.1	300.1	341.9	356.4	381.9	412.8
174.6	57.5°	187.3	216.4	245.5	271.0	312.8	331.0	356.4	385.5
138.2	60°	158.2	185.5	220.0	241.9	281.9	305.5	332.8	360.1
105.5	62.5°	125.5	161.8	185.5	216.4	254.6	285.5	307.3	334.6
81.8	65°	92.7	132.8	160.0	192.8	229.1	261.9	280.1	309.1
58.2	67.5°	67.3	103.7	136.4	167.3	201.9	234.6	252.8	278.2
36.4	70°	52.7	76.4	112.7	140.0	176.4	203.7	223.7	240.0
23.6	72.5°	30.9	58.2	90.9	121.8	154.6	172.8	187.3	201.9
10.9	75°	20.0	45.5	74.6	101.8	125.5	141.8	154.6	167.3
5.5	77.5°	12.7	32.7	60.0	85.5	96.4	116.4	127.3	134.6
3.6	80°	7.3	25.5	52.7	69.1	78.2	90.9	101.8	110.9
3.6	82.5°	5.5	21.8	43.6	58.2	58.2	72.7	78.2	78.2
1.8	85°	3.6	18.2	34.6	54.6	43.6	54.6	50.9	50.9
1.8	87.5°	3.6	12.7	16.4	23.6	20.0	23.6	23.6	27.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
165851.7
160543.4
153098.3
140555.9
125176.6
108344.3
92224.9
76605.5
63175.7
51373.4
41531.6
26015.9
16746.8
11278.5
7570.5
4986.4
3260.6
2236.8
1625.8
1254.8
1011.1
851.1
738.3
654.7
581.9
523.7
478.3
441.9
414.6
387.3
367.3
347.3
314.6
280.1
245.5
205.5
167.3
130.9
100.0
72.7
49.1
27.3
0.0

(END OF REPORT)