

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: P637246

Luminaire Tested: **IFLD-M-SA4B-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637246
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18048.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

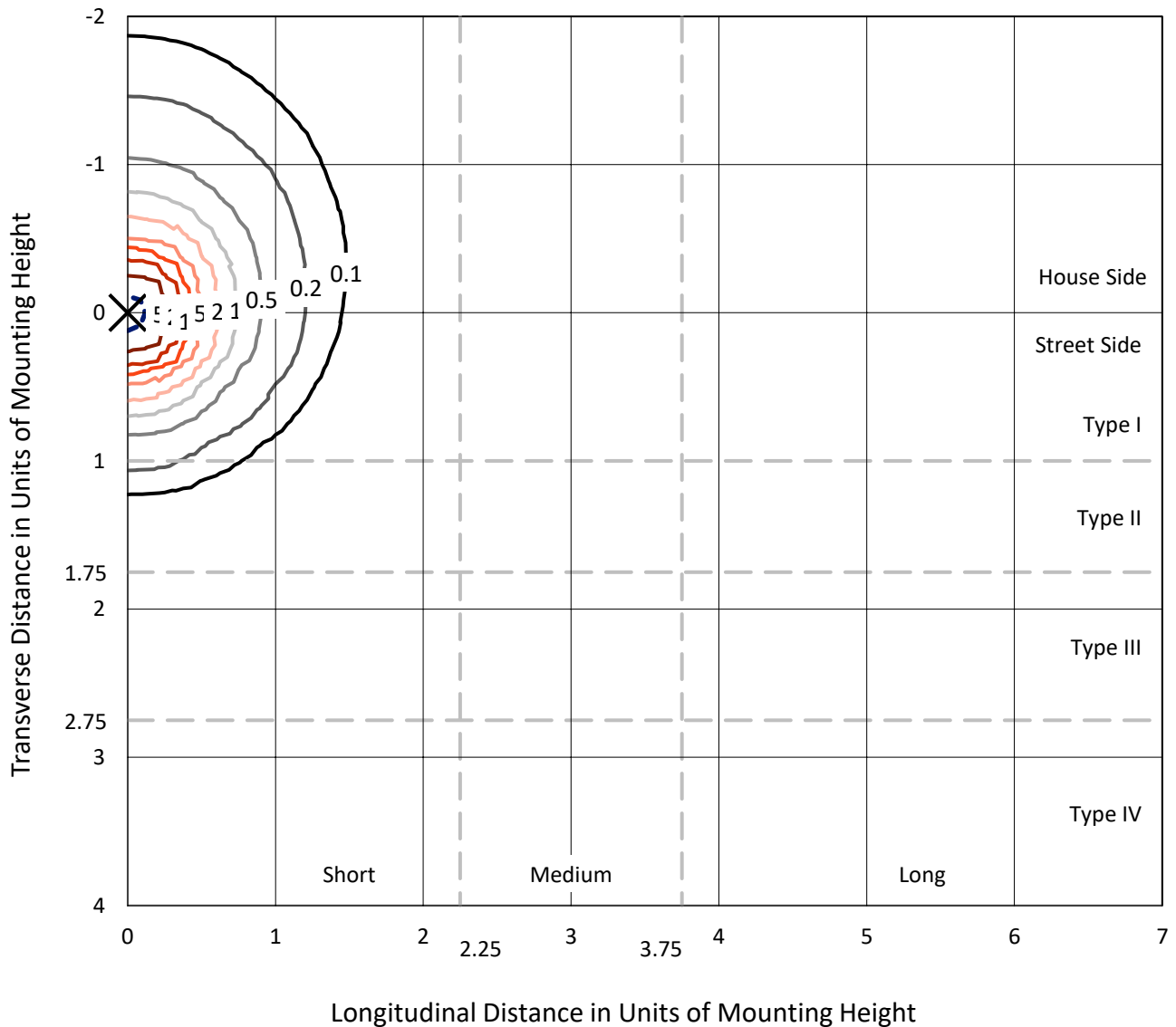
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

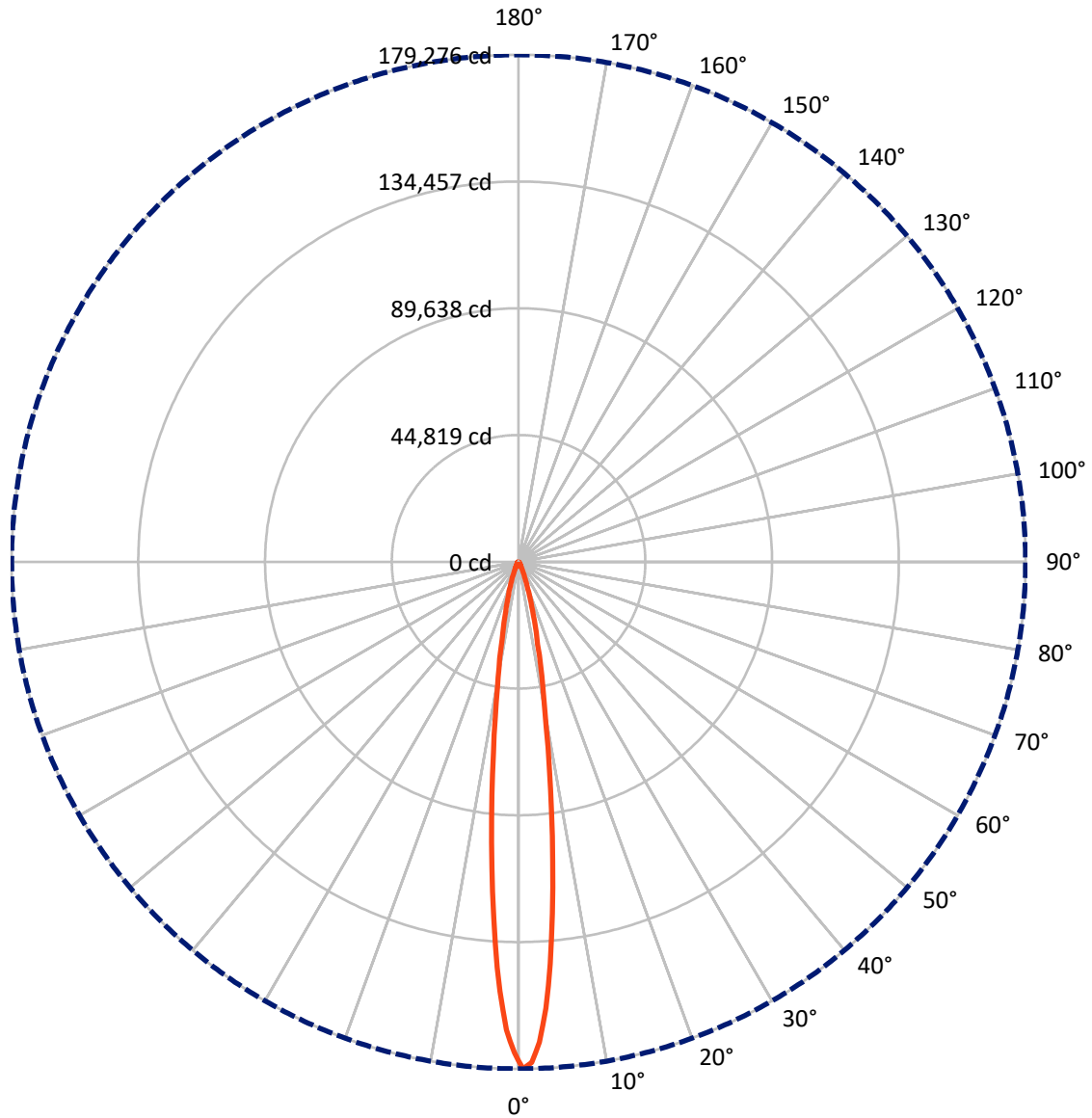
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 448.2 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	9243.9	0.0	9243.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8804.2	0.0	8804.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	18048.1	0.0	18048.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9111.2	50.5
10°-20°	5833.0	32.3
20°-30°	1753.3	9.7
30°-40°	570.9	3.2
40°-50°	332.1	1.8
50°-60°	220.6	1.2
60°-70°	132.8	0.7
70°-80°	68.3	0.4
80°-90°	25.9	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°	18048.1	100.0
0°-180°	18048.1	100.0

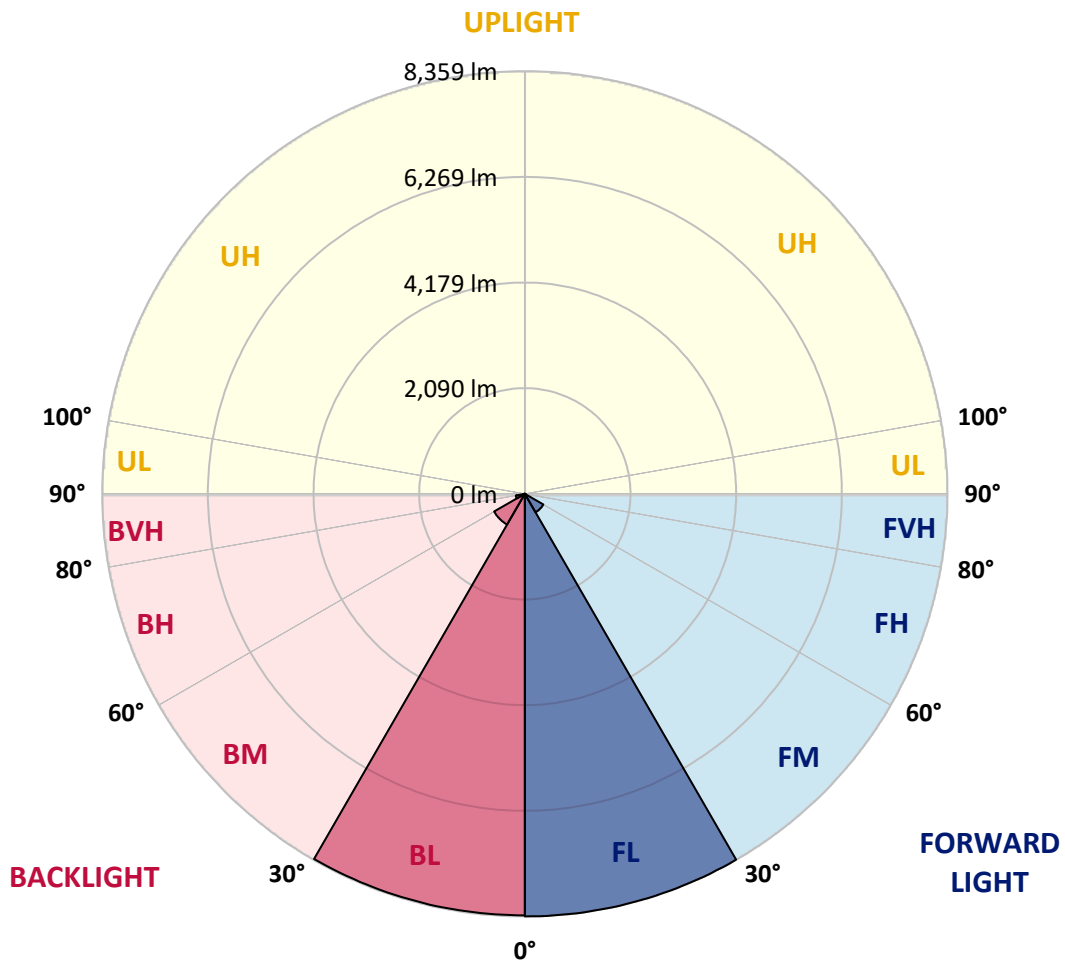


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8358.6	46.3			
FM (30°-60°)	421.8	2.3			
FH (60°-80°)	19.9	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8338.8	46.2	B5		
BM (30°-60°)	701.8	3.9	B1/1000		
BH (60°-80°)	181.2	1.0	B1/500		G0/660
BVH (80°-90°)	22.0	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°	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9
1°	177129.3	176588.8	175193.1	176185.8	177058.6	176805.0	176787.3	176693.0	176561.2	177595.2
2°	170048.8	169698.9	167634.9	168486.1	169726.4	168822.2	169388.3	168891.0	168900.8	170135.3
3°	158112.9	158303.6	155011.0	156558.0	158282.0	156090.2	156770.3	158048.1	156709.4	156306.4
4°	142599.5	140944.3	139145.7	140718.3	141164.5	139888.7	141142.8	142707.6	140848.0	140930.6
5°	124888.3	123665.6	121536.7	122507.8	121401.1	121804.1	123683.3	124328.1	123030.7	121397.2
6°	106677.8	105809.0	103147.4	104547.0	104153.8	103925.8	106298.4	104332.7	105040.4	104051.6
7°	88734.7	87111.0	85803.8	87144.4	87230.9	86544.9	89625.2	89267.4	87979.9	87681.1
8°	73518.0	71898.3	70791.6	71790.2	72442.8	71365.6	72814.3	73765.7	72759.3	72849.7
9°	59296.0	59011.0	57471.8	58777.1	59486.7	58332.8	59936.9	60280.9	59339.3	59797.3
10°	48687.0	48354.8	47126.2	47655.0	48830.5	47454.5	48993.7	49105.7	48354.8	48569.1
12.5°	30087.4	29953.7	29920.3	29996.9	29981.2	30225.0	30618.1	30169.9	30110.9	29369.9
15°	19446.9	19645.4	19441.0	19834.1	19891.2	20121.1	19881.3	19519.6	18829.7	18487.6
17.5°	12136.4	12390.0	12739.9	13315.8	13891.8	13958.6	13640.2	13215.6	12881.4	12515.8
20°	6982.2	7106.1	7053.0	7743.0	9233.0	9637.9	9227.1	8780.9	8377.9	8008.4
22.5°	4338.4	4293.1	4375.7	4607.7	5093.2	6345.4	6009.2	5563.0	5270.1	4965.4
25°	2659.6	2708.8	2677.3	2805.1	3023.3	3554.0	3630.7	3438.0	3288.7	3131.4
27.5°	1712.1	1712.1	1725.9	1796.7	1946.1	1928.4	2337.2	2187.8	2107.3	2030.6
30°	1189.3	1193.2	1193.2	1234.5	1267.9	1208.9	1315.1	1507.7	1470.4	1411.4
32.5°	882.6	894.4	904.2	925.9	898.3	835.4	861.0	1085.1	1063.5	1041.8
35°	672.3	682.1	705.7	717.5	678.2	638.9	615.3	798.1	807.9	802.0
37.5°	489.5	495.4	538.6	583.8	538.6	503.2	489.5	613.3	660.5	654.6
40°	375.5	377.4	385.3	436.4	436.4	408.9	412.8	458.0	540.6	540.6
42.5°	322.4	322.4	330.2	322.4	324.3	353.8	363.7	369.6	458.0	458.0
45°	279.1	279.1	283.1	263.4	243.7	304.7	312.5	314.5	385.3	395.1
47.5°	233.9	233.9	241.8	216.2	206.4	241.8	263.4	269.3	332.2	340.1
50°	173.0	174.9	198.5	176.9	182.8	186.7	228.0	232.0	281.1	298.8
52.5°	116.0	116.0	119.9	137.6	159.2	153.3	184.8	198.5	224.1	247.7
55°	94.4	94.4	92.4	88.5	117.9	127.8	135.6	165.1	182.8	212.3
57.5°	64.9	68.8	62.9	72.7	76.7	96.3	102.2	129.7	139.6	178.9
60°	7.9	9.8	13.8	53.1	51.1	64.9	76.7	102.2	114.0	137.6
62.5°	2.0	2.0	3.9	9.8	35.4	43.2	60.9	70.8	82.6	106.1
65°	0.0	0.0	2.0	3.9	7.9	23.6	31.5	41.3	59.0	74.7
67.5°	0.0	0.0	2.0	3.9	3.9	9.8	15.7	25.6	31.5	55.0
70°	0.0	0.0	2.0	3.9	3.9	7.9	9.8	11.8	21.6	29.5
72.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.8	9.8	9.8	19.7
75°	0.0	0.0	2.0	3.9	5.9	7.9	9.8	9.8	7.9	7.9
77.5°	0.0	0.0	2.0	3.9	7.9	9.8	11.8	9.8	5.9	5.9
80°	0.0	0.0	2.0	5.9	9.8	13.8	15.7	11.8	5.9	3.9
82.5°	0.0	0.0	3.9	7.9	11.8	15.7	21.6	17.7	7.9	3.9
85°	0.0	0.0	2.0	5.9	11.8	15.7	31.5	21.6	9.8	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	3.9	11.8	7.9	3.9	2.0
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°
179275.9	0°	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9	179275.9
176402.0	1°	177634.5	177758.4	177353.4	177980.5	177760.3	176470.8	176044.3	175539.1
169409.9	2°	168891.0	169522.0	169553.4	170249.3	170239.5	168735.7	168269.8	169128.8
157124.2	3°	156648.5	157383.7	156721.2	157957.6	157586.1	155761.9	155288.2	156263.2
141583.2	4°	141160.5	141021.0	140793.0	140089.2	140956.1	139711.8	138774.2	140097.1
123563.4	5°	123315.7	123005.1	122560.9	122352.5	122997.3	122201.1	120272.8	122205.1
105840.4	6°	105970.2	104633.5	104568.6	104452.6	104517.5	102288.4	102422.0	103860.9
86653.0	7°	87569.0	87814.7	87313.5	88117.5	87504.2	85994.5	85412.6	86928.2
73246.8	8°	72735.7	72425.1	72041.8	73242.8	72179.4	71188.7	70510.5	71707.6
59872.0	9°	59759.9	59223.3	58834.1	58773.2	58938.3	57078.7	57456.1	58362.3
48687.0	10°	48704.7	47824.1	48038.3	48095.3	47914.5	46695.8	46707.5	47020.1
29861.3	12.5°	29755.2	29322.7	29430.8	29489.8	29857.4	29428.8	28823.4	28387.0
18827.7	15°	18701.9	18391.3	19026.2	19452.8	19366.3	18985.0	18699.9	18304.8
12515.8	17.5°	12399.8	12806.7	12808.7	13197.9	13237.2	12855.8	12635.7	12279.9
8140.1	20°	8110.6	8279.6	8631.5	8906.7	9065.9	8775.0	8511.6	8267.8
5075.5	22.5°	5075.5	5370.4	5590.5	5948.3	6093.7	5881.4	5694.7	5496.2
3168.7	25°	3115.7	3326.0	3508.8	3819.4	4017.9	3915.7	3744.7	3605.1
2046.3	27.5°	2077.8	2166.2	2256.7	2470.9	2677.3	2620.3	2551.5	2467.0
1442.8	30°	1464.5	1472.3	1568.6	1688.6	1826.2	1861.5	1830.1	1786.8
1059.5	32.5°	1079.2	1110.6	1155.8	1230.5	1322.9	1407.5	1391.7	1372.1
809.9	35°	833.5	880.6	918.0	975.0	1024.1	1104.7	1118.5	1112.6
666.4	37.5°	680.1	721.4	758.8	792.2	833.5	888.5	931.8	933.7
550.4	40°	564.2	601.5	650.7	676.2	705.7	747.0	800.0	804.0
465.9	42.5°	475.7	511.1	560.2	591.7	613.3	652.6	705.7	713.6
399.0	45°	408.9	430.5	481.6	519.0	540.6	566.1	623.1	631.0
344.0	47.5°	355.8	377.4	408.9	461.9	481.6	505.2	550.4	564.2
304.7	50°	312.5	334.2	361.7	408.9	438.4	458.0	495.4	515.0
265.4	52.5°	277.2	298.8	328.3	365.6	399.0	416.7	452.1	477.7
216.2	55°	232.0	269.3	290.9	324.3	369.6	385.3	412.8	446.2
188.7	57.5°	202.5	233.9	265.4	292.9	338.1	357.8	385.3	416.7
149.4	60°	171.0	200.5	237.9	261.4	304.7	330.2	359.7	389.2
114.0	62.5°	135.6	174.9	200.5	233.9	275.2	308.6	332.2	361.7
88.5	65°	100.3	143.5	173.0	208.4	247.7	283.1	302.7	334.2
62.9	67.5°	72.7	112.0	147.4	180.8	218.2	253.6	273.2	300.8
39.3	70°	57.0	82.6	121.9	151.4	190.7	220.2	241.8	259.5
25.6	72.5°	33.4	62.9	98.3	131.7	167.1	186.7	202.5	218.2
11.8	75°	21.6	49.1	80.6	110.1	135.6	153.3	167.1	180.8
5.9	77.5°	13.8	35.4	64.9	92.4	104.2	125.8	137.6	145.5
3.9	80°	7.9	27.5	57.0	74.7	84.5	98.3	110.1	119.9
3.9	82.5°	5.9	23.6	47.2	62.9	62.9	78.6	84.5	84.5
2.0	85°	3.9	19.7	37.3	59.0	47.2	59.0	55.0	55.0
2.0	87.5°	3.9	13.8	17.7	25.6	21.6	25.6	25.6	29.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
179275.9
173538.0
165490.3
151932.7
135308.6
117113.9
99689.7
82806.1
68289.2
55531.7
44893.2
28121.6
18102.3
12191.4
8183.3
5390.0
3524.5
2417.8
1757.4
1356.3
1092.9
920.0
798.1
707.7
629.0
566.1
517.0
477.7
448.2
418.7
397.1
375.5
340.1
302.7
265.4
222.1
180.8
141.5
108.1
78.6
53.1
29.5
0.0

(END OF REPORT)