

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: P637120

Luminaire Tested: **IFLD-S-SA3B-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637120
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16922 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

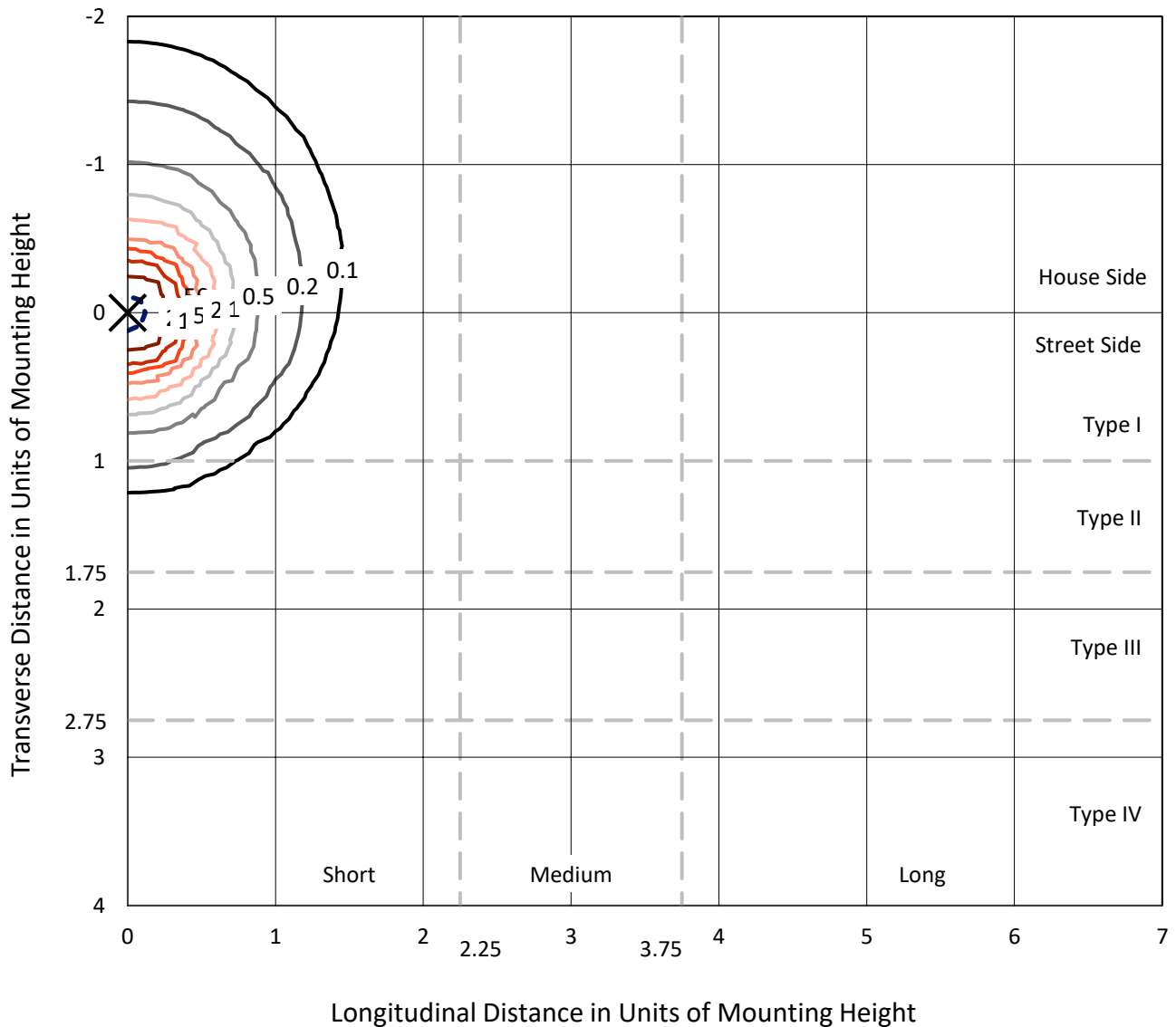
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

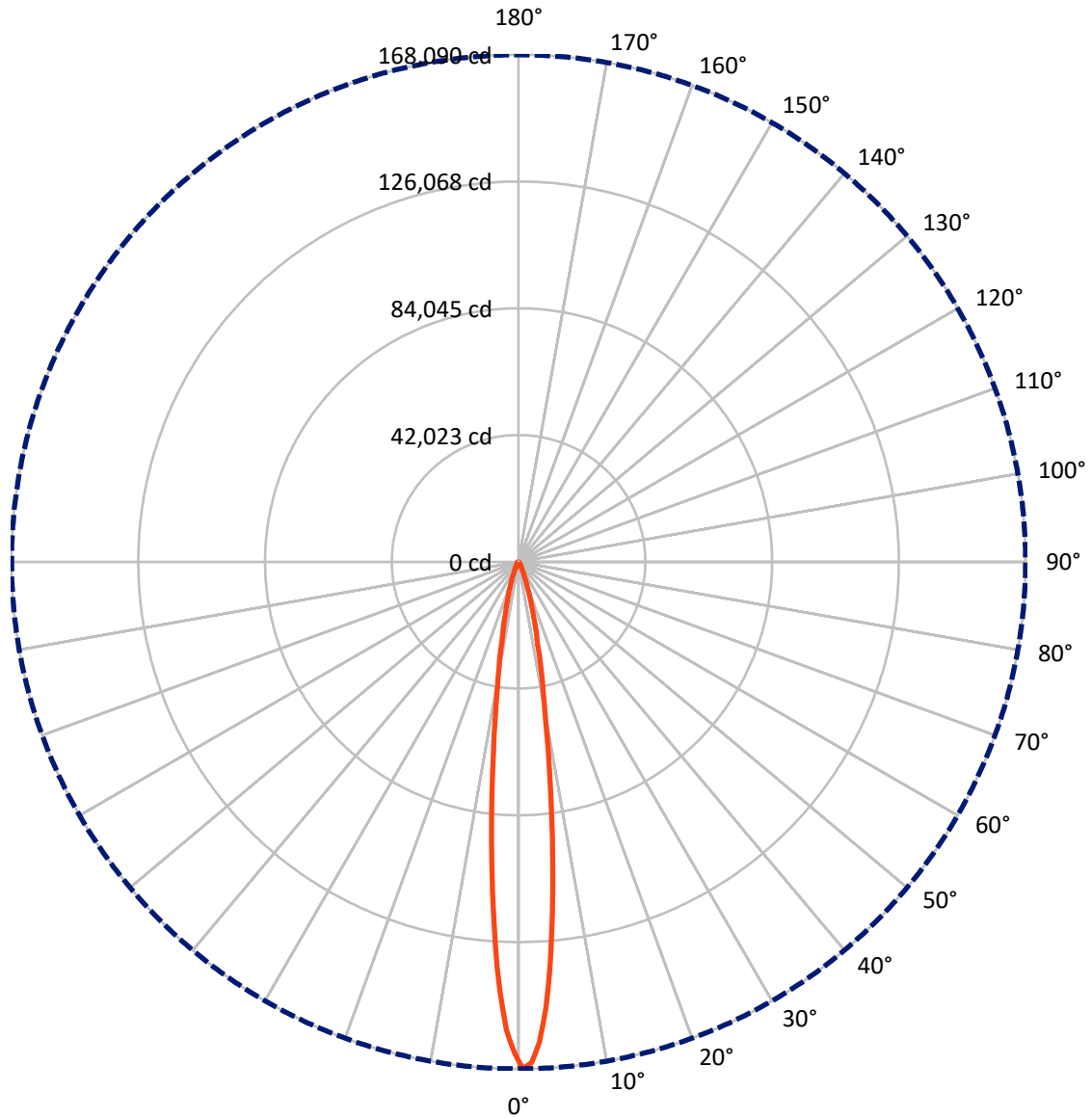
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 420.2 fc
 Type V - Short - N/A

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CATALOG NUMBER: IFLD-S-SA3B-740-U-33-VI

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	8667.1	0.0	8667.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8254.8	0.0	8254.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	16922.0	0.0	16922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8542.7	50.5
10°-20°	5469.0	32.3
20°-30°	1643.9	9.7
30°-40°	535.3	3.2
40°-50°	311.4	1.8
50°-60°	206.9	1.2
60°-70°	124.5	0.7
70°-80°	64.0	0.4
80°-90°	24.3	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°	16922.0	100.0
0°-180°	16922.0	100.0

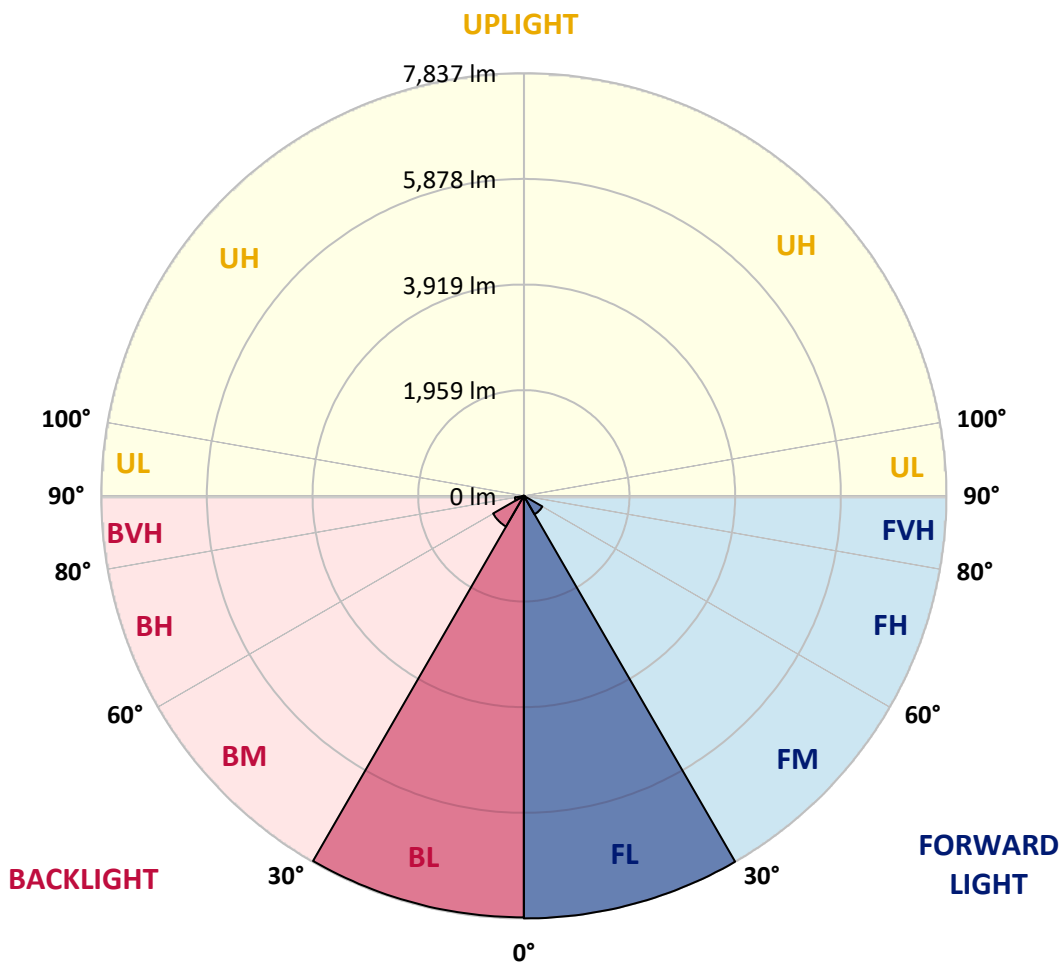


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7837.1	46.3			
FM (30°-60°)	395.5	2.3			
FH (60°-80°)	18.6	0.1			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	7818.5	46.2	B5		
BM (30°-60°)	658.1	3.9	B1/1000		
BH (60°-80°)	169.9	1.0	B1/500		G0/660
BVH (80°-90°)	20.6	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°	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0
1°	166077.4	165570.5	164261.9	165192.7	166011.0	165773.3	165756.7	165668.2	165544.7	166514.2
2°	159438.6	159110.5	157175.3	157973.4	159136.4	158288.5	158819.3	158353.0	158362.3	159519.7
3°	148247.5	148426.3	145339.1	146789.6	148406.0	146351.0	146988.7	148186.7	146931.5	146553.7
4°	133702.0	132150.1	130463.7	131938.1	132356.5	131160.4	132336.2	133803.3	132059.8	132137.2
5°	117095.9	115949.5	113953.4	114863.9	113826.3	114204.1	115966.1	116570.6	115354.2	113822.6
6°	100021.7	99207.0	96711.5	98023.8	97655.2	97441.4	99666.0	97822.9	98486.4	97559.3
7°	83198.1	81675.7	80450.1	81707.1	81788.2	81144.9	84033.0	83697.6	82490.4	82210.2
8°	68930.9	67412.2	66374.5	67310.8	67922.7	66912.7	68271.1	69163.1	68219.5	68304.2
9°	55596.3	55329.0	53885.9	55109.7	55775.0	54693.2	56197.1	56519.6	55636.8	56066.2
10°	45649.2	45337.7	44185.8	44681.6	45783.7	44493.6	45936.7	46041.8	45337.7	45538.6
12.5°	28210.1	28084.7	28053.4	28125.3	28110.5	28339.1	28707.7	28287.5	28232.2	27537.3
15°	18233.5	18419.7	18228.0	18596.6	18650.0	18865.7	18640.8	18301.7	17654.8	17334.1
17.5°	11379.1	11616.9	11944.9	12485.0	13025.0	13087.7	12789.1	12391.0	12077.6	11734.8
20°	6546.6	6662.7	6612.9	7259.9	8656.9	9036.6	8651.4	8233.0	7855.2	7508.7
22.5°	4067.7	4025.3	4102.7	4320.2	4775.4	5949.4	5634.3	5215.9	4941.3	4655.6
25°	2493.7	2539.8	2510.3	2630.1	2834.6	3332.3	3404.2	3223.5	3083.5	2936.0
27.5°	1605.3	1605.3	1618.2	1684.6	1824.6	1808.1	2191.4	2051.3	1975.8	1903.9
30°	1115.1	1118.7	1118.7	1157.4	1188.8	1133.5	1233.0	1413.6	1378.6	1323.3
32.5°	827.5	838.6	847.8	868.1	842.3	783.3	807.3	1017.4	997.1	976.8
35°	630.3	639.5	661.7	672.7	635.9	599.0	576.9	748.3	757.5	752.0
37.5°	458.9	464.5	505.0	547.4	505.0	471.8	458.9	575.0	619.3	613.7
40°	352.0	353.9	361.2	409.2	409.2	383.4	387.0	429.4	506.8	506.8
42.5°	302.3	302.3	309.6	302.3	304.1	331.8	341.0	346.5	429.4	429.4
45°	261.7	261.7	265.4	247.0	228.5	285.7	293.0	294.9	361.2	370.5
47.5°	219.3	219.3	226.7	202.7	193.5	226.7	247.0	252.5	311.5	318.9
50°	162.2	164.0	186.2	165.9	171.4	175.1	213.8	217.5	263.6	280.1
52.5°	108.7	108.7	112.4	129.0	149.3	143.8	173.2	186.2	210.1	232.2
55°	88.5	88.5	86.6	82.9	110.6	119.8	127.2	154.8	171.4	199.1
57.5°	60.8	64.5	59.0	68.2	71.9	90.3	95.8	121.6	130.9	167.7
60°	7.4	9.2	12.9	49.8	47.9	60.8	71.9	95.8	106.9	129.0
62.5°	1.8	1.8	3.7	9.2	33.2	40.5	57.1	66.4	77.4	99.5
65°	0.0	0.0	1.8	3.7	7.4	22.1	29.5	38.7	55.3	70.0
67.5°	0.0	0.0	1.8	3.7	3.7	9.2	14.7	24.0	29.5	51.6
70°	0.0	0.0	1.8	3.7	3.7	7.4	9.2	11.1	20.3	27.6
72.5°	0.0	0.0	1.8	3.7	5.5	7.4	9.2	9.2	9.2	18.4
75°	0.0	0.0	1.8	3.7	5.5	7.4	9.2	9.2	7.4	7.4
77.5°	0.0	0.0	1.8	3.7	7.4	9.2	11.1	9.2	5.5	5.5
80°	0.0	0.0	1.8	5.5	9.2	12.9	14.7	11.1	5.5	3.7
82.5°	0.0	0.0	3.7	7.4	11.1	14.7	20.3	16.6	7.4	3.7
85°	0.0	0.0	1.8	5.5	11.1	14.7	29.5	20.3	9.2	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.7	11.1	7.4	3.7	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°
168090.0	0°	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0	168090.0
165395.4	1°	166551.0	166667.1	166287.5	166875.4	166669.0	165459.9	165060.0	164586.3
158839.6	2°	158353.0	158944.7	158974.2	159626.6	159617.4	158207.4	157770.6	158576.1
147320.4	3°	146874.4	147563.7	146942.6	148101.9	147753.5	146043.2	145599.0	146513.2
132749.1	4°	132352.8	132222.0	132008.2	131348.4	132161.2	130994.5	130115.3	131355.7
115853.7	5°	115621.4	115330.2	114913.7	114718.3	115322.8	114576.4	112768.3	114580.1
99236.5	6°	99358.2	98104.9	98044.0	97935.3	97996.1	95906.1	96031.4	97380.5
81246.3	7°	82105.2	82335.5	81865.6	82619.4	82044.3	80628.9	80083.3	81504.3
68676.5	8°	68197.3	67906.1	67546.7	68672.9	67675.8	66746.8	66111.0	67233.4
56136.3	9°	56031.2	55528.1	55163.1	55106.0	55260.8	53517.3	53871.1	54720.8
45649.2	10°	45665.8	44840.1	45041.0	45094.4	44924.9	43782.2	43793.2	44086.3
27998.1	12.5°	27898.6	27493.1	27594.5	27649.8	27994.4	27592.6	27025.0	26615.8
17652.9	15°	17535.0	17243.8	17839.1	18239.0	18157.9	17800.4	17533.1	17162.7
11734.8	17.5°	11626.1	12007.6	12009.5	12374.4	12411.2	12053.7	11847.3	11513.7
7632.2	20°	7604.5	7763.0	8092.9	8351.0	8500.2	8227.5	7980.5	7752.0
4758.8	22.5°	4758.8	5035.3	5241.7	5577.1	5713.5	5514.5	5339.4	5153.2
2971.0	25°	2921.3	3118.5	3289.9	3581.1	3767.2	3671.4	3511.1	3380.2
1918.6	27.5°	1948.1	2031.1	2115.8	2316.7	2510.3	2456.8	2392.3	2313.1
1352.8	30°	1373.1	1380.5	1470.8	1583.2	1712.2	1745.4	1715.9	1675.4
993.4	32.5°	1011.8	1041.3	1083.7	1153.8	1240.4	1319.6	1304.9	1286.5
759.3	35°	781.5	825.7	860.7	914.2	960.2	1035.8	1048.7	1043.2
624.8	37.5°	637.7	676.4	711.4	742.8	781.5	833.1	873.6	875.5
516.1	40°	529.0	564.0	610.1	634.0	661.7	700.4	750.1	753.8
436.8	42.5°	446.0	479.2	525.3	554.8	575.0	611.9	661.7	669.0
374.1	45°	383.4	403.6	451.6	486.6	506.8	530.8	584.3	591.6
322.5	47.5°	333.6	353.9	383.4	433.1	451.6	473.7	516.1	529.0
285.7	50°	293.0	313.3	339.1	383.4	411.0	429.4	464.5	482.9
248.8	52.5°	259.9	280.1	307.8	342.8	374.1	390.7	423.9	447.9
202.7	55°	217.5	252.5	272.8	304.1	346.5	361.2	387.0	418.4
176.9	57.5°	189.8	219.3	248.8	274.6	317.0	335.4	361.2	390.7
140.1	60°	160.3	188.0	223.0	245.1	285.7	309.6	337.3	364.9
106.9	62.5°	127.2	164.0	188.0	219.3	258.0	289.4	311.5	339.1
82.9	65°	94.0	134.5	162.2	195.4	232.2	265.4	283.8	313.3
59.0	67.5°	68.2	105.1	138.2	169.6	204.6	237.8	256.2	282.0
36.9	70°	53.4	77.4	114.3	141.9	178.8	206.4	226.7	243.3
24.0	72.5°	31.3	59.0	92.2	123.5	156.7	175.1	189.8	204.6
11.1	75°	20.3	46.1	75.6	103.2	127.2	143.8	156.7	169.6
5.5	77.5°	12.9	33.2	60.8	86.6	97.7	118.0	129.0	136.4
3.7	80°	7.4	25.8	53.4	70.0	79.3	92.2	103.2	112.4
3.7	82.5°	5.5	22.1	44.2	59.0	59.0	73.7	79.3	79.3
1.8	85°	3.7	18.4	35.0	55.3	44.2	55.3	51.6	51.6
1.8	87.5°	3.7	12.9	16.6	24.0	20.3	24.0	24.0	27.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
168090.0
162710.1
155164.5
142452.9
126866.0
109806.5
93469.5
77639.4
64028.3
52066.8
42092.1
26367.0
16972.8
11430.7
7672.7
5053.7
3304.6
2267.0
1647.7
1271.7
1024.7
862.6
748.3
663.5
589.8
530.8
484.7
447.9
420.2
392.6
372.3
352.0
318.9
283.8
248.8
208.3
169.6
132.7
101.4
73.7
49.8
27.6
0.0

(END OF REPORT)