

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: P637237

Luminaire Tested: **IFLD-S-SA3C-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637237
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16738.3 lumens
Efficiency: N/A
Efficacy: 104.1 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

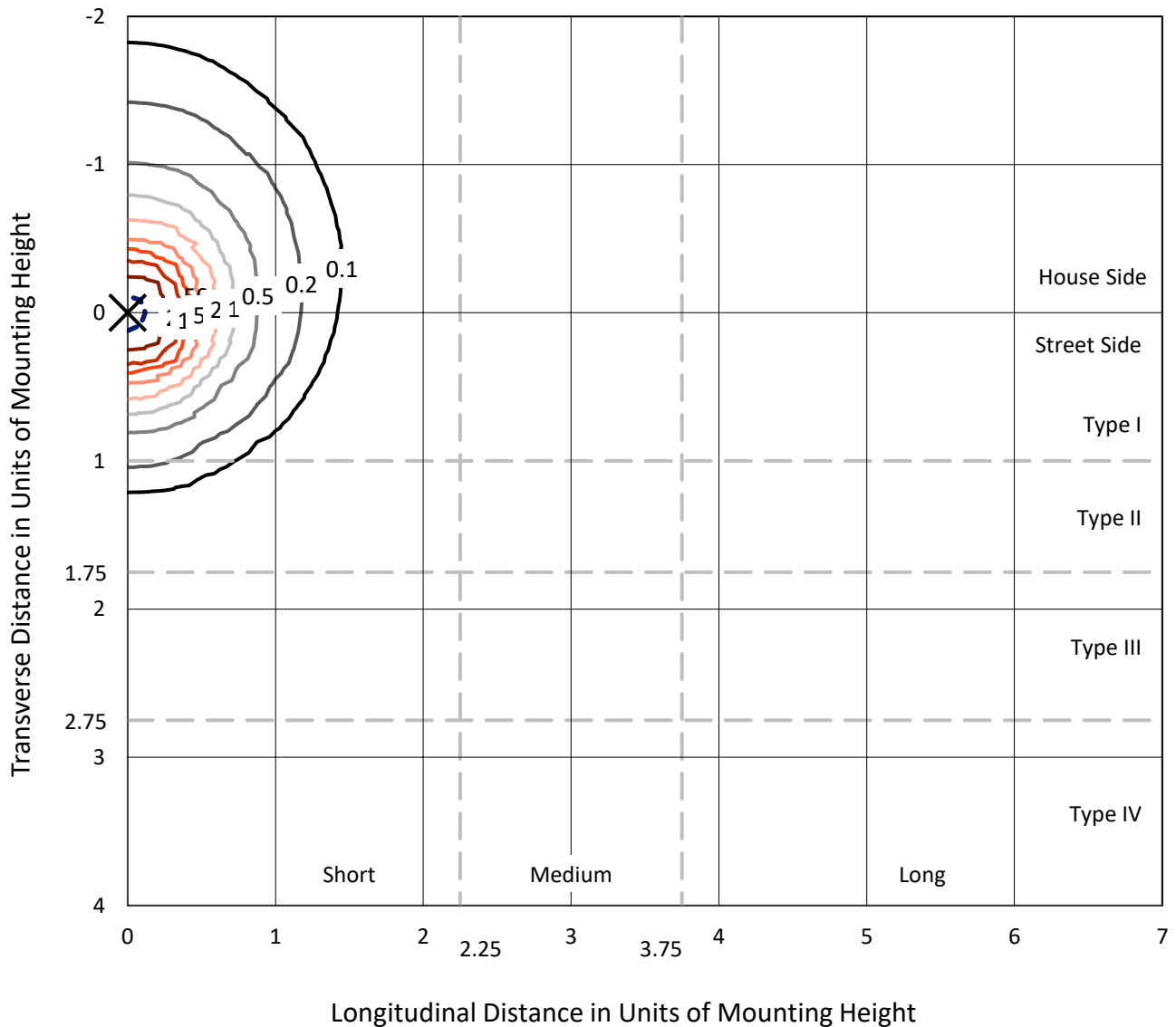
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

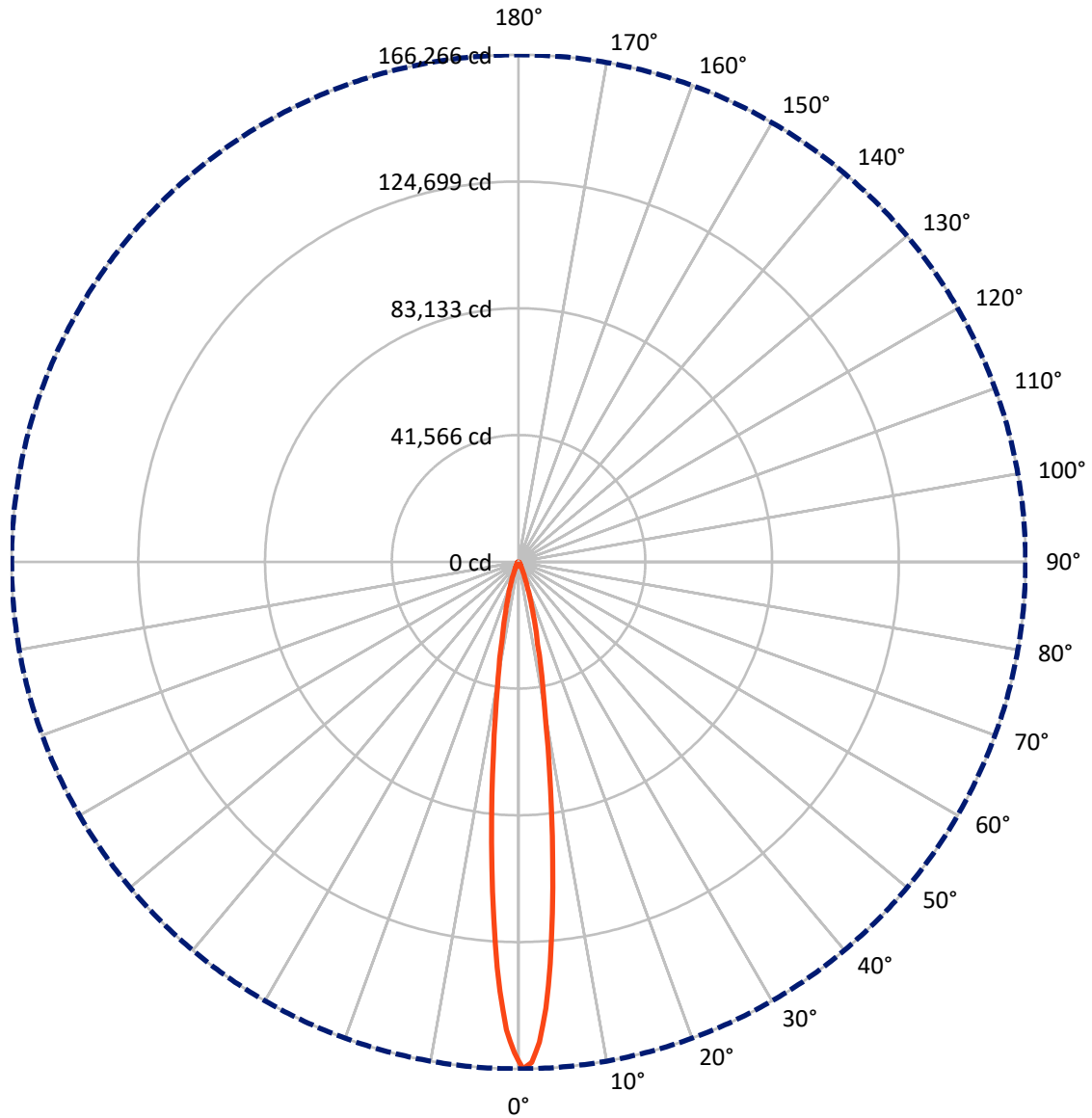
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 415.7 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	8573.1	0.0	8573.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8165.2	0.0	8165.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	16738.3	0.0	16738.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8450.0	50.5
10°-20°	5409.7	32.3
20°-30°	1626.0	9.7
30°-40°	529.4	3.2
40°-50°	308.0	1.8
50°-60°	204.6	1.2
60°-70°	123.2	0.7
70°-80°	63.3	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°	16738.3	100.0
0°-180°	16738.3	100.0

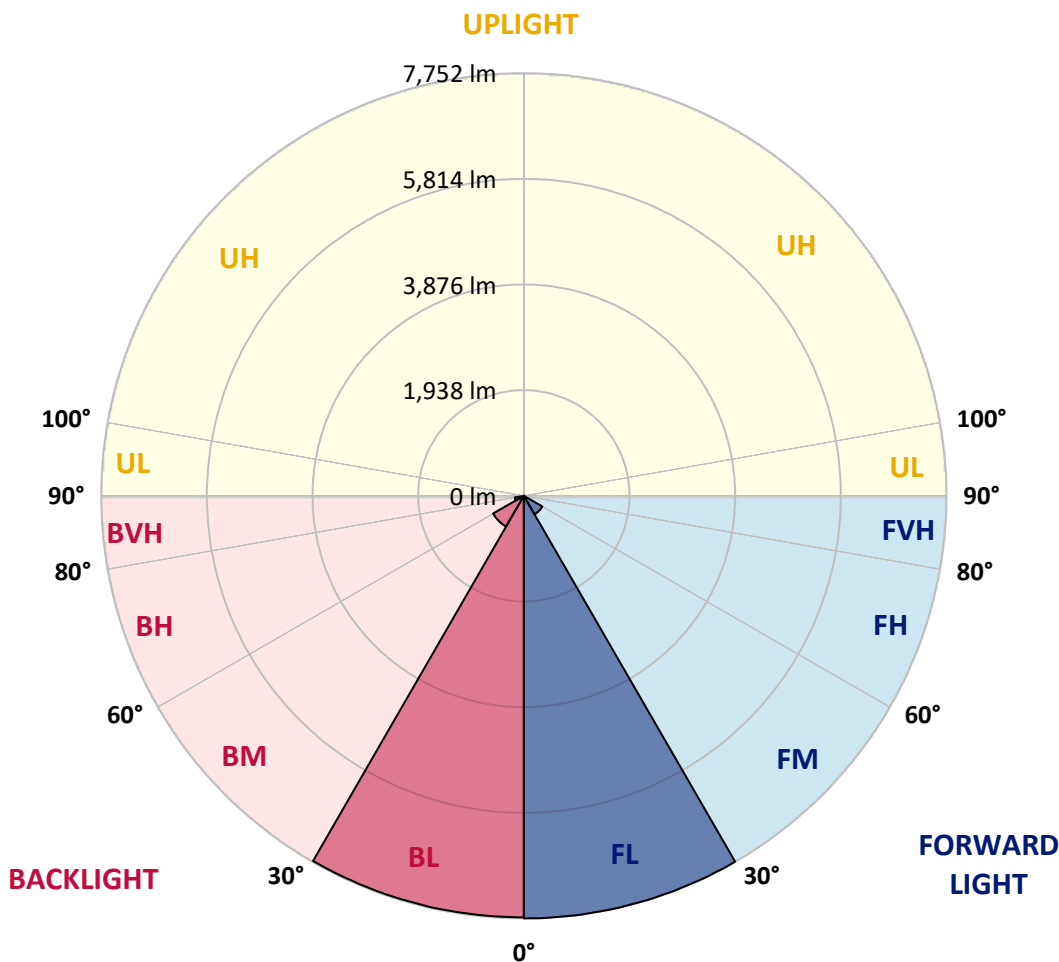


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7752.0	46.3			
FM (30°-60°)	391.2	2.3			
FH (60°-80°)	18.4	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7733.7	46.2	B5		
BM (30°-60°)	650.9	3.9	B1/1000		
BH (60°-80°)	168.1	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°	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8
1°	164275.0	163773.7	162479.3	163399.9	164209.4	163974.2	163957.8	163870.3	163748.1	164707.1
2°	157708.3	157383.8	155469.6	156259.0	157409.3	156570.7	157095.8	156634.5	156643.6	157788.5
3°	146638.6	146815.5	143761.8	145196.6	146795.4	144762.7	145393.5	146578.5	145337.0	144963.2
4°	132251.0	130715.9	129047.8	130506.3	130920.1	129737.0	130900.1	132351.2	130626.6	130703.2
5°	115825.1	114691.2	112716.8	113617.4	112591.0	112964.7	114707.6	115305.5	114102.3	112587.3
6°	98936.2	98130.4	95662.0	96960.0	96595.4	96383.9	98584.3	96761.3	97417.6	96500.6
7°	82295.2	80789.3	79577.0	80820.3	80900.6	80264.3	83121.1	82789.3	81595.1	81318.0
8°	68182.8	66680.6	65654.2	66580.3	67185.6	66186.6	67530.2	68412.5	67479.1	67563.0
9°	54992.9	54728.6	53301.1	54511.6	55169.7	54099.6	55587.2	55906.3	55033.0	55457.8
10°	45153.8	44845.7	43706.3	44196.7	45286.9	44010.7	45438.2	45542.1	44845.7	45044.4
12.5°	27903.9	27779.9	27748.9	27820.0	27805.5	28031.5	28396.1	27980.5	27925.8	27238.5
15°	18035.6	18219.8	18030.2	18394.8	18447.6	18660.9	18438.5	18103.1	17463.2	17146.0
17.5°	11255.6	11490.8	11815.3	12349.5	12883.6	12945.6	12650.3	12256.5	11946.6	11607.5
20°	6475.5	6590.4	6541.2	7181.1	8563.0	8938.5	8557.5	8143.7	7769.9	7427.2
22.5°	4023.5	3981.6	4058.2	4273.3	4723.6	5884.9	5573.1	5159.3	4887.7	4605.1
25°	2466.6	2512.2	2483.0	2601.5	2803.9	3296.1	3367.2	3188.5	3050.0	2904.2
27.5°	1587.9	1587.9	1600.7	1666.3	1804.8	1788.4	2167.6	2029.1	1954.3	1883.2
30°	1103.0	1106.6	1106.6	1144.9	1175.9	1121.2	1219.6	1398.3	1363.7	1309.0
32.5°	818.6	829.5	838.6	858.7	833.1	774.8	798.5	1006.3	986.3	966.2
35°	623.5	632.6	654.5	665.4	629.0	592.5	570.6	740.2	749.3	743.8
37.5°	453.9	459.4	499.5	541.5	499.5	466.7	453.9	568.8	612.6	607.1
40°	348.2	350.0	357.3	404.7	404.7	379.2	382.8	424.8	501.3	501.3
42.5°	299.0	299.0	306.3	299.0	300.8	328.2	337.3	342.7	424.8	424.8
45°	258.9	258.9	262.5	244.3	226.1	282.6	289.9	291.7	357.3	366.4
47.5°	216.9	216.9	224.2	200.5	191.4	224.2	244.3	249.8	308.1	315.4
50°	160.4	162.3	184.1	164.1	169.5	173.2	211.5	215.1	260.7	277.1
52.5°	107.6	107.6	111.2	127.6	147.7	142.2	171.4	184.1	207.8	229.7
55°	87.5	87.5	85.7	82.0	109.4	118.5	125.8	153.1	169.5	196.9
57.5°	60.2	63.8	58.3	67.5	71.1	89.3	94.8	120.3	129.4	165.9
60°	7.3	9.1	12.8	49.2	47.4	60.2	71.1	94.8	105.7	127.6
62.5°	1.8	1.8	3.6	9.1	32.8	40.1	56.5	65.6	76.6	98.4
65°	0.0	0.0	1.8	3.6	7.3	21.9	29.2	38.3	54.7	69.3
67.5°	0.0	0.0	1.8	3.6	3.6	9.1	14.6	23.7	29.2	51.0
70°	0.0	0.0	1.8	3.6	3.6	7.3	9.1	10.9	20.1	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	12.8	14.6	10.9	5.5	3.6
82.5°	0.0	0.0	3.6	7.3	10.9	14.6	20.1	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.6	29.2	20.1	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°
166265.8	0°	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8	166265.8
163600.5	1°	164743.5	164858.4	164482.8	165064.4	164860.2	163664.3	163268.7	162800.1
157115.8	2°	156634.5	157219.7	157248.9	157894.3	157885.2	156490.5	156058.4	156855.1
145721.6	3°	145280.4	145962.3	145347.9	146494.6	146150.1	144458.2	144018.9	144923.1
131308.4	4°	130916.5	130787.0	130575.6	129922.9	130726.9	129572.9	128703.3	129930.2
114596.4	5°	114366.6	114078.6	113666.6	113473.3	114071.3	113333.0	111544.5	113336.6
98159.6	6°	98279.9	97040.2	96980.0	96872.5	96932.6	94865.3	94989.2	96323.7
80364.6	7°	81214.1	81442.0	80977.1	81722.8	81154.0	79753.8	79214.2	80619.8
67931.2	8°	67457.2	67169.2	66813.7	67927.6	66941.3	66022.5	65393.5	66503.8
55527.1	9°	55423.2	54925.5	54564.5	54508.0	54661.1	52936.5	53286.5	54126.9
45153.8	10°	45170.2	44353.5	44552.2	44605.1	44437.3	43307.0	43318.0	43607.8
27694.3	12.5°	27595.8	27194.7	27295.0	27349.7	27690.6	27293.2	26731.7	26327.0
17461.4	15°	17344.7	17056.6	17645.5	18041.1	17960.9	17607.2	17342.9	16976.4
11607.5	17.5°	11499.9	11877.3	11879.1	12240.1	12276.6	11922.9	11718.7	11388.7
7549.3	20°	7522.0	7678.8	8005.1	8260.3	8408.0	8138.2	7893.9	7667.8
4707.2	22.5°	4707.2	4980.6	5184.8	5516.6	5651.5	5454.6	5281.4	5097.3
2938.8	25°	2889.6	3084.6	3254.2	3542.2	3726.4	3631.6	3472.9	3343.5
1897.8	27.5°	1927.0	2009.0	2092.9	2291.6	2483.0	2430.2	2366.3	2288.0
1338.1	30°	1358.2	1365.5	1454.8	1566.0	1693.6	1726.4	1697.3	1657.2
982.6	32.5°	1000.9	1030.0	1072.0	1141.2	1226.9	1305.3	1290.7	1272.5
751.1	35°	773.0	816.7	851.4	904.2	949.8	1024.6	1037.3	1031.9
618.0	37.5°	630.8	669.1	703.7	734.7	773.0	824.0	864.1	866.0
510.5	40°	523.2	557.9	603.4	627.1	654.5	692.8	742.0	745.6
432.1	42.5°	441.2	474.0	519.6	548.7	568.8	605.3	654.5	661.8
370.1	45°	379.2	399.3	446.7	481.3	501.3	525.0	577.9	585.2
319.0	47.5°	330.0	350.0	379.2	428.4	446.7	468.5	510.5	523.2
282.6	50°	289.9	309.9	335.4	379.2	406.5	424.8	459.4	477.6
246.1	52.5°	257.1	277.1	304.5	339.1	370.1	386.5	419.3	443.0
200.5	55°	215.1	249.8	269.8	300.8	342.7	357.3	382.8	413.8
175.0	57.5°	187.8	216.9	246.1	271.6	313.6	331.8	357.3	386.5
138.6	60°	158.6	186.0	220.6	242.5	282.6	306.3	333.6	361.0
105.7	62.5°	125.8	162.3	186.0	216.9	255.2	286.2	308.1	335.4
82.0	65°	93.0	133.1	160.4	193.2	229.7	262.5	280.8	309.9
58.3	67.5°	67.5	103.9	136.7	167.7	202.4	235.2	253.4	278.9
36.5	70°	52.9	76.6	113.0	140.4	176.8	204.2	224.2	240.6
23.7	72.5°	31.0	58.3	91.2	122.1	155.0	173.2	187.8	202.4
10.9	75°	20.1	45.6	74.7	102.1	125.8	142.2	155.0	167.7
5.5	77.5°	12.8	32.8	60.2	85.7	96.6	116.7	127.6	134.9
3.6	80°	7.3	25.5	52.9	69.3	78.4	91.2	102.1	111.2
3.6	82.5°	5.5	21.9	43.8	58.3	58.3	72.9	78.4	78.4
1.8	85°	3.6	18.2	34.6	54.7	43.8	54.7	51.0	51.0
1.8	87.5°	3.6	12.8	16.4	23.7	20.1	23.7	23.7	27.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
166265.8
160944.3
153480.6
140906.9
125489.2
108614.9
92455.2
76796.8
63333.5
51501.7
41635.3
26080.8
16788.7
11306.7
7589.4
4998.9
3268.8
2242.4
1629.8
1257.9
1013.6
853.2
740.2
656.3
583.4
525.0
479.5
443.0
415.7
388.3
368.3
348.2
315.4
280.8
246.1
206.0
167.7
131.3
100.3
72.9
49.2
27.3
0.0

(END OF REPORT)