

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: P636999

Luminaire Tested: **IFLD-S-SA2B-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636999
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8363.9 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

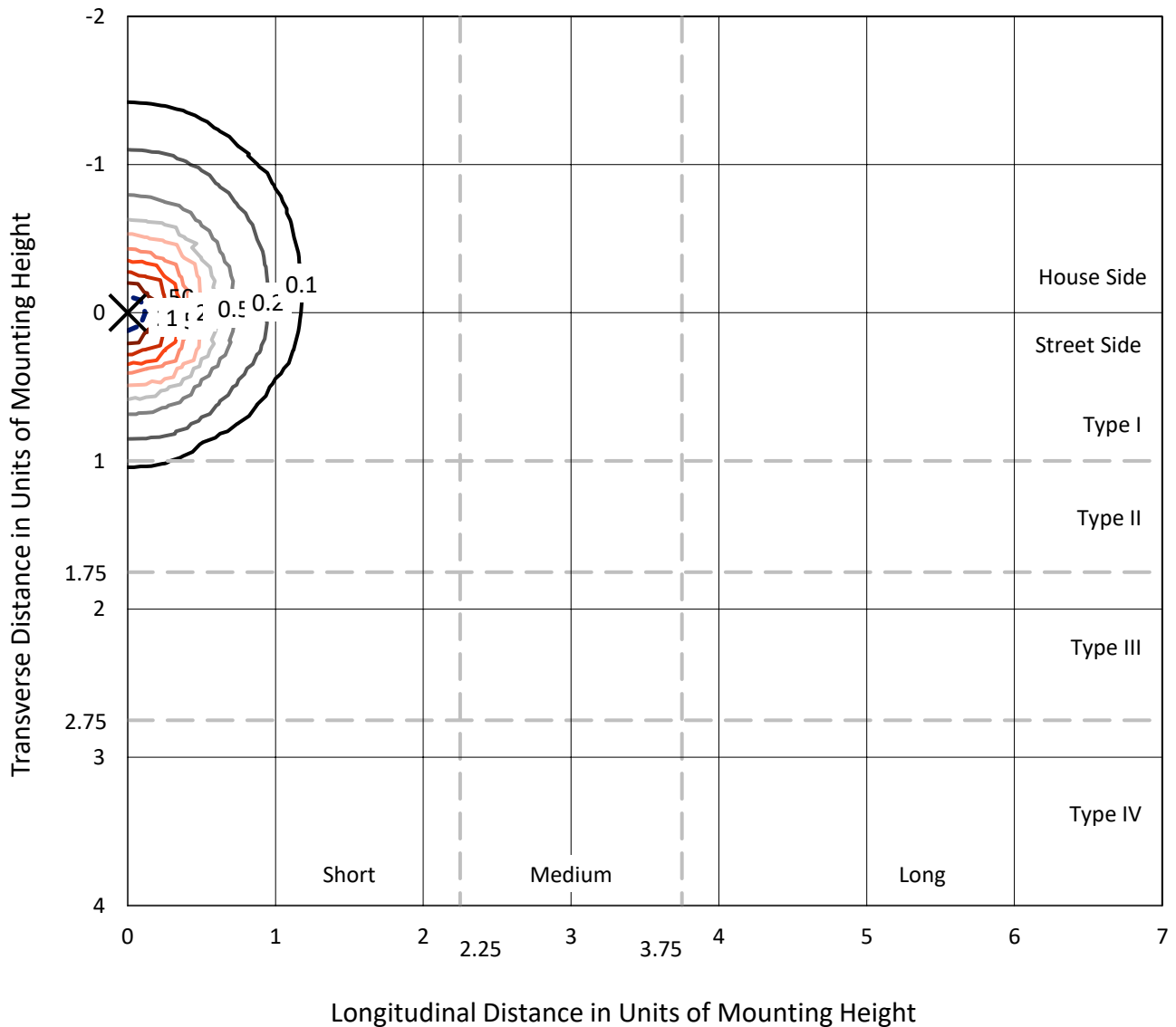
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

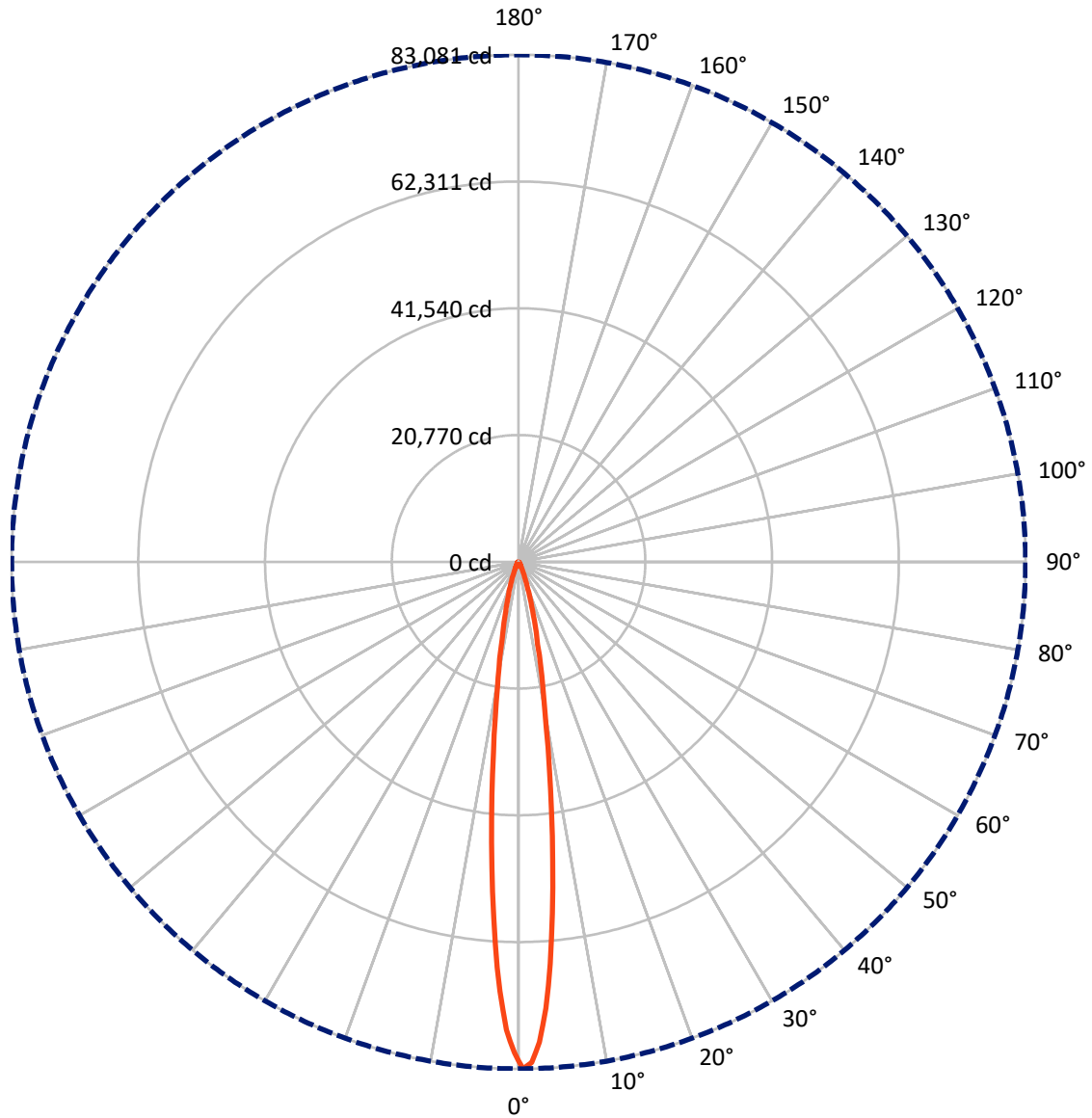
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 207.7 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	4283.8	0.0	4283.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	4080.1	0.0	4080.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	8363.9	0.0	8363.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4222.4	50.5
10°-20°	2703.1	32.3
20°-30°	812.5	9.7
30°-40°	264.6	3.2
40°-50°	153.9	1.8
50°-60°	102.2	1.2
60°-70°	61.5	0.7
70°-80°	31.6	0.4
80°-90°	12.0	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°	8363.9	100.0
0°-180°	8363.9	100.0



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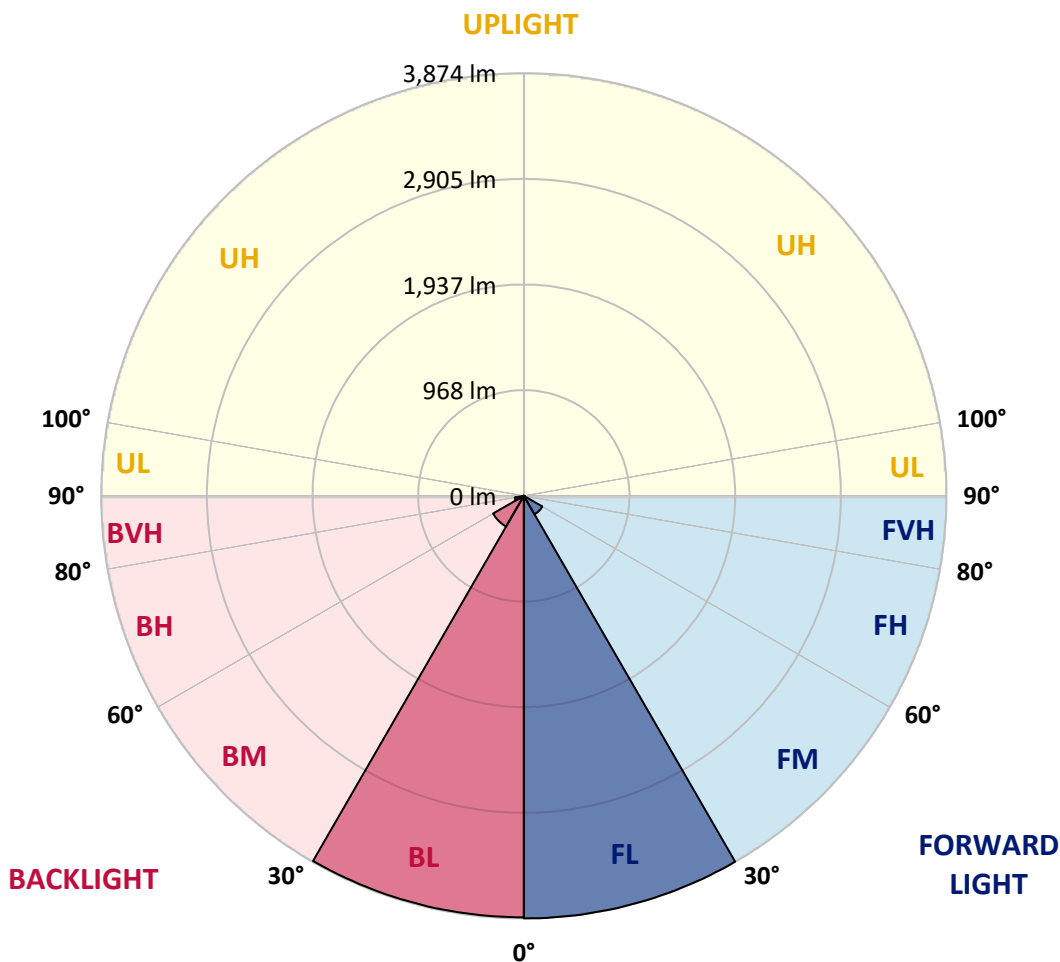
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3873.6	46.3			
FM (30°-60°)	195.5	2.3			
FH (60°-80°)	9.2	0.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	3864.4	46.2	B4/5000		
BM (30°-60°)	325.3	3.9	B1/1000		
BH (60°-80°)	84.0	1.0	B0/110		G0/660
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8
1°	82086.1	81835.5	81188.8	81648.8	82053.3	81935.8	81927.6	81883.8	81822.8	82302.0
2°	78804.8	78642.6	77686.1	78080.6	78655.4	78236.3	78498.7	78268.2	78272.8	78844.9
3°	73273.4	73361.8	71835.9	72552.8	73351.7	72336.0	72651.2	73243.3	72623.0	72436.2
4°	66084.1	65317.0	64483.5	65212.3	65419.1	64827.8	65409.0	66134.2	65272.4	65310.7
5°	57876.3	57309.7	56323.1	56773.1	56260.2	56447.0	57317.9	57616.7	57015.4	56258.4
6°	49437.1	49034.5	47801.0	48449.6	48267.4	48161.8	49261.3	48350.3	48678.3	48220.1
7°	41121.8	40369.4	39763.6	40384.9	40424.9	40107.0	41534.5	41368.7	40772.0	40633.6
8°	34070.1	33319.4	32806.5	33269.3	33571.8	33072.6	33743.9	34184.8	33718.4	33760.3
9°	27479.2	27347.1	26633.9	27238.7	27567.6	27032.9	27776.2	27935.6	27499.3	27711.5
10°	22562.8	22408.8	21839.5	22084.5	22629.3	21991.6	22704.9	22756.8	22408.8	22508.1
12.5°	13943.2	13881.3	13865.8	13901.3	13894.0	14007.0	14189.2	13981.5	13954.1	13610.7
15°	9012.2	9104.2	9009.4	9191.6	9218.0	9324.6	9213.5	9045.9	8726.1	8567.6
17.5°	5624.3	5741.8	5904.0	6170.9	6437.8	6468.8	6321.2	6124.4	5969.5	5800.1
20°	3235.7	3293.1	3268.5	3588.3	4278.8	4466.5	4276.1	4069.3	3882.5	3711.3
22.5°	2010.5	1989.5	2027.8	2135.3	2360.3	2940.6	2784.8	2578.0	2442.3	2301.1
25°	1232.5	1255.3	1240.7	1299.9	1401.1	1647.0	1682.6	1593.3	1524.0	1451.2
27.5°	793.4	793.4	799.8	832.6	901.9	893.7	1083.1	1013.9	976.6	941.0
30°	551.1	553.0	553.0	572.1	587.6	560.2	609.4	698.7	681.4	654.1
32.5°	409.0	414.5	419.0	429.1	416.3	387.2	399.0	502.9	492.8	482.8
35°	311.5	316.1	327.0	332.5	314.3	296.1	285.1	369.9	374.4	371.7
37.5°	226.8	229.6	249.6	270.6	249.6	233.2	226.8	284.2	306.1	303.4
40°	174.0	174.9	178.5	202.2	202.2	189.5	191.3	212.3	250.5	250.5
42.5°	149.4	149.4	153.0	149.4	150.3	164.0	168.5	171.3	212.3	212.3
45°	129.4	129.4	131.2	122.1	113.0	141.2	144.8	145.8	178.5	183.1
47.5°	108.4	108.4	112.0	100.2	95.7	112.0	122.1	124.8	154.0	157.6
50°	80.2	81.1	92.0	82.0	84.7	86.5	105.7	107.5	130.3	138.5
52.5°	53.7	53.7	55.6	63.8	73.8	71.1	85.6	92.0	103.8	114.8
55°	43.7	43.7	42.8	41.0	54.7	59.2	62.9	76.5	84.7	98.4
57.5°	30.1	31.9	29.2	33.7	35.5	44.6	47.4	60.1	64.7	82.9
60°	3.6	4.6	6.4	24.6	23.7	30.1	35.5	47.4	52.8	63.8
62.5°	0.9	0.9	1.8	4.6	16.4	20.0	28.2	32.8	38.3	49.2
65°	0.0	0.0	0.9	1.8	3.6	10.9	14.6	19.1	27.3	34.6
67.5°	0.0	0.0	0.9	1.8	1.8	4.6	7.3	11.8	14.6	25.5
70°	0.0	0.0	0.9	1.8	1.8	3.6	4.6	5.5	10.0	13.7
72.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.6	4.6	4.6	9.1
75°	0.0	0.0	0.9	1.8	2.7	3.6	4.6	4.6	3.6	3.6
77.5°	0.0	0.0	0.9	1.8	3.6	4.6	5.5	4.6	2.7	2.7
80°	0.0	0.0	0.9	2.7	4.6	6.4	7.3	5.5	2.7	1.8
82.5°	0.0	0.0	1.8	3.6	5.5	7.3	10.0	8.2	3.6	1.8
85°	0.0	0.0	0.9	2.7	5.5	7.3	14.6	10.0	4.6	0.9
87.5°	0.0	0.0	0.0	0.9	0.9	1.8	5.5	3.6	1.8	0.9
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°
83080.8	0°	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8	83080.8
81749.0	1°	82320.2	82377.6	82189.9	82480.5	82378.5	81780.9	81583.2	81349.1	81012.0
78508.7	2°	78268.2	78560.6	78575.2	78897.7	78893.1	78196.2	77980.3	78378.4	77601.4
72815.2	3°	72594.7	72935.4	72628.4	73201.4	73029.3	72183.9	71964.3	72416.2	71851.4
65613.1	4°	65417.2	65352.6	65246.9	64920.8	65322.5	64745.9	64311.3	64924.4	63716.5
57262.3	5°	57147.5	57003.6	56797.7	56701.1	56999.9	56631.0	55737.3	56632.8	54478.4
49049.0	6°	49109.2	48489.7	48459.6	48405.9	48436.0	47402.9	47464.9	48131.7	46338.9
40157.1	7°	40581.6	40695.5	40463.2	40835.8	40551.6	39851.9	39582.3	40284.7	39017.5
33944.3	8°	33707.5	33563.6	33385.9	33942.5	33449.7	32990.6	32676.3	33231.1	32290.0
27746.1	9°	27694.2	27445.5	27265.2	27236.9	27313.4	26451.7	26626.6	27046.5	26479.9
22562.8	10°	22571.0	22162.8	22262.1	22288.6	22204.7	21640.0	21645.4	21790.3	21108.9
13838.5	12.5°	13789.3	13588.9	13639.0	13666.3	13836.6	13638.0	13357.5	13155.2	13053.2
8725.2	15°	8666.9	8523.0	8817.2	9014.9	8974.8	8798.1	8666.0	8482.9	8335.3
5800.1	17.5°	5746.4	5934.9	5935.8	6116.2	6134.4	5957.7	5855.7	5690.8	5698.1
3772.3	20°	3758.6	3837.0	4000.0	4127.6	4201.4	4066.5	3944.5	3831.5	3784.1
2352.1	22.5°	2352.1	2488.8	2590.8	2756.6	2824.0	2725.6	2639.1	2547.1	2490.6
1468.5	25°	1443.9	1541.4	1626.1	1770.0	1862.0	1814.6	1735.4	1670.7	1640.6
948.3	27.5°	962.9	1003.9	1045.8	1145.1	1240.7	1214.3	1182.4	1143.3	1129.6
668.6	30°	678.7	682.3	726.9	782.5	846.3	862.7	848.1	828.1	812.6
491.0	32.5°	500.1	514.7	535.6	570.3	613.1	652.3	645.0	635.9	628.6
375.3	35°	386.2	408.1	425.4	451.8	474.6	512.0	518.3	515.6	510.1
308.8	37.5°	315.2	334.3	351.6	367.1	386.2	411.8	431.8	432.7	427.2
255.1	40°	261.4	278.8	301.5	313.4	327.0	346.2	370.8	372.6	370.8
215.9	42.5°	220.5	236.9	259.6	274.2	284.2	302.4	327.0	330.7	327.0
184.9	45°	189.5	199.5	223.2	240.5	250.5	262.4	288.8	292.4	291.5
159.4	47.5°	164.9	174.9	189.5	214.1	223.2	234.1	255.1	261.4	261.4
141.2	50°	144.8	154.9	167.6	189.5	203.1	212.3	229.6	238.7	238.7
123.0	52.5°	128.4	138.5	152.1	169.4	184.9	193.1	209.5	221.4	221.4
100.2	55°	107.5	124.8	134.8	150.3	171.3	178.5	191.3	206.8	206.8
87.5	57.5°	93.8	108.4	123.0	135.7	156.7	165.8	178.5	193.1	194.9
69.2	60°	79.3	92.9	110.2	121.2	141.2	153.0	166.7	180.4	184.0
52.8	62.5°	62.9	81.1	92.9	108.4	127.5	143.0	154.0	167.6	173.1
41.0	65°	46.5	66.5	80.2	96.6	114.8	131.2	140.3	154.9	158.5
29.2	67.5°	33.7	51.9	68.3	83.8	101.1	117.5	126.6	139.4	142.1
18.2	70°	26.4	38.3	56.5	70.1	88.4	102.0	112.0	120.2	123.0
11.8	72.5°	15.5	29.2	45.5	61.0	77.4	86.5	93.8	101.1	102.9
5.5	75°	10.0	22.8	37.3	51.0	62.9	71.1	77.4	83.8	84.7
2.7	77.5°	6.4	16.4	30.1	42.8	48.3	58.3	63.8	67.4	65.6
1.8	80°	3.6	12.8	26.4	34.6	39.2	45.5	51.0	55.6	51.0
1.8	82.5°	2.7	10.9	21.9	29.2	29.2	36.4	39.2	39.2	37.3
0.9	85°	1.8	9.1	17.3	27.3	21.9	27.3	25.5	25.5	25.5
0.9	87.5°	1.8	6.4	8.2	11.8	10.0	11.8	11.8	13.7	13.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
83080.8
80421.7
76692.2
70409.3
62705.3
54273.4
46198.6
38374.4
31646.9
25734.7
20804.6
13032.3
8389.1
5649.8
3792.3
2497.9
1633.4
1120.5
814.4
628.6
506.5
426.3
369.9
327.9
291.5
262.4
239.6
221.4
207.7
194.0
184.0
174.0
157.6
140.3
123.0
102.9
83.8
65.6
50.1
36.4
24.6
13.7
0.0

(END OF REPORT)