

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: P637363

Luminaire Tested: **IFLD-M-SA4C-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637363
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27046.2 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

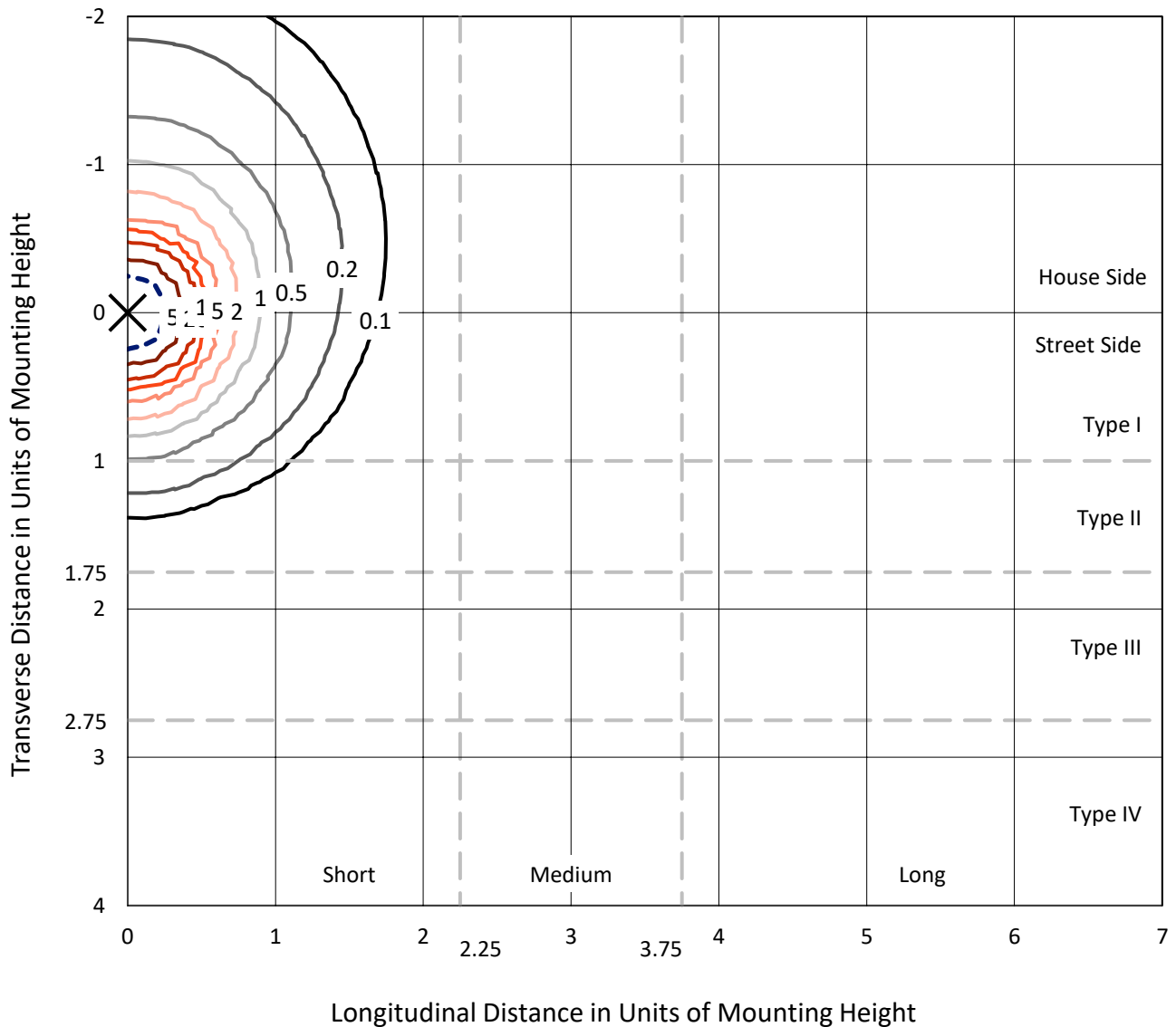
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637363
 CATALOG NUMBER: IFLD-M-SA4C-735-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

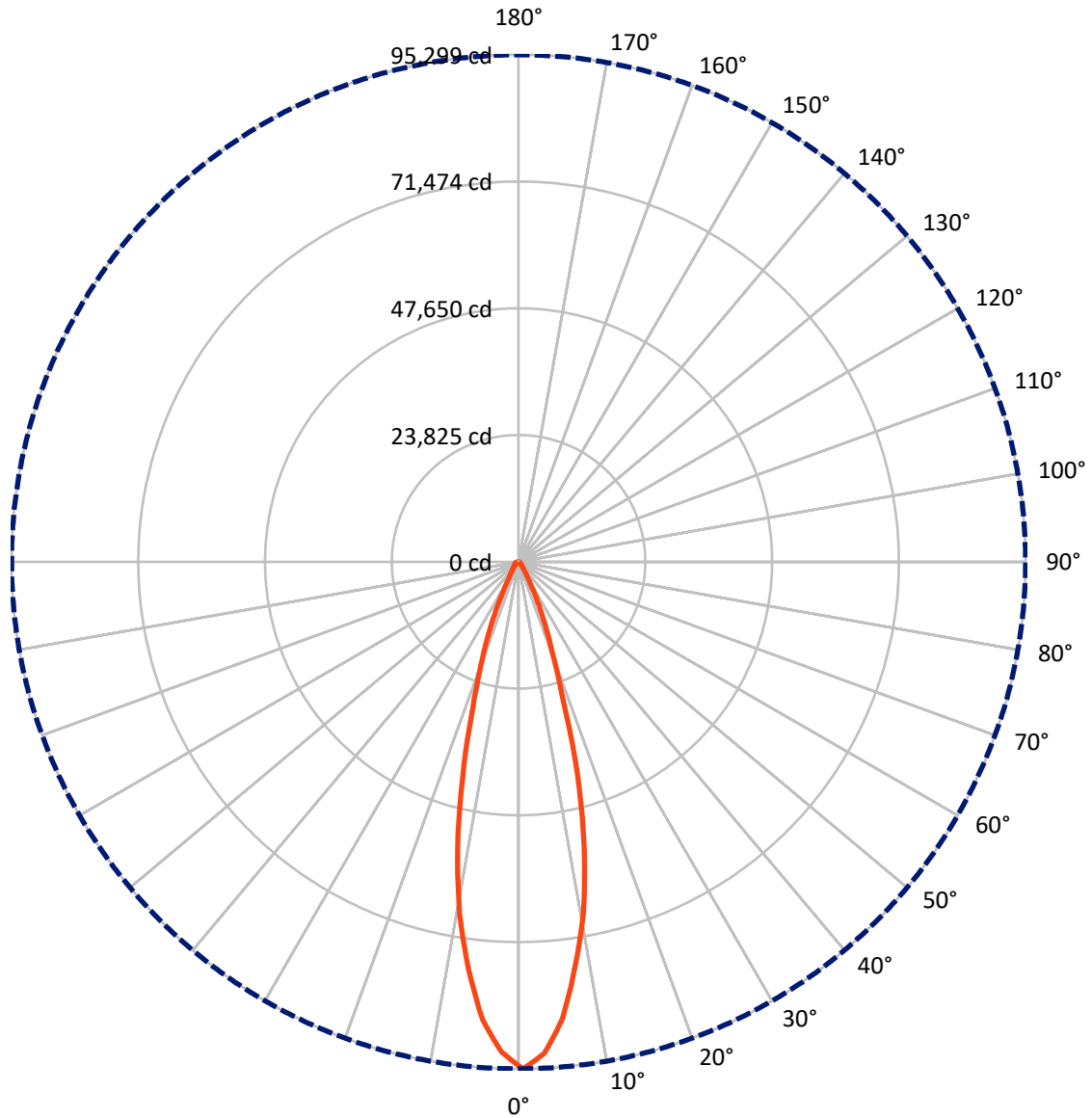
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 238.2 fc
 Type V - Short - N/A

REPORT NUMBER: P637363
CATALOG NUMBER: IFLD-M-SA4C-735-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637363
 CATALOG NUMBER: IFLD-M-SA4C-735-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14260.6	0.0	14260.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12785.6	0.0	12785.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	27046.2	0.0	27046.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7691.5	28.4
10°-20°	11648.7	43.1
20°-30°	4915.8	18.2
30°-40°	1282.1	4.7
40°-50°	648.5	2.4
50°-60°	423.9	1.6
60°-70°	253.9	0.9
70°-80°	133.6	0.5
80°-90°	48.3	0.2
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°	27046.2	100.0
0°-180°	27046.2	100.0

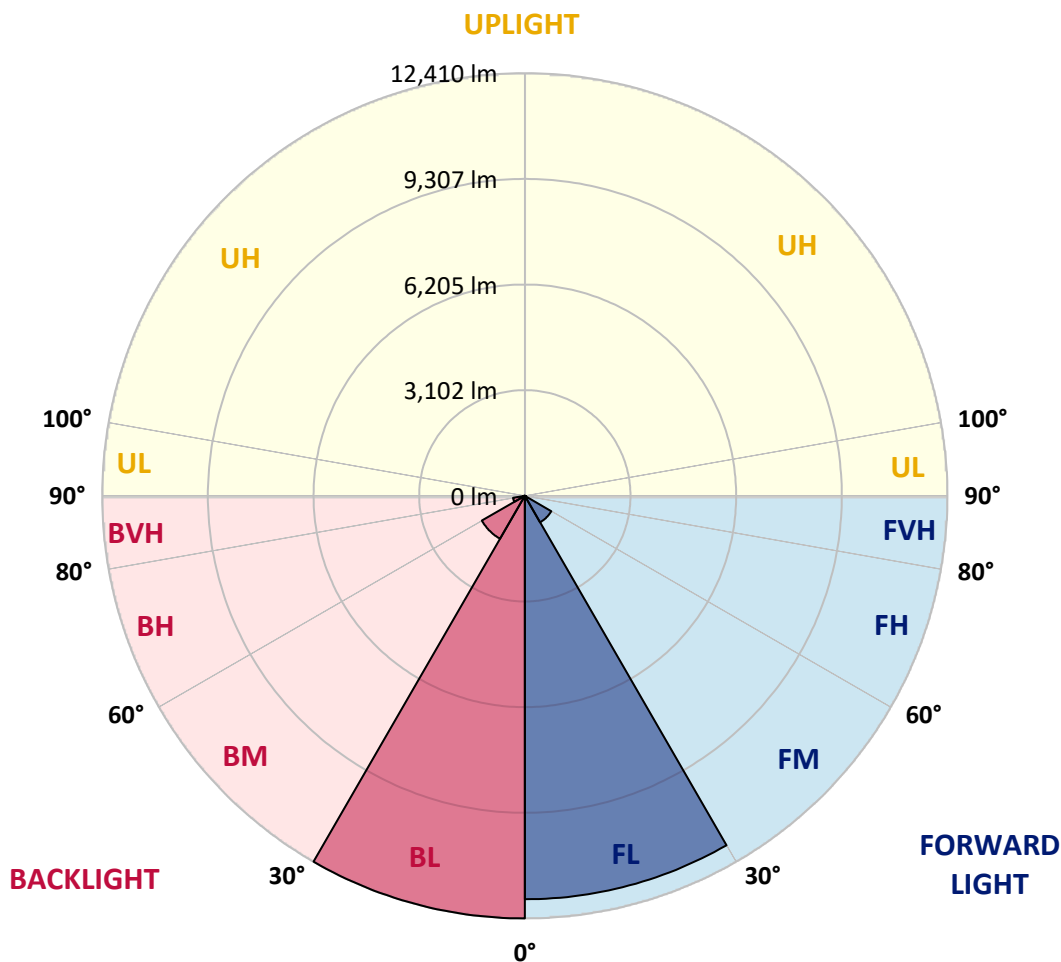


REPORT NUMBER: P637363
 CATALOG NUMBER: IFLD-M-SA4C-735-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11846.1	43.8			
FM (30°-60°)	897.1	3.3			
FH (60°-80°)	36.6	0.1			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	12409.9	45.9	B5		
BM (30°-60°)	1457.3	5.4	B2/2500		
BH (60°-80°)	351.0	1.3	B1/500		G0/660
BVH (80°-90°)	42.4	0.2			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





REPORT NUMBER: P637363
 CATALOG NUMBER: IFLD-M-SA4C-735-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1
2.5°	92523.0	92574.6	92383.3	92796.3	92474.4	93337.0	92908.7	93576.9	93352.2	93725.8
5°	86205.3	86120.3	86065.6	86706.5	86521.2	87447.6	86855.3	86660.9	87262.3	87153.0
7.5°	76665.1	76889.9	76762.3	76929.4	77023.5	78080.5	78414.6	78153.4	78162.5	78314.4
10°	66884.9	66553.9	66083.1	66395.9	67058.0	67519.7	67334.4	67717.1	67632.1	67993.5
12.5°	54851.0	55112.3	54848.0	54568.6	55725.8	55598.2	55920.2	56129.8	55604.3	56773.7
15°	41316.7	41453.4	41775.4	41754.1	42644.0	42823.2	42780.7	43002.4	42592.4	42786.8
17.5°	26543.2	27004.9	27870.5	29334.5	30980.7	31172.1	31123.5	30941.2	30743.8	30525.1
20°	17829.1	17780.5	18093.3	18521.6	21929.5	22831.6	22804.2	22233.2	21407.1	21249.1
22.5°	12489.5	12580.6	12538.1	12963.3	13668.0	16155.5	15848.8	15268.6	14998.3	14822.1
25°	8216.0	8182.6	8395.2	8522.7	9127.2	9430.9	10506.1	10290.5	9874.3	9919.9
27.5°	5008.5	5051.1	5130.0	5239.4	5667.6	5570.5	6184.0	6266.0	6132.4	5989.6
30°	3073.8	3104.1	3167.9	3246.9	3395.7	3289.4	3459.5	3754.1	3705.5	3605.3
32.5°	2086.6	2089.7	2135.2	2165.6	2147.4	2047.2	2101.8	2381.3	2387.3	2378.2
35°	1500.4	1500.4	1543.0	1567.3	1515.6	1433.6	1442.7	1615.9	1691.8	1707.0
37.5°	1035.7	1038.8	1111.7	1184.6	1126.8	1105.6	1069.1	1184.6	1306.0	1324.3
40°	786.7	783.6	820.1	874.7	880.8	841.3	853.5	926.4	1050.9	1066.1
42.5°	637.8	640.9	659.1	653.0	656.1	707.7	725.9	759.3	874.7	902.1
45°	537.6	540.6	549.8	519.4	507.2	586.2	610.5	628.7	725.9	759.3
47.5°	443.4	449.5	458.6	425.2	419.2	470.8	513.3	531.5	616.6	653.0
50°	318.9	325.0	358.4	340.2	358.4	370.6	428.3	455.6	513.3	561.9
52.5°	230.8	236.9	246.0	249.1	294.6	300.7	343.2	385.7	413.1	467.7
55°	182.2	188.3	182.2	176.2	215.7	249.1	264.2	309.8	331.1	394.9
57.5°	103.3	109.3	118.5	136.7	142.8	191.4	206.5	246.0	264.2	325.0
60°	18.2	21.3	33.4	82.0	100.2	121.5	154.9	188.3	212.6	255.1
62.5°	3.0	3.0	6.1	18.2	57.7	85.0	112.4	133.6	154.9	194.4
65°	0.0	0.0	3.0	6.1	15.2	48.6	60.7	79.0	106.3	139.7
67.5°	0.0	0.0	3.0	6.1	9.1	18.2	27.3	48.6	60.7	94.2
70°	0.0	0.0	3.0	6.1	9.1	12.1	15.2	21.3	36.4	57.7
72.5°	0.0	0.0	3.0	6.1	9.1	12.1	15.2	18.2	18.2	36.4
75°	0.0	0.0	3.0	6.1	9.1	15.2	18.2	18.2	15.2	15.2
77.5°	0.0	0.0	3.0	6.1	12.1	18.2	21.3	18.2	12.1	12.1
80°	0.0	0.0	6.1	9.1	15.2	21.3	27.3	21.3	12.1	6.1
82.5°	0.0	0.0	6.1	12.1	15.2	24.3	33.4	27.3	12.1	6.1
85°	0.0	0.0	3.0	9.1	18.2	24.3	33.4	24.3	12.1	3.0
87.5°	0.0	0.0	3.0	3.0	6.1	9.1	18.2	15.2	6.1	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637363
 CATALOG NUMBER: IFLD-M-SA4C-735-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
95299.1	0°	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1	95299.1
93018.1	2.5°	93552.6	94038.6	94138.8	94005.2	94199.6	93850.3	93583.0	92890.5	92474.4
87119.6	5°	87681.5	87608.6	88115.8	88282.9	88261.6	87994.3	87620.7	87201.6	86794.6
78019.8	7.5°	78505.7	78599.9	79061.6	79356.2	79207.3	78873.2	78615.1	78299.2	78025.8
68124.2	10°	68746.8	68099.9	68673.9	68673.9	69071.8	68127.2	68215.3	67419.5	67455.9
56752.4	12.5°	56946.8	57180.7	57274.8	57545.1	57080.4	56579.3	55965.7	55844.2	55464.6
42416.2	15°	43026.7	43694.9	43120.9	44102.0	43628.1	43105.7	43011.6	42070.0	42367.6
30765.1	17.5°	30613.2	31351.3	31582.1	32144.0	31712.7	31402.9	31011.1	30725.6	30704.3
21537.7	20°	21707.8	22448.9	22619.0	23293.2	23244.6	23147.4	22816.4	22454.9	22063.1
14661.2	22.5°	14882.9	15487.3	16052.3	16960.4	16945.2	16659.7	16626.3	16116.0	16125.2
9904.7	25°	10008.0	10448.4	10582.0	11511.5	11614.7	11584.4	11411.2	10937.4	11116.6
6050.4	27.5°	6056.4	6442.2	6894.7	7222.8	7532.6	7484.0	7310.8	7046.6	6931.2
3635.7	30°	3732.9	3906.0	4073.1	4467.9	4653.2	4750.4	4668.4	4422.3	4440.6
2393.4	32.5°	2445.0	2590.8	2712.3	2961.4	3058.6	3237.8	3204.4	3152.7	3092.0
1722.2	35°	1782.9	1889.2	1971.2	2086.6	2211.2	2363.0	2387.3	2366.1	2341.8
1330.3	37.5°	1360.7	1470.1	1564.2	1612.8	1710.0	1828.5	1895.3	1892.3	1874.0
1084.3	40°	1105.6	1187.6	1272.6	1336.4	1403.2	1491.3	1573.3	1582.4	1582.4
911.2	42.5°	923.3	993.2	1078.3	1145.1	1193.7	1275.7	1360.7	1366.8	1360.7
771.5	45°	789.7	850.5	932.5	1011.4	1050.9	1111.7	1193.7	1211.9	1199.7
662.1	47.5°	686.4	741.1	811.0	896.0	938.5	993.2	1069.1	1090.4	1087.4
571.0	50°	589.2	653.0	722.9	792.7	847.4	899.0	971.9	996.2	987.1
486.0	52.5°	519.4	577.1	637.8	713.8	777.6	823.1	880.8	923.3	911.2
410.0	55°	434.3	504.2	568.0	631.8	710.7	759.3	814.0	865.6	853.5
346.3	57.5°	376.6	434.3	507.2	564.9	643.9	701.6	756.3	811.0	807.9
282.5	60°	315.9	376.6	446.5	507.2	580.1	643.9	698.6	759.3	765.4
212.6	62.5°	249.1	322.0	382.7	452.6	525.5	595.3	643.9	704.7	713.8
161.0	65°	188.3	264.2	331.1	397.9	470.8	546.7	589.2	640.9	650.0
118.5	67.5°	139.7	203.5	282.5	343.2	419.2	492.0	531.5	574.1	589.2
72.9	70°	106.3	154.9	236.9	294.6	373.6	431.3	473.8	510.3	522.4
48.6	72.5°	66.8	121.5	191.4	252.1	322.0	373.6	404.0	425.2	443.4
27.3	75°	45.6	94.2	154.9	215.7	267.3	306.8	334.1	352.3	367.5
12.1	77.5°	27.3	72.9	127.6	179.2	212.6	243.0	270.3	282.5	291.6
9.1	80°	15.2	54.7	106.3	145.8	167.1	188.3	209.6	224.8	230.8
6.1	82.5°	9.1	42.5	85.0	112.4	121.5	142.8	164.0	173.1	173.1
3.0	85°	6.1	30.4	57.7	82.0	88.1	103.3	109.3	115.4	121.5
3.0	87.5°	6.1	18.2	36.4	45.6	48.6	54.7	57.7	63.8	69.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>95299.1</u>
92167.6
86339.0
77099.4
67100.6
55118.3
42070.0
30139.4
21893.0
15949.0
10834.1
6830.9
4361.6
3070.7
2332.7
1864.9
1564.2
1354.6
1199.7
1081.3
981.1
908.2
859.6
811.0
768.4
719.8
659.1
595.3
528.5
440.4
364.5
288.5
224.8
170.1
118.5
66.8
0.0

(END OF REPORT)