

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: P637420

Luminaire Tested: **IFLD-M-SA4B-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637420
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22532.7 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

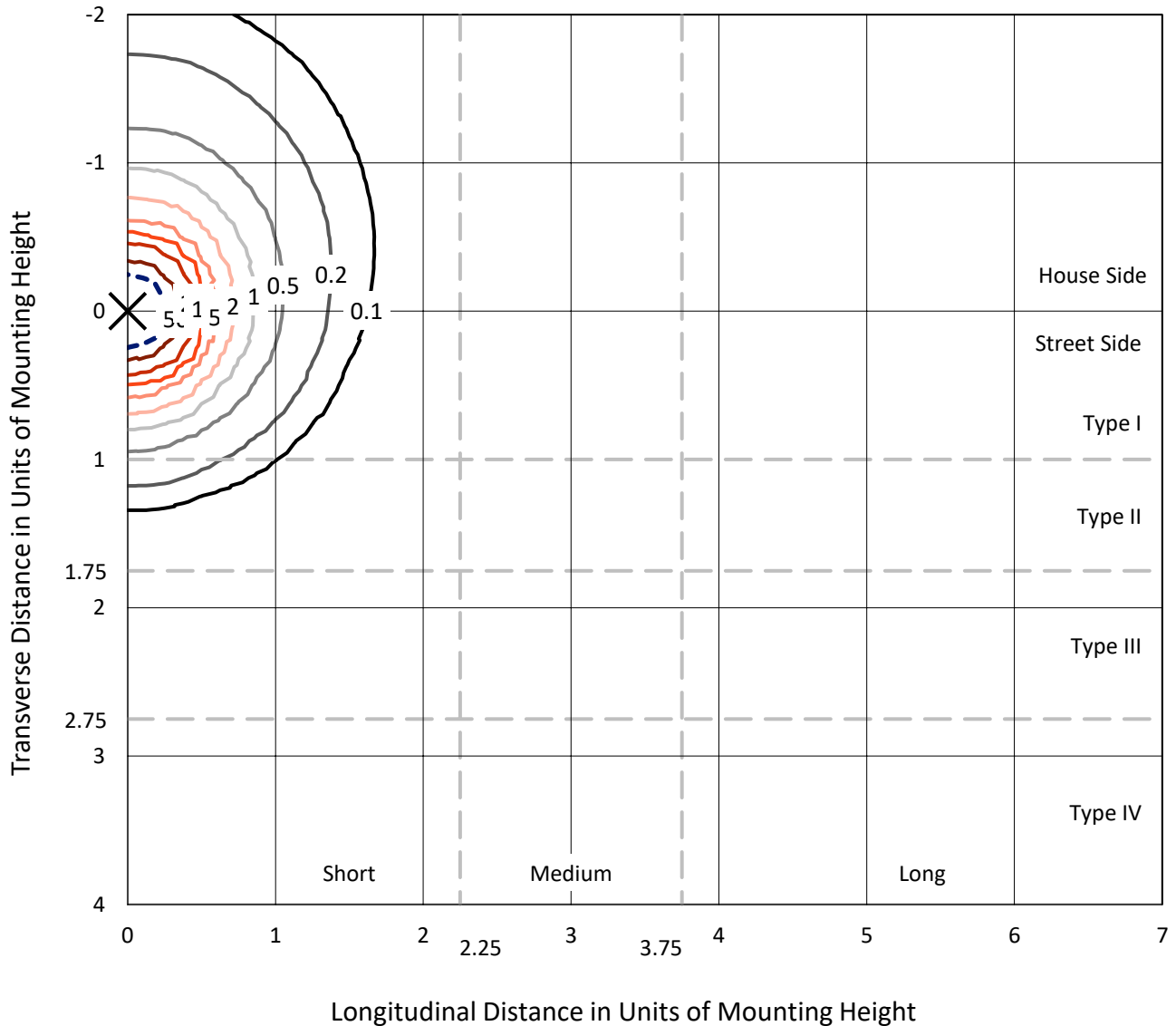
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637420
 CATALOG NUMBER: IFLD-M-SA4B-750-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

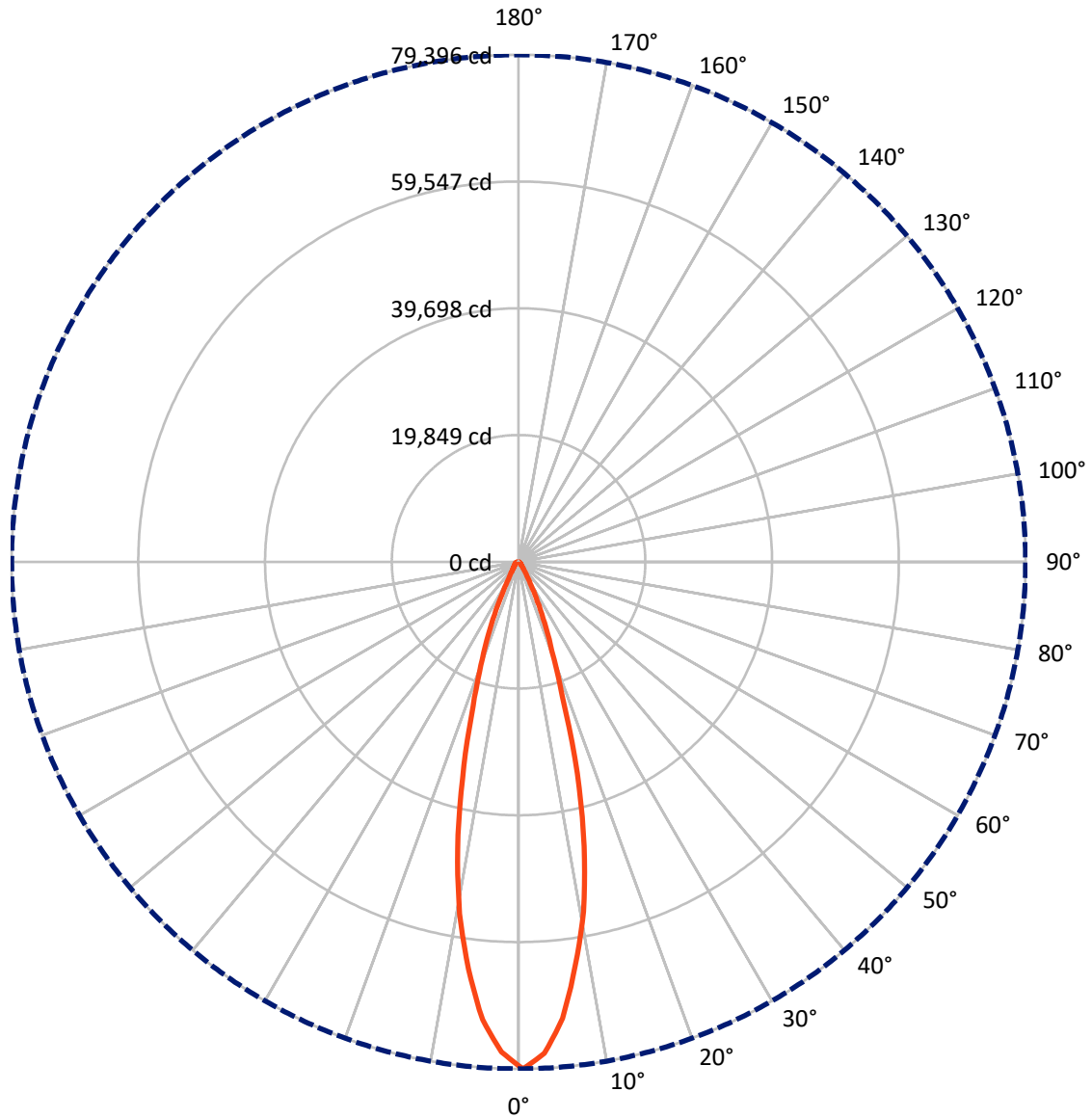
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 198.5 fc
 Type V - Short - N/A

REPORT NUMBER: P637420
CATALOG NUMBER: IFLD-M-SA4B-750-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637420
 CATALOG NUMBER: IFLD-M-SA4B-750-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11880.8	0.0	11880.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10651.9	0.0	10651.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	22532.7	0.0	22532.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6407.9	28.4
10°-20°	9704.7	43.1
20°-30°	4095.5	18.2
30°-40°	1068.1	4.7
40°-50°	540.2	2.4
50°-60°	353.1	1.6
60°-70°	211.6	0.9
70°-80°	111.3	0.5
80°-90°	40.2	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°	22532.7	100.0
0°-180°	22532.7	100.0

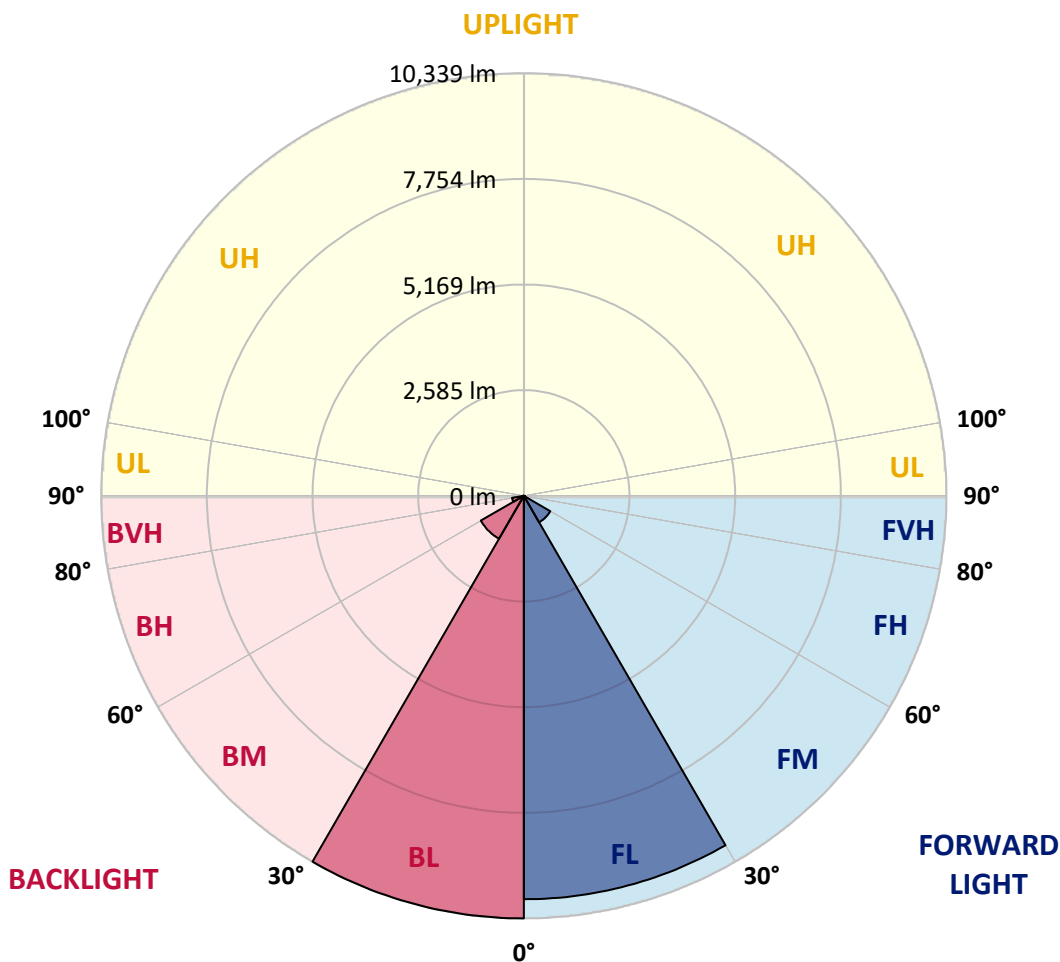


REPORT NUMBER: P637420
 CATALOG NUMBER: IFLD-M-SA4B-750-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9869.2	43.8			
FM (30°-60°)	747.4	3.3			
FH (60°-80°)	30.5	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10339.0	45.9	B5		
BM (30°-60°)	1214.1	5.4	B2/2500		
BH (60°-80°)	292.4	1.3	B1/500		G0/660
BVH (80°-90°)	35.3	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: P637420
 CATALOG NUMBER: IFLD-M-SA4B-750-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5
2.5°	77082.7	77125.7	76966.3	77310.4	77042.2	77760.8	77404.0	77960.7	77773.5	78084.7
5°	71819.3	71748.5	71702.9	72236.8	72082.5	72854.3	72360.8	72198.9	72699.9	72608.8
7.5°	63871.2	64058.4	63952.1	64091.3	64169.8	65050.4	65328.7	65111.1	65118.7	65245.2
10°	55723.1	55447.3	55055.1	55315.7	55867.3	56252.0	56097.6	56416.5	56345.6	56646.7
12.5°	45697.5	45915.1	45694.9	45462.1	46426.2	46319.9	46588.2	46762.8	46325.0	47299.2
15°	34421.8	34535.6	34803.9	34786.1	35527.6	35676.9	35641.4	35826.2	35484.5	35646.5
17.5°	22113.6	22498.3	23219.4	24439.1	25810.6	25970.0	25929.6	25777.7	25613.2	25431.1
20°	14853.8	14813.3	15073.9	15430.7	18269.9	19021.4	18998.6	18522.9	17834.6	17703.1
22.5°	10405.2	10481.1	10445.7	10800.0	11387.0	13459.5	13203.9	12720.6	12495.4	12348.6
25°	6844.9	6817.0	6994.2	7100.5	7604.0	7857.1	8752.8	8573.2	8226.5	8264.5
27.5°	4172.7	4208.1	4273.9	4365.0	4721.8	4640.9	5152.0	5220.3	5109.0	4990.1
30°	2560.8	2586.1	2639.3	2705.1	2829.0	2740.5	2882.2	3127.6	3087.2	3003.6
32.5°	1738.4	1741.0	1778.9	1804.2	1789.0	1705.5	1751.1	1983.9	1988.9	1981.3
35°	1250.0	1250.0	1285.5	1305.7	1262.7	1194.4	1202.0	1346.2	1409.5	1422.1
37.5°	862.9	865.4	926.1	986.9	938.8	921.1	890.7	986.9	1088.1	1103.3
40°	655.4	652.9	683.2	728.8	733.8	700.9	711.1	771.8	875.5	888.2
42.5°	531.4	533.9	549.1	544.0	546.6	589.6	604.8	632.6	728.8	751.5
45°	447.9	450.4	458.0	432.7	422.6	488.4	508.6	523.8	604.8	632.6
47.5°	369.4	374.5	382.1	354.3	349.2	392.2	427.6	442.8	513.7	544.0
50°	265.7	270.8	298.6	283.4	298.6	308.7	356.8	379.6	427.6	468.1
52.5°	192.3	197.4	205.0	207.5	245.5	250.5	285.9	321.4	344.1	389.7
55°	151.8	156.9	151.8	146.8	179.7	207.5	220.1	258.1	275.8	329.0
57.5°	86.0	91.1	98.7	113.9	118.9	159.4	172.1	205.0	220.1	270.8
60°	15.2	17.7	27.8	68.3	83.5	101.2	129.1	156.9	177.1	212.6
62.5°	2.5	2.5	5.1	15.2	48.1	70.9	93.6	111.3	129.1	161.9
65°	0.0	0.0	2.5	5.1	12.7	40.5	50.6	65.8	88.6	116.4
67.5°	0.0	0.0	2.5	5.1	7.6	15.2	22.8	40.5	50.6	78.4
70°	0.0	0.0	2.5	5.1	7.6	10.1	12.7	17.7	30.4	48.1
72.5°	0.0	0.0	2.5	5.1	7.6	10.1	12.7	15.2	15.2	30.4
75°	0.0	0.0	2.5	5.1	7.6	12.7	15.2	15.2	12.7	12.7
77.5°	0.0	0.0	2.5	5.1	10.1	15.2	17.7	15.2	10.1	10.1
80°	0.0	0.0	5.1	7.6	12.7	17.7	22.8	17.7	10.1	5.1
82.5°	0.0	0.0	5.1	10.1	12.7	20.2	27.8	22.8	10.1	5.1
85°	0.0	0.0	2.5	7.6	15.2	20.2	27.8	20.2	10.1	2.5
87.5°	0.0	0.0	2.5	2.5	5.1	7.6	15.2	12.7	5.1	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637420
 CATALOG NUMBER: IFLD-M-SA4B-750-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
79395.5	0°	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5	79395.5
77495.1	2.5°	77940.5	78345.4	78428.9	78317.5	78479.5	78188.5	77965.8	77388.9	77042.2
72581.0	5°	73049.1	72988.4	73411.0	73550.2	73532.4	73309.8	72998.5	72649.3	72310.2
64999.8	7.5°	65404.6	65483.1	65867.7	66113.2	65989.2	65710.8	65495.7	65232.6	65004.8
56755.5	10°	57274.3	56735.3	57213.5	57213.5	57545.0	56758.1	56831.4	56168.5	56198.8
47281.5	12.5°	47443.5	47638.3	47716.8	47942.0	47554.8	47137.3	46626.1	46524.9	46208.6
35337.8	15°	35846.4	36403.1	35924.8	36742.2	36347.4	35912.2	35833.7	35049.3	35297.3
25631.0	17.5°	25504.4	26119.3	26311.7	26779.8	26420.5	26162.4	25835.9	25598.1	25580.4
17943.4	20°	18085.1	18702.6	18844.3	19406.0	19365.6	19284.6	19008.8	18707.6	18381.2
12214.5	22.5°	12399.2	12902.8	13373.4	14130.1	14117.4	13879.5	13851.7	13426.6	13434.2
8251.8	25°	8337.8	8704.8	8816.1	9590.4	9676.5	9651.1	9506.9	9112.2	9261.5
5040.7	27.5°	5045.7	5367.1	5744.1	6017.4	6275.5	6235.0	6090.8	5870.7	5774.5
3029.0	30°	3109.9	3254.2	3393.3	3722.3	3876.7	3957.6	3889.3	3684.3	3699.5
1994.0	32.5°	2037.0	2158.5	2259.7	2467.2	2548.2	2697.5	2669.6	2626.6	2576.0
1434.8	35°	1485.4	1573.9	1642.3	1738.4	1842.2	1968.7	1988.9	1971.2	1951.0
1108.3	37.5°	1133.6	1224.7	1303.2	1343.7	1424.6	1523.3	1579.0	1576.5	1561.3
903.4	40°	921.1	989.4	1060.3	1113.4	1169.1	1242.5	1310.8	1318.4	1318.4
759.1	42.5°	769.3	827.5	898.3	954.0	994.5	1062.8	1133.6	1138.7	1133.6
642.7	45°	657.9	708.5	776.8	842.6	875.5	926.1	994.5	1009.7	999.5
551.6	47.5°	571.9	617.4	675.6	746.5	781.9	827.5	890.7	908.4	905.9
475.7	50°	490.9	544.0	602.2	660.4	706.0	749.0	809.7	830.0	822.4
404.9	52.5°	432.7	480.8	531.4	594.7	647.8	685.8	733.8	769.3	759.1
341.6	55°	361.9	420.1	473.2	526.3	592.1	632.6	678.2	721.2	711.1
288.5	57.5°	313.8	361.9	422.6	470.7	536.5	584.5	630.1	675.6	673.1
235.3	60°	263.2	313.8	372.0	422.6	483.3	536.5	582.0	632.6	637.7
177.1	62.5°	207.5	268.2	318.8	377.0	437.8	496.0	536.5	587.1	594.7
134.1	65°	156.9	220.1	275.8	331.5	392.2	455.5	490.9	533.9	541.5
98.7	67.5°	116.4	169.5	235.3	285.9	349.2	409.9	442.8	478.3	490.9
60.7	70°	88.6	129.1	197.4	245.5	311.2	359.3	394.8	425.1	435.2
40.5	72.5°	55.7	101.2	159.4	210.0	268.2	311.2	336.6	354.3	369.4
22.8	75°	38.0	78.4	129.1	179.7	222.7	255.6	278.3	293.5	306.2
10.1	77.5°	22.8	60.7	106.3	149.3	177.1	202.4	225.2	235.3	242.9
7.6	80°	12.7	45.5	88.6	121.5	139.2	156.9	174.6	187.3	192.3
5.1	82.5°	7.6	35.4	70.9	93.6	101.2	118.9	136.6	144.2	144.2
2.5	85°	5.1	25.3	48.1	68.3	73.4	86.0	91.1	96.2	101.2
2.5	87.5°	5.1	15.2	30.4	38.0	40.5	45.5	48.1	53.1	58.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>79395.5</u>
76786.6
71930.7
64233.0
55902.8
45920.1
35049.3
25109.7
18239.5
13287.4
9026.1
5691.0
3633.7
2558.3
1943.4
1553.7
1303.2
1128.6
999.5
900.8
817.3
756.6
716.1
675.6
640.2
599.7
549.1
496.0
440.3
366.9
303.7
240.4
187.3
141.7
98.7
55.7
0.0

(END OF REPORT)