

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: P637405

Luminaire Tested: **IFLD-S-SA2B-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637405
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11264.4 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

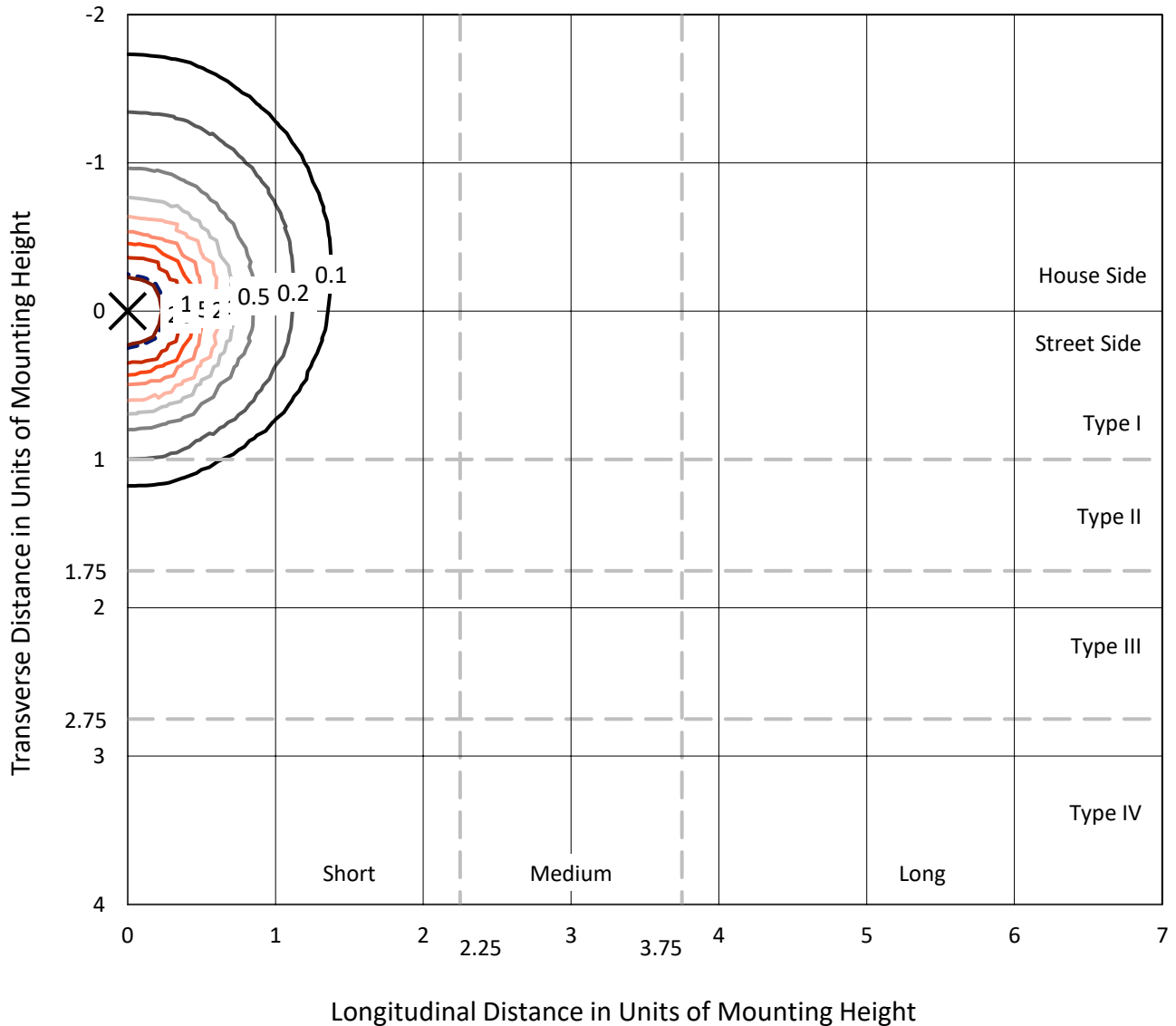
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637405
 CATALOG NUMBER: IFLD-S-SA2B-750-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

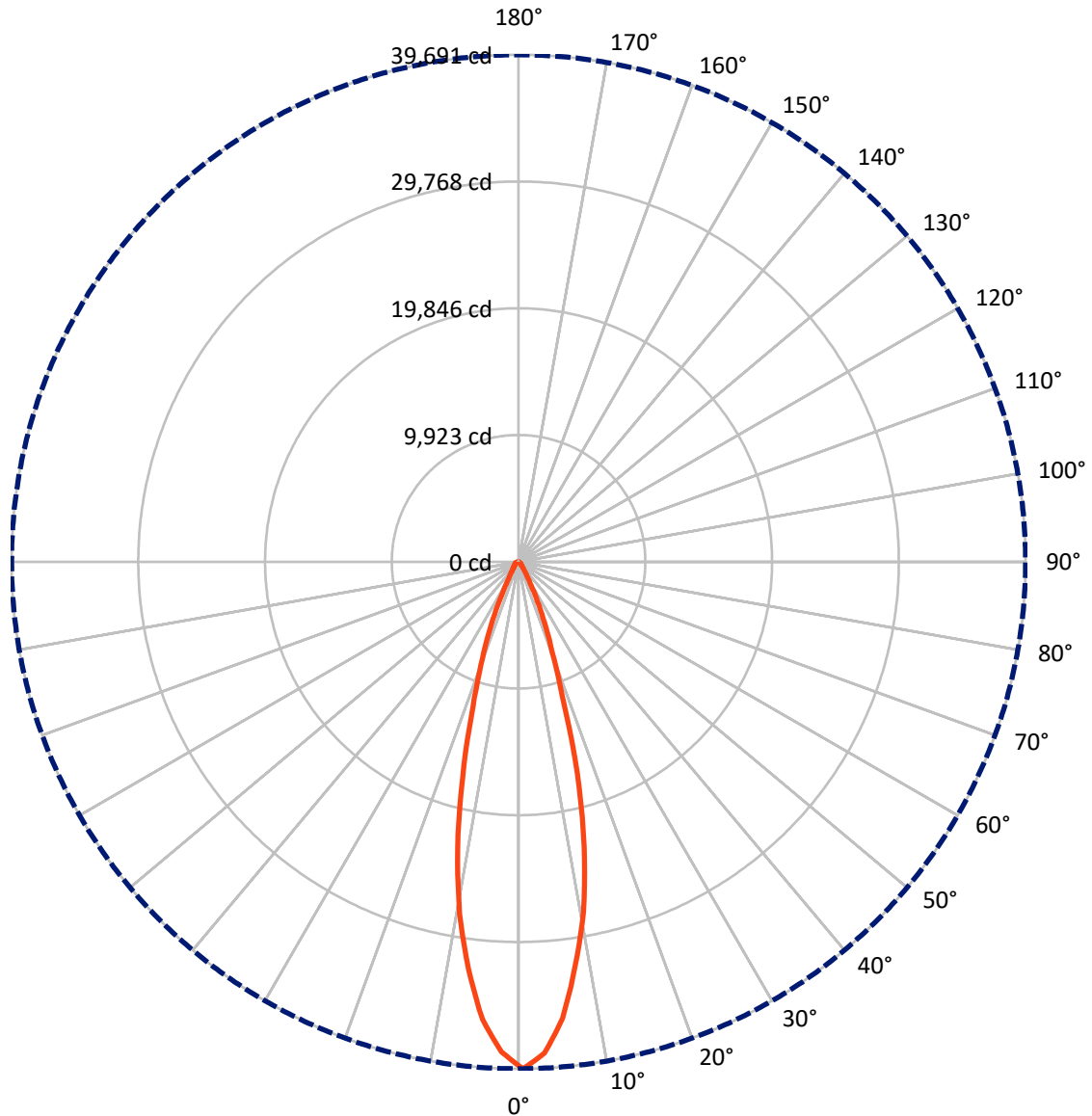
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 99.2 fc
 Type V - Short - N/A

REPORT NUMBER: P637405
CATALOG NUMBER: IFLD-S-SA2B-750-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637405
 CATALOG NUMBER: IFLD-S-SA2B-750-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5939.4	0.0	5939.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5325.1	0.0	5325.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	11264.4	0.0	11264.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3203.4	28.4
10°-20°	4851.5	43.1
20°-30°	2047.4	18.2
30°-40°	534.0	4.7
40°-50°	270.1	2.4
50°-60°	176.5	1.6
60°-70°	105.8	0.9
70°-80°	55.6	0.5
80°-90°	20.1	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°	11264.4	100.0
0°-180°	11264.4	100.0

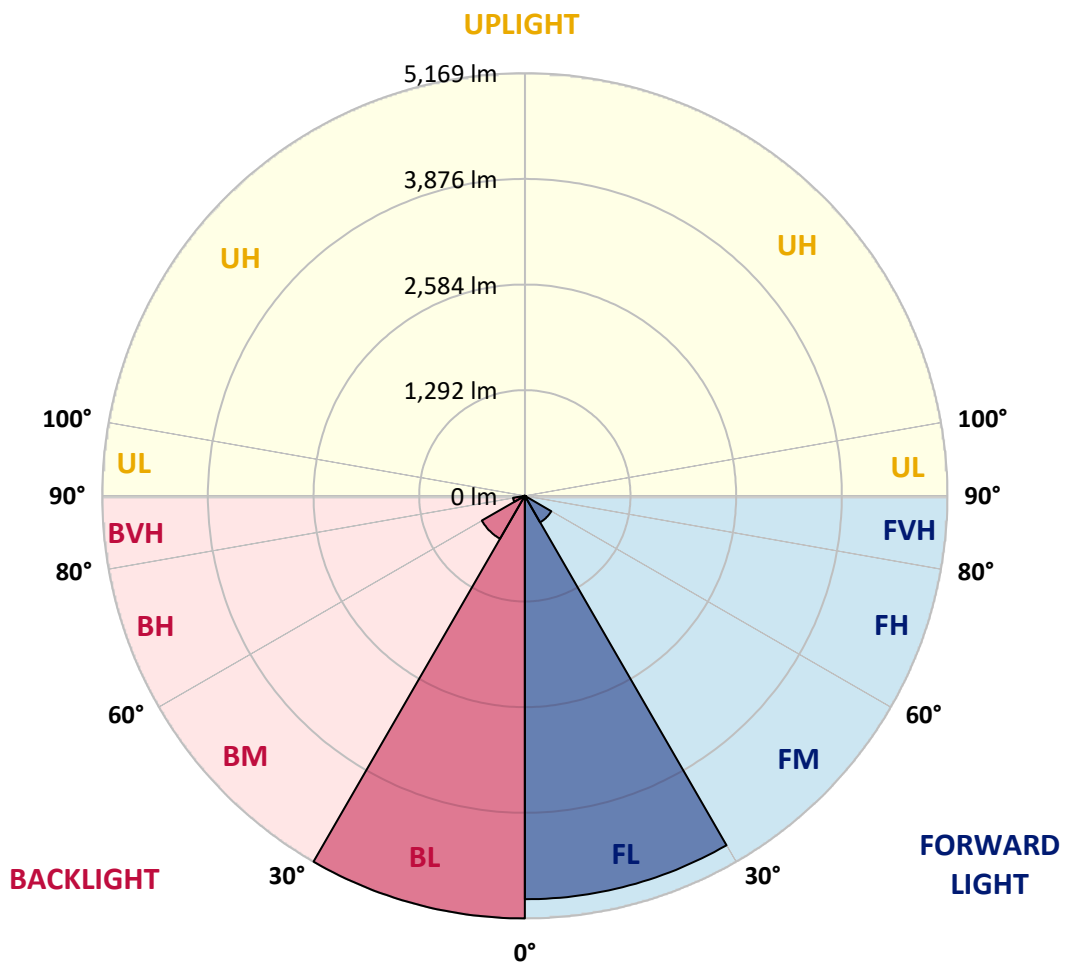


REPORT NUMBER: P637405
 CATALOG NUMBER: IFLD-S-SA2B-750-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4933.7	43.8			
FM (30°-60°)	373.6	3.3			
FH (60°-80°)	15.2	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	5168.6	45.9	B5		
BM (30°-60°)	606.9	5.4	B1/1000		
BH (60°-80°)	146.2	1.3	B1/500		G0/660
BVH (80°-90°)	17.7	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: P637405
 CATALOG NUMBER: IFLD-S-SA2B-750-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0
2.5°	38534.7	38556.2	38476.6	38648.6	38514.5	38873.8	38695.4	38973.7	38880.1	39035.7
5°	35903.5	35868.1	35845.3	36112.2	36035.1	36420.9	36174.2	36093.3	36343.7	36298.2
7.5°	31930.1	32023.7	31970.6	32040.2	32079.4	32519.6	32658.8	32550.0	32553.8	32617.0
10°	27856.8	27718.9	27522.8	27653.1	27928.9	28121.2	28044.0	28203.4	28168.0	28318.5
12.5°	22844.8	22953.6	22843.6	22727.2	23209.1	23156.0	23290.1	23377.4	23158.5	23645.6
15°	17207.9	17264.9	17399.0	17390.1	17760.7	17835.4	17817.7	17910.0	17739.2	17820.2
17.5°	11054.9	11247.2	11607.7	12217.5	12903.1	12982.8	12962.6	12886.7	12804.4	12713.4
20°	7425.6	7405.4	7535.7	7714.0	9133.4	9509.1	9497.7	9259.9	8915.8	8850.0
22.5°	5201.7	5239.7	5222.0	5399.1	5692.5	6728.6	6600.8	6359.2	6246.6	6173.3
25°	3421.9	3407.9	3496.5	3549.6	3801.4	3927.9	4375.7	4285.9	4112.5	4131.5
27.5°	2086.0	2103.7	2136.6	2182.1	2360.5	2320.0	2575.6	2609.7	2554.1	2494.6
30°	1280.2	1292.8	1319.4	1352.3	1414.3	1370.0	1440.8	1563.6	1543.3	1501.6
32.5°	869.1	870.3	889.3	902.0	894.4	852.6	875.4	991.8	994.3	990.5
35°	624.9	624.9	642.6	652.7	631.2	597.1	600.9	673.0	704.6	710.9
37.5°	431.4	432.6	463.0	493.4	469.3	460.5	445.3	493.4	544.0	551.5
40°	327.6	326.4	341.6	364.3	366.9	350.4	355.5	385.8	437.7	444.0
42.5°	265.7	266.9	274.5	272.0	273.2	294.7	302.3	316.3	364.3	375.7
45°	223.9	225.2	229.0	216.3	211.3	244.1	254.3	261.9	302.3	316.3
47.5°	184.7	187.2	191.0	177.1	174.6	196.1	213.8	221.4	256.8	272.0
50°	132.8	135.4	149.3	141.7	149.3	154.3	178.4	189.8	213.8	234.0
52.5°	96.1	98.7	102.5	103.7	122.7	125.2	142.9	160.7	172.0	194.8
55°	75.9	78.4	75.9	73.4	89.8	103.7	110.1	129.0	137.9	164.5
57.5°	43.0	45.5	49.3	56.9	59.5	79.7	86.0	102.5	110.1	135.4
60°	7.6	8.9	13.9	34.2	41.7	50.6	64.5	78.4	88.6	106.3
62.5°	1.3	1.3	2.5	7.6	24.0	35.4	46.8	55.7	64.5	81.0
65°	0.0	0.0	1.3	2.5	6.3	20.2	25.3	32.9	44.3	58.2
67.5°	0.0	0.0	1.3	2.5	3.8	7.6	11.4	20.2	25.3	39.2
70°	0.0	0.0	1.3	2.5	3.8	5.1	6.3	8.9	15.2	24.0
72.5°	0.0	0.0	1.3	2.5	3.8	5.1	6.3	7.6	7.6	15.2
75°	0.0	0.0	1.3	2.5	3.8	6.3	7.6	7.6	6.3	6.3
77.5°	0.0	0.0	1.3	2.5	5.1	7.6	8.9	7.6	5.1	5.1
80°	0.0	0.0	2.5	3.8	6.3	8.9	11.4	8.9	5.1	2.5
82.5°	0.0	0.0	2.5	5.1	6.3	10.1	13.9	11.4	5.1	2.5
85°	0.0	0.0	1.3	3.8	7.6	10.1	13.9	10.1	5.1	1.3
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	7.6	6.3	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637405
 CATALOG NUMBER: IFLD-S-SA2B-750-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
39691.0	0°	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0	39691.0
38740.9	2.5°	38963.6	39166.0	39207.7	39152.1	39233.0	39087.6	38976.2	38687.8	38514.5
36284.3	5°	36518.3	36488.0	36699.2	36768.8	36759.9	36648.6	36493.0	36318.4	36148.9
32494.3	7.5°	32696.7	32735.9	32928.2	33050.9	32988.9	32849.8	32742.3	32610.7	32496.9
28372.9	10°	28632.2	28362.8	28601.9	28601.9	28767.6	28374.2	28410.9	28079.4	28094.6
23636.7	12.5°	23717.7	23815.1	23854.3	23966.9	23773.3	23564.6	23309.1	23258.5	23100.4
17665.9	15°	17920.1	18198.4	17959.4	18367.9	18170.6	17953.0	17913.8	17521.7	17645.6
12813.3	17.5°	12750.0	13057.4	13153.6	13387.6	13208.0	13078.9	12915.8	12796.8	12788.0
8970.2	20°	9041.0	9349.7	9420.5	9701.4	9681.1	9640.6	9502.8	9352.2	9189.0
6106.2	22.5°	6198.6	6450.3	6685.6	7063.8	7057.5	6938.6	6924.7	6712.1	6715.9
4125.2	25°	4168.2	4351.6	4407.3	4794.4	4837.4	4824.7	4752.6	4555.3	4629.9
2519.9	27.5°	2522.4	2683.1	2871.6	3008.2	3137.2	3117.0	3044.9	2934.8	2886.8
1514.2	30°	1554.7	1626.8	1696.4	1860.8	1938.0	1978.5	1944.3	1841.9	1849.4
996.8	32.5°	1018.3	1079.1	1129.7	1233.4	1273.9	1348.5	1334.6	1313.1	1287.8
717.3	35°	742.6	786.8	821.0	869.1	920.9	984.2	994.3	985.4	975.3
554.1	37.5°	566.7	612.3	651.5	671.7	712.2	761.5	789.4	788.1	780.5
451.6	40°	460.5	494.6	530.0	556.6	584.4	621.1	655.3	659.1	659.1
379.5	42.5°	384.6	413.7	449.1	476.9	497.1	531.3	566.7	569.3	566.7
321.3	45°	328.9	354.2	388.4	421.2	437.7	463.0	497.1	504.7	499.7
275.8	47.5°	285.9	308.7	337.8	373.2	390.9	413.7	445.3	454.1	452.9
237.8	50°	245.4	272.0	301.1	330.2	352.9	374.4	404.8	414.9	411.1
202.4	52.5°	216.3	240.4	265.7	297.3	323.8	342.8	366.9	384.6	379.5
170.8	55°	180.9	210.0	236.6	263.1	296.0	316.3	339.0	360.5	355.5
144.2	57.5°	156.9	180.9	211.3	235.3	268.2	292.2	315.0	337.8	336.5
117.6	60°	131.6	156.9	186.0	211.3	241.6	268.2	291.0	316.3	318.8
88.6	62.5°	103.7	134.1	159.4	188.5	218.8	247.9	268.2	293.5	297.3
67.0	65°	78.4	110.1	137.9	165.7	196.1	227.7	245.4	266.9	270.7
49.3	67.5°	58.2	84.8	117.6	142.9	174.6	204.9	221.4	239.1	245.4
30.4	70°	44.3	64.5	98.7	122.7	155.6	179.6	197.3	212.5	217.6
20.2	72.5°	27.8	50.6	79.7	105.0	134.1	155.6	168.2	177.1	184.7
11.4	75°	19.0	39.2	64.5	89.8	111.3	127.8	139.2	146.7	153.1
5.1	77.5°	11.4	30.4	53.1	74.6	88.6	101.2	112.6	117.6	121.4
3.8	80°	6.3	22.8	44.3	60.7	69.6	78.4	87.3	93.6	96.1
2.5	82.5°	3.8	17.7	35.4	46.8	50.6	59.5	68.3	72.1	72.1
1.3	85°	2.5	12.7	24.0	34.2	36.7	43.0	45.5	48.1	50.6
1.3	87.5°	2.5	7.6	15.2	19.0	20.2	22.8	24.0	26.6	29.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
39691.0
38386.7
35959.2
32111.0
27946.6
22956.1
17521.7
12552.7
9118.2
6642.6
4512.3
2845.0
1816.6
1278.9
971.5
776.7
651.5
564.2
499.7
450.3
408.6
378.2
358.0
337.8
320.0
299.8
274.5
247.9
220.1
183.4
151.8
120.2
93.6
70.8
49.3
27.8
0.0

(END OF REPORT)