

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: P637465

Luminaire Tested: **IFLD-S-SA2D-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11088.3 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

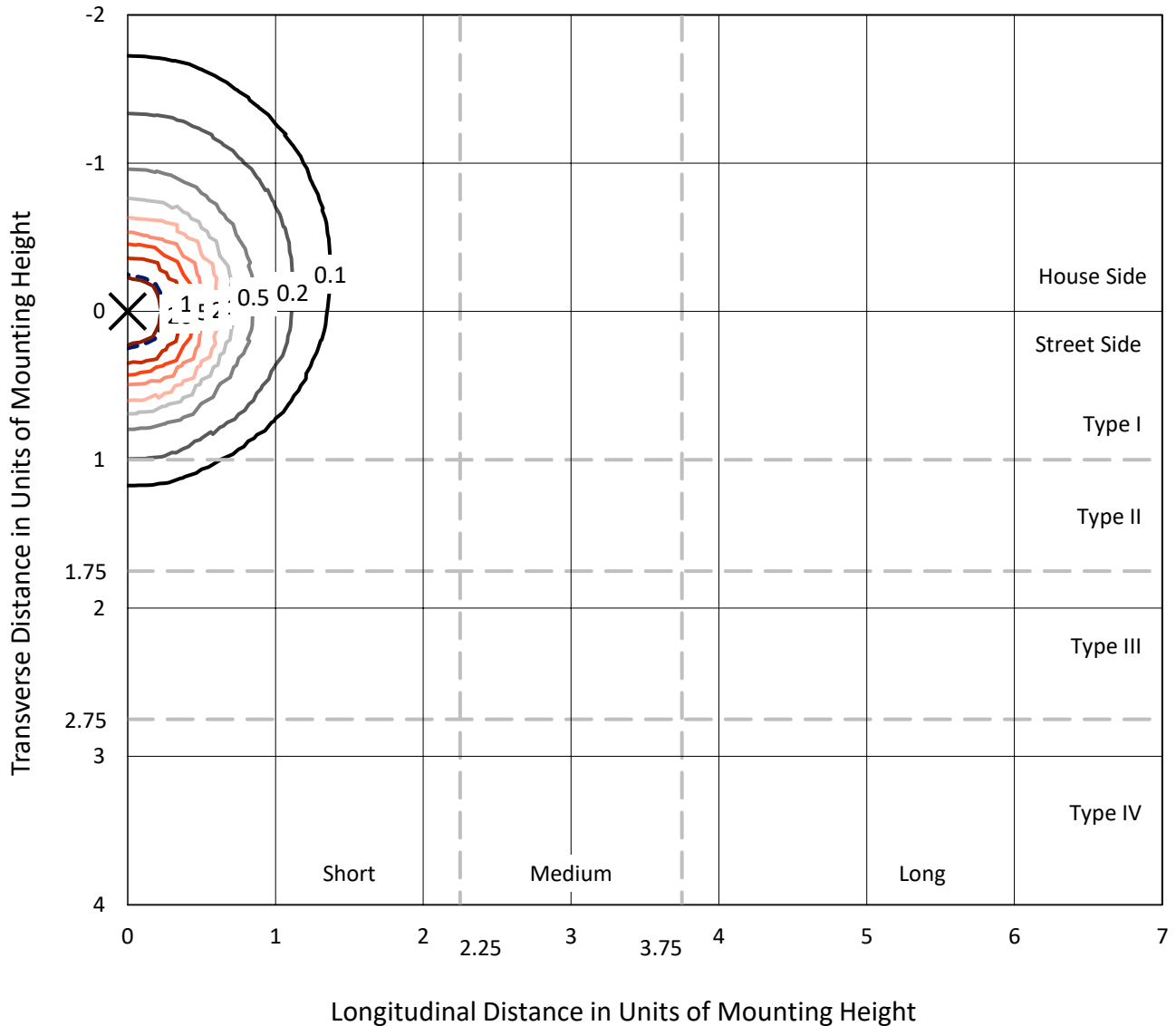
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

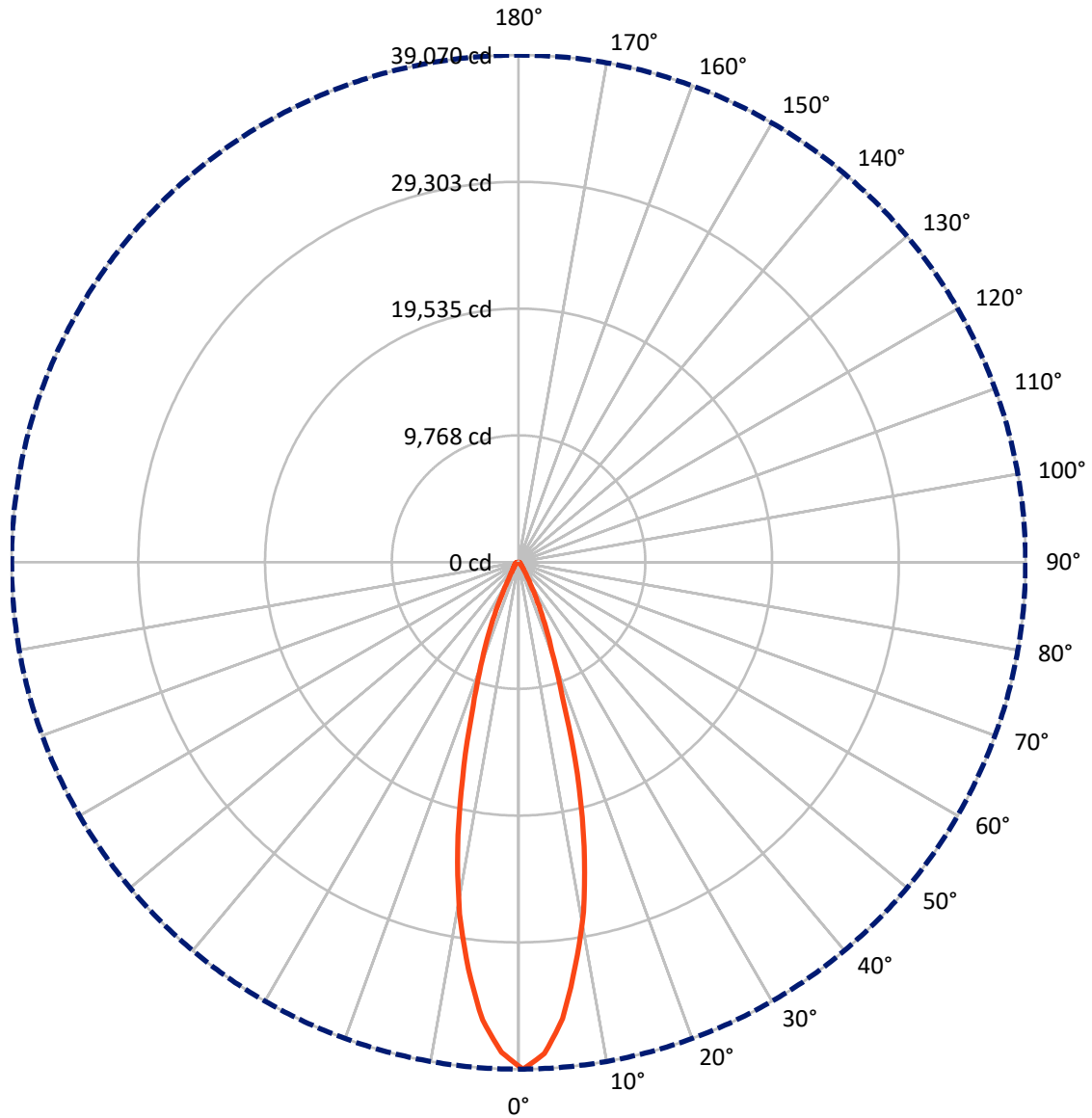
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 97.7 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	5846.5	0.0	5846.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5241.8	0.0	5241.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	11088.3	0.0	11088.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3153.3	28.4
10°-20°	4775.7	43.1
20°-30°	2015.4	18.2
30°-40°	525.6	4.7
40°-50°	265.9	2.4
50°-60°	173.8	1.6
60°-70°	104.1	0.9
70°-80°	54.8	0.5
80°-90°	19.8	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°	11088.3	100.0
0°-180°	11088.3	100.0



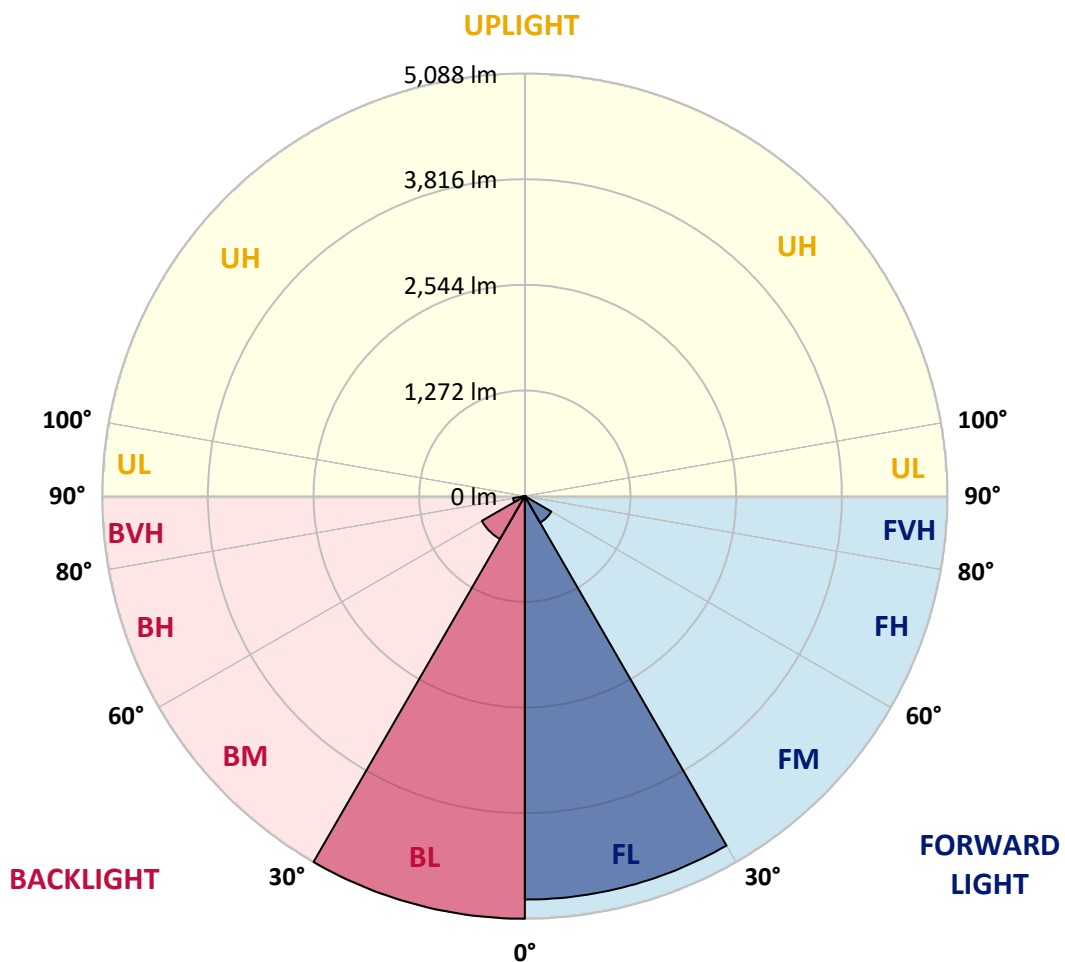
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4856.6	43.8			
FM (30°-60°)	367.8	3.3			
FH (60°-80°)	15.0	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	5087.8	45.9	B5		
BM (30°-60°)	597.5	5.4	B1/1000		
BH (60°-80°)	143.9	1.3	B1/500		G0/660
BVH (80°-90°)	17.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3
2.5°	37932.2	37953.4	37874.9	38044.3	37912.3	38265.9	38090.3	38364.3	38272.1	38425.3
5°	35342.1	35307.2	35284.8	35547.6	35471.6	35851.4	35608.6	35528.9	35775.5	35730.6
7.5°	31430.8	31523.0	31470.7	31539.2	31577.8	32011.1	32148.1	32041.0	32044.7	32107.0
10°	27421.2	27285.5	27092.5	27220.7	27492.2	27681.5	27605.5	27762.4	27727.5	27875.7
12.5°	22487.6	22594.7	22486.4	22371.8	22846.2	22793.9	22925.9	23011.8	22796.4	23275.8
15°	16938.9	16994.9	17126.9	17118.2	17483.0	17556.5	17539.1	17630.0	17461.9	17541.6
17.5°	10882.1	11071.3	11426.2	12026.4	12701.3	12779.8	12759.9	12685.2	12604.2	12514.6
20°	7309.5	7289.6	7417.8	7593.4	8990.6	9360.4	9349.2	9115.1	8776.4	8711.6
22.5°	5120.4	5157.7	5140.3	5314.6	5603.5	6623.4	6497.6	6259.8	6148.9	6076.7
25°	3368.3	3354.6	3441.8	3494.1	3741.9	3866.4	4307.3	4218.8	4048.2	4066.9
27.5°	2053.4	2070.8	2103.2	2148.0	2323.6	2283.8	2535.3	2568.9	2514.1	2455.6
30°	1260.2	1272.6	1298.8	1331.2	1392.2	1348.6	1418.3	1539.1	1519.2	1478.1
32.5°	855.5	856.7	875.4	887.8	880.4	839.3	861.7	976.3	978.8	975.0
35°	615.1	615.1	632.6	642.5	621.4	587.7	591.5	662.5	693.6	699.8
37.5°	424.6	425.9	455.8	485.6	462.0	453.3	438.3	485.6	535.4	542.9
40°	322.5	321.3	336.2	358.6	361.1	344.9	349.9	379.8	430.8	437.1
42.5°	261.5	262.7	270.2	267.7	269.0	290.1	297.6	311.3	358.6	369.8
45°	220.4	221.7	225.4	212.9	208.0	240.3	250.3	257.8	297.6	311.3
47.5°	181.8	184.3	188.0	174.3	171.8	193.0	210.4	217.9	252.8	267.7
50°	130.7	133.2	146.9	139.5	146.9	151.9	175.6	186.8	210.4	230.4
52.5°	94.6	97.1	100.9	102.1	120.8	123.3	140.7	158.1	169.4	191.8
55°	74.7	77.2	74.7	72.2	88.4	102.1	108.3	127.0	135.7	161.9
57.5°	42.3	44.8	48.6	56.0	58.5	78.4	84.7	100.9	108.3	133.2
60°	7.5	8.7	13.7	33.6	41.1	49.8	63.5	77.2	87.2	104.6
62.5°	1.2	1.2	2.5	7.5	23.7	34.9	46.1	54.8	63.5	79.7
65°	0.0	0.0	1.2	2.5	6.2	19.9	24.9	32.4	43.6	57.3
67.5°	0.0	0.0	1.2	2.5	3.7	7.5	11.2	19.9	24.9	38.6
70°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	8.7	14.9	23.7
72.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	7.5	7.5	14.9
75°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	7.5	6.2	6.2
77.5°	0.0	0.0	1.2	2.5	5.0	7.5	8.7	7.5	5.0	5.0
80°	0.0	0.0	2.5	3.7	6.2	8.7	11.2	8.7	5.0	2.5
82.5°	0.0	0.0	2.5	5.0	6.2	10.0	13.7	11.2	5.0	2.5
85°	0.0	0.0	1.2	3.7	7.5	10.0	13.7	10.0	5.0	1.2
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	7.5	6.2	2.5	1.2
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°
39070.3	0°	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3	39070.3
38135.2	2.5°	38354.3	38553.6	38594.7	38539.9	38619.6	38476.4	38366.8	38082.9	37912.3
35716.9	5°	35947.3	35917.4	36125.4	36193.9	36185.1	36075.6	35922.4	35750.6	35583.7
31986.2	7.5°	32185.5	32224.1	32413.3	32534.1	32473.1	32336.1	32230.3	32100.8	31988.7
27929.3	10°	28184.5	27919.3	28154.6	28154.6	28317.8	27930.5	27966.6	27640.4	27655.3
23267.1	12.5°	23346.8	23442.7	23481.3	23592.1	23401.6	23196.1	22944.6	22894.8	22739.1
17389.6	15°	17639.9	17913.9	17678.5	18080.7	17886.5	17672.3	17633.7	17247.7	17369.7
12612.9	17.5°	12550.7	12853.3	12947.9	13178.3	13001.4	12874.4	12713.8	12596.7	12588.0
8829.9	20°	8899.7	9203.5	9273.2	9549.7	9529.7	9489.9	9354.2	9206.0	9045.4
6010.7	22.5°	6101.6	6349.4	6581.0	6953.4	6947.1	6830.1	6816.4	6607.2	6610.9
4060.7	25°	4103.0	4283.6	4338.4	4719.4	4761.8	4749.3	4678.3	4484.1	4557.5
2480.5	27.5°	2483.0	2641.1	2826.7	2961.2	3088.2	3068.2	2997.3	2888.9	2841.6
1490.5	30°	1530.4	1601.4	1669.9	1831.7	1907.7	1947.5	1913.9	1813.1	1820.5
981.2	32.5°	1002.4	1062.2	1112.0	1214.1	1253.9	1327.4	1313.7	1292.5	1267.6
706.0	35°	730.9	774.5	808.2	855.5	906.5	968.8	978.8	970.0	960.1
545.4	37.5°	557.9	602.7	641.3	661.2	701.1	749.6	777.0	775.8	768.3
444.5	40°	453.3	486.9	521.8	547.9	575.3	611.4	645.0	648.8	648.8
373.6	42.5°	378.5	407.2	442.1	469.5	489.4	523.0	557.9	560.4	557.9
316.3	45°	323.8	348.7	382.3	414.7	430.8	455.8	489.4	496.8	491.9
271.5	47.5°	281.4	303.8	332.5	367.3	384.8	407.2	438.3	447.0	445.8
234.1	50°	241.6	267.7	296.4	325.0	347.4	368.6	398.5	408.4	404.7
199.2	52.5°	212.9	236.6	261.5	292.6	318.8	337.5	361.1	378.5	373.6
168.1	55°	178.1	206.7	232.9	259.0	291.4	311.3	333.7	354.9	349.9
142.0	57.5°	154.4	178.1	208.0	231.6	264.0	287.6	310.1	332.5	331.2
115.8	60°	129.5	154.4	183.0	208.0	237.8	264.0	286.4	311.3	313.8
87.2	62.5°	102.1	132.0	156.9	185.5	215.4	244.1	264.0	288.9	292.6
66.0	65°	77.2	108.3	135.7	163.1	193.0	224.1	241.6	262.7	266.5
48.6	67.5°	57.3	83.4	115.8	140.7	171.8	201.7	217.9	235.3	241.6
29.9	70°	43.6	63.5	97.1	120.8	153.2	176.8	194.3	209.2	214.2
19.9	72.5°	27.4	49.8	78.4	103.4	132.0	153.2	165.6	174.3	181.8
11.2	75°	18.7	38.6	63.5	88.4	109.6	125.8	137.0	144.4	150.7
5.0	77.5°	11.2	29.9	52.3	73.5	87.2	99.6	110.8	115.8	119.5
3.7	80°	6.2	22.4	43.6	59.8	68.5	77.2	85.9	92.1	94.6
2.5	82.5°	3.7	17.4	34.9	46.1	49.8	58.5	67.2	71.0	71.0
1.2	85°	2.5	12.5	23.7	33.6	36.1	42.3	44.8	47.3	49.8
1.2	87.5°	2.5	7.5	14.9	18.7	19.9	22.4	23.7	26.1	28.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
39070.3
37786.5
35396.9
31608.9
27509.6
22597.2
17247.7
12356.4
8975.6
6538.7
4441.7
2800.5
1788.2
1258.9
956.3
764.6
641.3
555.4
491.9
443.3
402.2
372.3
352.4
332.5
315.0
295.1
270.2
244.1
216.7
180.6
149.4
118.3
92.1
69.7
48.6
27.4
0.0

(END OF REPORT)