

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: P637494

Luminaire Tested: **IFLD-S-SA2D-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637494
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11985.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

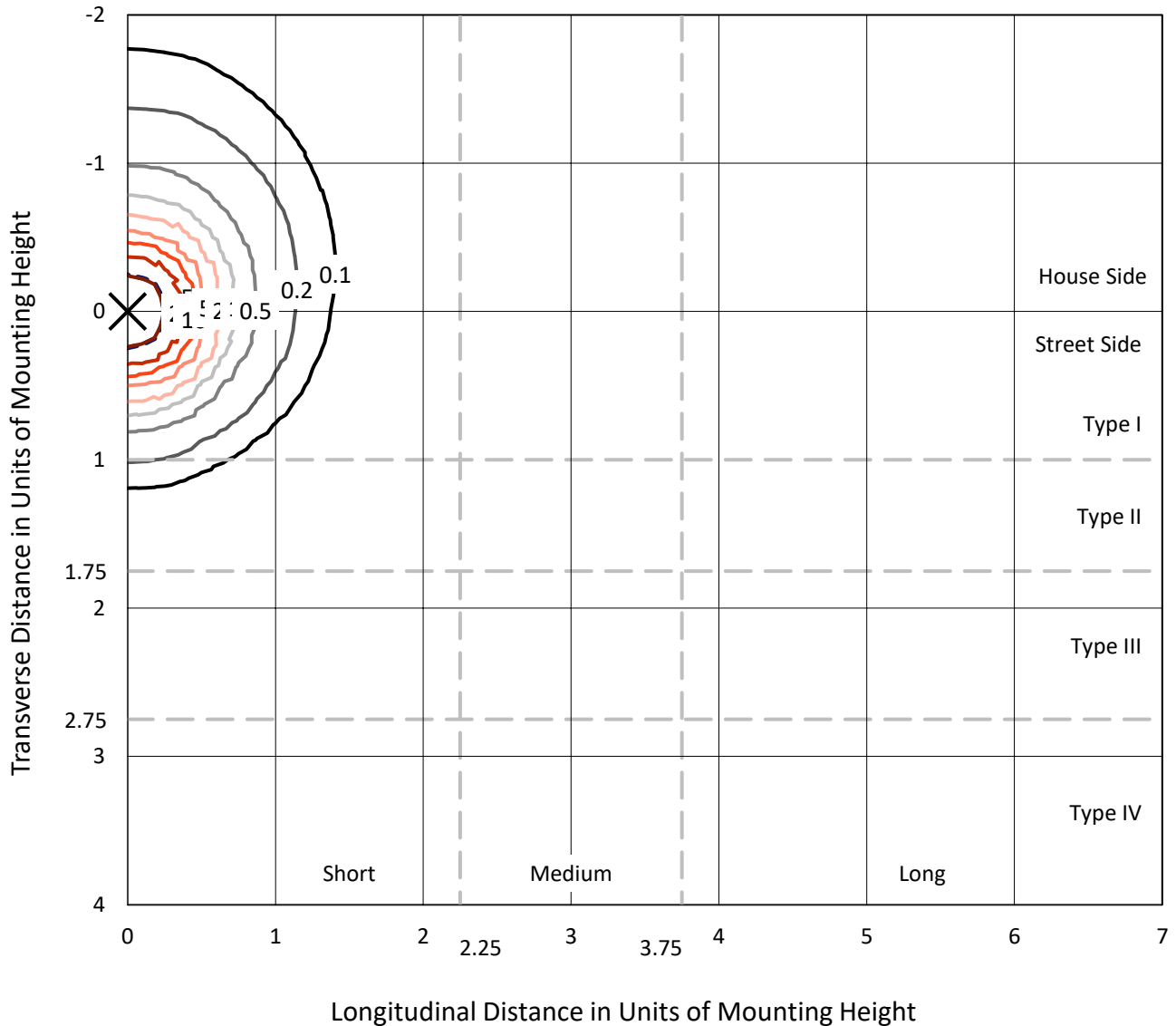
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637494
 CATALOG NUMBER: IFLD-S-SA2D-830-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

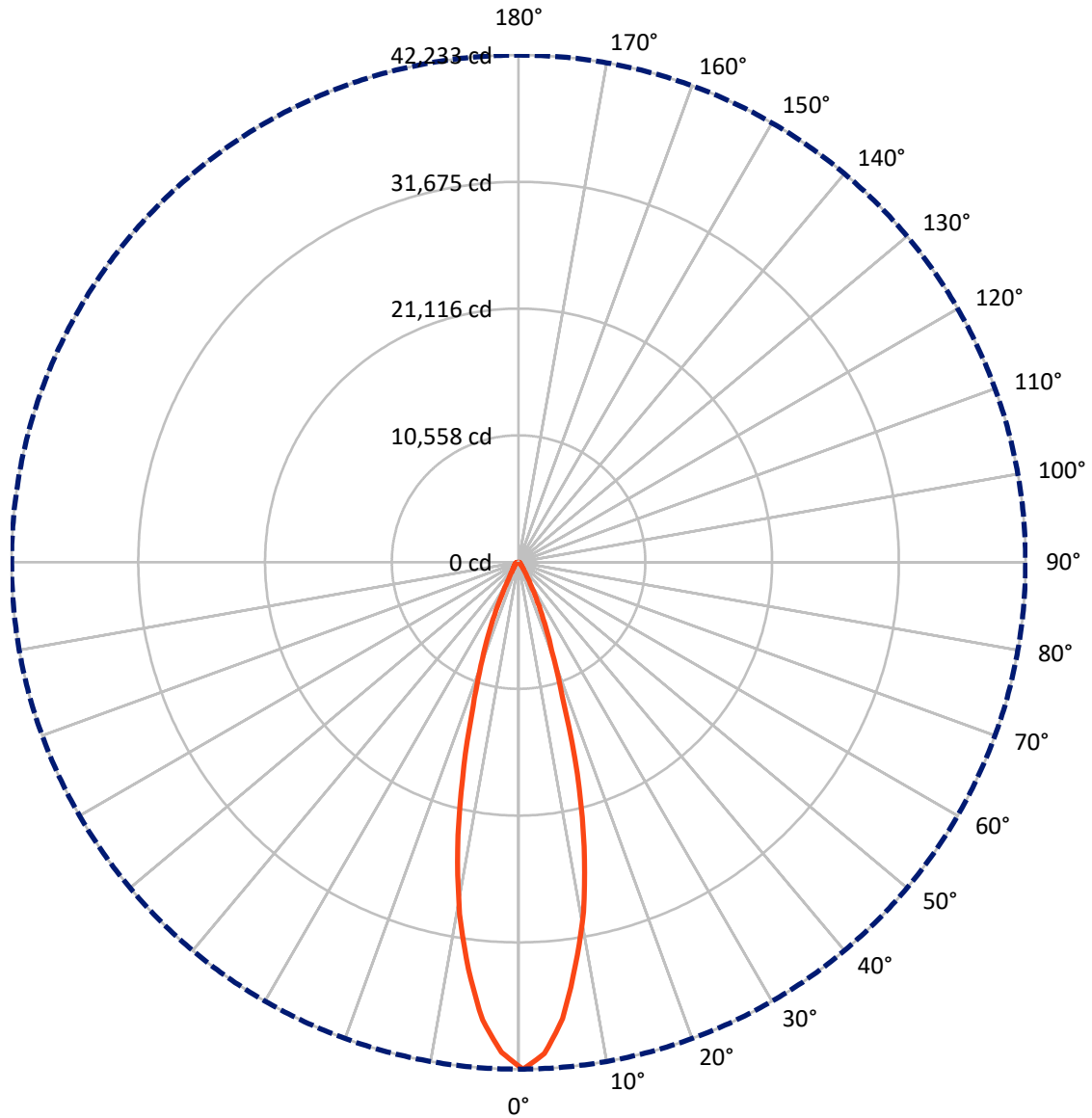
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 105.6 fc
 Type V - Short - N/A

REPORT NUMBER: P637494
CATALOG NUMBER: IFLD-S-SA2D-830-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637494

CATALOG NUMBER: IFLD-S-SA2D-830-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6319.7	0.0	6319.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5666.1	0.0	5666.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	11985.8	0.0	11985.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3408.6	28.4
10°-20°	5162.2	43.1
20°-30°	2178.5	18.2
30°-40°	568.2	4.7
40°-50°	287.4	2.4
50°-60°	187.8	1.6
60°-70°	112.5	0.9
70°-80°	59.2	0.5
80°-90°	21.4	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°	11985.8	100.0
0°-180°	11985.8	100.0



REPORT NUMBER: P637494

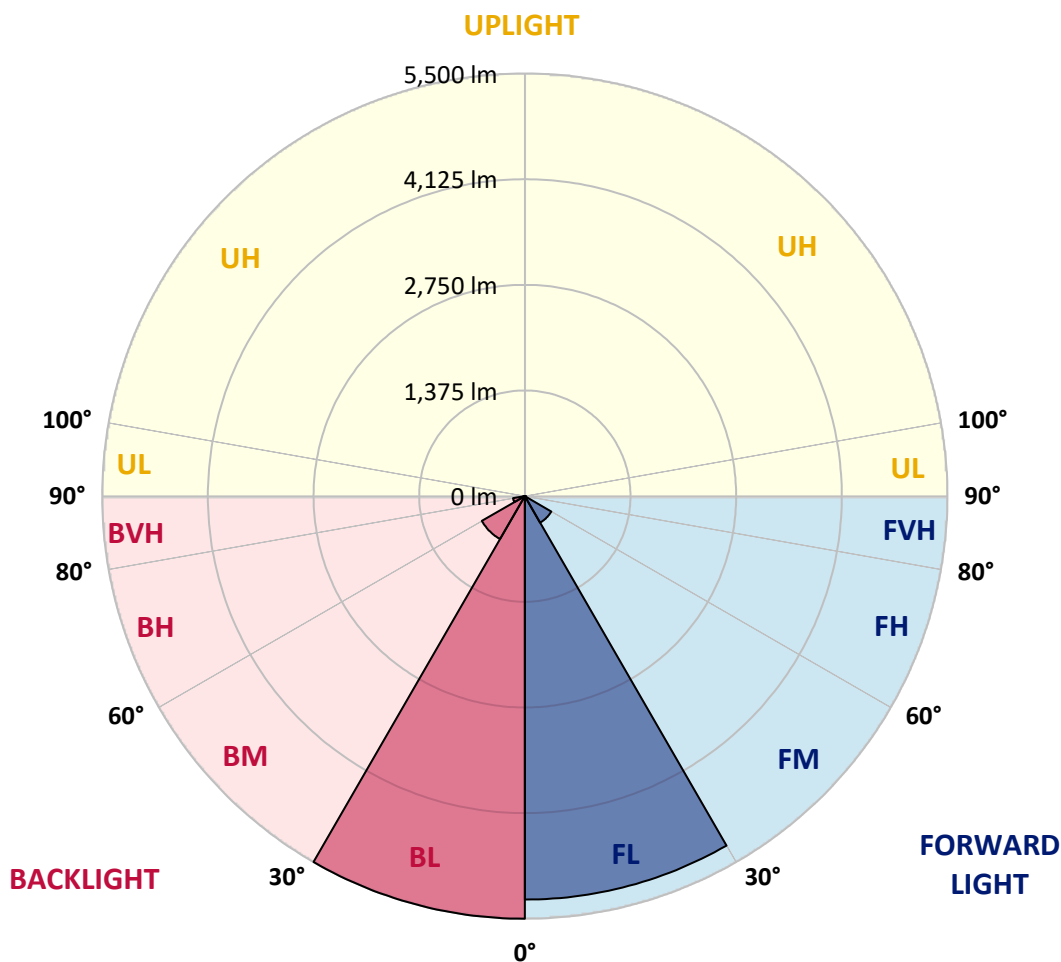
CATALOG NUMBER: IFLD-S-SA2D-830-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5249.7	43.8			
FM (30°-60°)	397.6	3.3			
FH (60°-80°)	16.2	0.1			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	5499.6	45.9	B5		
BM (30°-60°)	645.8	5.4	B1/1000		
BH (60°-80°)	155.5	1.3	B1/500		G0/660
BVH (80°-90°)	18.8	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: P637494
 CATALOG NUMBER: IFLD-S-SA2D-830-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7
2.5°	41002.5	41025.4	40940.6	41123.6	40980.9	41363.2	41173.4	41469.5	41369.9	41535.5
5°	38202.8	38165.1	38140.8	38424.8	38342.7	38753.3	38490.8	38404.7	38671.2	38622.7
7.5°	33974.9	34074.5	34018.0	34092.0	34133.7	34602.2	34750.2	34634.5	34638.5	34705.8
10°	29640.7	29494.0	29285.4	29424.0	29717.4	29922.0	29839.9	30009.5	29971.8	30132.0
12.5°	24307.8	24423.5	24306.4	24182.6	24695.4	24638.9	24781.6	24874.5	24641.6	25159.8
15°	18309.9	18370.5	18513.2	18503.7	18898.1	18977.5	18958.7	19057.0	18875.2	18961.4
17.5°	11762.9	11967.5	12351.1	12999.9	13729.4	13814.2	13792.7	13711.9	13624.4	13527.5
20°	7901.1	7879.6	8018.2	8208.0	9718.3	10118.0	10105.9	9852.9	9486.8	9416.8
22.5°	5534.8	5575.2	5556.4	5744.8	6057.1	7159.5	7023.5	6766.4	6646.6	6568.6
25°	3641.0	3626.2	3720.4	3776.9	4044.8	4179.4	4655.9	4560.3	4375.9	4396.1
27.5°	2219.6	2238.4	2273.4	2321.9	2511.7	2468.6	2740.5	2776.8	2717.6	2654.4
30°	1362.2	1375.6	1403.9	1438.9	1504.9	1457.7	1533.1	1663.7	1642.1	1597.7
32.5°	924.7	926.1	946.3	959.7	951.6	907.2	931.4	1055.3	1058.0	1053.9
35°	664.9	664.9	683.8	694.5	671.7	635.3	639.4	716.1	749.7	756.5
37.5°	459.0	460.3	492.6	524.9	499.4	490.0	473.8	524.9	578.8	586.9
40°	348.6	347.3	363.4	387.7	390.3	372.8	378.2	410.5	465.7	472.5
42.5°	282.7	284.0	292.1	289.4	290.7	313.6	321.7	336.5	387.7	399.8
45°	238.2	239.6	243.6	230.2	224.8	259.8	270.6	278.6	321.7	336.5
47.5°	196.5	199.2	203.2	188.4	185.8	208.6	227.5	235.6	273.2	289.4
50°	141.3	144.0	158.8	150.8	158.8	164.2	189.8	201.9	227.5	249.0
52.5°	102.3	105.0	109.0	110.4	130.6	133.3	152.1	170.9	183.1	207.3
55°	80.8	83.5	80.8	78.1	95.6	110.4	117.1	137.3	146.7	175.0
57.5°	45.8	48.5	52.5	60.6	63.3	84.8	91.5	109.0	117.1	144.0
60°	8.1	9.4	14.8	36.3	44.4	53.8	68.6	83.5	94.2	113.1
62.5°	1.3	1.3	2.7	8.1	25.6	37.7	49.8	59.2	68.6	86.1
65°	0.0	0.0	1.3	2.7	6.7	21.5	26.9	35.0	47.1	61.9
67.5°	0.0	0.0	1.3	2.7	4.0	8.1	12.1	21.5	26.9	41.7
70°	0.0	0.0	1.3	2.7	4.0	5.4	6.7	9.4	16.2	25.6
72.5°	0.0	0.0	1.3	2.7	4.0	5.4	6.7	8.1	8.1	16.2
75°	0.0	0.0	1.3	2.7	4.0	6.7	8.1	8.1	6.7	6.7
77.5°	0.0	0.0	1.3	2.7	5.4	8.1	9.4	8.1	5.4	5.4
80°	0.0	0.0	2.7	4.0	6.7	9.4	12.1	9.4	5.4	2.7
82.5°	0.0	0.0	2.7	5.4	6.7	10.8	14.8	12.1	5.4	2.7
85°	0.0	0.0	1.3	4.0	8.1	10.8	14.8	10.8	5.4	1.3
87.5°	0.0	0.0	1.3	1.3	2.7	4.0	8.1	6.7	2.7	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: P637494

CATALOG NUMBER: IFLD-S-SA2D-830-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
42232.7	0°	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7	42232.7
41221.9	2.5°	41458.8	41674.1	41718.6	41659.3	41745.5	41590.7	41472.2	41165.3	40980.9
38607.9	5°	38856.9	38824.6	39049.4	39123.4	39114.0	38995.6	38830.0	38644.2	38463.9
34575.2	7.5°	34790.6	34832.3	35036.9	35167.5	35101.5	34953.5	34839.0	34699.1	34577.9
30189.9	10°	30465.8	30179.1	30433.5	30433.5	30609.9	30191.2	30230.3	29877.6	29893.8
25150.4	12.5°	25236.5	25340.2	25381.9	25501.7	25295.8	25073.7	24801.8	24747.9	24579.7
18797.2	15°	19067.7	19363.9	19109.5	19544.2	19334.2	19102.7	19061.0	18643.7	18775.6
13633.8	17.5°	13566.5	13893.6	13995.9	14244.9	14053.8	13916.5	13742.9	13616.3	13606.9
9544.6	20°	9620.0	9948.4	10023.8	10322.6	10301.1	10258.0	10111.3	9951.1	9777.5
6497.2	22.5°	6595.5	6863.4	7113.7	7516.2	7509.4	7382.9	7368.1	7142.0	7146.0
4389.4	25°	4435.1	4630.3	4689.5	5101.4	5147.2	5133.7	5057.0	4847.0	4926.4
2681.3	27.5°	2684.0	2854.9	3055.5	3200.8	3338.1	3316.6	3239.9	3122.8	3071.6
1611.2	30°	1654.3	1731.0	1805.0	1980.0	2062.1	2105.2	2068.8	1959.8	1967.9
1060.7	32.5°	1083.5	1148.2	1202.0	1312.4	1355.4	1434.9	1420.1	1397.2	1370.2
763.2	35°	790.1	837.2	873.6	924.7	979.9	1047.2	1058.0	1048.6	1037.8
589.6	37.5°	603.0	651.5	693.2	714.7	757.8	810.3	839.9	838.6	830.5
480.5	40°	490.0	526.3	564.0	592.2	621.9	660.9	697.2	701.3	701.3
403.8	42.5°	409.2	440.1	477.8	507.4	529.0	565.3	603.0	605.7	603.0
341.9	45°	350.0	376.9	413.2	448.2	465.7	492.6	529.0	537.1	531.7
293.4	47.5°	304.2	328.4	359.4	397.1	415.9	440.1	473.8	483.2	481.9
253.1	50°	261.1	289.4	320.4	351.3	375.5	398.4	430.7	441.5	437.5
215.4	52.5°	230.2	255.7	282.7	316.3	344.6	364.8	390.3	409.2	403.8
181.7	55°	192.5	223.4	251.7	280.0	315.0	336.5	360.7	383.6	378.2
153.4	57.5°	166.9	192.5	224.8	250.4	285.4	310.9	335.2	359.4	358.0
125.2	60°	140.0	166.9	197.9	224.8	257.1	285.4	309.6	336.5	339.2
94.2	62.5°	110.4	142.7	169.6	200.6	232.9	263.8	285.4	312.3	316.3
71.3	65°	83.5	117.1	146.7	176.3	208.6	242.3	261.1	284.0	288.0
52.5	67.5°	61.9	90.2	125.2	152.1	185.8	218.1	235.6	254.4	261.1
32.3	70°	47.1	68.6	105.0	130.6	165.6	191.1	210.0	226.1	231.5
21.5	72.5°	29.6	53.8	84.8	111.7	142.7	165.6	179.0	188.4	196.5
12.1	75°	20.2	41.7	68.6	95.6	118.4	135.9	148.1	156.1	162.9
5.4	77.5°	12.1	32.3	56.5	79.4	94.2	107.7	119.8	125.2	129.2
4.0	80°	6.7	24.2	47.1	64.6	74.0	83.5	92.9	99.6	102.3
2.7	82.5°	4.0	18.8	37.7	49.8	53.8	63.3	72.7	76.7	76.7
1.3	85°	2.7	13.5	25.6	36.3	39.0	45.8	48.5	51.1	53.8
1.3	87.5°	2.7	8.1	16.2	20.2	21.5	24.2	25.6	28.3	31.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
42232.7
40845.0
38262.0
34167.4
29736.3
24426.2
18643.7
13356.6
9702.1
7068.0
4801.3
3027.2
1932.9
1360.8
1033.7
826.5
693.2
600.3
531.7
479.2
434.8
402.5
380.9
359.4
340.5
319.0
292.1
263.8
234.2
195.2
161.5
127.9
99.6
75.4
52.5
29.6
0.0

(END OF REPORT)