

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: P637393

Luminaire Tested: **IFLD-M-SA4D-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30172.8 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

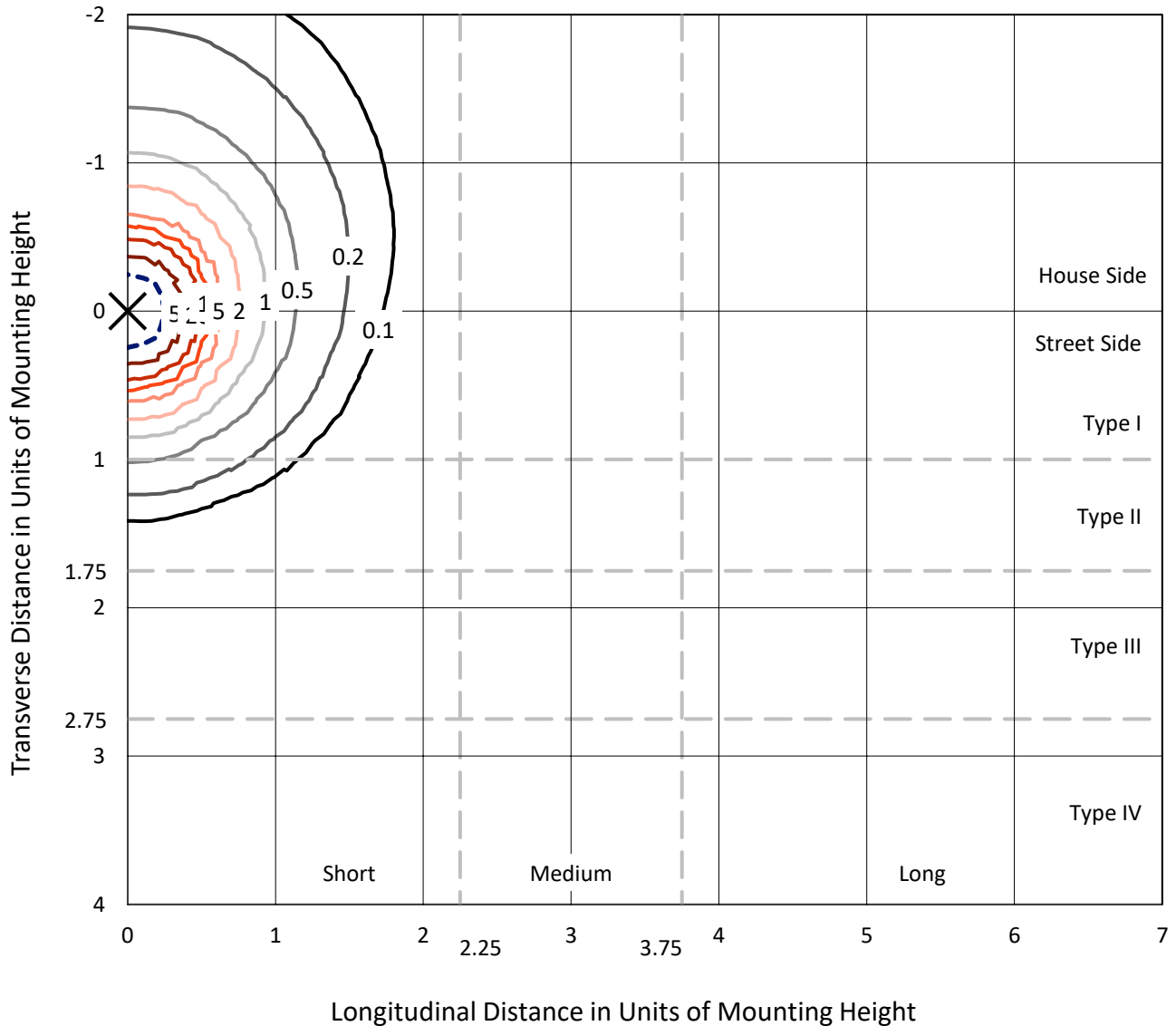
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637393
 CATALOG NUMBER: IFLD-M-SA4D-740-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

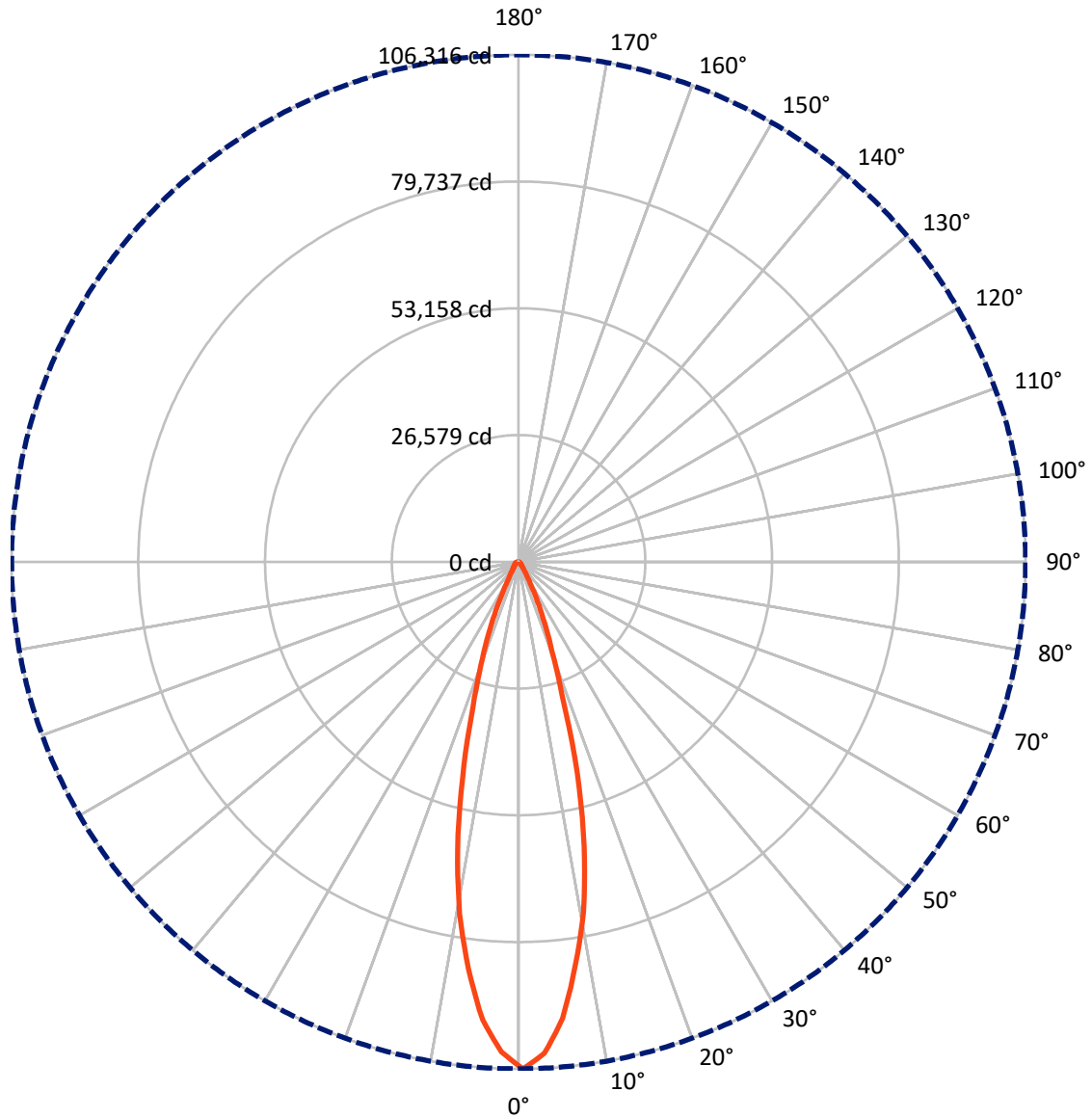
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 265.8 fc
 Type V - Short - N/A

REPORT NUMBER: P637393
CATALOG NUMBER: IFLD-M-SA4D-740-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637393
 CATALOG NUMBER: IFLD-M-SA4D-740-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15909.1	0.0	15909.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	14263.7	0.0	14263.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	30172.8	0.0	30172.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8580.6	28.4
10°-20°	12995.3	43.1
20°-30°	5484.1	18.2
30°-40°	1430.3	4.7
40°-50°	723.4	2.4
50°-60°	472.9	1.6
60°-70°	283.3	0.9
70°-80°	149.0	0.5
80°-90°	53.8	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°	30172.8	100.0
0°-180°	30172.8	100.0

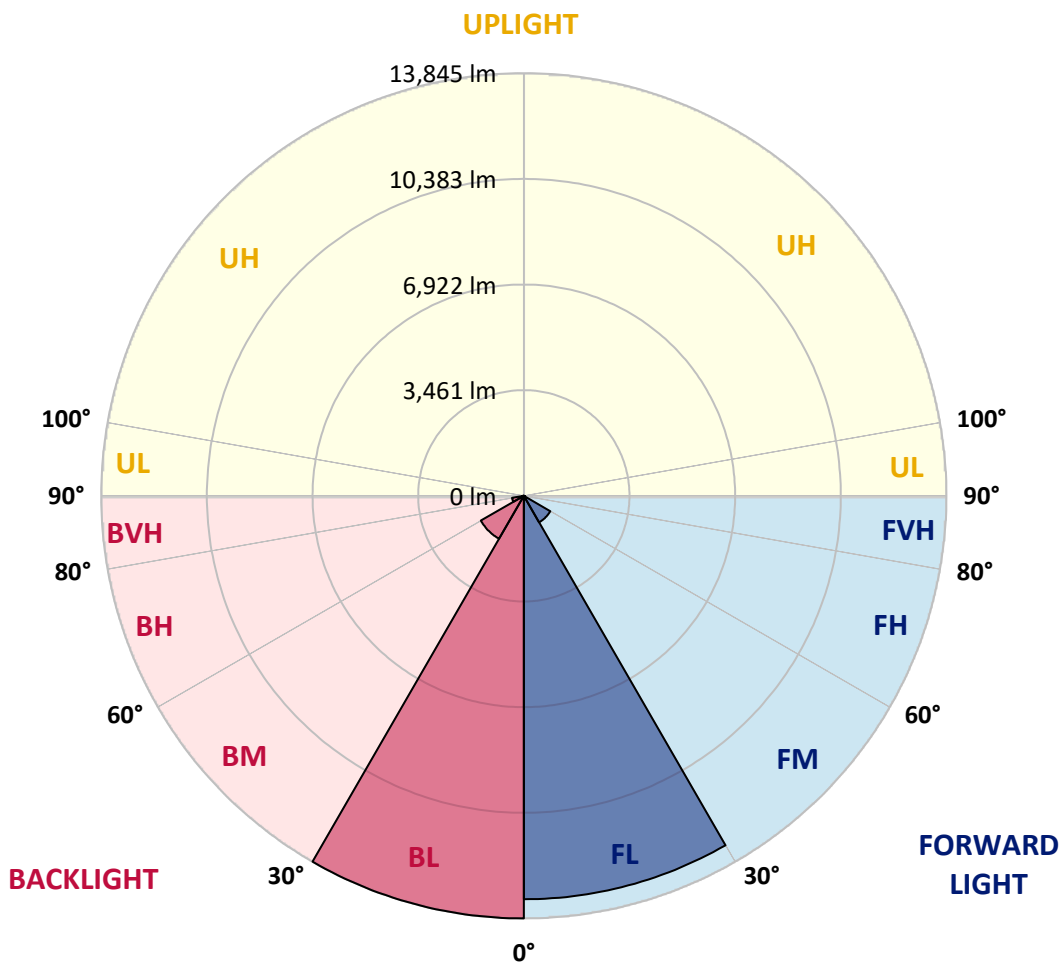


REPORT NUMBER: P637393
 CATALOG NUMBER: IFLD-M-SA4D-740-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13215.5	43.8			
FM (30°-60°)	1000.8	3.3			
FH (60°-80°)	40.8	0.1			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	13844.6	45.9	B5		
BM (30°-60°)	1625.7	5.4	B2/2500		
BH (60°-80°)	391.5	1.3	B1/500		G0/660
BVH (80°-90°)	47.3	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: P637393
 CATALOG NUMBER: IFLD-M-SA4D-740-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0
2.5°	103218.9	103276.5	103063.0	103523.9	103164.7	104127.0	103649.2	104394.7	104144.0	104560.7
5°	96170.9	96076.1	96015.1	96730.0	96523.3	97556.8	96896.1	96679.2	97350.1	97228.1
7.5°	85527.8	85778.6	85636.3	85822.6	85927.7	87106.8	87479.6	87188.2	87198.3	87367.8
10°	74617.0	74247.7	73722.5	74071.5	74810.2	75325.2	75118.5	75545.5	75450.6	75853.8
12.5°	61192.0	61483.4	61188.6	60876.9	62167.9	62025.5	62384.7	62618.5	62032.3	63336.9
15°	46093.1	46245.5	46604.7	46581.0	47573.8	47773.7	47726.3	47973.7	47516.2	47733.1
17.5°	29611.7	30126.7	31092.4	32725.6	34562.2	34775.6	34721.4	34518.1	34297.9	34053.9
20°	19890.2	19836.0	20185.0	20662.8	24464.6	25471.0	25440.5	24803.4	23881.8	23705.6
22.5°	13933.3	14035.0	13987.5	14461.9	15248.0	18023.2	17680.9	17033.7	16732.2	16535.6
25°	9165.8	9128.5	9365.7	9508.0	10182.3	10521.1	11720.6	11480.1	11015.8	11066.7
27.5°	5587.6	5635.0	5723.1	5845.1	6322.8	6214.4	6898.9	6990.4	6841.3	6682.0
30°	3429.1	3463.0	3534.2	3622.3	3788.3	3669.7	3859.4	4188.1	4133.9	4022.1
32.5°	2327.9	2331.3	2382.1	2416.0	2395.6	2283.8	2344.8	2656.5	2663.3	2653.2
35°	1673.9	1673.9	1721.3	1748.4	1690.8	1599.3	1609.5	1802.7	1887.4	1904.3
37.5°	1155.5	1158.8	1240.2	1321.5	1257.1	1233.4	1192.7	1321.5	1457.0	1477.4
40°	877.6	874.2	914.9	975.9	982.7	938.6	952.2	1033.5	1172.4	1189.3
42.5°	711.6	715.0	735.3	728.5	731.9	789.5	809.8	847.1	975.9	1006.4
45°	599.8	603.1	613.3	579.4	565.9	654.0	681.1	701.4	809.8	847.1
47.5°	494.7	501.5	511.7	474.4	467.6	525.2	572.6	593.0	687.9	728.5
50°	355.8	362.6	399.8	379.5	399.8	413.4	477.8	508.3	572.6	626.9
52.5°	257.5	264.3	274.5	277.9	328.7	335.5	382.9	430.3	460.8	521.8
55°	203.3	210.1	203.3	196.5	240.6	277.9	294.8	345.6	369.3	440.5
57.5°	115.2	122.0	132.1	152.5	159.3	213.5	230.4	274.5	294.8	362.6
60°	20.3	23.7	37.3	91.5	111.8	135.5	172.8	210.1	237.2	284.6
62.5°	3.4	3.4	6.8	20.3	64.4	94.9	125.4	149.1	172.8	216.9
65°	0.0	0.0	3.4	6.8	16.9	54.2	67.8	88.1	118.6	155.9
67.5°	0.0	0.0	3.4	6.8	10.2	20.3	30.5	54.2	67.8	105.0
70°	0.0	0.0	3.4	6.8	10.2	13.6	16.9	23.7	40.7	64.4
72.5°	0.0	0.0	3.4	6.8	10.2	13.6	16.9	20.3	20.3	40.7
75°	0.0	0.0	3.4	6.8	10.2	16.9	20.3	20.3	16.9	16.9
77.5°	0.0	0.0	3.4	6.8	13.6	20.3	23.7	20.3	13.6	13.6
80°	0.0	0.0	6.8	10.2	16.9	23.7	30.5	23.7	13.6	6.8
82.5°	0.0	0.0	6.8	13.6	16.9	27.1	37.3	30.5	13.6	6.8
85°	0.0	0.0	3.4	10.2	20.3	27.1	37.3	27.1	13.6	3.4
87.5°	0.0	0.0	3.4	3.4	6.8	10.2	20.3	16.9	6.8	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637393
 CATALOG NUMBER: IFLD-M-SA4D-740-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
106316.0	0°	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0	106316.0
103771.2	2.5°	104367.6	104909.8	105021.6	104872.5	105089.3	104699.7	104401.5	103628.9	103164.7
97190.9	5°	97817.7	97736.4	98302.3	98488.6	98464.9	98166.7	97750.0	97282.4	96828.3
87039.1	7.5°	87581.2	87686.3	88201.3	88530.0	88364.0	87991.2	87703.2	87350.8	87045.9
75999.5	10°	76694.1	75972.4	76612.8	76612.8	77056.7	76002.9	76101.2	75213.4	75254.1
63313.2	12.5°	63530.0	63790.9	63896.0	64197.5	63679.1	63120.0	62435.6	62300.0	61876.5
47319.7	15°	48000.8	48746.2	48105.8	49200.3	48671.7	48088.9	47983.8	46933.4	47265.5
34321.6	17.5°	34152.2	34975.6	35233.1	35860.0	35378.8	35033.2	34596.1	34277.5	34253.8
24027.5	20°	24217.2	25044.0	25233.8	25986.0	25931.8	25823.4	25454.0	25050.8	24613.7
16356.0	22.5°	16603.4	17277.7	17908.0	18921.1	18904.2	18585.6	18548.4	17979.1	17989.3
11049.7	25°	11164.9	11656.3	11805.4	12842.2	12957.4	12923.5	12730.4	12201.8	12401.7
6749.8	27.5°	6756.6	7186.9	7691.8	8057.7	8403.4	8349.1	8156.0	7861.2	7732.4
4056.0	30°	4164.4	4357.5	4543.9	4984.4	5191.1	5299.5	5208.0	4933.6	4953.9
2670.1	32.5°	2727.7	2890.3	3025.9	3303.7	3412.2	3612.1	3574.8	3517.2	3449.4
1921.3	35°	1989.0	2107.6	2199.1	2327.9	2466.8	2636.2	2663.3	2639.6	2612.5
1484.1	37.5°	1518.0	1640.0	1745.1	1799.3	1907.7	2039.8	2114.4	2111.0	2090.7
1209.7	40°	1233.4	1324.9	1419.8	1490.9	1565.5	1663.7	1755.2	1765.4	1765.4
1016.5	42.5°	1030.1	1108.0	1202.9	1277.4	1331.7	1423.1	1518.0	1524.8	1518.0
860.7	45°	881.0	948.8	1040.3	1128.4	1172.4	1240.2	1331.7	1352.0	1338.4
738.7	47.5°	765.8	826.8	904.7	999.6	1047.0	1108.0	1192.7	1216.5	1213.1
637.0	50°	657.4	728.5	806.5	884.4	945.4	1003.0	1084.3	1111.4	1101.2
542.2	52.5°	579.4	643.8	711.6	796.3	867.4	918.3	982.7	1030.1	1016.5
457.4	55°	484.5	562.5	633.6	704.8	792.9	847.1	908.1	965.7	952.2
386.3	57.5°	420.2	484.5	565.9	630.3	718.4	782.7	843.7	904.7	901.3
315.1	60°	352.4	420.2	498.1	565.9	647.2	718.4	779.3	847.1	853.9
237.2	62.5°	277.9	359.2	426.9	504.9	586.2	664.1	718.4	786.1	796.3
179.6	65°	210.1	294.8	369.3	443.9	525.2	609.9	657.4	715.0	725.1
132.1	67.5°	155.9	227.0	315.1	382.9	467.6	548.9	593.0	640.4	657.4
81.3	70°	118.6	172.8	264.3	328.7	416.8	481.2	528.6	569.3	582.8
54.2	72.5°	74.5	135.5	213.5	281.2	359.2	416.8	450.7	474.4	494.7
30.5	75°	50.8	105.0	172.8	240.6	298.2	342.2	372.7	393.1	410.0
13.6	77.5°	30.5	81.3	142.3	199.9	237.2	271.1	301.6	315.1	325.3
10.2	80°	16.9	61.0	118.6	162.6	186.4	210.1	233.8	250.7	257.5
6.8	82.5°	10.2	47.4	94.9	125.4	135.5	159.3	183.0	193.1	193.1
3.4	85°	6.8	33.9	64.4	91.5	98.3	115.2	122.0	128.8	135.5
3.4	87.5°	6.8	20.3	40.7	50.8	54.2	61.0	64.4	71.2	77.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
106316.0
102822.5
96320.0
86012.4
74857.6
61490.2
46933.4
33623.6
24423.9
17792.7
12086.6
7620.6
4865.8
3425.7
2602.3
2080.5
1745.1
1511.2
1338.4
1206.3
1094.5
1013.1
958.9
904.7
857.3
803.1
735.3
664.1
589.6
491.3
406.6
321.9
250.7
189.8
132.1
74.5
0.0

(END OF REPORT)