

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: P637295

Luminaire Tested: **IFLD-S-SA3C-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17085.3 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

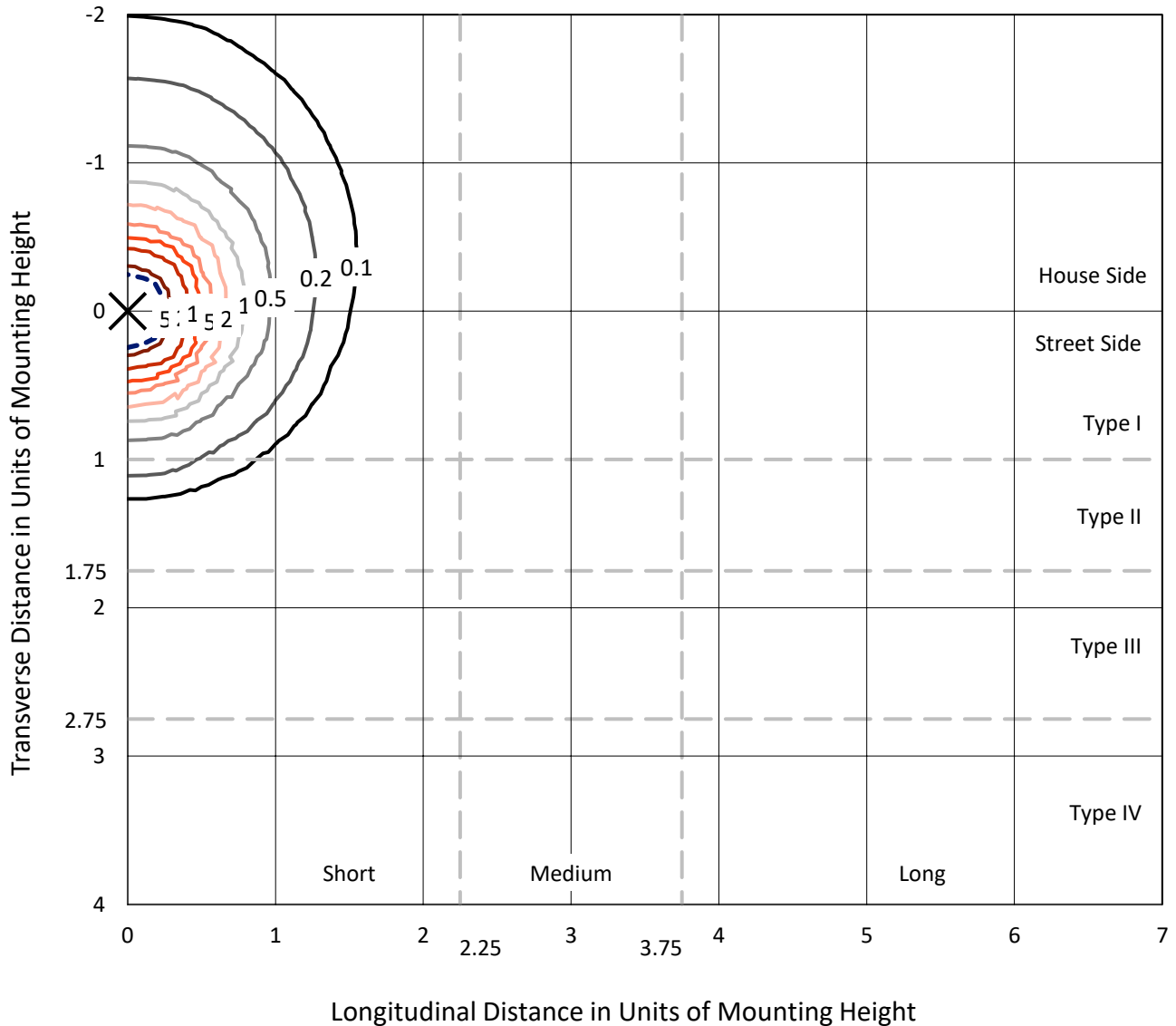
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637295
 CATALOG NUMBER: IFLD-S-SA3C-727-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

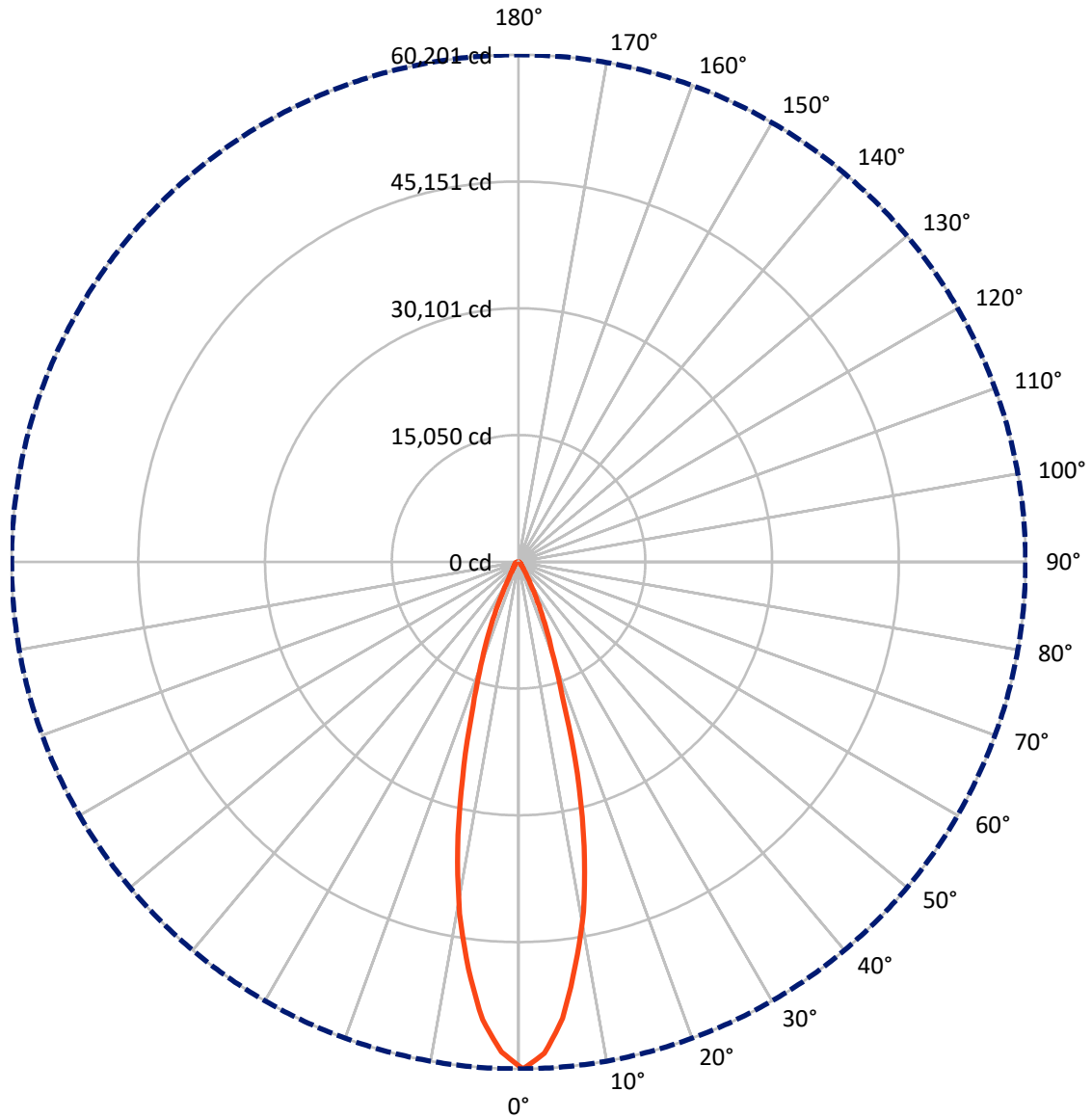
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 150.5 fc
 Type V - Short - N/A

REPORT NUMBER: P637295
CATALOG NUMBER: IFLD-S-SA3C-727-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637295
 CATALOG NUMBER: IFLD-S-SA3C-727-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9008.5	0.0	9008.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8076.8	0.0	8076.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	17085.3	0.0	17085.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4858.8	28.4
10°-20°	7358.6	43.1
20°-30°	3105.4	18.2
30°-40°	809.9	4.7
40°-50°	409.6	2.4
50°-60°	267.8	1.6
60°-70°	160.4	0.9
70°-80°	84.4	0.5
80°-90°	30.5	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°	17085.3	100.0
0°-180°	17085.3	100.0

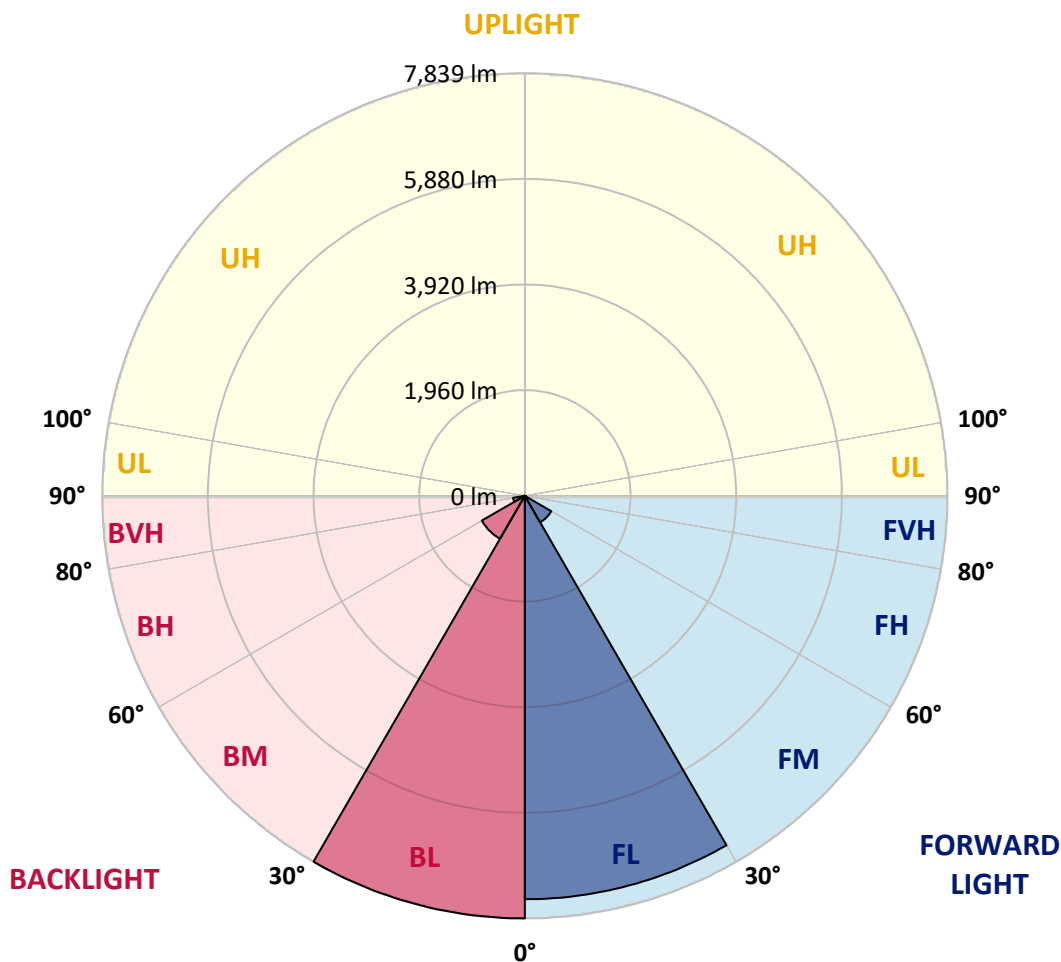


REPORT NUMBER: P637295
 CATALOG NUMBER: IFLD-S-SA3C-727-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7483.3	43.8			
FM (30°-60°)	566.7	3.3			
FH (60°-80°)	23.1	0.1			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	7839.5	45.9	B5		
BM (30°-60°)	920.6	5.4	B1/1000		
BH (60°-80°)	221.7	1.3	B1/500		G0/660
BVH (80°-90°)	26.8	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: P637295
 CATALOG NUMBER: IFLD-S-SA3C-727-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3
2.5°	58447.6	58480.2	58359.3	58620.3	58416.9	58961.8	58691.3	59113.4	58971.4	59207.4
5°	54456.7	54403.0	54368.4	54773.3	54656.2	55241.4	54867.3	54744.5	55124.4	55055.3
7.5°	48430.0	48572.0	48491.4	48597.0	48656.4	49324.2	49535.2	49370.2	49376.0	49471.9
10°	42251.8	42042.7	41745.3	41942.9	42361.2	42652.8	42535.8	42777.5	42723.8	42952.1
12.5°	34649.9	34814.9	34648.0	34471.5	35202.5	35121.9	35325.3	35457.7	35125.7	35864.4
15°	26100.1	26186.5	26389.9	26376.4	26938.6	27051.8	27025.0	27165.0	26906.0	27028.8
17.5°	16767.6	17059.2	17606.0	18530.9	19570.8	19691.7	19661.0	19545.8	19421.1	19283.0
20°	11262.8	11232.1	11429.7	11700.3	13853.1	14422.9	14405.6	14044.9	13523.0	13423.3
22.5°	7889.7	7947.3	7920.4	8189.0	8634.2	10205.6	10011.8	9645.3	9474.6	9363.3
25°	5190.1	5169.0	5303.3	5383.9	5765.7	5957.6	6636.8	6500.6	6237.7	6266.5
27.5°	3163.9	3190.8	3240.7	3309.8	3580.3	3518.9	3906.5	3958.3	3873.9	3783.7
30°	1941.7	1960.9	2001.2	2051.1	2145.1	2078.0	2185.4	2371.5	2340.8	2277.5
32.5°	1318.2	1320.1	1348.8	1368.0	1356.5	1293.2	1327.7	1504.3	1508.1	1502.3
35°	947.8	947.8	974.7	990.1	957.4	905.6	911.4	1020.8	1068.7	1078.3
37.5°	654.3	656.2	702.2	748.3	711.8	698.4	675.4	748.3	825.0	836.6
40°	496.9	495.0	518.1	552.6	556.4	531.5	539.2	585.2	663.9	673.5
42.5°	402.9	404.8	416.4	412.5	414.4	447.1	458.6	479.7	552.6	569.9
45°	339.6	341.5	347.3	328.1	320.4	370.3	385.7	397.2	458.6	479.7
47.5°	280.1	284.0	289.7	268.6	264.8	297.4	324.3	335.8	389.5	412.5
50°	201.5	205.3	226.4	214.9	226.4	234.1	270.5	287.8	324.3	355.0
52.5°	145.8	149.7	155.4	157.3	186.1	190.0	216.8	243.7	260.9	295.5
55°	115.1	119.0	115.1	111.3	136.2	157.3	166.9	195.7	209.1	249.4
57.5°	65.2	69.1	74.8	86.3	90.2	120.9	130.5	155.4	166.9	205.3
60°	11.5	13.4	21.1	51.8	63.3	76.7	97.9	119.0	134.3	161.2
62.5°	1.9	1.9	3.8	11.5	36.5	53.7	71.0	84.4	97.9	122.8
65°	0.0	0.0	1.9	3.8	9.6	30.7	38.4	49.9	67.2	88.3
67.5°	0.0	0.0	1.9	3.8	5.8	11.5	17.3	30.7	38.4	59.5
70°	0.0	0.0	1.9	3.8	5.8	7.7	9.6	13.4	23.0	36.5
72.5°	0.0	0.0	1.9	3.8	5.8	7.7	9.6	11.5	11.5	23.0
75°	0.0	0.0	1.9	3.8	5.8	9.6	11.5	11.5	9.6	9.6
77.5°	0.0	0.0	1.9	3.8	7.7	11.5	13.4	11.5	7.7	7.7
80°	0.0	0.0	3.8	5.8	9.6	13.4	17.3	13.4	7.7	3.8
82.5°	0.0	0.0	3.8	7.7	9.6	15.3	21.1	17.3	7.7	3.8
85°	0.0	0.0	1.9	5.8	11.5	15.3	21.1	15.3	7.7	1.9
87.5°	0.0	0.0	1.9	1.9	3.8	5.8	11.5	9.6	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637295
 CATALOG NUMBER: IFLD-S-SA3C-727-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
60201.3	0°	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3	60201.3
58760.3	2.5°	59098.0	59405.0	59468.3	59383.9	59506.7	59286.1	59117.2	58679.8	58416.9
55034.2	5°	55389.2	55343.1	55663.6	55769.1	55755.7	55586.8	55350.8	55086.0	54828.9
49285.8	7.5°	49592.8	49652.3	49943.9	50130.0	50036.0	49824.9	49661.8	49462.3	49289.6
43034.6	10°	43428.0	43019.3	43381.9	43381.9	43633.3	43036.6	43092.2	42589.5	42612.5
35851.0	12.5°	35973.8	36121.5	36181.0	36351.8	36058.2	35741.6	35354.1	35277.3	35037.5
26794.7	15°	27180.4	27602.5	27239.9	27859.6	27560.3	27230.3	27170.8	26576.0	26764.0
19434.6	17.5°	19338.6	19804.9	19950.7	20305.7	20033.2	19837.5	19590.0	19409.6	19396.2
13605.5	20°	13713.0	14181.1	14288.6	14714.5	14683.9	14622.5	14413.3	14185.0	13937.5
9261.6	22.5°	9401.7	9783.5	10140.4	10714.0	10704.5	10524.1	10503.0	10180.6	10186.4
6256.9	25°	6322.1	6600.3	6684.8	7271.9	7337.1	7317.9	7208.6	6909.3	7022.5
3822.1	27.5°	3825.9	4069.6	4355.5	4562.7	4758.4	4727.7	4618.3	4451.4	4378.5
2296.7	30°	2358.1	2467.5	2573.0	2822.4	2939.5	3000.9	2949.0	2793.6	2805.1
1511.9	32.5°	1544.6	1636.7	1713.4	1870.7	1932.1	2045.3	2024.2	1991.6	1953.2
1087.9	35°	1126.3	1193.4	1245.2	1318.2	1396.8	1492.8	1508.1	1494.7	1479.3
840.4	37.5°	859.6	928.7	988.1	1018.8	1080.2	1155.1	1197.3	1195.4	1183.8
685.0	40°	698.4	750.2	803.9	844.2	886.4	942.1	993.9	999.6	999.6
575.6	42.5°	583.3	627.4	681.1	723.4	754.1	805.9	859.6	863.4	859.6
487.4	45°	498.9	537.2	589.0	638.9	663.9	702.2	754.1	765.6	757.9
418.3	47.5°	433.6	468.2	512.3	566.0	592.9	627.4	675.4	688.8	686.9
360.7	50°	372.2	412.5	456.7	500.8	535.3	567.9	614.0	629.3	623.6
307.0	52.5°	328.1	364.6	402.9	450.9	491.2	520.0	556.4	583.3	575.6
259.0	55°	274.4	318.5	358.8	399.1	449.0	479.7	514.2	546.8	539.2
218.7	57.5°	237.9	274.4	320.4	356.9	406.8	443.2	477.8	512.3	510.4
178.4	60°	199.5	237.9	282.0	320.4	366.5	406.8	441.3	479.7	483.5
134.3	62.5°	157.3	203.4	241.8	285.9	331.9	376.1	406.8	445.1	450.9
101.7	65°	119.0	166.9	209.1	251.4	297.4	345.4	372.2	404.8	410.6
74.8	67.5°	88.3	128.6	178.4	216.8	264.8	310.8	335.8	362.6	372.2
46.0	70°	67.2	97.9	149.7	186.1	236.0	272.5	299.3	322.3	330.0
30.7	72.5°	42.2	76.7	120.9	159.3	203.4	236.0	255.2	268.6	280.1
17.3	75°	28.8	59.5	97.9	136.2	168.8	193.8	211.1	222.6	232.2
7.7	77.5°	17.3	46.0	80.6	113.2	134.3	153.5	170.8	178.4	184.2
5.8	80°	9.6	34.5	67.2	92.1	105.5	119.0	132.4	142.0	145.8
3.8	82.5°	5.8	26.9	53.7	71.0	76.7	90.2	103.6	109.4	109.4
1.9	85°	3.8	19.2	36.5	51.8	55.6	65.2	69.1	72.9	76.7
1.9	87.5°	3.8	11.5	23.0	28.8	30.7	34.5	36.5	40.3	44.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
60201.3
58223.1
54541.1
48704.4
42388.0
34818.7
26576.0
19039.3
13830.0
10075.1
6844.0
4315.2
2755.3
1939.8
1473.6
1178.1
988.1
855.7
757.9
683.1
619.7
573.7
543.0
512.3
485.4
454.7
416.4
376.1
333.9
278.2
230.2
182.3
142.0
107.4
74.8
42.2
0.0

(END OF REPORT)