

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: P637300

Luminaire Tested: **IFLD-S-SA6C-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637300
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33515.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

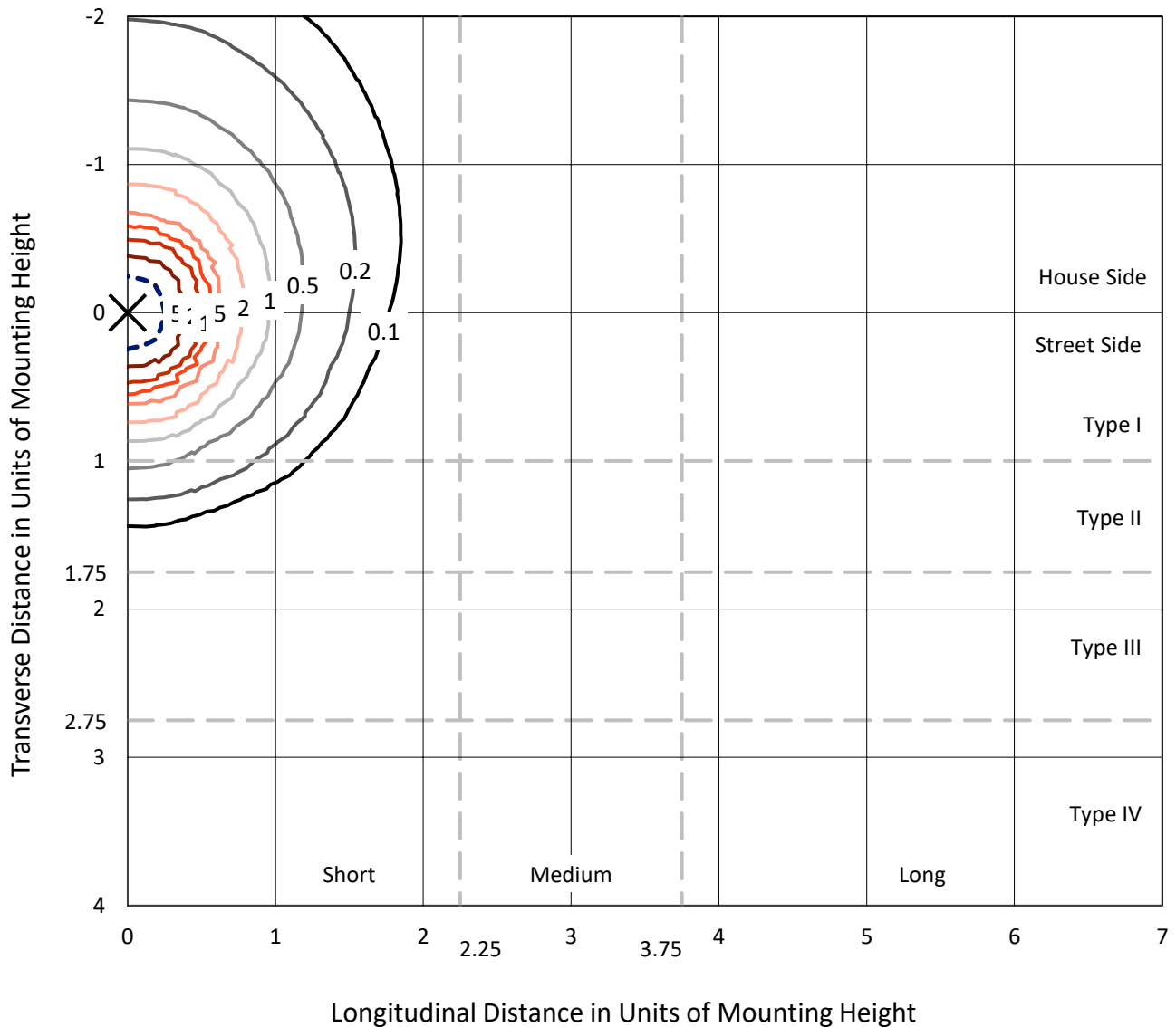
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637300
 CATALOG NUMBER: IFLD-S-SA6C-727-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

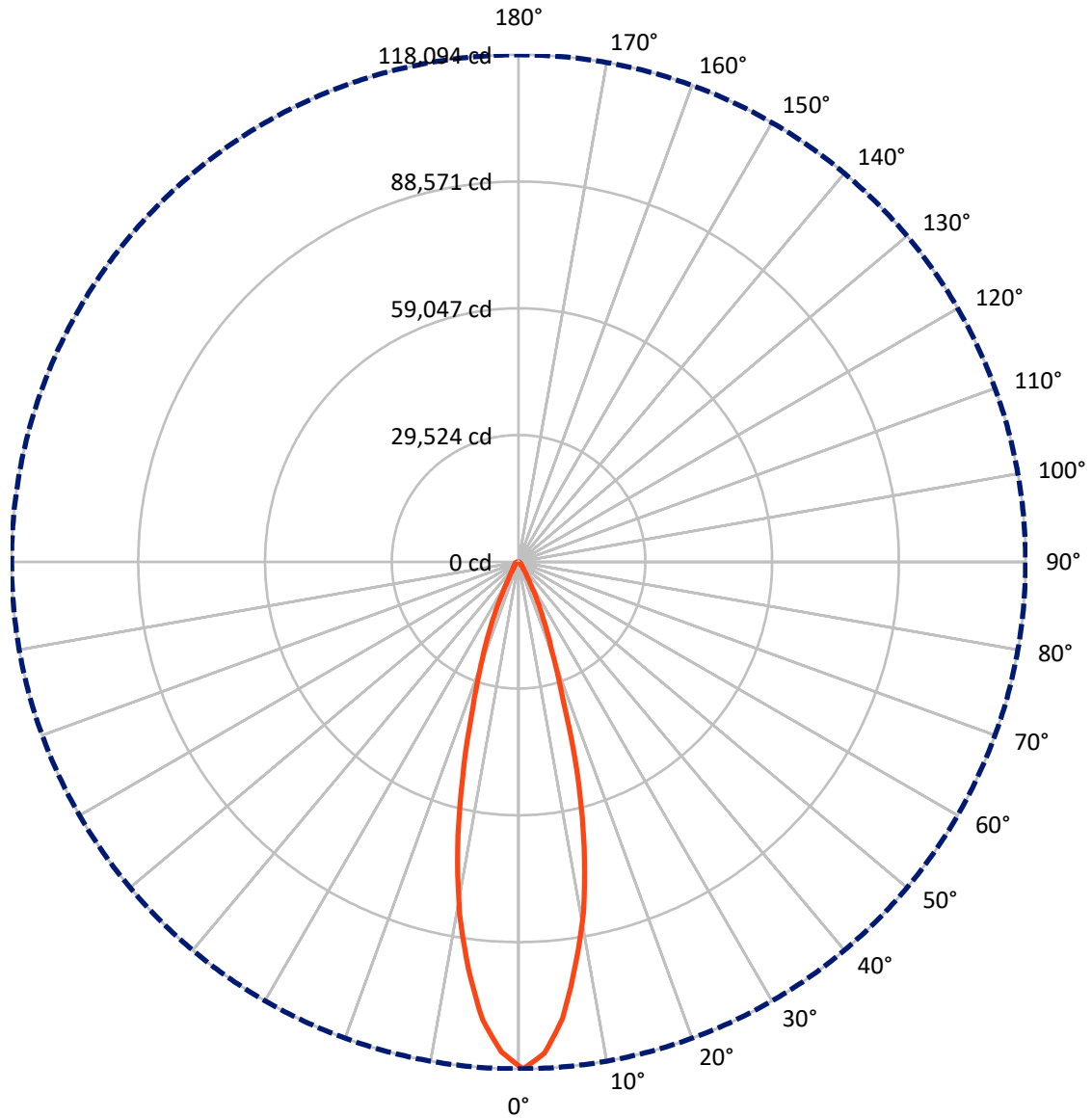
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 295.2 fc
 Type V - Short - N/A

REPORT NUMBER: P637300
CATALOG NUMBER: IFLD-S-SA6C-727-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637300
 CATALOG NUMBER: IFLD-S-SA6C-727-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17671.7	0.0	17671.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15843.9	0.0	15843.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	33515.6	0.0	33515.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9531.3	28.4
10°-20°	14435.0	43.1
20°-30°	6091.7	18.2
30°-40°	1588.8	4.7
40°-50°	803.6	2.4
50°-60°	525.2	1.6
60°-70°	314.7	0.9
70°-80°	165.5	0.5
80°-90°	59.8	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°	33515.6	100.0
0°-180°	33515.6	100.0

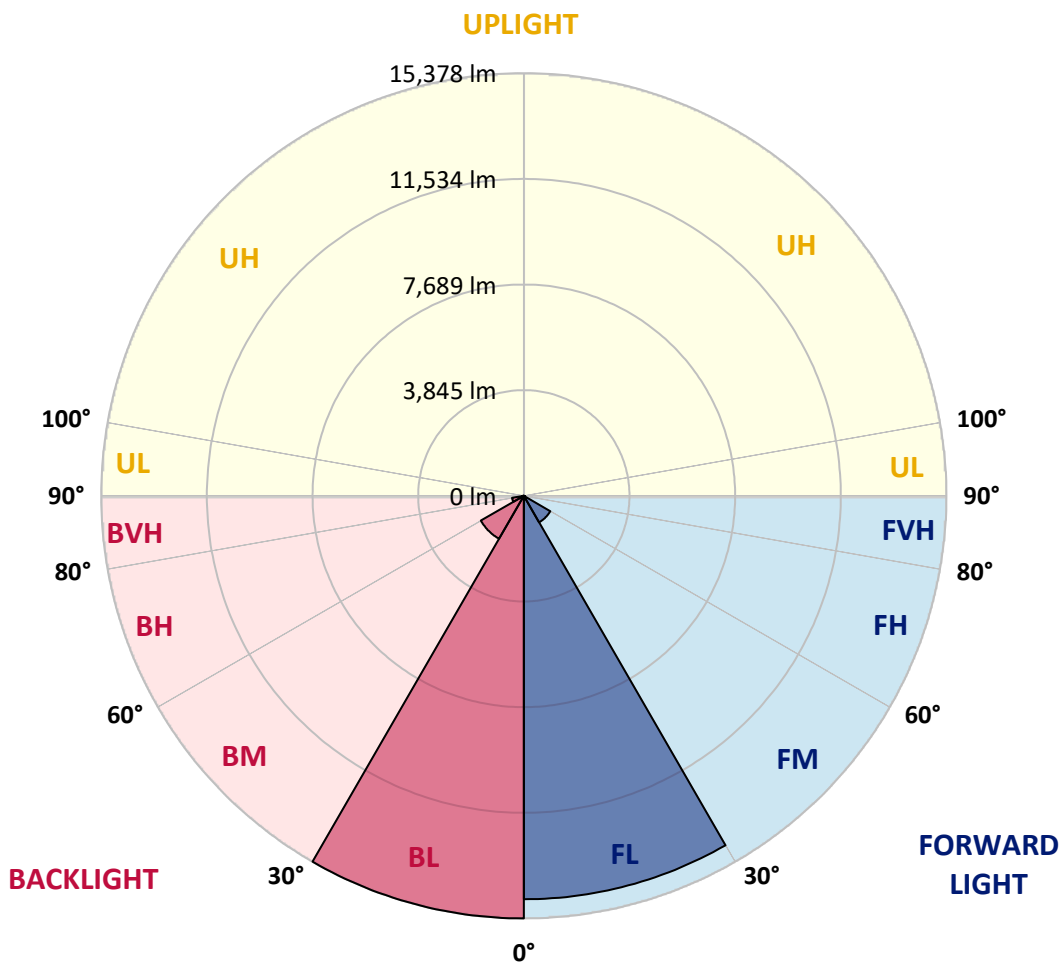


REPORT NUMBER: P637300
 CATALOG NUMBER: IFLD-S-SA6C-727-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14679.6	43.8			
FM (30°-60°)	1111.7	3.3			
FH (60°-80°)	45.3	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15378.4	45.9	B5		
BM (30°-60°)	1805.9	5.4	B2/2500		
BH (60°-80°)	434.9	1.3	B1/500		G0/660
BVH (80°-90°)	52.5	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: P637300
 CATALOG NUMBER: IFLD-S-SA6C-727-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4
2.5°	114654.2	114718.2	114481.1	114993.0	114594.0	115663.0	115132.3	115960.3	115681.8	116144.7
5°	106825.5	106720.1	106652.3	107446.5	107216.9	108364.9	107630.9	107390.0	108135.3	107999.8
7.5°	95003.2	95281.7	95123.7	95330.7	95447.3	96757.2	97171.2	96847.5	96858.8	97047.0
10°	82883.6	82473.4	81890.0	82277.7	83098.2	83670.3	83440.7	83914.9	83809.5	84257.4
12.5°	67971.3	68295.0	67967.5	67621.2	69055.3	68897.2	69296.2	69555.9	68904.7	70353.8
15°	51199.6	51369.0	51767.9	51741.6	52844.4	53066.5	53013.8	53288.5	52780.4	53021.3
17.5°	32892.2	33464.3	34537.0	36351.2	38391.2	38628.3	38568.1	38342.3	38097.6	37826.6
20°	22093.8	22033.5	22421.2	22951.9	27175.0	28292.8	28258.9	27551.3	26527.6	26331.9
22.5°	15476.9	15589.8	15537.2	16064.1	16937.3	20019.9	19639.7	18920.8	18585.9	18367.6
25°	10181.2	10139.8	10403.3	10561.3	11310.4	11686.7	13019.1	12751.9	12236.3	12292.7
27.5°	6206.6	6259.3	6357.1	6492.6	7023.3	6902.9	7663.2	7764.8	7599.2	7422.3
30°	3809.0	3846.6	3925.7	4023.6	4208.0	4076.2	4287.0	4652.1	4591.9	4467.7
32.5°	2585.8	2589.5	2646.0	2683.6	2661.0	2536.8	2604.6	2950.9	2958.4	2947.1
35°	1859.3	1859.3	1912.0	1942.1	1878.2	1776.5	1787.8	2002.4	2096.5	2115.3
37.5°	1283.5	1287.2	1377.6	1467.9	1396.4	1370.0	1324.9	1467.9	1618.5	1641.0
40°	974.8	971.1	1016.2	1084.0	1091.5	1042.6	1057.6	1148.0	1302.3	1321.1
42.5°	790.4	794.2	816.8	809.2	813.0	877.0	899.6	941.0	1084.0	1117.9
45°	666.2	670.0	681.3	643.6	628.6	726.4	756.5	779.1	899.6	941.0
47.5°	549.5	557.0	568.3	526.9	519.4	583.4	636.1	658.7	764.1	809.2
50°	395.2	402.7	444.1	421.6	444.1	459.2	530.7	564.6	636.1	696.3
52.5°	286.1	293.6	304.9	308.6	365.1	372.6	425.3	478.0	511.9	579.6
55°	225.8	233.4	225.8	218.3	267.2	308.6	327.5	383.9	410.3	489.3
57.5°	128.0	135.5	146.8	169.4	176.9	237.1	255.9	304.9	327.5	402.7
60°	22.6	26.3	41.4	101.6	124.2	150.6	192.0	233.4	263.5	316.2
62.5°	3.8	3.8	7.5	22.6	71.5	105.4	139.3	165.6	192.0	240.9
65°	0.0	0.0	3.8	7.5	18.8	60.2	75.3	97.9	131.7	173.1
67.5°	0.0	0.0	3.8	7.5	11.3	22.6	33.9	60.2	75.3	116.7
70°	0.0	0.0	3.8	7.5	11.3	15.1	18.8	26.3	45.2	71.5
72.5°	0.0	0.0	3.8	7.5	11.3	15.1	18.8	22.6	22.6	45.2
75°	0.0	0.0	3.8	7.5	11.3	18.8	22.6	22.6	18.8	18.8
77.5°	0.0	0.0	3.8	7.5	15.1	22.6	26.3	22.6	15.1	15.1
80°	0.0	0.0	7.5	11.3	18.8	26.3	33.9	26.3	15.1	7.5
82.5°	0.0	0.0	7.5	15.1	18.8	30.1	41.4	33.9	15.1	7.5
85°	0.0	0.0	3.8	11.3	22.6	30.1	41.4	30.1	15.1	3.8
87.5°	0.0	0.0	3.8	3.8	7.5	11.3	22.6	18.8	7.5	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637300
 CATALOG NUMBER: IFLD-S-SA6C-727-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
118094.4	0°	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4	118094.4
115267.8	2.5°	115930.2	116532.4	116656.6	116491.0	116731.9	116299.1	115967.8	115109.7	114594.0
107958.4	5°	108654.7	108564.3	109192.9	109399.9	109373.6	109042.4	108579.4	108060.0	107555.6
96681.9	7.5°	97284.1	97400.8	97972.9	98338.0	98153.6	97739.5	97419.6	97028.2	96689.4
84419.3	10°	85190.9	84389.2	85100.5	85100.5	85593.6	84423.0	84532.2	83546.1	83591.2
70327.4	12.5°	70568.3	70858.1	70974.8	71309.8	70733.9	70112.9	69352.6	69202.1	68731.6
52562.1	15°	53318.6	54146.7	53435.3	54651.0	54063.9	53416.5	53299.8	52133.0	52501.9
38124.0	17.5°	37935.8	38850.4	39136.5	39832.8	39298.3	38914.4	38428.9	38075.1	38048.7
26689.4	20°	26900.2	27818.6	28029.4	28864.9	28804.7	28684.3	28274.0	27826.1	27340.6
18168.1	22.5°	18442.8	19191.8	19891.9	21017.3	20998.5	20644.7	20603.3	19971.0	19982.3
12273.9	25°	12401.9	12947.6	13113.2	14265.0	14392.9	14355.3	14140.8	13553.6	13775.7
7497.6	27.5°	7505.1	7983.1	8543.9	8950.4	9334.3	9274.1	9059.6	8732.1	8589.1
4505.3	30°	4625.8	4840.3	5047.3	5536.6	5766.2	5886.7	5785.0	5480.2	5502.7
2965.9	32.5°	3029.9	3210.6	3361.1	3669.7	3790.2	4012.3	3970.9	3906.9	3831.6
2134.1	35°	2209.4	2341.1	2442.7	2585.8	2740.1	2928.3	2958.4	2932.0	2901.9
1648.6	37.5°	1686.2	1821.7	1938.4	1998.6	2119.0	2265.8	2348.6	2344.9	2322.3
1343.7	40°	1370.0	1471.7	1577.1	1656.1	1738.9	1848.0	1949.7	1961.0	1961.0
1129.2	42.5°	1144.2	1230.8	1336.2	1419.0	1479.2	1580.8	1686.2	1693.7	1686.2
956.0	45°	978.6	1053.9	1155.5	1253.4	1302.3	1377.6	1479.2	1501.8	1486.7
820.5	47.5°	850.6	918.4	1004.9	1110.3	1163.0	1230.8	1324.9	1351.2	1347.5
707.6	50°	730.2	809.2	895.8	982.4	1050.1	1114.1	1204.4	1234.5	1223.2
602.2	52.5°	643.6	715.1	790.4	884.5	963.5	1020.0	1091.5	1144.2	1129.2
508.1	55°	538.2	624.8	703.8	782.9	880.7	941.0	1008.7	1072.7	1057.6
429.1	57.5°	466.7	538.2	628.6	700.1	797.9	869.4	937.2	1004.9	1001.2
350.0	60°	391.4	466.7	553.3	628.6	718.9	797.9	865.7	941.0	948.5
263.5	62.5°	308.6	399.0	474.2	560.8	651.1	737.7	797.9	873.2	884.5
199.5	65°	233.4	327.5	410.3	493.1	583.4	677.5	730.2	794.2	805.5
146.8	67.5°	173.1	252.2	350.0	425.3	519.4	609.7	658.7	711.4	730.2
90.3	70°	131.7	192.0	293.6	365.1	463.0	534.5	587.2	632.3	647.4
60.2	72.5°	82.8	150.6	237.1	312.4	399.0	463.0	500.6	526.9	549.5
33.9	75°	56.5	116.7	192.0	267.2	331.2	380.1	414.0	436.6	455.4
15.1	77.5°	33.9	90.3	158.1	222.1	263.5	301.1	335.0	350.0	361.3
11.3	80°	18.8	67.7	131.7	180.7	207.0	233.4	259.7	278.5	286.1
7.5	82.5°	11.3	52.7	105.4	139.3	150.6	176.9	203.2	214.5	214.5
3.8	85°	7.5	37.6	71.5	101.6	109.2	128.0	135.5	143.0	150.6
3.8	87.5°	7.5	22.6	45.2	56.5	60.2	67.7	71.5	79.0	86.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
118094.4
114213.9
106991.1
95541.4
83150.9
68302.5
52133.0
37348.6
27129.8
19764.0
13425.6
8464.9
5404.9
3805.2
2890.6
2311.0
1938.4
1678.7
1486.7
1339.9
1215.7
1125.4
1065.2
1004.9
952.3
892.0
816.8
737.7
654.9
545.8
451.7
357.6
278.5
210.8
146.8
82.8
0.0

(END OF REPORT)