

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: P637818

Luminaire Tested: **IFLD-S-SA3D-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637818
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16435.6 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

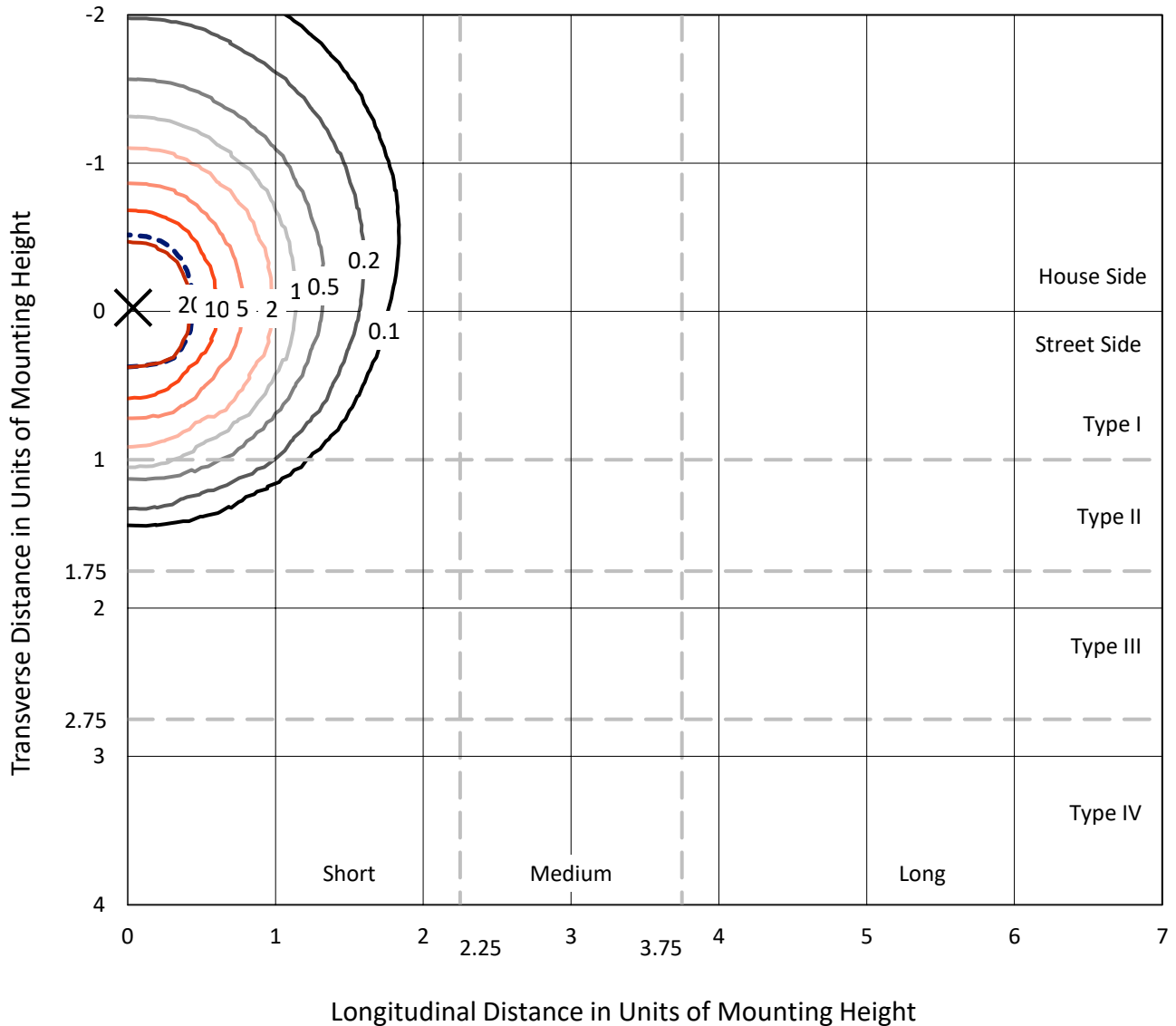
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637818
 CATALOG NUMBER: IFLD-S-SA3D-727-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

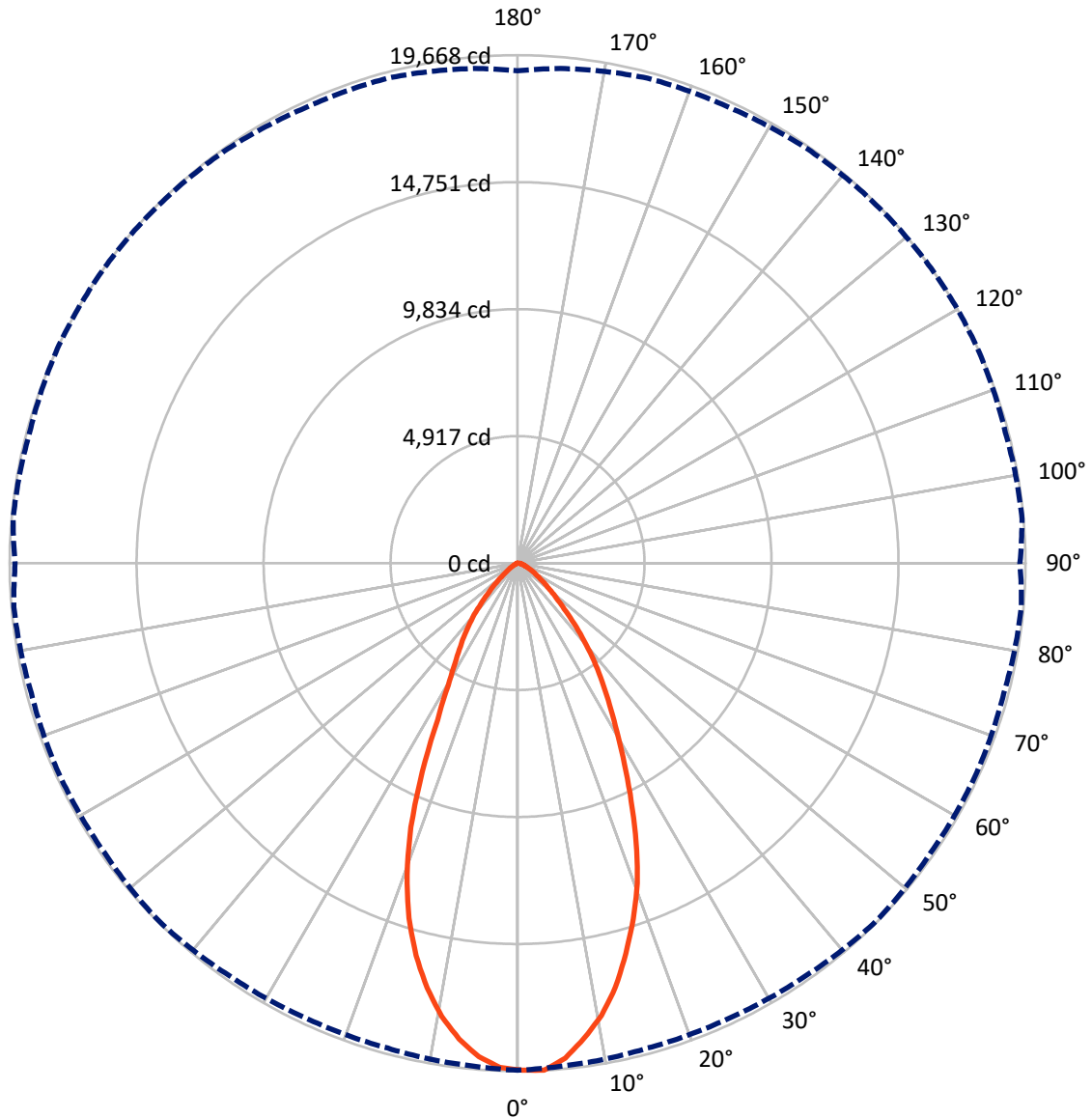
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.1 fc
 Type I - Short - N/A

REPORT NUMBER: P637818
CATALOG NUMBER: IFLD-S-SA3D-727-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P637818

CATALOG NUMBER: IFLD-S-SA3D-727-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9326.2	0.0	9326.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	7109.4	0.0	7109.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	16435.6	0.0	16435.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1783.1	10.8
10°-20°	4250.4	25.9
20°-30°	4329.0	26.3
30°-40°	3228.1	19.6
40°-50°	1686.5	10.3
50°-60°	709.3	4.3
60°-70°	289.7	1.8
70°-80°	121.9	0.7
80°-90°	37.6	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°	16435.6	100.0
0°-180°	16435.6	100.0



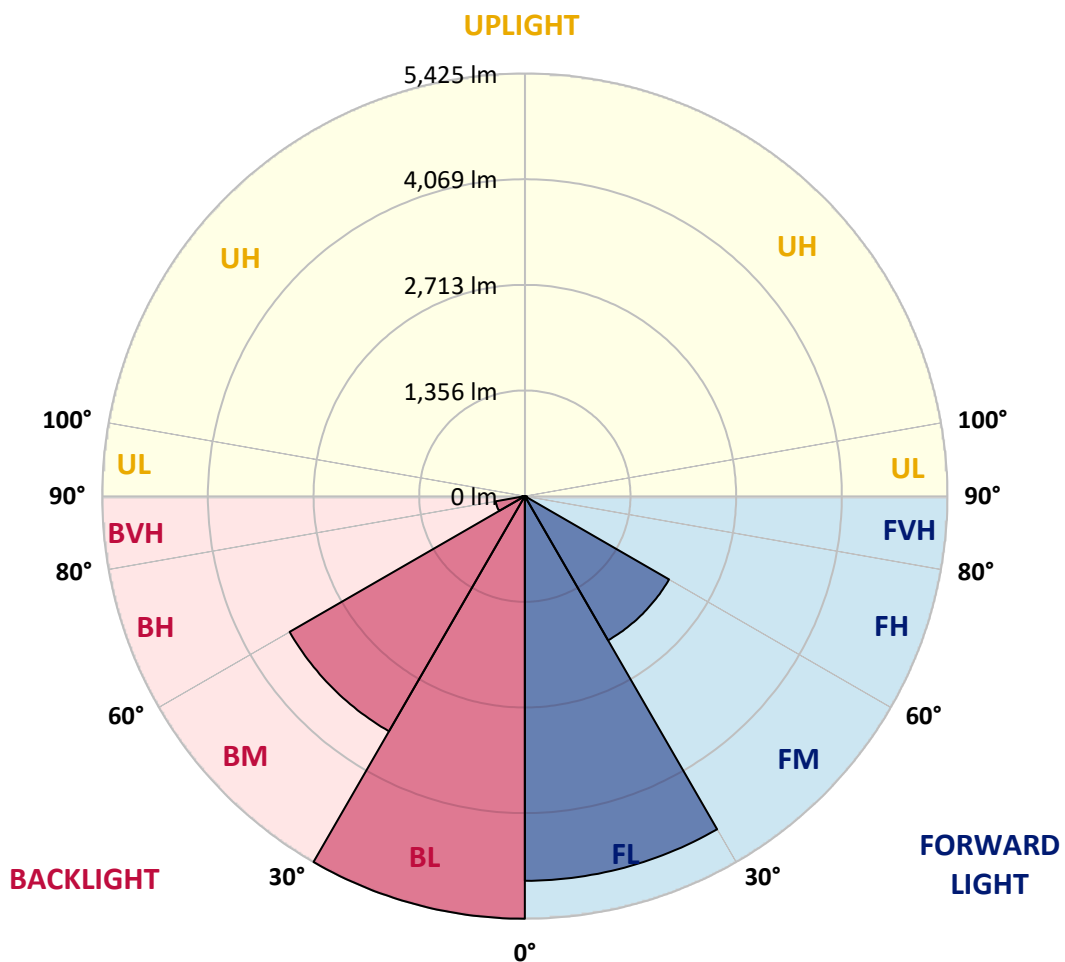
REPORT NUMBER: P637818
 CATALOG NUMBER: IFLD-S-SA3D-727-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4937.5	30.0			
FM (30°-60°)	2137.5	13.0			
FH (60°-80°)	30.9	0.2			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	5425.1	33.0	B5		
BM (30°-60°)	3486.4	21.2	B3/5000		
BH (60°-80°)	380.7	2.3	B1/500		G1/500
BVH (80°-90°)	34.1	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 I Short





REPORT NUMBER: P637818
 CATALOG NUMBER: IFLD-S-SA3D-727-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6
2.5°	19638.7	19558.4	19444.4	19433.9	19493.0	19621.8	19539.4	19543.7	19493.0	19579.6
5°	19330.4	19254.4	19176.3	19072.9	19159.4	19214.3	19172.1	19125.6	19060.2	19144.6
7.5°	18747.7	18705.5	18589.4	18542.9	18595.7	18657.0	18566.2	18553.5	18462.7	18572.5
10°	17856.8	17839.9	17725.9	17698.5	17744.9	17837.8	17797.7	17789.2	17732.2	17721.7
12.5°	16932.1	16866.6	16725.2	16716.7	16786.4	16925.7	16818.1	16714.6	16746.3	16773.7
15°	14550.6	14480.9	14831.4	15382.4	15671.7	15661.1	15692.8	15568.2	15530.2	15542.9
17.5°	11567.4	11449.2	11575.9	12428.8	13803.2	14601.3	14381.7	14113.6	13970.0	13875.0
20°	9984.0	9990.3	9967.1	10186.7	11043.9	12863.7	12811.0	12293.7	12105.8	12027.7
22.5°	9021.3	8985.4	8934.7	9004.4	9234.5	10302.8	11018.5	10543.5	10478.0	10391.5
25°	8077.6	8077.6	8016.3	8086.0	8151.5	8166.2	8884.1	9078.3	8951.6	8951.6
27.5°	7260.5	7218.3	7190.9	7222.5	7136.0	6720.0	6810.8	7805.2	7718.7	7665.9
30°	6449.8	6437.1	6390.7	6432.9	6112.0	5643.3	5453.3	6587.0	6677.8	6658.8
32.5°	5324.5	5375.2	5582.1	5647.5	5098.6	4720.7	4539.1	5468.1	5831.2	5816.4
35°	3618.7	3660.9	3897.3	4678.5	4226.7	3956.4	3903.7	4349.1	4946.6	5003.6
37.5°	2881.8	2875.5	2943.1	3082.4	3397.0	3331.5	3316.7	3432.9	4034.6	4059.9
40°	2375.1	2366.7	2364.6	2250.6	2172.5	2769.9	2729.8	2660.2	3181.6	3232.3
42.5°	1914.9	1923.3	1929.7	1680.5	1566.5	2136.6	2113.3	2041.6	2495.5	2554.6
45°	1503.2	1501.1	1513.8	1252.0	1220.3	1366.0	1579.2	1522.2	1883.2	1946.6
47.5°	779.0	806.5	977.5	969.1	983.8	969.1	1195.0	1180.2	1416.6	1518.0
50°	523.6	532.0	546.8	548.9	774.8	713.6	810.7	918.4	992.3	1148.5
52.5°	405.4	411.7	373.7	350.5	475.0	527.8	532.0	635.5	692.5	850.8
55°	225.9	253.3	272.3	274.5	261.8	390.6	388.5	470.8	515.1	620.7
57.5°	29.6	35.9	54.9	177.3	175.2	217.5	272.3	342.0	367.4	453.9
60°	2.1	4.2	6.3	27.4	116.1	126.7	185.8	213.2	255.5	318.8
62.5°	0.0	0.0	2.1	6.3	23.2	73.9	97.1	111.9	149.9	209.0
65°	0.0	0.0	2.1	4.2	8.4	27.4	38.0	61.2	88.7	128.8
67.5°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	27.4	46.4	78.1
70°	0.0	0.0	2.1	4.2	6.3	8.4	12.7	16.9	25.3	42.2
72.5°	0.0	0.0	2.1	2.1	4.2	10.6	10.6	12.7	16.9	23.2
75°	0.0	0.0	2.1	4.2	6.3	10.6	10.6	10.6	12.7	14.8
77.5°	0.0	0.0	2.1	4.2	6.3	10.6	8.4	10.6	10.6	10.6
80°	0.0	0.0	2.1	4.2	6.3	10.6	12.7	10.6	8.4	8.4
82.5°	0.0	0.0	2.1	6.3	6.3	14.8	14.8	14.8	6.3	6.3
85°	0.0	0.0	4.2	6.3	10.6	16.9	16.9	12.7	6.3	4.2
87.5°	0.0	0.0	2.1	4.2	4.2	8.4	12.7	10.6	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637818

CATALOG NUMBER: IFLD-S-SA3D-727-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
19636.6	0°	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6	19636.6
19452.9	2.5°	19609.1	19556.3	19655.6	19668.2	19626.0	19573.2	19450.8	19440.2	19227.0
19022.2	5°	19237.5	19151.0	19214.3	19256.5	19241.8	19184.8	19134.1	19087.6	18895.5
18323.4	7.5°	18545.1	18513.4	18542.9	18574.6	18635.8	18574.6	18553.5	18504.9	18314.9
17635.1	10°	17776.6	17717.5	17829.3	17814.6	17797.7	17780.8	17692.1	17700.6	17476.8
16697.7	12.5°	16832.8	16733.6	16841.3	16854.0	16841.3	16782.2	16683.0	16725.2	16520.4
15431.0	15°	15564.0	15553.4	15631.6	15682.2	15718.1	15654.8	15621.0	15642.1	15519.7
13801.1	17.5°	14005.9	14143.1	14398.6	14485.2	14487.3	14552.7	14533.7	14508.4	14417.6
11996.0	20°	12173.4	12437.3	12830.0	13233.2	13349.3	13294.4	13269.1	13315.5	13180.4
10300.7	22.5°	10482.3	10708.2	11164.2	11753.2	12093.1	12126.9	12120.6	12080.5	12027.7
8943.2	25°	9046.6	9247.2	9684.2	10222.6	10875.0	10972.1	10976.3	10963.6	10917.2
7712.3	27.5°	7834.8	8077.6	8318.3	8799.6	9494.2	9895.3	9844.7	9829.9	9813.0
6673.6	30°	6736.9	7043.1	7269.0	7568.8	8191.6	8734.2	8786.9	8761.6	8721.5
5814.3	32.5°	5867.1	6048.7	6335.8	6538.5	6986.1	7600.4	7803.1	7784.1	7748.2
5039.5	35°	5111.3	5183.1	5409.0	5634.9	5932.6	6527.9	6827.7	6785.5	6779.2
4106.3	37.5°	4209.8	4450.5	4575.0	4803.1	5012.1	5474.4	5888.2	5869.2	5871.3
3302.0	40°	3399.1	3538.4	3785.4	3977.6	4169.7	4507.5	4967.7	4980.4	4976.2
2556.7	42.5°	2609.5	2744.6	3004.3	3213.3	3384.3	3593.3	4032.5	4047.2	4066.2
1990.9	45°	2037.3	2123.9	2313.9	2531.4	2712.9	2839.6	3173.2	3268.2	3270.3
1543.3	47.5°	1581.3	1680.5	1815.7	2024.7	2202.0	2292.8	2535.6	2664.4	2658.0
1184.4	50°	1241.4	1332.2	1442.0	1606.6	1798.8	1870.6	2050.0	2176.7	2170.3
893.1	52.5°	950.1	1066.2	1163.3	1290.0	1477.9	1539.1	1667.9	1813.5	1792.4
654.5	55°	719.9	838.2	928.9	1034.5	1205.5	1283.6	1372.3	1488.4	1492.6
506.7	57.5°	542.6	665.0	747.4	855.0	983.8	1070.4	1138.0	1262.5	1260.4
346.2	60°	388.5	494.0	593.3	705.2	804.4	903.6	950.1	1068.3	1072.5
244.9	62.5°	280.8	380.0	475.0	572.1	660.8	757.9	800.2	893.1	905.7
160.5	65°	196.3	266.0	375.8	449.7	548.9	620.7	675.6	755.8	770.6
95.0	67.5°	126.7	192.1	297.7	363.1	453.9	515.1	572.1	635.5	654.5
61.2	70°	76.0	145.7	221.7	291.3	373.7	428.6	483.5	538.4	548.9
29.6	72.5°	48.6	101.3	160.5	236.5	299.8	358.9	407.5	447.6	415.9
19.0	75°	27.4	69.7	126.7	185.8	242.8	299.8	339.9	361.0	289.2
12.7	77.5°	16.9	50.7	103.5	149.9	187.9	240.7	266.0	278.7	206.9
8.4	80°	10.6	38.0	86.6	122.5	122.5	177.3	206.9	217.5	149.9
6.3	82.5°	8.4	27.4	67.6	92.9	82.3	133.0	162.6	164.7	105.6
4.2	85°	6.3	21.1	42.2	61.2	57.0	92.9	95.0	105.6	69.7
4.2	87.5°	4.2	12.7	25.3	35.9	31.7	44.3	50.7	57.0	38.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19636.6
19060.2
18741.4
18274.8
17400.8
16461.3
15371.9
14282.5
13083.3
11926.3
10760.9
9713.8
8670.8
7653.2
6709.5
5803.8
4902.3
4002.9
3215.4
2634.8
2170.3
1794.5
1492.6
1256.2
1061.9
901.5
766.4
652.4
540.5
386.4
274.5
194.2
139.3
97.1
63.3
33.8
0.0

(END OF REPORT)