

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: P637037

Luminaire Tested: **IFLD-S-SA6A-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637037
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22447.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

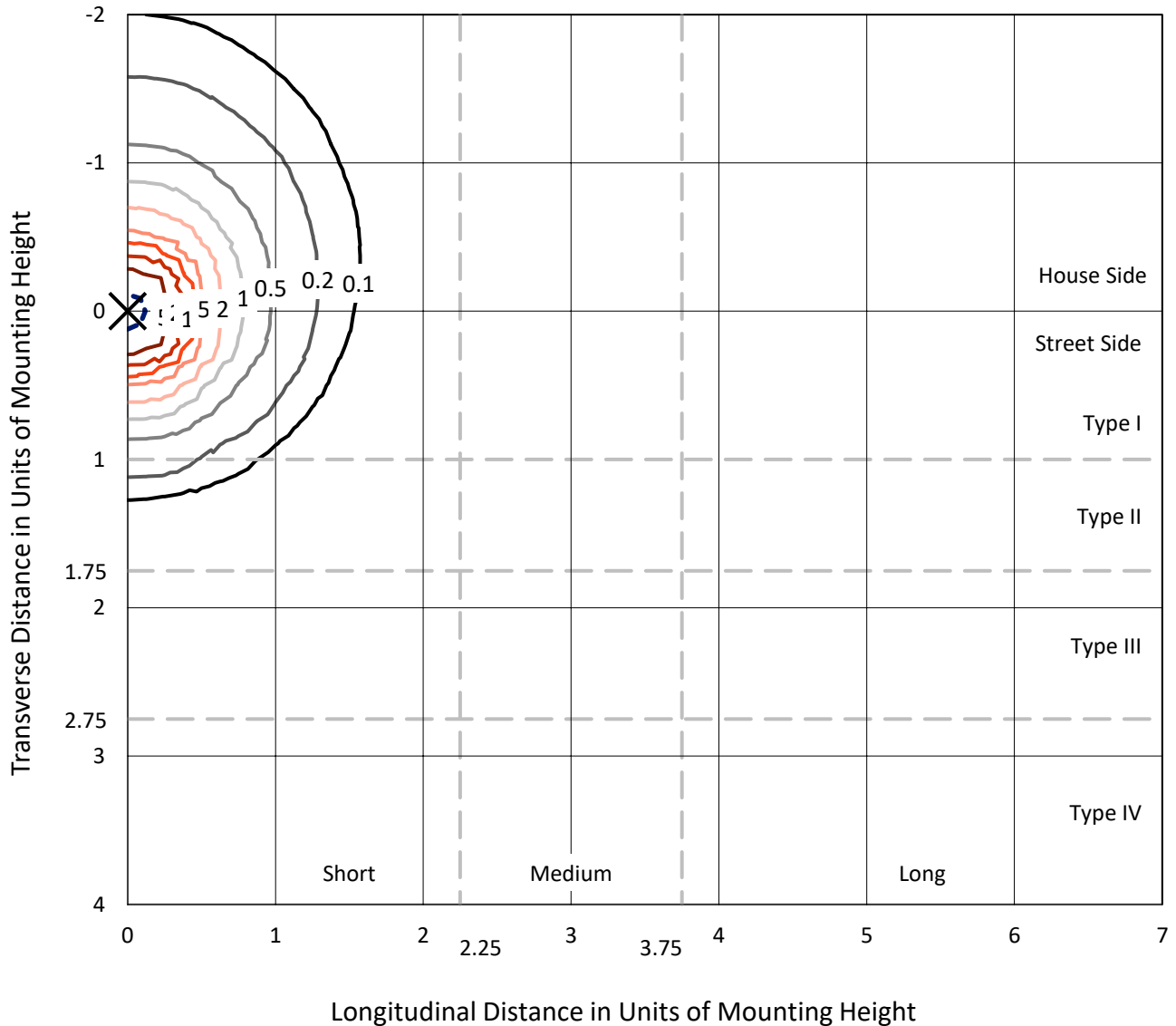
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

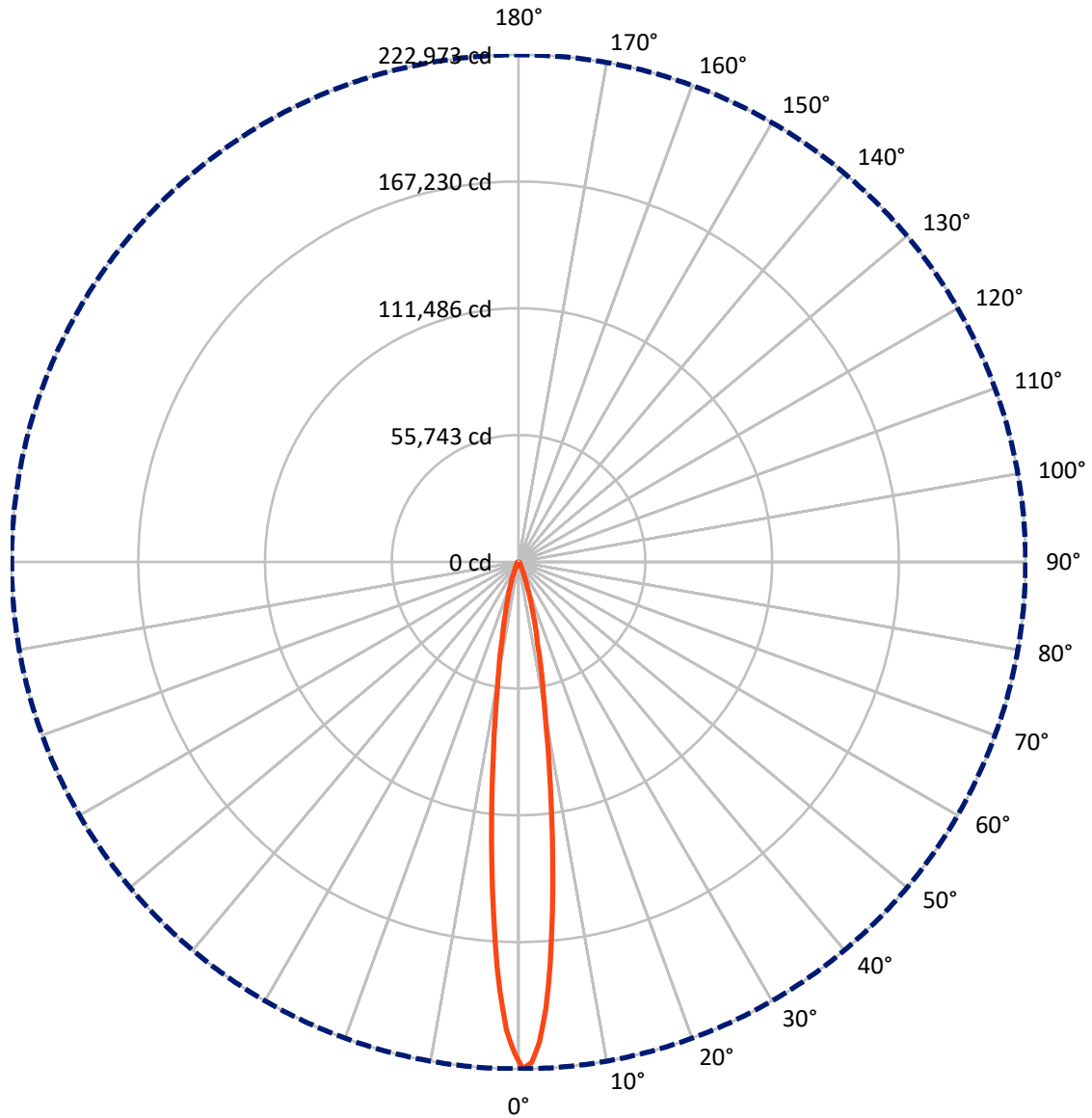
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 557.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11497.0	0.0	11497.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10950.1	0.0	10950.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	22447.1	0.0	22447.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11332.0	50.5
10°-20°	7254.7	32.3
20°-30°	2180.6	9.7
30°-40°	710.0	3.2
40°-50°	413.1	1.8
50°-60°	274.4	1.2
60°-70°	165.2	0.7
70°-80°	84.9	0.4
80°-90°	32.3	0.1
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°	22447.1	100.0
0°-180°	22447.1	100.0

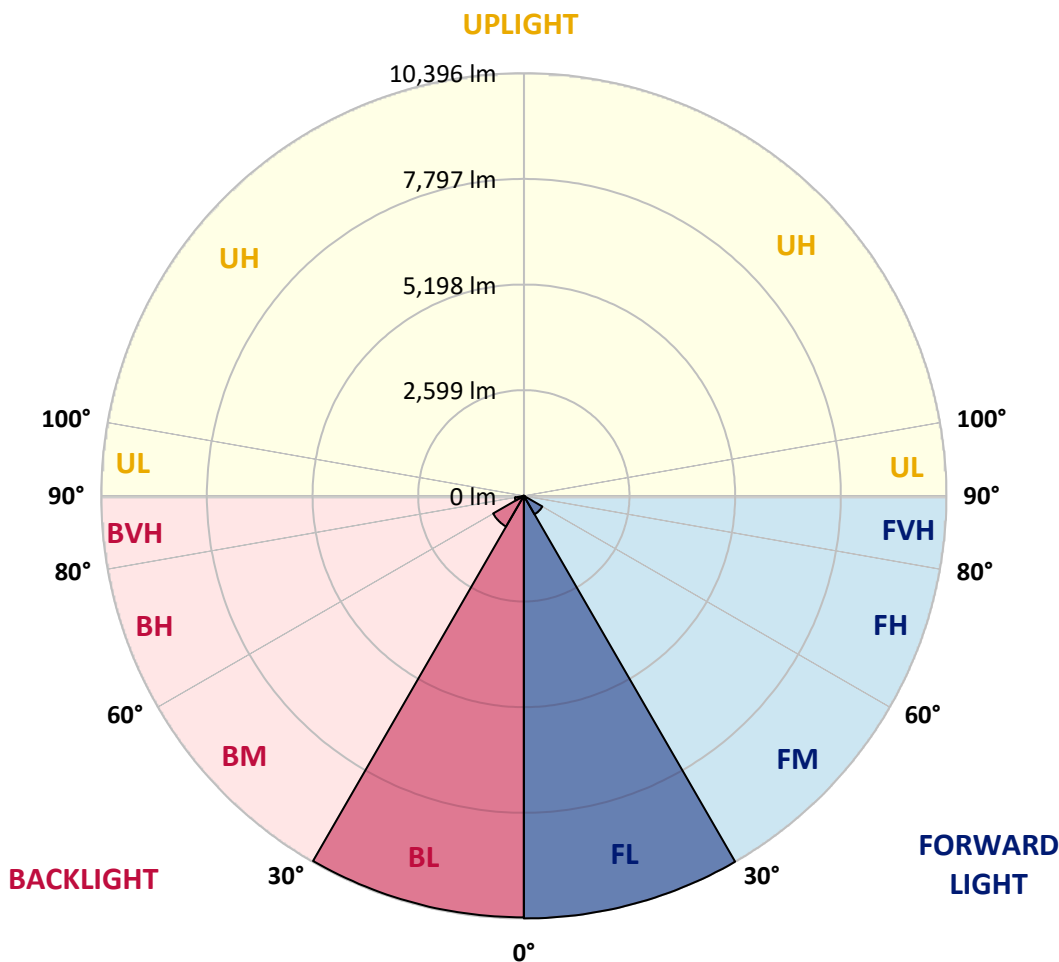


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10396.0	46.3			
FM (30°-60°)	524.6	2.3			
FH (60°-80°)	24.7	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10371.3	46.2	B5		
BM (30°-60°)	872.9	3.9	B1/1000		
BH (60°-80°)	225.4	1.0	B1/500		G0/660
BVH (80°-90°)	27.4	0.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8
1°	220303.0	219630.7	217894.8	219129.5	220215.0	219899.6	219877.6	219760.3	219596.5	220882.4
2°	211496.7	211061.5	208494.4	209553.0	211095.7	209971.1	210675.2	210056.6	210068.9	211604.2
3°	196651.5	196888.7	192793.6	194717.7	196861.8	194135.8	194981.7	196570.9	194905.9	194404.7
4°	177356.8	175298.2	173061.2	175017.1	175572.0	173985.3	175545.1	177491.2	175178.4	175281.1
5°	155328.7	153808.0	151160.2	152368.0	150991.5	151492.7	153830.0	154631.9	153018.3	150986.6
6°	132679.6	131599.0	128288.6	130029.4	129540.4	129256.8	132207.7	129762.9	130643.0	129413.3
7°	110363.0	108343.5	106717.7	108385.1	108492.7	107639.4	111470.5	111025.5	109424.2	109052.5
8°	91437.4	89422.8	88046.4	89288.4	90100.1	88760.3	90562.1	91745.5	90493.7	90606.2
9°	73748.9	73394.4	71480.1	73103.5	73986.1	72550.9	74545.9	74973.8	73802.7	74372.3
10°	60554.1	60140.9	58612.8	59270.5	60732.5	59021.1	60935.4	61074.8	60140.9	60407.4
12.5°	37420.9	37254.6	37213.1	37308.4	37288.9	37592.0	38081.0	37523.6	37450.2	36528.5
15°	24186.9	24433.8	24179.6	24668.5	24739.4	25025.5	24727.2	24277.4	23419.2	22993.8
17.5°	15094.5	15409.9	15845.1	16561.4	17277.8	17360.9	16964.8	16436.7	16021.1	15566.4
20°	8684.1	8838.1	8772.1	9630.3	11483.5	11987.1	11476.1	10921.1	10420.0	9960.3
22.5°	5395.8	5339.6	5442.2	5730.7	6334.6	7892.0	7473.9	6918.9	6554.6	6175.7
25°	3307.9	3369.0	3329.9	3488.8	3760.2	4420.3	4515.6	4276.0	4090.2	3894.6
27.5°	2129.5	2129.5	2146.6	2234.6	2420.4	2398.4	2906.9	2721.1	2620.9	2525.5
30°	1479.1	1484.0	1484.0	1535.4	1576.9	1503.6	1635.6	1875.2	1828.7	1755.4
32.5°	1097.7	1112.4	1124.6	1151.5	1117.3	1039.1	1070.8	1349.6	1322.7	1295.8
35°	836.1	848.4	877.7	892.4	843.5	794.6	765.2	992.6	1004.8	997.5
37.5°	608.8	616.1	669.9	726.1	669.9	625.9	608.8	762.8	821.5	814.1
40°	467.0	469.4	479.2	542.8	542.8	508.5	513.4	569.7	672.3	672.3
42.5°	401.0	401.0	410.7	401.0	403.4	440.1	452.3	459.6	569.7	569.7
45°	347.2	347.2	352.1	327.6	303.2	379.0	388.7	391.2	479.2	491.4
47.5°	290.9	290.9	300.7	268.9	256.7	300.7	327.6	334.9	413.2	423.0
50°	215.1	217.6	246.9	220.0	227.4	232.3	283.6	288.5	349.6	371.6
52.5°	144.2	144.2	149.1	171.1	198.0	190.7	229.8	246.9	278.7	308.1
55°	117.4	117.4	114.9	110.0	146.7	158.9	168.7	205.4	227.4	264.0
57.5°	80.7	85.6	78.2	90.5	95.3	119.8	127.1	161.4	173.6	222.5
60°	9.8	12.2	17.1	66.0	63.6	80.7	95.3	127.1	141.8	171.1
62.5°	2.4	2.4	4.9	12.2	44.0	53.8	75.8	88.0	102.7	132.0
65°	0.0	0.0	2.4	4.9	9.8	29.3	39.1	51.3	73.3	92.9
67.5°	0.0	0.0	2.4	4.9	4.9	12.2	19.6	31.8	39.1	68.5
70°	0.0	0.0	2.4	4.9	4.9	9.8	12.2	14.7	26.9	36.7
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	12.2	24.4
75°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	9.8	9.8
77.5°	0.0	0.0	2.4	4.9	9.8	12.2	14.7	12.2	7.3	7.3
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.6	14.7	7.3	4.9
82.5°	0.0	0.0	4.9	9.8	14.7	19.6	26.9	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.7	19.6	39.1	26.9	12.2	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	14.7	9.8	4.9	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
222972.8	0°	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8	222972.8
219398.4	1°	220931.3	221085.4	220581.7	221361.6	221087.8	219484.0	218953.5	218325.1	217420.5
210702.1	2°	210056.6	210841.4	210880.6	211746.0	211733.8	209863.5	209284.1	210352.5	208267.0
195421.8	3°	194830.1	195744.5	194920.6	196458.4	195996.3	193727.5	193138.3	194350.9	192835.1
176092.8	4°	175567.1	175393.6	175110.0	174234.7	175312.9	173765.3	172599.1	174244.5	171002.6
153680.8	5°	153372.8	152986.5	152434.0	152174.8	152976.7	151986.6	149588.2	151991.5	146209.4
131638.1	6°	131799.4	130136.9	130056.3	129912.0	129992.7	127220.2	127386.5	129176.1	124364.6
107773.9	7°	108913.2	109218.8	108595.4	109595.3	108832.5	106954.9	106231.2	108116.2	104715.4
91100.0	8°	90464.4	90078.1	89601.3	91095.1	89772.5	88540.3	87696.8	89185.7	86660.2
74465.3	9°	74325.9	73658.5	73174.4	73098.6	73303.9	70991.1	71460.5	72587.6	71066.9
60554.1	10°	60576.1	59480.8	59747.3	59818.2	59593.2	58077.4	58092.1	58480.8	56652.1
37139.7	12.5°	37007.7	36469.8	36604.3	36677.6	37134.8	36601.9	35848.8	35306.1	35032.3
23416.8	15°	23260.3	22874.0	23663.7	24194.2	24086.7	23612.4	23257.9	22766.4	22370.4
15566.4	17.5°	15422.1	15928.2	15930.6	16414.7	16463.6	15989.3	15715.5	15273.0	15292.5
10124.1	20°	10087.5	10297.7	10735.3	11077.6	11275.6	10913.8	10586.2	10283.0	10155.9
6312.6	22.5°	6312.6	6679.3	6953.2	7398.1	7579.0	7315.0	7082.7	6835.8	6684.2
3941.1	25°	3875.1	4136.7	4364.1	4750.3	4997.3	4870.1	4657.4	4483.9	4403.2
2545.1	27.5°	2584.2	2694.2	2806.7	3073.2	3329.9	3259.0	3173.4	3068.3	3031.6
1794.5	30°	1821.4	1831.2	1951.0	2100.1	2271.3	2315.3	2276.2	2222.4	2180.8
1317.8	32.5°	1342.2	1381.3	1437.6	1530.5	1645.4	1750.5	1731.0	1706.5	1686.9
1007.3	35°	1036.6	1095.3	1141.7	1212.6	1273.8	1374.0	1391.1	1383.8	1369.1
828.8	37.5°	845.9	897.3	943.7	985.3	1036.6	1105.1	1158.9	1161.3	1146.6
684.6	40°	701.7	748.1	809.2	841.0	877.7	929.0	995.1	999.9	995.1
579.4	42.5°	591.7	635.7	696.8	735.9	762.8	811.7	877.7	887.5	877.7
496.3	45°	508.5	535.4	599.0	645.4	672.3	704.1	775.0	784.8	782.4
427.8	47.5°	442.5	469.4	508.5	574.5	599.0	628.3	684.6	701.7	701.7
379.0	50°	388.7	415.6	449.9	508.5	545.2	569.7	616.1	640.6	640.6
330.1	52.5°	344.7	371.6	408.3	454.7	496.3	518.3	562.3	594.1	594.1
268.9	55°	288.5	334.9	361.8	403.4	459.6	479.2	513.4	555.0	555.0
234.7	57.5°	251.8	290.9	330.1	364.3	420.5	445.0	479.2	518.3	523.2
185.8	60°	212.7	249.4	295.8	325.2	379.0	410.7	447.4	484.1	493.9
141.8	62.5°	168.7	217.6	249.4	290.9	342.3	383.8	413.2	449.9	464.5
110.0	65°	124.7	178.5	215.1	259.2	308.1	352.1	376.5	415.6	425.4
78.2	67.5°	90.5	139.4	183.4	224.9	271.4	315.4	339.8	374.1	381.4
48.9	70°	70.9	102.7	151.6	188.3	237.2	273.8	300.7	322.7	330.1
31.8	72.5°	41.6	78.2	122.2	163.8	207.8	232.3	251.8	271.4	276.3
14.7	75°	26.9	61.1	100.2	136.9	168.7	190.7	207.8	224.9	227.4
7.3	77.5°	17.1	44.0	80.7	114.9	129.6	156.5	171.1	180.9	176.0
4.9	80°	9.8	34.2	70.9	92.9	105.1	122.2	136.9	149.1	136.9
4.9	82.5°	7.3	29.3	58.7	78.2	78.2	97.8	105.1	105.1	100.2
2.4	85°	4.9	24.4	46.5	73.3	58.7	73.3	68.5	68.5	68.5
2.4	87.5°	4.9	17.1	22.0	31.8	26.9	31.8	31.8	36.7	36.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
222972.8
215836.3
205827.1
188964.9
168288.8
145659.3
123988.1
102989.3
84934.1
69067.0
55835.5
34976.0
22514.6
15163.0
10177.9
6703.8
4383.6
3007.2
2185.7
1686.9
1359.3
1144.2
992.6
880.1
782.4
704.1
643.0
594.1
557.4
520.8
493.9
467.0
423.0
376.5
330.1
276.3
224.9
176.0
134.5
97.8
66.0
36.7
0.0

(END OF REPORT)