

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: P637045

Luminaire Tested: **IFLD-M-SA4D-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637045
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26018.4 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

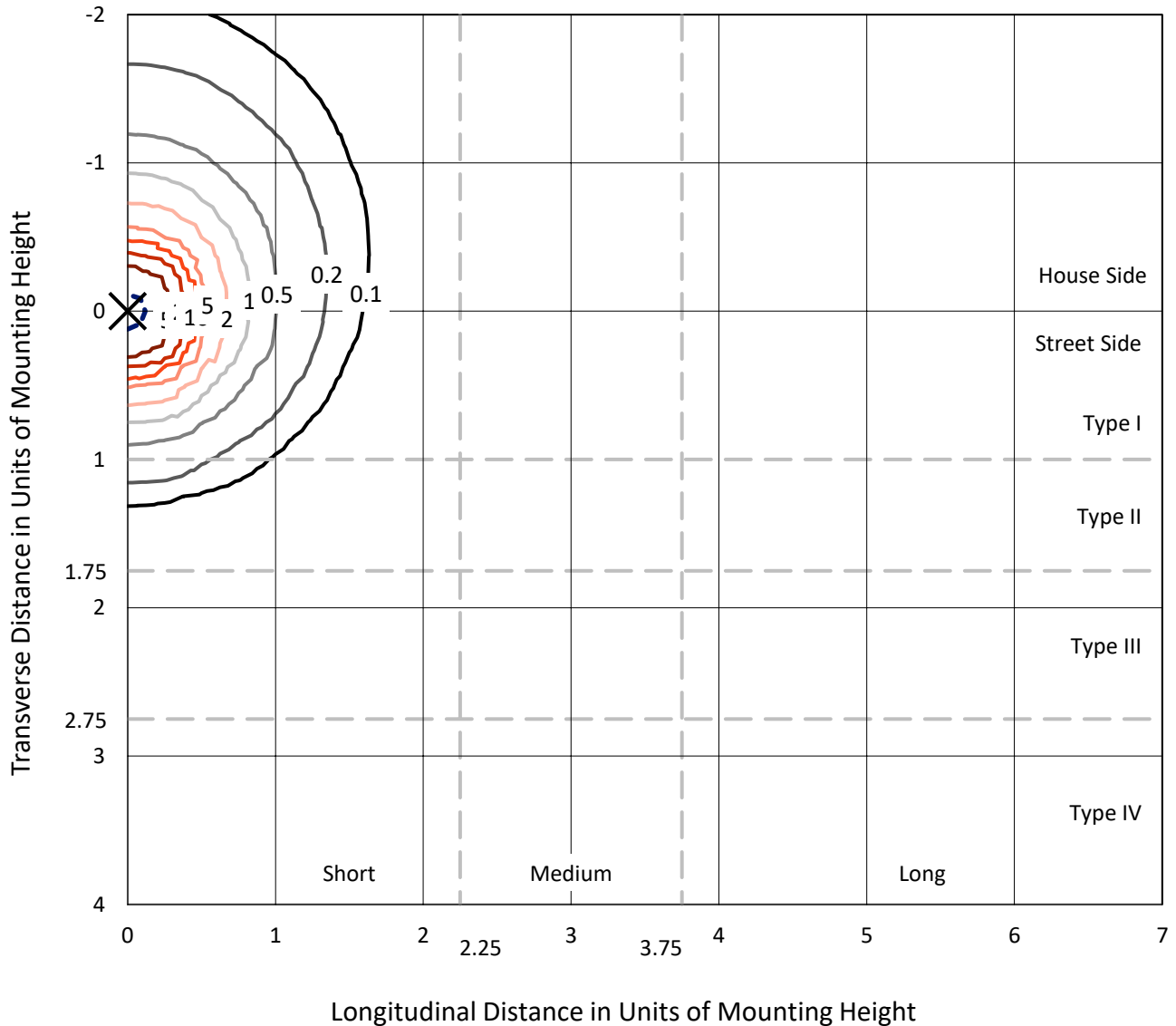
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

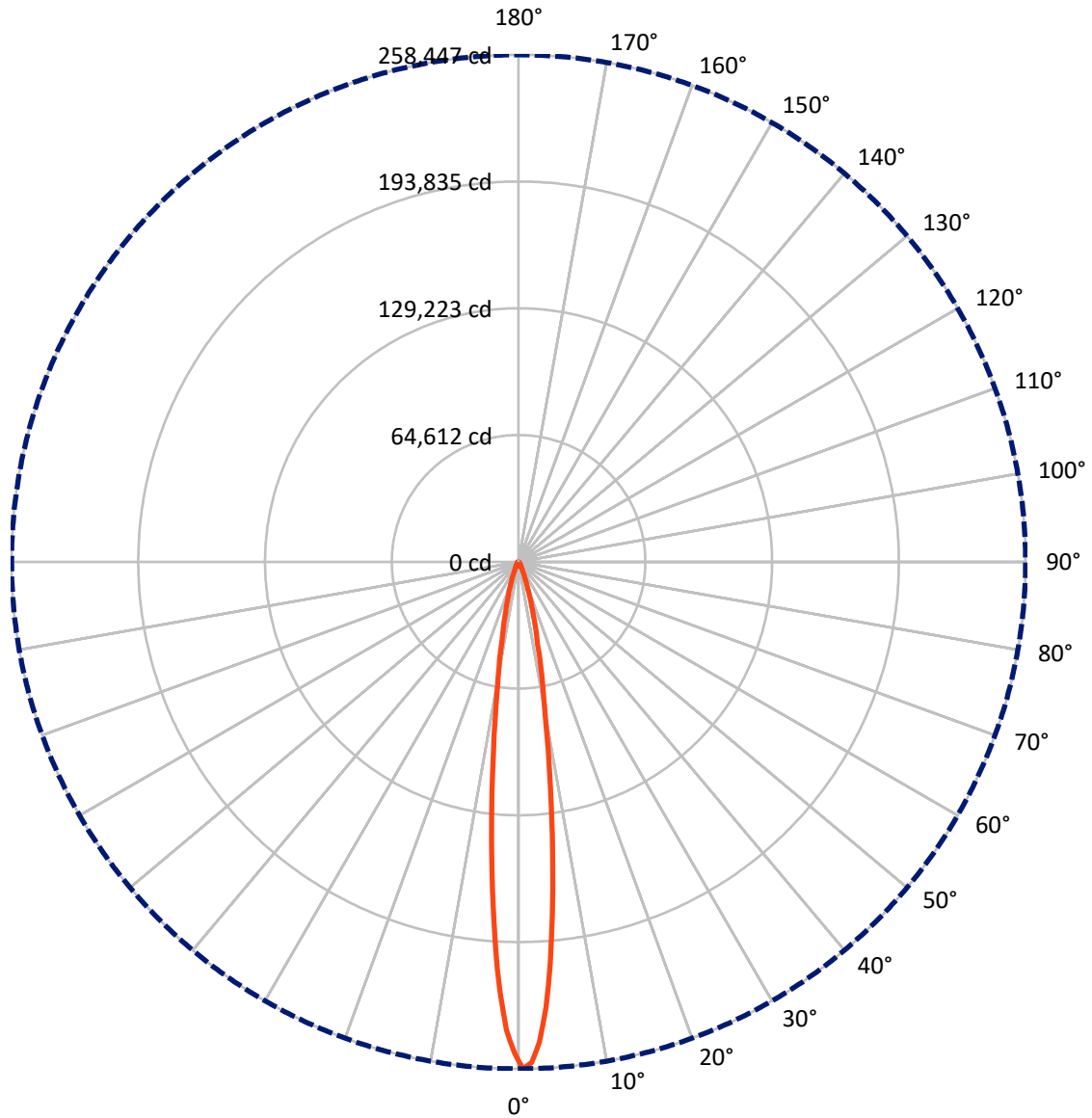
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 646.1 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	13326.1	0.0	13326.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12692.2	0.0	12692.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	26018.4	0.0	26018.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13134.9	50.5
10°-20°	8408.9	32.3
20°-30°	2527.5	9.7
30°-40°	823.0	3.2
40°-50°	478.8	1.8
50°-60°	318.1	1.2
60°-70°	191.4	0.7
70°-80°	98.4	0.4
80°-90°	37.4	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°	26018.4	100.0
0°-180°	26018.4	100.0

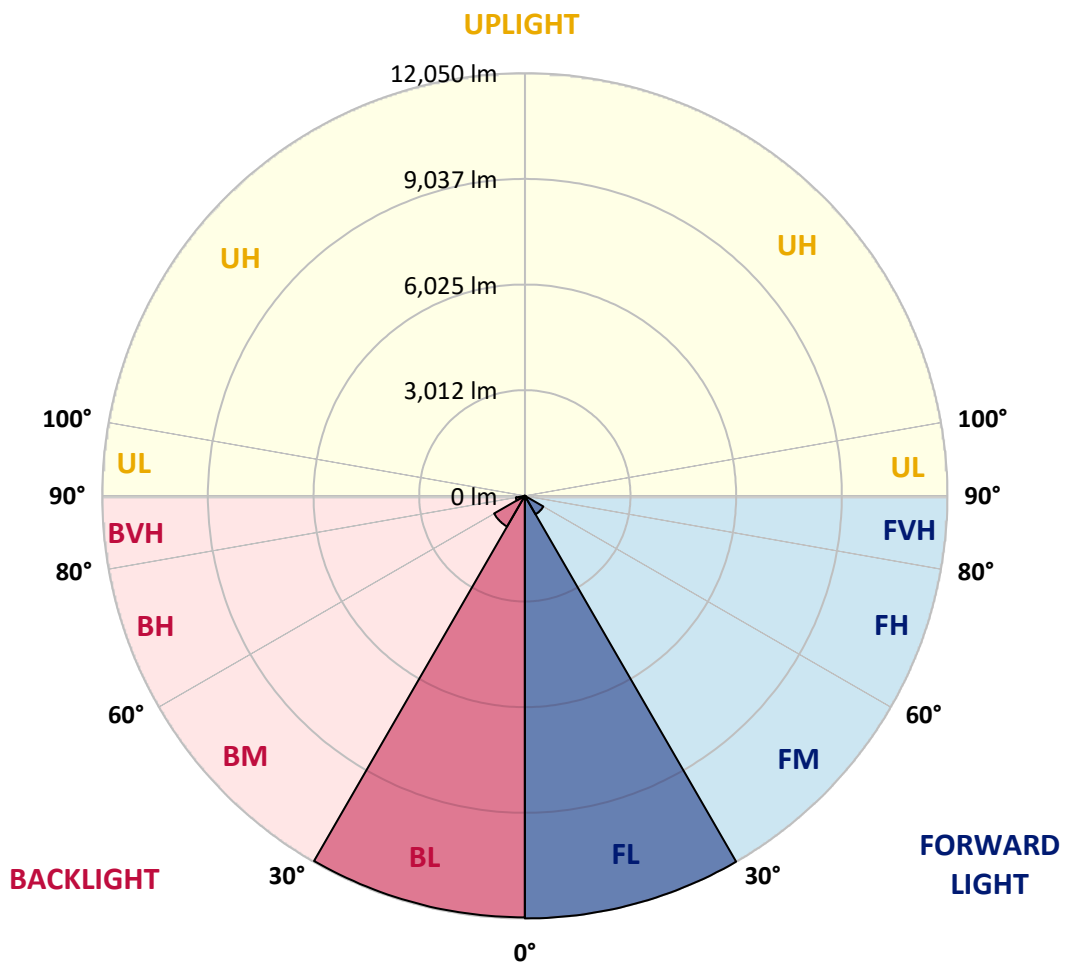


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12049.9	46.3			
FM (30°-60°)	608.1	2.3			
FH (60°-80°)	28.6	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	12021.4	46.2	B5		
BM (30°-60°)	1011.8	3.9	B2/2500		
BH (60°-80°)	261.2	1.0	B1/500		G0/660
BVH (80°-90°)	31.7	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°	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8
1°	255352.3	254573.0	252561.0	253992.1	255250.3	254884.7	254859.2	254723.2	254533.3	256023.9
2°	245144.9	244640.5	241665.0	242892.0	244680.2	243376.6	244192.7	243475.8	243490.0	245269.6
3°	227938.0	228212.9	223466.2	225696.4	228181.7	225022.0	226002.5	227844.5	225914.6	225333.7
4°	205573.5	203187.4	200594.5	202861.5	203504.8	201665.7	203473.6	205729.4	203048.6	203167.6
5°	180040.8	178278.2	175209.2	176609.1	175013.6	175594.6	178303.7	179233.2	177362.9	175008.0
6°	153788.4	152535.8	148698.8	150716.5	150149.7	149821.0	153241.4	150407.6	151427.8	150002.4
7°	127921.3	125580.5	123696.1	125628.7	125753.4	124764.4	129205.0	128689.2	126833.1	126402.4
8°	105984.7	103649.6	102054.2	103493.8	104434.6	102881.7	104970.2	106341.8	104890.9	105021.2
9°	85482.1	85071.2	82852.3	84733.9	85756.9	84093.5	86405.9	86901.8	85544.4	86204.7
10°	70188.0	69709.0	67937.9	68700.2	70394.8	68411.1	70630.0	70791.6	69709.0	70017.9
12.5°	43374.4	43181.7	43133.5	43244.0	43221.4	43572.8	44139.5	43493.4	43408.4	42340.0
15°	28034.9	28321.2	28026.4	28593.2	28675.4	29006.9	28661.2	28139.8	27145.1	26652.0
17.5°	17496.0	17861.5	18366.0	19196.3	20026.6	20122.9	19663.8	19051.7	18570.0	18042.9
20°	10065.7	10244.2	10167.7	11162.4	13310.4	13894.2	13301.9	12658.7	12077.7	11545.0
22.5°	6254.2	6189.1	6308.1	6642.5	7342.4	9147.6	8663.0	8019.7	7597.5	7158.2
25°	3834.2	3905.0	3859.7	4043.9	4358.4	5123.5	5234.1	4956.3	4741.0	4514.3
27.5°	2468.3	2468.3	2488.1	2590.1	2805.5	2780.0	3369.4	3154.0	3037.9	2927.3
30°	1714.5	1720.1	1720.1	1779.6	1827.8	1742.8	1895.8	2173.5	2119.7	2034.7
32.5°	1272.4	1289.4	1303.6	1334.7	1295.1	1204.4	1241.2	1564.3	1533.1	1501.9
35°	969.2	983.3	1017.3	1034.3	977.7	921.0	887.0	1150.5	1164.7	1156.2
37.5°	705.6	714.1	776.5	841.6	776.5	725.5	705.6	884.2	952.2	943.7
40°	541.3	544.1	555.4	629.1	629.1	589.4	595.1	660.3	779.3	779.3
42.5°	464.7	464.7	476.1	464.7	467.6	510.1	524.3	532.8	660.3	660.3
45°	402.4	402.4	408.1	379.7	351.4	439.2	450.6	453.4	555.4	569.6
47.5°	337.2	337.2	348.6	311.7	297.6	348.6	379.7	388.2	478.9	490.3
50°	249.4	252.2	286.2	255.0	263.5	269.2	328.7	334.4	405.2	430.7
52.5°	167.2	167.2	172.9	198.4	229.5	221.0	266.4	286.2	323.1	357.1
55°	136.0	136.0	133.2	127.5	170.0	184.2	195.5	238.0	263.5	306.1
57.5°	93.5	99.2	90.7	104.9	110.5	138.9	147.4	187.0	201.2	257.9
60°	11.3	14.2	19.8	76.5	73.7	93.5	110.5	147.4	164.4	198.4
62.5°	2.8	2.8	5.7	14.2	51.0	62.3	87.8	102.0	119.0	153.0
65°	0.0	0.0	2.8	5.7	11.3	34.0	45.3	59.5	85.0	107.7
67.5°	0.0	0.0	2.8	5.7	5.7	14.2	22.7	36.8	45.3	79.3
70°	0.0	0.0	2.8	5.7	5.7	11.3	14.2	17.0	31.2	42.5
72.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	14.2	14.2	28.3
75°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	14.2	11.3	11.3
77.5°	0.0	0.0	2.8	5.7	11.3	14.2	17.0	14.2	8.5	8.5
80°	0.0	0.0	2.8	8.5	14.2	19.8	22.7	17.0	8.5	5.7
82.5°	0.0	0.0	5.7	11.3	17.0	22.7	31.2	25.5	11.3	5.7
85°	0.0	0.0	2.8	8.5	17.0	22.7	45.3	31.2	14.2	2.8
87.5°	0.0	0.0	0.0	2.8	2.8	5.7	17.0	11.3	5.7	2.8
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°
258446.8	0°	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8	258446.8
254303.8	1°	256080.6	256259.1	255675.4	256579.4	256262.0	254403.0	253788.0	253059.8
244223.9	2°	243475.8	244385.4	244430.8	245434.0	245419.8	243251.9	242580.3	243818.7
226512.6	3°	225826.8	226886.6	225931.6	227714.1	227178.5	224548.7	223865.8	225271.4
204108.4	4°	203499.1	203297.9	202969.2	201954.7	203204.4	201410.6	200058.9	201966.1
178130.8	5°	177773.8	177326.0	176685.6	176385.2	177314.7	176167.0	173387.0	176172.7
152581.1	6°	152768.2	150841.2	150747.7	150580.5	150674.0	147460.4	147653.1	149727.5
124920.3	7°	126240.8	126595.1	125872.4	127031.5	126147.3	123970.9	123132.1	125317.0
105593.6	8°	104856.9	104409.1	103856.5	105588.0	104054.9	102626.6	101649.0	103374.8
86312.4	9°	86150.8	85377.2	84816.1	84728.3	84966.3	82285.5	82829.6	84136.0
70188.0	10°	70213.5	68943.9	69252.8	69335.0	69074.3	67317.3	67334.3	67784.9
43048.5	12.5°	42895.5	42272.0	42427.9	42512.9	43042.8	42425.1	41552.2	40923.1
27142.3	15°	26960.9	26513.2	27428.5	28043.4	27918.8	27369.0	26958.1	26388.5
18042.9	17.5°	17875.7	18462.3	18465.1	19026.2	19082.9	18533.2	18215.8	17702.8
11734.8	20°	11692.3	11936.0	12443.3	12840.0	13069.6	12650.2	12270.4	11919.0
7316.9	22.5°	7316.9	7742.0	8059.4	8575.1	8784.8	8478.8	8209.6	7923.3
4568.1	25°	4491.6	4794.8	5058.4	5506.1	5792.3	5645.0	5398.4	5197.2
2950.0	27.5°	2995.3	3122.9	3253.2	3562.1	3859.7	3777.5	3678.3	3556.4
2080.0	30°	2111.2	2122.5	2261.4	2434.2	2632.6	2683.6	2638.3	2575.9
1527.4	32.5°	1555.8	1601.1	1666.3	1774.0	1907.2	2029.0	2006.3	1978.0
1167.5	35°	1201.5	1269.5	1323.4	1405.6	1476.4	1592.6	1612.4	1603.9
960.7	37.5°	980.5	1040.0	1093.9	1142.0	1201.5	1280.9	1343.2	1346.1
793.5	40°	813.3	867.1	938.0	974.8	1017.3	1076.9	1153.4	1159.0
671.6	42.5°	685.8	736.8	807.6	853.0	884.2	940.8	1017.3	1028.7
575.3	45°	589.4	620.6	694.3	748.1	779.3	816.1	898.3	909.7
495.9	47.5°	512.9	544.1	589.4	665.9	694.3	728.3	793.5	813.3
439.2	50°	450.6	481.7	521.4	589.4	631.9	660.3	714.1	742.5
382.6	52.5°	399.6	430.7	473.2	527.1	575.3	600.8	651.8	688.6
311.7	55°	334.4	388.2	419.4	467.6	532.8	555.4	595.1	643.3
272.0	57.5°	291.9	337.2	382.6	422.2	487.4	515.8	555.4	600.8
215.4	60°	246.5	289.0	342.9	376.9	439.2	476.1	518.6	561.1
164.4	62.5°	195.5	252.2	289.0	337.2	396.7	444.9	478.9	521.4
127.5	65°	144.5	206.9	249.4	300.4	357.1	408.1	436.4	481.7
90.7	67.5°	104.9	161.5	212.5	260.7	314.6	365.6	393.9	433.6
56.7	70°	82.2	119.0	175.7	218.2	274.9	317.4	348.6	374.1
36.8	72.5°	48.2	90.7	141.7	189.9	240.9	269.2	291.9	314.6
17.0	75°	31.2	70.8	116.2	158.7	195.5	221.0	240.9	260.7
8.5	77.5°	19.8	51.0	93.5	133.2	150.2	181.4	198.4	209.7
5.7	80°	11.3	39.7	82.2	107.7	121.9	141.7	158.7	172.9
5.7	82.5°	8.5	34.0	68.0	90.7	90.7	113.4	121.9	121.9
2.8	85°	5.7	28.3	53.8	85.0	68.0	85.0	79.3	79.3
2.8	87.5°	5.7	19.8	25.5	36.8	31.2	36.8	36.8	42.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
258446.8
250174.9
238573.3
219028.5
195062.9
168833.1
143714.1
119374.5
98446.8
80055.3
64718.7
40540.6
26096.6
17575.3
11797.2
7770.3
5081.0
3485.6
2533.4
1955.3
1575.6
1326.2
1150.5
1020.2
906.8
816.1
745.3
688.6
646.1
603.6
572.4
541.3
490.3
436.4
382.6
320.2
260.7
204.0
155.9
113.4
76.5
42.5
0.0

(END OF REPORT)