

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: P637234

Luminaire Tested: **IFLD-S-SA2E-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637234
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14302.4 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

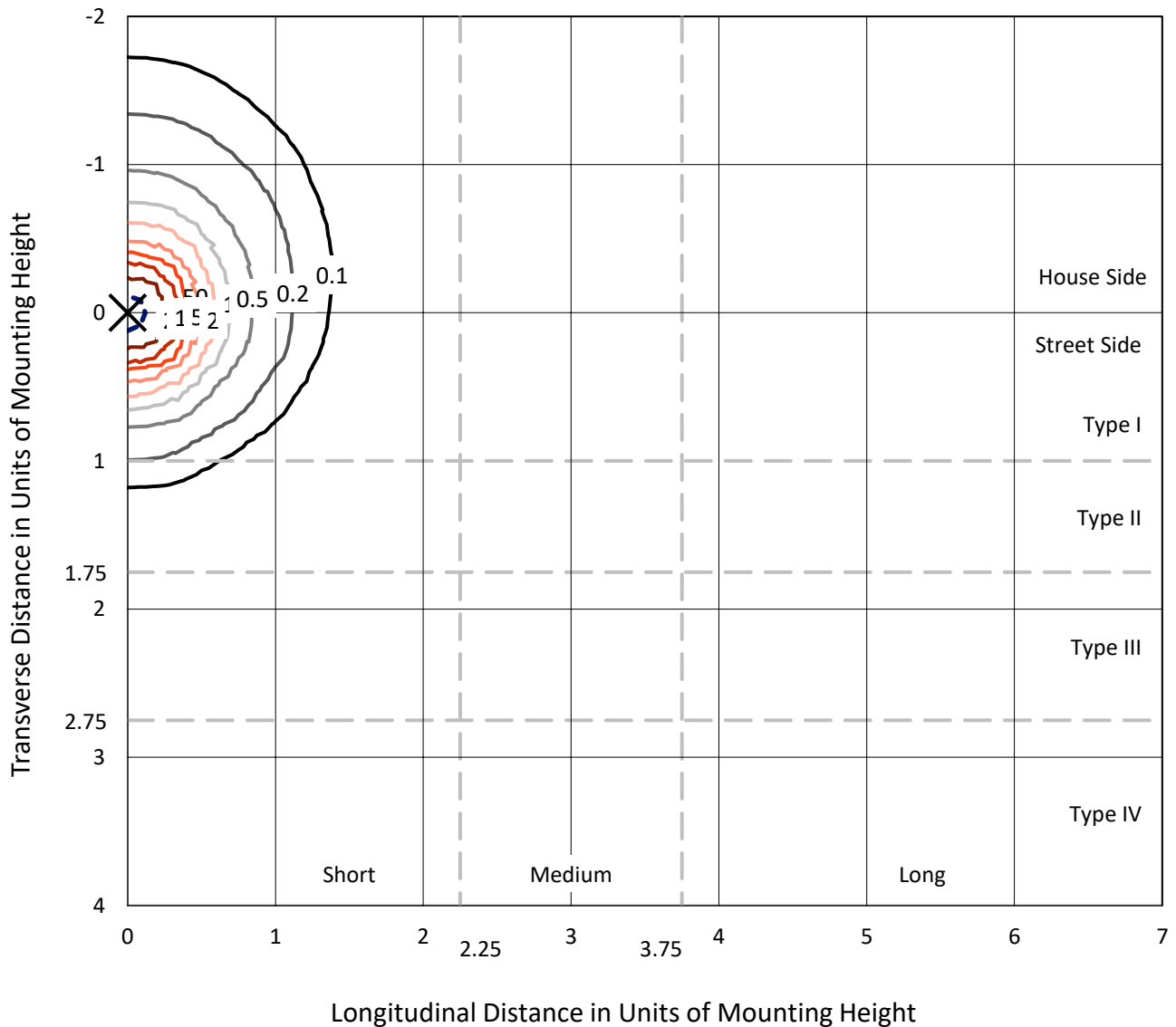
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

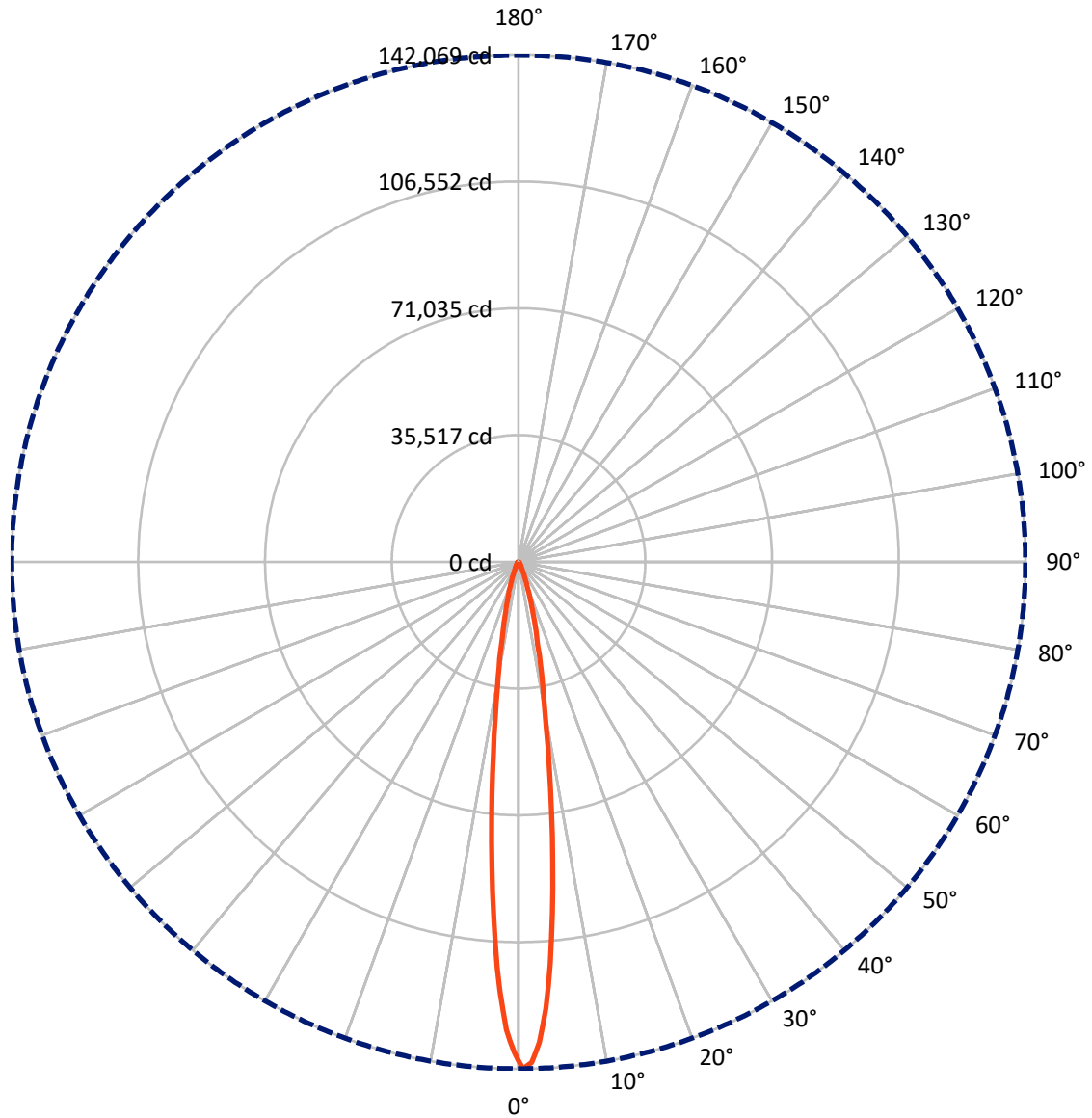
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 355.2 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	7325.4	0.0	7325.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6977.0	0.0	6977.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	14302.4	0.0	14302.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7220.3	50.5
10°-20°	4622.4	32.3
20°-30°	1389.4	9.7
30°-40°	452.4	3.2
40°-50°	263.2	1.8
50°-60°	174.8	1.2
60°-70°	105.2	0.7
70°-80°	54.1	0.4
80°-90°	20.6	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°	14302.4	100.0
0°-180°	14302.4	100.0

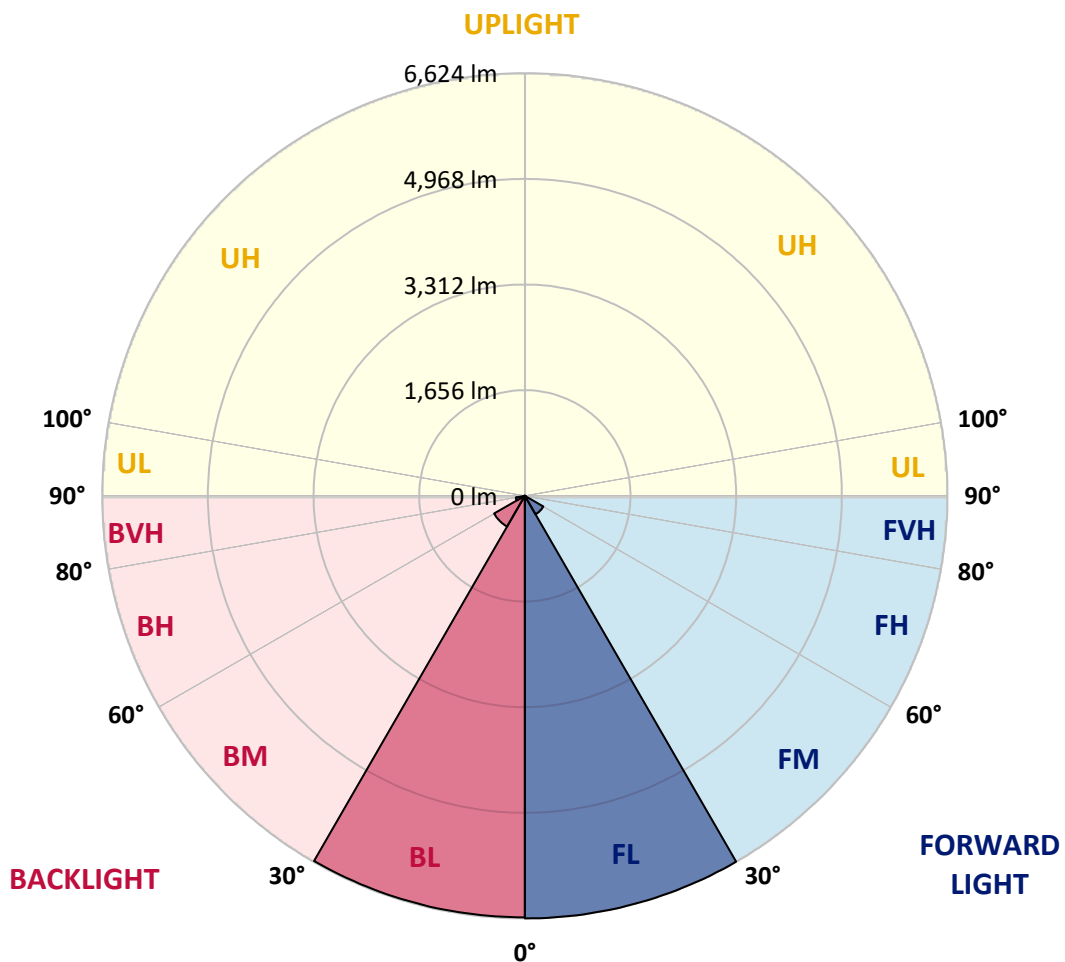


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6623.9	46.3			
FM (30°-60°)	334.3	2.3			
FH (60°-80°)	15.7	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	6608.2	46.2	B5		
BM (30°-60°)	556.2	3.9	B1/1000		
BH (60°-80°)	143.6	1.0	B1/500		G0/660
BVH (80°-90°)	17.5	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°	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1
1°	140368.1	139939.7	138833.7	139620.4	140312.0	140111.0	140097.0	140022.3	139917.9	140737.3
2°	134757.0	134479.7	132844.1	133518.6	134501.6	133785.0	134233.6	133839.5	133847.3	134825.6
3°	125298.3	125449.4	122840.2	124066.1	125432.3	123695.4	124234.4	125246.9	124186.1	123866.7
4°	113004.5	111692.9	110267.5	111513.7	111867.3	110856.3	111850.2	113090.2	111616.5	111682.0
5°	98969.1	98000.2	96313.1	97082.6	96205.6	96525.0	98014.2	98525.1	97497.0	96202.5
6°	84538.0	83849.5	81740.3	82849.4	82537.8	82357.1	84237.4	82679.6	83240.4	82456.8
7°	70318.8	69032.1	67996.2	69058.6	69127.1	68583.4	71024.4	70740.9	69720.6	69483.8
8°	58260.2	56976.6	56099.6	56890.9	57408.1	56554.4	57702.5	58456.5	57658.9	57730.5
9°	46989.8	46763.9	45544.2	46578.5	47140.9	46226.5	47497.6	47770.2	47024.1	47387.0
10°	38582.6	38319.3	37345.7	37764.7	38696.3	37605.9	38825.6	38914.4	38319.3	38489.1
12.5°	23843.1	23737.1	23710.6	23771.4	23758.9	23952.1	24263.6	23908.5	23861.7	23274.5
15°	15410.9	15568.2	15406.2	15717.8	15763.0	15945.2	15755.2	15468.5	14921.8	14650.7
17.5°	9617.6	9818.6	10095.8	10552.3	11008.7	11061.6	10809.3	10472.8	10208.0	9918.2
20°	5533.2	5631.3	5589.2	6136.0	7316.8	7637.7	7312.1	6958.5	6639.2	6346.3
22.5°	3438.0	3402.1	3467.6	3651.4	4036.2	5028.4	4762.1	4408.5	4176.4	3934.9
25°	2107.6	2146.6	2121.7	2222.9	2395.8	2816.4	2877.2	2724.5	2606.1	2481.5
27.5°	1356.8	1356.8	1367.7	1423.8	1542.2	1528.2	1852.2	1733.8	1669.9	1609.2
30°	942.4	945.6	945.6	978.3	1004.8	958.0	1042.1	1194.8	1165.2	1118.5
32.5°	699.4	708.8	716.6	733.7	711.9	662.0	682.3	859.9	842.7	825.6
35°	532.8	540.5	559.2	568.6	537.4	506.3	487.6	632.5	640.2	635.6
37.5°	387.9	392.6	426.8	462.7	426.8	398.8	387.9	486.0	523.4	518.7
40°	297.5	299.1	305.3	345.8	345.8	324.0	327.1	363.0	428.4	428.4
42.5°	255.5	255.5	261.7	255.5	257.0	280.4	288.2	292.9	363.0	363.0
45°	221.2	221.2	224.3	208.7	193.2	241.5	247.7	249.2	305.3	313.1
47.5°	185.4	185.4	191.6	171.4	163.6	191.6	208.7	213.4	263.3	269.5
50°	137.1	138.6	157.3	140.2	144.9	148.0	180.7	183.8	222.8	236.8
52.5°	91.9	91.9	95.0	109.0	126.2	121.5	146.4	157.3	177.6	196.3
55°	74.8	74.8	73.2	70.1	93.5	101.3	107.5	130.9	144.9	168.2
57.5°	51.4	54.5	49.8	57.6	60.8	76.3	81.0	102.8	110.6	141.8
60°	6.2	7.8	10.9	42.1	40.5	51.4	60.8	81.0	90.4	109.0
62.5°	1.6	1.6	3.1	7.8	28.0	34.3	48.3	56.1	65.4	84.1
65°	0.0	0.0	1.6	3.1	6.2	18.7	24.9	32.7	46.7	59.2
67.5°	0.0	0.0	1.6	3.1	3.1	7.8	12.5	20.3	24.9	43.6
70°	0.0	0.0	1.6	3.1	3.1	6.2	7.8	9.3	17.1	23.4
72.5°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	7.8	7.8	15.6
75°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	7.8	6.2	6.2
77.5°	0.0	0.0	1.6	3.1	6.2	7.8	9.3	7.8	4.7	4.7
80°	0.0	0.0	1.6	4.7	7.8	10.9	12.5	9.3	4.7	3.1
82.5°	0.0	0.0	3.1	6.2	9.3	12.5	17.1	14.0	6.2	3.1
85°	0.0	0.0	1.6	4.7	9.3	12.5	24.9	17.1	7.8	1.6
87.5°	0.0	0.0	0.0	1.6	1.6	3.1	9.3	6.2	3.1	1.6
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°
142069.1	0°	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1	142069.1
139791.7	1°	140768.4	140866.6	140545.7	141042.6	140868.1	139846.2	139508.2	139107.9
134250.8	2°	133839.5	134339.6	134364.5	134915.9	134908.1	133716.4	133347.3	134028.0
124514.8	3°	124137.8	124720.4	124195.4	125175.3	124880.8	123435.2	123059.8	123832.5
112199.1	4°	111864.2	111753.6	111572.9	111015.2	111702.2	110716.1	109973.1	111021.5
97919.2	5°	97722.9	97476.7	97124.7	96959.6	97470.5	96839.6	95311.5	96842.7
83874.4	6°	83977.2	82917.9	82866.5	82774.6	82826.0	81059.5	81165.5	82305.7
68669.1	7°	69395.0	69589.8	69192.5	69829.6	69343.6	68147.3	67686.2	68887.2
58045.2	8°	57640.2	57394.1	57090.3	58042.1	57199.3	56414.2	55876.8	56825.5
47446.2	9°	47357.4	46932.2	46623.7	46575.4	46706.3	45232.6	45531.7	46249.9
38582.6	10°	38596.6	37898.7	38068.5	38113.7	37970.4	37004.6	37013.9	37261.6
23663.9	12.5°	23579.8	23237.1	23322.8	23369.5	23660.8	23321.2	22841.4	22495.6
14920.2	15°	14820.5	14574.4	15077.5	15415.6	15347.0	15044.8	14819.0	14505.8
9918.2	17.5°	9826.3	10148.8	10150.4	10458.8	10489.9	10187.7	10013.3	9731.3
6450.7	20°	6427.3	6561.3	6840.1	7058.2	7184.4	6953.8	6745.1	6551.9
4022.1	22.5°	4022.1	4255.8	4430.3	4713.8	4829.1	4660.8	4512.8	4355.5
2511.1	25°	2469.0	2635.7	2780.6	3026.7	3184.1	3103.1	2967.5	2856.9
1621.6	27.5°	1646.6	1716.7	1788.3	1958.1	2121.7	2076.5	2022.0	1955.0
1143.4	30°	1160.5	1166.8	1243.1	1338.1	1447.2	1475.2	1450.3	1416.0
839.6	32.5°	855.2	880.1	916.0	975.2	1048.4	1115.4	1102.9	1087.3
641.8	35°	660.5	697.9	727.5	772.6	811.6	875.5	886.4	881.7
528.1	37.5°	539.0	571.7	601.3	627.8	660.5	704.1	738.4	739.9
436.2	40°	447.1	476.7	515.6	535.9	559.2	591.9	634.0	637.1
369.2	42.5°	377.0	405.0	444.0	468.9	486.0	517.2	559.2	565.5
316.2	45°	324.0	341.1	381.7	411.2	428.4	448.6	493.8	500.0
272.6	47.5°	282.0	299.1	324.0	366.1	381.7	400.3	436.2	447.1
241.5	50°	247.7	264.8	286.6	324.0	347.4	363.0	392.6	408.1
210.3	52.5°	219.6	236.8	260.1	289.7	316.2	330.2	358.3	378.5
171.4	55°	183.8	213.4	230.5	257.0	292.9	305.3	327.1	353.6
149.5	57.5°	160.4	185.4	210.3	232.1	267.9	283.5	305.3	330.2
118.4	60°	135.5	158.9	188.5	207.2	241.5	261.7	285.1	308.4
90.4	62.5°	107.5	138.6	158.9	185.4	218.1	244.6	263.3	286.6
70.1	65°	79.4	113.7	137.1	165.1	196.3	224.3	239.9	264.8
49.8	67.5°	57.6	88.8	116.8	143.3	172.9	201.0	216.5	238.3
31.2	70°	45.2	65.4	96.6	119.9	151.1	174.5	191.6	205.6
20.3	72.5°	26.5	49.8	77.9	104.4	132.4	148.0	160.4	172.9
9.3	75°	17.1	38.9	63.9	87.2	107.5	121.5	132.4	143.3
4.7	77.5°	10.9	28.0	51.4	73.2	82.6	99.7	109.0	115.3
3.1	80°	6.2	21.8	45.2	59.2	67.0	77.9	87.2	95.0
3.1	82.5°	4.7	18.7	37.4	49.8	49.8	62.3	67.0	67.0
1.6	85°	3.1	15.6	29.6	46.7	37.4	46.7	43.6	43.6
1.6	87.5°	3.1	10.9	14.0	20.3	17.1	20.3	20.3	23.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
142069.1
137522.1
131144.6
120400.7
107226.8
92808.1
79000.2
65620.6
54116.5
44006.7
35576.1
22285.3
14345.4
9661.2
6484.9
4271.4
2793.1
1916.0
1392.6
1074.9
866.1
729.0
632.5
560.8
498.5
448.6
409.7
378.5
355.2
331.8
314.7
297.5
269.5
239.9
210.3
176.0
143.3
112.2
85.7
62.3
42.1
23.4
0.0

(END OF REPORT)